# **AIR CONDITIONERS**

2 0 1 9

**LG HVAC SOLUTION** 





### **LG Electronics**

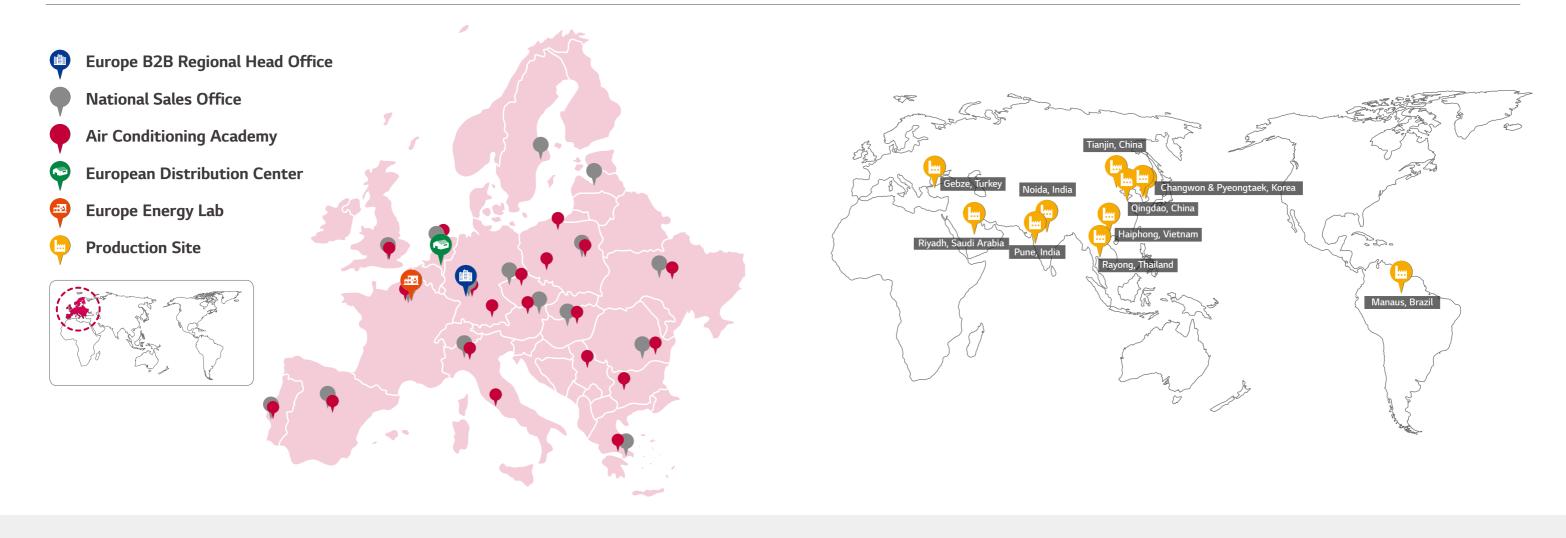
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# EUROPE SALES INFRASTRUCTURE

# 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**

Ever since manufacturing Korea's first exclusively home designed air conditioner in 1968, LG has remained as a pioneer and an epitome of air conditioning innovation. LG has been the world's best selling manufacturer of residential air conditioning solutions. In 2008, LG accomplished the target sales for more than 100 million air conditioners. Encouraged by its success rate and technological leadership in the residential air conditioning sector, LG has expanded it's wings into system air conditioning as well.

LG has established itself as an inimitable / exemplary HVAC and energy solution provider, investing in new technologies and adding chillers, VRF systems, and building management systems (BMS) to its comprehensive product portfolio. Including a wide range of innovative solutions, LG delivers 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. LG also operates several state-of-the-art R&D facilities all across the planet

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

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204 - 238 THERMA V





## **R32 REFRIGERANT**

# HIGHLY EFFICIENT GREEN REFRIGERANT

R32 is environment friendly and classified as a highly efficient 'Go Green' refrigerant.

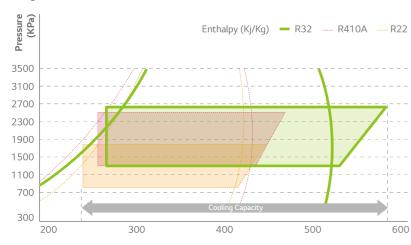
#### Reducing Global Warming & Ozone Layer Depletion

The quantity of R32 refrigerant used is appreciably low as compared to the R410A refrigerant. Consequently, this results in decreasing the potential of global warming and minimal depletion of the ozone layer. Comparative case studies of the different refrigerants are indicated in the table and chart as below:

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

#### High Refrigerant Compression Rate

High refrigerant compression rates lead to high capacity as compared to existing refrigerant R22, and R410A.







011

## **LINE-UP**

## **INDOOR UNIT**

INDC	JOR UN	П					O Single S	plit Only O	Compatible	Multi Split Only
	MODE!	K	BTU	5	7	9	12	15	18	24
I.	MODEL		KW	1.5	2.1	2.6	3.5	4.2	5.3	7.0
	Prestige	(R410A) (Wi-Fi				O H09AP.NSM	O H12AP.NSM			
	ARTCOOL Gallery	(R32)	NEW			O ● A09FR.NSF	O ● A12FR.NSF			
	ARTCOOL Mirror	R32 Wi-Fi			AM07BP.NSJ	O● AC09BQ.NSJ	O ● AC12BQ.NSJ		O● AC18BQ.NSK	O ● AC24BQ.NSK
Wall mounted	ARTCOOL Silver	R32) (Fig. Wi-Fi	NEW			O ● AC09SQ.NSJ	O <b>●</b> AC12SQ.NSJ		O● AC18SQ.NSK	
	Deluxe	R32) (Cr.Fi	- Is		DM07RP.NSJ	O ● DC09RQ.NSJ	O <b>●</b> DC12RQ.NSJ		O● DC18RQ.NSK	O ● DC24RQ.NSK
	Standard Plus	R32) Wi-Fi	n to	PM05SP.NSJ	PM07SP.NSJ	O ● PC09SQ.NSJ	O ● PC12SQ.NSJ	PM15SP.NSJ	O● PC18SQ.NSK	O ● PC24SQ.NSK
	Standard	(R32)	- <u>-</u>			O S09EQ.NSJ	O S12EQ.NSJ		O S18EQ.NSK	O S24EQ.NSK

## **OUTDOOR UNIT**

		KBTU	9	12	14	16	18	21	24	27	30
M	ODEL	KW	2.6	3.5	4.1	4.7	5.3	6.2	7.0	7.9	8.8
	Prestige	RATIOA) III	O H09AP.U24	O H12AP.U24							
	ARTCOOL Gallery	(R32)	O A09FR.UL2	O A12FR.UL2							
	ARTCOOL Mirror	(R32)	O AC09BQ.UA3	O AC12BQ.UA3			O AC18BQ.UL2		O AC24BQ.U24		
lle	ARTCOOL Silver	(R32)	O AC09BQ.UA3	O AC12BQ.UA3			O AC18BQ.UL2				
	Deluxe	(R32)	O DC09RQ.UL2	O DC12RQ.UL2			O DC18RQ.UL2		O DC24RQU24		
	Standard Plus	R32)	O PC09SQ.UA3	O PC12SQ.UA3			O PC18SQ.UL2		O PC24SQ.U24		
	Standard	R32)	O S09EQ.UA3	O S12EQ.UA3			O S18EQ.UL2		O S24EQ.U24		

# **WALL MOUNTED**

Prestige I Artcool I Deluxe I Standard Plus I Standard



# PRESTIGE DUAL Inverter



LG Prestige offers one of the most comprehensive air conditioning solutions with supreme energy efficiency and providing a tranquil environment.

# ARTCOOL Gallery DUAL Inverter



The design of LG air conditioners is fashionably elegant in such a way that it reigns supreme compared to others. Customise your space.

# ARTCOOL DUAL Inverter

# **DELUXE**DUAL Inverter



In addition to modern lines and classic style, LG ARTCOOL offers the most outstanding air conditioning solution in a complete and attractive package.



LG retains it's leading position in supplying RACs, incorporating the essential and fundamental elements of air conditioner solutions.

# STANDARD PLUS DUAL Inverter

# **STANDARD**DUAL Inverter



New Standard Plus is a compact size unit with powerful cooling performance and in intelligible and convenient design.



Standard model displays all the sophisticated features of general RAC integrated with LG's more advanced technology.

## **FEATURE OVERVIEW**

INVERTER			CORE	TECH	SM/	ART	ENERGY E	FFICIENCY
COMPRESSOR  VEAR  WARRANTY		Energy Efficiency Cooling Heating	Dual Inverter Compressor	R32 Refrigerant	Embedded Wi-Fi	Smart Diagnosis	Active Energy Control	Energy Display
Prestige	(A)	9k 12k  A+++  A+++	•		•	•	•	•
ARTCOOL Gallery		9k 12k	•	•	• ³ (Ready)			
ARTCOOL	7, 9, 12, 18, 24 kBtu  NEW  9, 12, 18 kBtu	9k   12k   18k   24k   A++	•	•	•	•	•	•
Deluxe	<b>©</b> 00 00 00 00 00 00 00 00 00 00 00 00 00	9k   12k   18k   24k	•	•	•	•	•	•
Standard Plus	© 6. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	9k   12k   18k   24k   A++	•	•	•	•	•	•
Standard	<b>⊠</b>	9k   12k   18k   24k	•	•		•	•	•

DURABILITY		HEALTH		FAST C	OOLING & H	EATING		COM	FORT	
old Fin™	Plasmaster lonizer***	Dual Protection Filter	Auto Cleaning	Jet Cool	4 Way Swing	Fast Heating	Comfort Air	Low Noise 19dB	Silent Mode 3dB	Quick & Easy Installation
•	•	•	•	•	•	•	•	•	•	•
•			•	•	• 3 way	•		•	•	•
•	•		•	•	•	•	•	9,12k Only	•	•
•	•		•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	9,12k Only	•	•
•	•		•	•	•	•	•	•	•	•
•			•	•	•	•	•	9,12k Only	•	•
•			•	•	•	•	•	•	•	•
•			•	•	18, 24K Only	•	•	9,12k Only	•	•

<sup>1.</sup> 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 40kBtu, Cooling A+, Heating A
3. Wi-Fi Ready: can be connected by using Wi-Fi controller (PWFMDD200)
4. Please refer to the specifications of Multi outdoor units.

## **CORE TECH**





## **Dual Inverter Compressor**

#### What is the Dual Inverter Compressor?

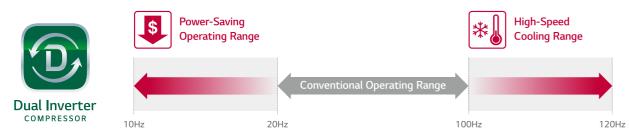
A compressor is the heart of an air conditioner, and monitoring whether it works properly, effectively, or noisily that can cause stress as well as cost more money. LG's Dual Inverter Compressor provides an effective solution, resulting in an air conditioner that cools faster, lasts longer, and operates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



#### 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.



#### 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.



## **R32 Refrigerant**

#### 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-friendly refrigerants. In order to reduce environmental destruction, refrigerant R32 is internationally acclaimed for being Eco-friendly. It has the unprecedented feature as a low volume refrigerant that is as efficient as any conventional refrigerant; thus qualifying as a green refrigerant.



#### How it Works

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

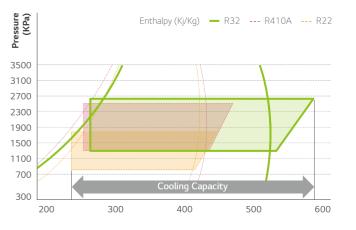
#### Alleviate Global Warming & Ozone Layer Destruction

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

	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.



#### Benefit

Eco-friendly Refrigerants that can prevent environmental pollution.

## **High-Efficiency & High-Performance Refrigerant**Reduce refrigerant charge by 15% R410A Preparation for an

increase in efficiency for both heating and cooling. R410A Preparation for easy install. (R410A blended refrigerant, R32 single refrigerant)

#### WALL MOUNTED KEY FEATURES

## **SMART**



## **Embedded Wi-Fi**

Control your air conditioners by using Android or iOS based smartphones. This advanced technology provides you many benefits.

#### • LG Smart ThinQ



 $Download\ the\ 'LG\ SmartThinQ'\ app\ from\ the\ Google\ Downloads\ or\ the\ Appstore.$ 



LG Smart ThinQ

#### How it Works

#### Embedded Wi-Fi modem

Enable "LG Smart ThinQ" on your air conditioner.

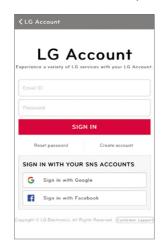


By using the embedded Wi-Fi modem, get ready for innovation without boundaries.



#### Easy Registration and Log-in

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



#### Wi-Fi Connectivity

Each individual member of your family can customise 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



#### Benefit

#### Simple operation for various functions

On/Off, Current Temp



Mode, Set Temp



#### Vane Control



#### Straight forward Management

24°C





# Reservation 16 20 24

### Energy Monitoring



#### Filter Management



#### Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.



#### Access your air conditioner anytime and from anywhere with a Wi-Fi equipped device and LG's exclusive control app, Smart ThinQ.



\* Can be controlled by multiple users, but not simultaneously

#### WALL MOUNTED KEY FEATURES

## **SMART**



## **Smart Diagnosis**

Smart Diagnosis allows you to check setup, installation, troubleshooting and other information conveniently from your smartphone.

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

#### • What is the 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.

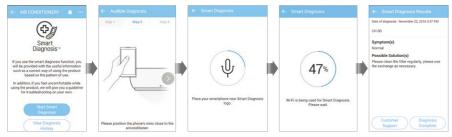
#### How it works

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





\* When the model doesn't provide embedded Wi-Fi, diagnose by buzzer sound with the same app and remote controlle





#### Benefit

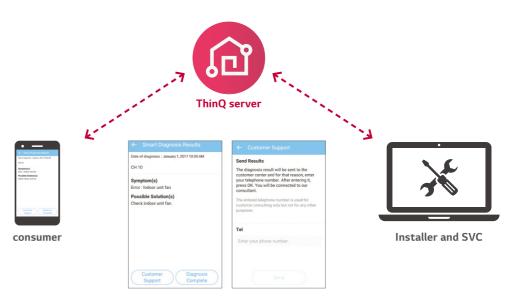
Easily comprehensible error messages make detecting a solution and contacting the service center simple and convenient

#### For consumer



#### For Installer and SVC





- 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.
- 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

## **SMART**



### **SIMs**

By connecting SIMs chip, you can check the status of your air conditioner and diagnoseproblems 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



- 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.

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

#### **Outdoor Unit**

Frequency / Fan RPM DC Link / Input Current Input Voltage EEV operation mode Restart timer Compressor mode / EEV opening



#### Indoor Unit

Indoor Unit Capacity / Operation Mode THM mode / REM mode FAN operating condition / EEV opening Room Temperature / Suction Temperature Intermediate Temperature Exit Temperature



#### 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 a risk of damage.

- \* Specifications may vary for each model
- $\mbox{\ensuremath{^{+}}}\xspace$  When connected to Multi ODU, Low Refrigerant Detection function may not be supported.

#### How It Works

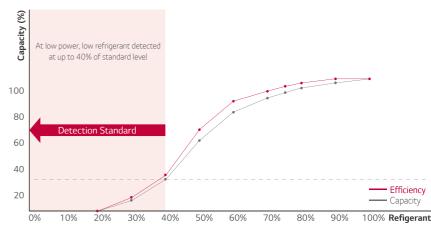
#### Early Detection of Low Refrigerant Levels The Air Conditioner is automatically shut down when low refrigerant level is detected.

#### 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

#### 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



Notify You of Low Refrigerant Levels

When Low Refrigerant Level is detected, it alternately shows CH and 36 on the display.



Melting







\* Some models show CH and 38 alternately on the display.

## **ENERGY EFFICIENCY**



## **Supreme Energy Efficiency**

LG's revolutionary Inverter technology boasts powerful yet quiet performance while minimising energy consumption. With world class energy efficiency, bask in the cosiness of the atmosphere surroundings whilst saving energy.

- \* Based on HOGAL Mode
- \* 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 best efficiencies.



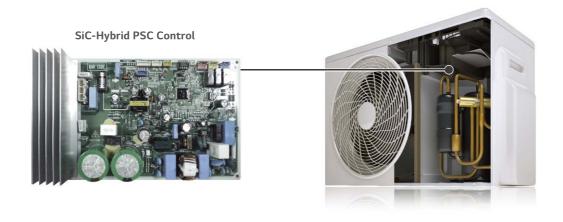
#### Bi-Stable Reversing Valve

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



#### Improved Inverter Drive Efficiency

Used to optimise 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.



# **₽**

## **Active Energy Control 4 - Step**

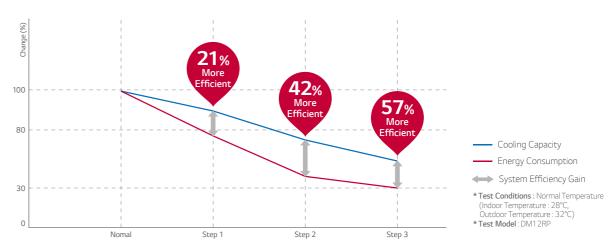
LG's Active Energy Control adjusts the energy consumption level and cooling capacity by controlling maximum frequency of the compressor motor.

- \* Specifications may vary for each model.
- \* Depending on the experimental condition
- \* When connected to Multi ODU, Active Energy Control function may not be supported.

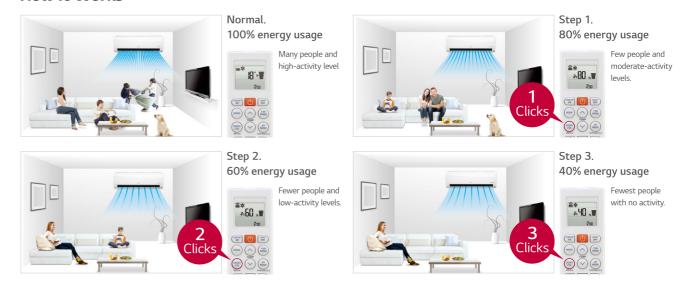
#### Concept & Benefit

Cooling a home can come at a high cost particularly during the hot summer months.

Avoid those costs and save energy by taking advantage of LG's 4-Step Energy Control System.



#### How It Works



## **ENERGY EFFICIENCY**

## **PERFECT HEALTHCARE**

## **Energy Display**

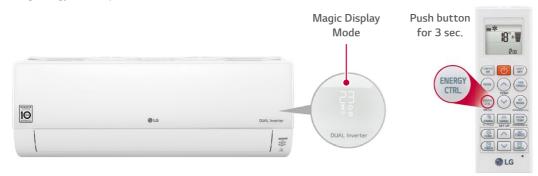
LG's Energy Display panel monitors the amount of energy levels used. Save on energy consumption while enjoying the cooling by checking your energy level on the panel.

- \* 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

## Nomal Mode Current Setting Temp



## **Electric Power**Displays Current Energy Use



#### Additional Benefit

#### Fan Speed

Display	Speed
F5	High
FY	Medium-High
F3	Medium
F2	Medium-Low
Fl	Low

#### Sleep Mode



For example, setting 1hr

# Plasmaster Ionizer

WALL MOUNTED KEY FEATURES

The powerful plasma lonizer protects you from bad odors and harmful and contagious particles in the air with over 3 million ions to sterilize not only the air passing through the air conditioner, but also surrounding surfaces for a safer, and cleaner environment.

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

#### How It Works

#### Sterilization and Deodorization (Utilizes Over 3 Million Ions)

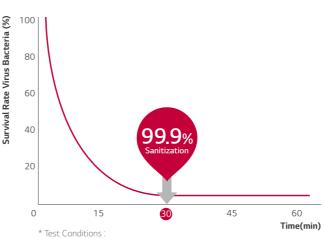
Plasmaster Ionizer+ reduces harmful and contagious microscopic particles by infusing the air passing through the air conditioner with over 3 million ions.



#### • Test Result

#### Sterilization Performance Evaluations

Sterilize Bacteria (E.coli colon bacillus) over 99.9% in 30 min.



## \* Test Conditions : Space : 52m³ Chamber Temperature & Humidity : Normal Bacteria : Staphylococus Aureus

#### 2.1 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 reduce 3.6  $\implies$  1.5 / The Odor floating in the room as well as curtain and clothes.

WALL MOUNTED KEY FEATURES

## **PERFECT HEALTHCARE**



## **Dual Protection Filter**

The Dual Protection Filter collects dust.

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

#### What is the Dual Protection Filter?

The Dual Protection Filter, designed to capture dust particles over 10 µm in size, is the first line of defense and hindrance against finer particles.



#### Additional Benefit

#### Easy to Open

Easily detachable full surface cover helps clean the air conditioner



#### Easy to Clean

The filter is designed for easy handling and quick cleaning, which lengthens its lifespan.





## **Auto Cleaning**

The interior of the air conditioner is maintained clean by drying off the heat exchanger, then sterilizing 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 Airflow

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





By dehumidifying, the auto cleaning function eliminates substances that



The indoor environment remains odorless with the advanced deodorizing



By preventing polluting of the heat exchanger caused by various germs and bacteria, the performance and life span of the air conditioner do not wither away even after a period of 10 years.

#### Benefit

#### **Removes Harmful Particles**

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





Prevention





Elimination



Elimination

035

## **FAST COOLING & HEATING**



## **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.

#### How It Works

#### Bigger Skew Fan

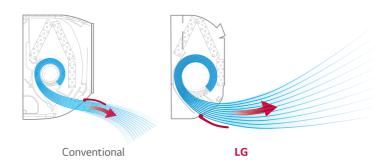
A 25% larger skew fan emanates highly powerful blasts of air.





#### Cooling Outlet

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

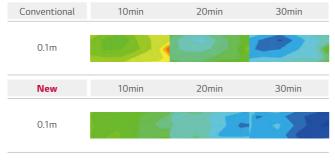


#### • Test Result



\* Test Conditions : : Indoor temperature 33°C, Outdoor temperature 35°C, Relative humidity 60%, Setting temperature 24°C

#### Changes in Temperature Over 30 Minutes



\* Test Conditions : Outdoor temperature : 35°C, Indoor temperature : 33°C, Humidity : 60%, Remote control : 24°C High

## **Jet Cool**

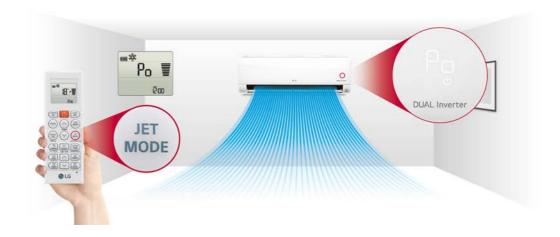
LG air conditioners provide optimized high-speed airflow, which can cool rooms faster while delivering cool air evenly in every direction.

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

#### · How It Works

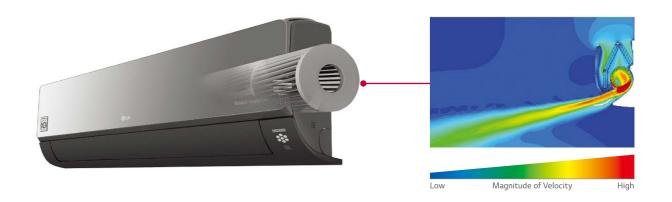
#### One Click "Jet Mode"

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 COOLING & HEATING**



## 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.



\* Angle can be different from each model and working mode.

#### 5-Step Louver, Control up to 55°

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



## **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.



#### Vertical Airflow

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



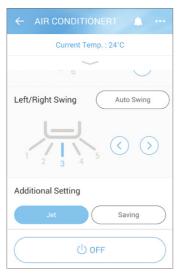
#### • Easy and Simple Control

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

#### **Up/Down Swing**

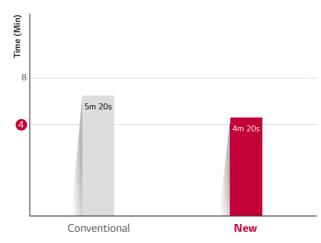


#### Left/Right Swing



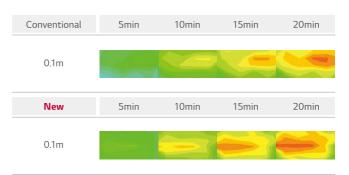
#### • Benefit & Test Result

#### 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

## **EXTREME DURABILITY**



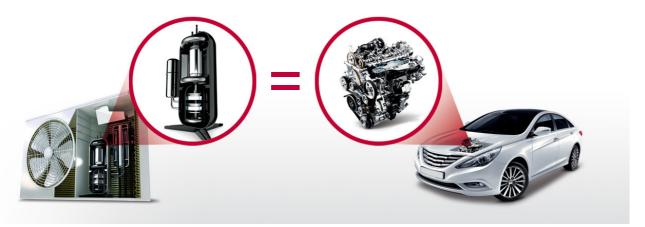
## **10-Year Inverter Compressor Warranty**

LG, with confidence in product quality, preserves is better lives for customers by providing 10 years warranty for Inverter Compressor of Air

\* Specifications may vary for each model.

#### What is the 10 Year Warranty?

The compressors is for the Air Conditioner what the engine is to the vehicle. With the 10 year warranty on the compressor, users can avail of the benefits of LG air conditioner for a longer period on 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

- \* 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





## Gold Fin™

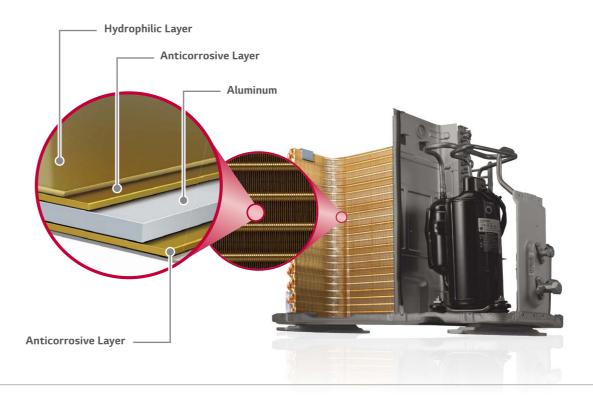
The Gold Fin™ coating protects the surface of the heat exchanger from unnecessary wear and corrosion.

- \* Specifications may vary for each model.

#### How It Works

#### Crosscut View of Heat Exchanger

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



#### Test Result

#### Conventional Fin



 $\ensuremath{^{\star}}$  Test result 360 hrs. after being exposed to sodium chloride

#### Gold Fin™



#### WALL MOUNTED KEY FEATURES

## **COMFORT**



## **Comfort 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

If the air conditioner remains ON while asleep, it can lower body temperature or cause discomfort, especially if the outflow of cool air is directly close to the room's occupants. This can be eliminated by the Comfort Air vane angle thus providing a comfortable environment to the sleeping occupants.

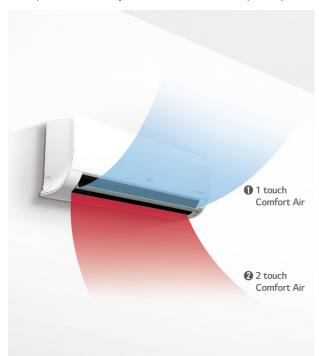
#### How It Works

#### **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







#### 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



## **Low Noise**

LG Air Conditioners operate at 19dB low noise level, moreover provide healthy soft air by just 1 touch.

\* 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 peak noise are reduced to a level that is among the lowest in the world.







Tilted

Advanced Motor

**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.





- Low Efficiency.
- Heat Problem during overhauling. - Difficult precise speed control



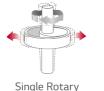


**BLDC Motor** 

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

#### **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.

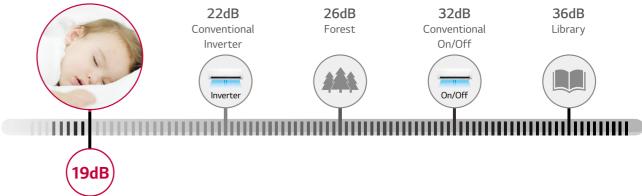


Inverter



043

Benefit



## **COMFORT**



## **Silent Mode**

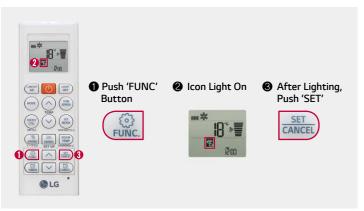
Silent mode ensures a tranquil and serene experience for the user by reducing noise disturbances while you are resting.

- \* Specifications may vary for each model.
- \* Depending on the experimental condition
- \* 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.

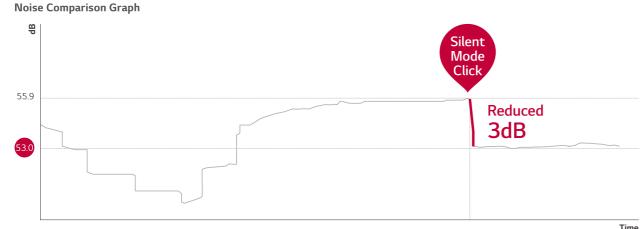
#### Press the Silent Button



#### Controls the Outdoor Compressor



#### Test Result



\* Test Condition

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.

## **Quick & Easy Installation**

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

\* Specifications may vary for each model.

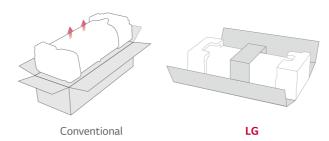
#### Concept

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

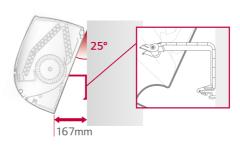
#### · How It Works

#### One Simple Packing Box

Installation Support Clip

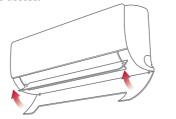


A support clip creates adequate space between the wall and the unit for easier installation.



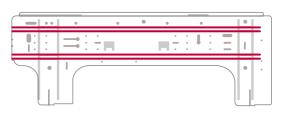
#### **Detachable Bottom Cover**

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



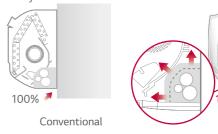
#### **Installation Plate Improvement**

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



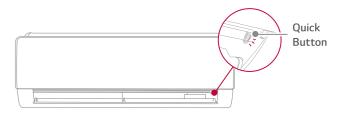
#### Wider Tubing Space

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



#### Quick button for running test

The test button is conveniently located and easy to find.



LG



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





Energy Control









## • Single Combination

	UNIT			9K	IZK
	INDOOR			H09AP.NSM	H12AP.NSM
	Cooling	Min/Rated/Max	W	300 / 2500 / 4000	300 / 3500 / 4250
Capacity	Heating			300 / 3200 / 6900	300 / 4000 / 7320
	Heating -7°C			4300	4700
Danier Innist	Cooling			490	833
Power Input	Heating +7°C	Rated		593	785
EER				5.10	4.20
S.E.E.R.				9.4	9.1
P design C				2.5	3.5
COP				5.4	5.1
S.C.O.P.				5.2	5.1
P design H				3.2	3.8
Energy Label	Cooling (A+++ to	D Scale)		A+++	A+++
Ellergy Label	Heating (A+++ to	D Scale)		A+++	A+++
Annual Energy				94	135
Consumption				862	1045
Carral Danasana	Cooling			19 / 29 / 37 / 42	19 / 29 / 37 / 42
Sound Pressure	Heating			29 / 37 / 42	29 / 37 / 42
Sound Power	Cooling			60	60
		S/L/M/H		6.6/8.7/11.1/12.4	6.6/8.7/11.1/12.4
Air Flow Rate	Cooling	Max (Power)		15.5	15.5
				8.7/11.1/14/3	8.7/11.1/14/3
Dehumidification Rate				1.5	1.7
	Cooling			2.5/6.0	3.9/6.0
Running Current	Heating	Rated/Max		2.9/3.7	7.4/7.4
C	Cooling			2.5	3.9
Starting Current	Heating			2.9	3.7
Power Supply			Ø / V /Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker				15	15
Power Supply Cable			N x mm²	3 x 1.0	3 x 1.0
Power & Transmission				A - 10 (lask dia - Fauth)	A - 10 (lasted as Footh)
Cable			N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension				875 x 295 x 235	875 x 295 x 235
Net Weight				11.0	11.0
Fan Motor Output			Ŵ	30	30
	OUTDOO	R		H09AP.U24	H12AP.U24
	Cooling	Min / Max	°CDB	-10 / 48	-10 / 48
Operation Range	Heating	Min / Max	°CDB	-25 / 24	-25 / 24
	Cooling	High	dBA	48	48
Sound Pressure	Heating	Hiah	dBA	50	50
Sound Power	Cooling	High	dBA	65	65
Air Flow Rate	Cooming	High	m³/min	49	49
	Length (Odu/Idu)	Min / Max	m	3/20	3 / 20
Piping	Elevation (Odu/Idu)	Max	m	10	10
	Liquid	OD(Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)
Piping Connection	Gas	OD(Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)
ir iping connection	Drain	OD(Outside)	mm (inch)	21.5 (0.85)	21.5 (0.85)
	Type	- ob(oddidc)	Hill (inell)	R410A	R410A
				1,150	1.150
Refrigerant	Charge at 7.5m		_g t-CO₂ eq	2.40	2.40
nenigerane	Additional charge		g/m	20	20
	GWP		9/111	2087.5	2087.5
Fan Motor Output	Additional charge		g/m	85	85
Compressor Type	GWP		9/111	Twin Rotary	Twin Rotary
Net Weight				43	43





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Cleaning







### • Single Combination

	UNIT			9K	12K
	INDOOR			A09FR.NSF	A12FR.NSF
	Cooling	Min/Rated/Max	W	1300 / 2500 / 3500	1300 / 3500 / 4000
Capacity	Capacity	Heating +7°C		1300 / 3000 / 4000	1300 / 3500 / 4500
, ,	Capacity	Heating -7°C	W	3000	3200
D	Cooling	Rated	W	700	1090
Power Input	Power Input	Heating +7°C	W	930	1090
EER			W/W	3.57	3.21
S.E.E.R.				5.3	5.3
P design C			kW	2.5	3.5
COP			W/W	3.22	3.21
S.C.O.P.				3.8	3.8
P design H				2.5	2.5
<u> </u>	Cooling			A	A
Energy Label	Energy Label		Heating	A	A
Annual Energy	Cooling			165	231
Consumption	Heating		kWh	921	921
Sound	Cooling		dBA	26 / 28 / 40 / 45	26 / 28 / 40 / 45
Pressure	Heating	L/M/H	dBA	28 / 40 / 46	28 / 40 / 46
Sound Power	Cooling	Н	dBA	60	60
				3.8 / 4.4 / 5.9 / 7.7	3.8 / 4.4 / 5.9 / 7.7
Air Flow Rate	Cooling	Max (Power)	m³/min	9.5	9.5
	Heating		m³/min	4.4 / 5.9 / 7.7	4.4 / 5.9 / 7.7
Dehumidification Rate				1.2	1.4
				3.5	4.5
Dunning Comment	Cooling		Cooling	6.0	6.0
Running Current	Current	Heating		4.0	5.0
	Current		Heating	7.0	7.0
Starting Current	Cooling / Heating	Rated		3.5 / 4.0	4.5 / 5.0
Power Supply				1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker				15	15
Power Supply Cable			N x mm <sup>2</sup>	3 x 1.0	3 x 1.0
Power & Transmission			N x mm <sup>2</sup>	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Cable					
Dimension			mm	600 x 600 x 146	600 x 600 x 146
Net Weight			kg	15.0	15.0
Fan Motor Output			W	16.7	16.7
	OUTDOOL		0655	A09FR.UL2	A12FR.UL2
Operation Range	Cooling	Min / Max	°CDB	-10 / 48	-10 / 48
	Heating	Min/Max	°CDB	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	49	49
CI D	Heating	High	dBA	51	51
Sound Power Air Flow Rate	Cooling	High	dBA	65 35	65 35
Air Flow Rate	Length (Odu/ldu)	High Min / Max	m³/min	37 15	3 / 15
Piping	Elevation (Odu/Idu)	Max	m	10	10
	Liquid	OD(Outside)	m mm (inch)	6.35 (1/4)	6.35 (1/4)
Dining Commenting	Gas	OD(Outside)			9.52 (3/8)
Piping Connection	Drain	OD(Outside)	mm (inch) mm (inch)	9.52 (3/8) 21.5 (0.85)	21.5 (0.85)
		OD(Outside)	IIIIII (IIICII)	R32	R32
	Туре			800	800
Refrigerant	Charge at 7.5m		_g t-CO₂ eq	0.540	0.540
Remgerant	Additional charge		g/m	20	20
	GWP		9/111	675	675
Fan Motor Output			W	43	43
Compressor Type				Twin Rotary	Twin Rotary
Net Weight				34.1	34.1
Dimension			mm	770 x 545 x 288	770 x 545 x 288

<sup>\*</sup> This product contains Fluorinated greenhouse gases (R32).

<sup>\*</sup> This product contains Fluorinated greenhouse gases (R410A).

<sup>\*\*</sup> S : Sleep / L : Low / M : Medium / H : High

<sup>\*\*\*</sup> Specification, design and feature are subject to change without prior notice.

<sup>\*\*</sup> S : Sleep / L : Low / M : Medium / H : High

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

### WALL MOUNTED SPECIFICATION







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













Energy Control









Single Combination

	UNIT			9K	12K	18K	24K
	INDOOR			AC09BQ.NSJ	AC12BQ.NSJ	AC18BQ.NSK	AC24BQ.NSK
	Cooling	Min/Rated/Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900 / 5000 / 5500	900 / 6600 / 7420
Capacity	Heating +7°C	Min/Rated/Max		890 / 3300 / 4100	890 / 4000 / 5100	900 / 5800 / 6400	900 / 7500 / 8640
	Heating -7°C			2600	3000	4200	4850
Power Input	Cooling	Rated	W	656	1080	1562	2164
	Heating +7°C	Rated	W	800	1050	1611	2238
EER			W/W	3.81	3.24	3.20	3.05
S.E.E.R.				7.0	6.6	7.0	6.9
P design C			kW	2.5	3.5	5.0	6.6
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P.				4.0	4.0	4.3	4.2
P design H			kW	2.5	2.5	3.9	5.0
	Cooling (A++ to E	Scale)		A++	A++	A++	A++
Energy Label	Heating (A++ to E			A+	A+	A+	A+
Annual Energy	Cooling		kWh	125	186	250	335
Consumption	Heating		kWh	875	875	1270	1628
	Cooling	S/L/M/H	dBA	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
Sound Pressure	Heating	L/M/H	dBA	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling	H	dBA	59	59	60	65
		S/L/M/H	m³/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0 / 14.5	8.0 / 10.5 / 13.1 / 16.1
Air Flow Rate	Cooling	Max (Power)	m³/min	12.5	12.5	15.5	20.0
	Heating	L/M/H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	10.5 / 13.1 / 16.1
Dehumidification Rate	ricating	L / IVI / II	l/h	1.1	1.3	1.8	2.5
Denamiamenton Nace		Rated	A	3.3	4.7	6.9	9.8
	Cooling	Max	A	6.0	6.0	9.0	14.0
Running Current		Rated	A	4.0	4.7	7.1	10.4
		Max	A	7.0	7.0	9.5	14.0
Starting Current	Cooling / Heating	Rated	A	3.3 / 4.0	4.7 / 4.7	6.9 / 7.1	9.8 / 10.4
Power Supply	cooming / ricacing	raccu	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 <sup>2</sup>	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission				4 x 1.0	4 x 1.0	4 x 1.0	4 x 1.0
Cable				(Including Earth)	(Including Earth)	(Including Earth)	(Including Earth)
Dimension				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	13.6
Fan Motor Output			W	30	30	30	60
Tair Motor Output	OUTD OO		VV				
	OUTDOOL			AC09BQ.UA3	AC12BQ.UA3	AC18BQ.UL2	AC24BQ.U24
Operation Range	Cooling	Min / Max	°CDB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
operation range	Heating	Min/Max	°CDB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	48	48	53	53
	Heating	High	dBA	50	50	55	54
Sound Power	Cooling	High	dBA	65	65	65	70
Air Flow Rate	Cooling	High	m³/min	27	27	35	50
Piping	Length (Odu/Idu)	Min / Max	m	3 / 15	3 / 15	3 / 20	3 / 30
- iping	Elevation (Odu/Idu)	Max	m	7	7	10	15
	Liquid	OD(Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Piping Connection	Gas	OD(Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
	Drain	OD(Outside)	mm (inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
	Туре			R32	R32	R32	R32
	Charge at 7.5m		g	700	700	1000	1100
Refrigerant			g t-CO₂ eq	0.47	0.47	0.68	0.74
	Additional charge		g/m	20	20	20	20
				675	675	675	675
Fan Motor Output				43	43	43	85
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary

717 x 483 x 230

717 x 483 x 230

770 x 545 x 288

870 x 650 x 330

## **ARTCOOL SILVER**

for EUROVENT AC program.

Check ongoing validity of certification: www.eurovent-certification.com

#### NEW









Active Energy Control







Single Combination

	UNIT			9K	12K	18K
	INDOOR			AC09SQ.NSJ	AC12SQ.NSJ	AC18SQ.NSK
	Coolina	Min/Rated/Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900 / 5000 / 5500
Capacity	Heating +7°C	Min / Rated / Max	W	890 / 3300 / 4100	890 / 4000 / 5100	900 / 5800 / 6400
- apacity	Heating -7°C	Rated	W	2600	3000	4200
	Cooling	Rated	W	656	1080	1562
Power Input	Heating +7°C	Rated	W	800	1050	1611
EER	ricating . , c	riacca	W/W	3.81	3.24	3.20
S.E.E.R.				7.0	6.6	7.0
P design C			kW	2.5	3.5	5.0
COP			W/W	4.13	3.81	3.60
S.C.O.P.				4.0	4.0	4.3
P design H			kW	2.5	2.5	3.9
· ·	Cooling (A++ to E	Scale)		A++	A++	A++
Energy Label	Heating (A++ to I			A+	A+	A+
Annual Energy	Cooling		kWh	125	186	250
Consumption	Heating		kWh	875	875	1270
	Cooling	S/L/M/H	dBA	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44
Sound Pressure	Heating	L/M/H	dBA	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44
Sound Power	Cooling	Н	dBA	59	59	60
		S/L/M/H	m³/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0 / 14.5
Air Flow Rate	Cooling	Max (Power)	m³/min	12.5	12.5	15.5
	Heating	L/M/H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0
Dehumidification Rate	caeg		l/h	1.1	1.3	1.8
		Rated	A	3.3	4.7	6.9
	Cooling		A	6.0	6.0	9.0
Running Current		Rated	A	4.0	4.7	7.1
	Heating	Max	А	7.0	7.0	9.5
Starting Current	Cooling / Heating	Rated	А	3.3 / 4.0	4.7 / 4.7	6.9 / 7.1
Power Supply			Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			Α	15	15	20
Power Supply Cable			N x mm <sup>2</sup>	3 x 1.0	3 x 1.0	3 x 1.5
Power & Transmission						
Cable			N x mm <sup>2</sup>	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
Net Weight			kg	8.7	8.7	11.9
Fan Motor Output			W	30	30	30
	OUTDOO	R		AC09BQ.UA3	AC12BQ.UA3	AC18BQ.UL2
	Coolina	Min / Max	°CDB	-10 / 48	-10 / 48	-15 / 48
Operation Range	Heating	Min/Max	°CDB	-10 / 24	-10 / 24	-10 / 24
	Cooling	High	dBA	48	48	53
Sound Pressure	Heating	High	dBA	50	50	55
Sound Power	Cooling	High	dBA	65	65	65
Air Flow Rate	Cooling	High	m³/min	27	27	35
	Length (Odu/Idu)	Min/Max	m	3 / 15	3 / 15	3 / 20
Piping	Elevation (Odu/Idu)	Max	m	7	7	10
	Liquid	OD(Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Piping Connection	Gas	OD(Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Drain	OD(Outside)	mm (inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
	Туре	02(0405,40)		R32	R32	R32
			a	700	700	1000
Refrigerant	Charge at 7.5m		g t-CO₂ eq	0.47	0.47	0.68
	Additional charge		g/m	20	20	20
	GWP		9,	675	675	675
Fan Motor Output			W	43	43	43
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary
Net Weight			kg	25.1	25.1	34.4
Dimension			mm	717 x 483 x 230	717 x 483 x 230	770 x 545 x 288

<sup>\*</sup> This product contains Fluorinated greenhouse gases (R32).

<sup>\*</sup> This product contains Fluorinated greenhouse gases (R32).

<sup>\*\*</sup> S : Sleep / L : Low / M : Medium / H : High

<sup>\*\*\*</sup> Specification, design and feature are subject to change without prior notice.

<sup>\*\*</sup> S : Sleep / L : Low / M : Medium / H : High

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





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4 Way Swing

Energy Control







### Single Combination

	UNIT			9K	12K	18K	24K
	INDOOR			DC09RQ.NSJ	DC12RQ.NSJ	DC18RQ.NSK	DC24RQ.NSK
	Cooling	Min/Rated/Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900 / 5000 / 5500	900 / 6600 / 7420
Capacity	Heating +7°C			890 / 3200 / 5000	890 / 4000 / 6000	900 / 5800 / 6400	900 / 7500 / 8640
	Heating -7°C	Rated	W	3200	3500	4200	4850
	Cooling			572	933	1562	2164
Power Input	Heating +7°C	Rated	W	711	976	1611	2238
EER			W/W	4.37	3.75	3.20	3.05
S.E.E.R.				7.9	7.6	7.0	6.9
P design C				2.5	3.5	5.0	6.6
COP			W/W	4.5	4.1	3.60	3.35
S.C.O.P.				4.6	4.6	4.3	4.2
P design H				2.8	2.9	3.9	5.0
Energy Label	Cooling (A++ to E	Scale)		A++	A++	A++	A++
Ellergy Label	Heating (A++ to E	Scale)		A++	A++	A+	A+
Annual Energy	Cooling			111	161	250	335
Consumption				852	883	1270	1628
Carrad Duaganus	Cooling			19 / 27 / 37 / 42	19 / 27 / 37 / 42	31 / 34 / 39 / 44	31 / 34 / 42 / 47
Sound Pressure	Heating		dBA	27 / 37 / 42	27 / 37 / 42	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling			60	60	60	65
	Cooling			3.5 / 5.5 / 9.0 / 11.0	3.5 / 5.5 / 9.0 / 11.0	8.0 / 10.5 / 13.0 / 14.5	8.0 / 10.5 / 13.1 / 16.1
Air Flow Rate	Cooling	Max (Power)		13.0	13.0	15.5	20.0
	Heating			6.5 / 9.0 / 11.0	6.5 / 9.0 / 11.0	11.0 / 13.5 / 16.0	10.5 / 13.1 / 16.1
Dehumidification Rate				1.1	1.3	1.8	2.5
	Cooling			2.5	4.0	6.9	9.8
Running Current				6.0	6.0	9.0	14.0
indining current	Heating	Rated		3.2	4.3	7.1	10.4
		Max		7.0	7.0	9.5	14.0
Starting Current	Cooling / Heating	Rated		2.5 / 3.2	4.0 / 4.3	6.9 / 7.1	9.8 / 10.4
Power Supply			Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker				15	15	20	25
Power Supply Cable			N x mm <sup>2</sup>	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission			N x mm <sup>2</sup>	4 x 1.0	4 x 1.0	4 x 1.0	4 x 1.0
				(Including Earth)	(Including Earth)	(Including Earth)	(Including Earth)
Cable			ma ma	837 x 308 x 189			
Dimension			mm		837 x 308 x 189	998 x 345 x 210	998 x 345 x 210
Dimension Net Weight				9.1	9.1	11.9	11.9
Dimension			kg W	9.1 30	9.1 30	11.9 30	11.9 60
Dimension Net Weight	OUTDOOF	₹		9.1 30 <b>DC09RQ.UL2</b>	9.1	11.9	11.9
Dimension Net Weight Fan Motor Output	Cooling	Min/Max	kg W °CDB	9.1 30 <b>DC09RQ.UL2</b> -15 / 48	9.1 30 <b>DC12RQ.UL2</b> -15 / 48	11.9 30 <b>DC18RQ.UL2</b> -15 / 48	11.9 60 <b>DC24RQ.U24</b> -15 / 48
Dimension Net Weight	Cooling Heating	Min/Max Min/Max	kg W °CDB °CDB	9.1 30 <b>DC09RQ.UL2</b> -15 / 48 -15 / 24	9.1 30 <b>DC12RQ.UL2</b> -15 / 48 -15 / 24	11.9 30 <b>DC18RQ.UL2</b> -15 / 48 -10 / 24	11.9 60 <b>DC24RQ.U24</b> -15 / 48 -10 / 24
Dimension Net Weight Fan Motor Output Operation Range	Cooling Heating Cooling	Min / Max Min / Max High	kg W °CDB °CDB dBA	9.1 30 <b>DC09RQ.UL2</b> -15 / 48 -15 / 24 49	9.1 30 <b>DC12RQ.UL2</b> -15 / 48 -15 / 24 49	11.9 30 <b>DC18RQ.UL2</b> -15 / 48 -10 / 24 53	11.9 60 <b>DC24RQ.U24</b> -15 / 48 -10 / 24 53
Dimension Net Weight Fan Motor Output Operation Range Sound Pressure	Cooling Heating Cooling Heating	Min/Max Min/Max High High	kg W °CDB °CDB dBA dBA	9.1 30 <b>DC09RQ.UL2</b> -15 / 48 -15 / 24 49 51	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power	Cooling Heating Cooling Heating Cooling	Min/Max Min/Max High High High	°CDB °CDB dBA dBA dBA	9.1 30 <b>DC09RQ.UL2</b> -15 / 48 -15 / 24 49 51 65	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70
Dimension Net Weight Fan Motor Output Operation Range Sound Pressure	Cooling Heating Cooling Heating Cooling Cooling	Min/Max Min/Max High High High High	kg W °CDB °CDB dBA dBA	9.1 30 DC09RQ,UL2 -15 / 48 -15 / 24 49 51 65 35	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu)	Min/Max Min/Max High High High High Min/Max	°CDB °CDB dBA dBA dBA	9.1 30 DCO9RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu)	Min/Max Min/Max High High High Min/Max Max	kg W °CDB °CDB dBA dBA dBA m³/min m	9.1 30 DC09RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/ldu) Elevation (Odu/ldu) Liquid	Min/Max Min/Max High High High High Min/Max Max OD(Outside)	kg W °CDB °CDB dBA dBA dBA m³/min m m	9.1 30 DCO9RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4)	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4)	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4)	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4)
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Gas	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W  *CDB *CDB dBA dBA dBA m³/min m mm (inch) mm (inch)	9.1 30 DCO9RQ,UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8)	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8)	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2)	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8)
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/ldu) Elevation (Odu/ldu) Liquid	Min/Max Min/Max High High High High Min/Max Max OD(Outside)	kg W °CDB °CDB dBA dBA dBA m³/min m m	9.1 30 DCO9RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85)	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85)	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85)	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85)
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Gas	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W °CDB °CDB dBA dBA m³/min m m mm (inch) mm (inch) mm (inch)	9.1 30 DCO9RQ,UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32	9.1 30 DC12RQ,UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85) R32	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85) R32
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping Piping Connection	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Liquid Gas Drain Type	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W °CDB °CDB dBA dBA m³/min m m mm (inch) mm (inch) mm (inch)	9.1 30 DCO9RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85) R32 1000	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85) R32 1100
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping	Cooling Heating Cooling Heating Cooling Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Liquid Gas Drain Type Charge at 7.5m	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W °CDB °CDB dBA dBA dBA m³/min m m (inch) mm (inch) mm (inch)	9.1 30 DCO9RQ,UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85) R32 1000 0.68	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85) R32 1100 0.74
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping Piping Connection	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Liquid Gas Drain Type Charge at 7.5m Additional charge	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W °CDB °CDB dBA dBA m³/min m m mm (inch) mm (inch) mm (inch)	9.1 30 DCO9RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85) R32 1000 0.68 20	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85) R32 1100 0.74 20
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping  Piping Connection  Refrigerant	Cooling Heating Cooling Heating Cooling Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Liquid Gas Drain Type Charge at 7.5m	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W °CDB °CDB dBA dBA m³/min m mm (inch) mm (inch) mm (inch) g t-CO <sub>2</sub> eq g/m	9.1 30 DCO9RQ,UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20 675	9.1 30 DC12RQ,UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20 675	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85) R32 1000 0.68 20 675	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85) R32 1100 0.74 20 675
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping Piping Connection  Refrigerant  Fan Motor Output	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Liquid Gas Drain Type Charge at 7.5m Additional charge	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W °CDB °CDB dBA dBA dBA m³/min m m (inch) mm (inch) mm (inch)	9.1 30 DCO9RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20 675 43	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20 675 43	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85) R32 1000 0.68 20 675 43	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85) R32 1100 0.74 20 675 85
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping Piping Connection  Refrigerant  Fan Motor Output Compressor Type	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Liquid Gas Drain Type Charge at 7.5m Additional charge	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W  CDB CDB CDB dBA dBA dBA m³/min m m(inch) mm (inch) mm (inch) wm (inch) W  t-CO₂ eq g/m W	9.1 30 DCO9RQ,UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20 675 43 Twin Rotary	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20 675 43 Twin Rotary	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85) R32 1000 0.68 20 675 43 Twin Rotary	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85) R32 1100 0.74 20 675 85 Twin Rotary
Dimension Net Weight Fan Motor Output  Operation Range Sound Pressure Sound Power Air Flow Rate Piping Piping Connection  Refrigerant  Fan Motor Output	Cooling Heating Cooling Heating Cooling Cooling Length (Odu/Idu) Elevation (Odu/Idu) Liquid Gas Drain Type Charge at 7.5m Additional charge	Min/Max Min/Max High High High High Min/Max Max OD(Outside) OD(Outside)	kg W °CDB °CDB dBA dBA m³/min m mm (inch) mm (inch) mm (inch) g t-CO <sub>2</sub> eq g/m	9.1 30 DCO9RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20 675 43	9.1 30 DC12RQ.UL2 -15 / 48 -15 / 24 49 51 65 35 3 / 20 10 6.35 (1/4) 9.52 (3/8) 21.5 (0.85) R32 800 0.54 20 675 43	11.9 30 DC18RQ.UL2 -15 / 48 -10 / 24 53 55 65 35 3 / 20 10 6.35 (1/4) 12.7 (1/2) 21.5 (0.85) R32 1000 0.68 20 675 43	11.9 60 DC24RQ.U24 -15 / 48 -10 / 24 53 54 70 50 3 / 30 15 6.35 (1/4) 15.88 (5/8) 21.5 (0.85) R32 1100 0.74 20 675 85





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4 Way

















Single Combination

	UNIT			9K	12K	18K	24K
	INDOOR			PC09SQ.NSJ	PC12SQ.NSJ	PC18SQ.NSK	PC24SQ.NSK
	Cooling	Min/Rated/Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900 / 5000 / 5500	900 / 6600 / 7420
Capacity	Heating +7°C	Min/Rated/Max		890 / 3300 / 4100	890 / 4000 / 5100	900 / 5800 / 6400	900 / 7500 / 8640
	Heating -7°C			2600	3000	4200	4850
Power Input	Cooling	Rated		656	1080	1562	2164
	Heating +7°C	Rated		800	1050	1611	2238
EER				3.81	3.24	3.20	3.05
S.E.E.R.				7.0	6.6	7.0	6.9
P design C				2.5	3.5	5.0	6.6
COP				4.13	3.81	3.60	3.35
S.C.O.P.				4.0	4.0	4.3	4.2
P design H			kW	2.5	2.5	3.9	5.0
Energy Label	Cooling (A++ to E			A++	A++	A++	A++
	Heating (A++ to E	Scale)		A+	A+	A+	A+
Annual Energy	Cooling			125	186	250	335
Consumption	Heating			875	875	1270	1628
Sound Pressure	Cooling	S/L/M/H	dBA	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating		dBA	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling	High		59	59	60	65
	Cooling	S/L/M/H	m³/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0 / 14.5	8.0 / 10.5 / 13.1 / 16.1
Air Flow Rate		Max (Power)		12.5	12.5	15.5	20.0
	Heating			5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	10.5 / 13.1 / 16.1
Dehumidification Rate				1.1	1.3	1.8	2.5
	Cooling			3.3	4.7	6.9	9.8
Running Current		Max		6.0	6.0	9.0	14.0
Rulling Current	Heating	Rated		4.0	4.7	7.1	10.4
		Max		7.0	7.0	9.5	14.0
Starting Current	Cooling / Heating	Rated	А	3.3 4.0	4.7 4.7	6.9 7.1	9.8 / 10.4
Power Supply			Ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker				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			N x mm²	4 x 1.0	4 x 1.0	4 x 1.0	4 x 1.0
Cable				(Including Earth)	(Including Earth)	(Including Earth)	(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	11.9
Fan Motor Output			Ŵ	30	30	30	60
	OUTDOOL			PC09SQ.UA3	PC12SQ.UA3	PC18SQ.UL2	PC24SQ.U24
Operation Range	Cooling	Min/Max	°CDB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
Operation Range	Heating	Min/Max	°CDB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling	High	dBA	48	48	53	53
	Heating	High	dBA	50	50	55	54
Sound Power	Cooling	High	dBA	65	65	65	70
Air Flow Rate	Cooling	High	m³/min	27	27	35	50
Piping	Length (Odu/Idu)	Min/Max	m	3 15	3 15	3 20	3 / 30
· ·pg	Elevation (Odu/Idu)	Max	m	7	7	10	15
	Liquid	OD(Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Piping Connection	Gas	OD(Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
	Drain	OD(Outside)	mm (inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
	Туре			R32	R32	R32	R32
D.C.	Charge at 7.5m		g t-CO₂ eq	700	700	1000	1100
Refrigerant				0.47	0.47	0.68	0.74
	Additional charge		g/m	20	20	20	20
Fan Matau O. L. L	GWP		١٨/	675	675	675	675
Fan Motor Output			W	43	43	43	85 Tuin Datas
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Net Weight			kg	25.1	25.1	34.4	46.0
Dimension			mm	717 x 483 x 230	717 x 483 x 230	770 x 545 x 288	870 x 650 x 330

<sup>\*</sup> This product contains Fluorinated greenhouse gases (R32).

<sup>\*</sup> This product contains Fluorinated greenhouse gases (R32).

<sup>\*\*</sup> S : Sleep / L : Low / M : Medium / H : High

<sup>\*\*\*</sup> Specification, design and feature are subject to change without prior notice.

<sup>\*\*</sup> S : Sleep / L : Low / M : Medium / H : High

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

## **STANDARD**

















LG participates in the ECP programme for EUROVENT AC 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
	Cooling	Min /Rated / Max	W	890 / 2500 / 3700	890 / 3500 / 4040	900/5000/5500	900 / 6600 / 7420
Capacity	Heating +7°C	Min / Rated / Max	W	890 / 3300 / 4100	890 / 4000 / 5100	900/5800/6400	900 / 7500 / 8640
<i>)</i>	Heating -7°C	Rated	W	2600	3000	4200	4850
	Cooling	Rated	W	656	1080	1562	2164
Power Input	Heating +7°C	Rated	W	800	1050	1611	2238
EER	ricuting . / C	naccu	W/W	3.81	3.24	3.20	3.05
S.E.E.R.				7.0	6.6	7.0	6.9
P design C			kW	2.5	3.5	5.0	6.6
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P.			V V / V V	4.0	4.0	4.3	4.2
P design H			kW	2.5	2.5	3.9	5.0
P design n	Cooling (A++ to E		KVV	2.3 A++	2.3 A++	3.9 A++	3.0 A++
Energy Label				A++ A+	A++ A+	A++ A+	A++
Assurat Facusari	Heating (A++ to E	Scale)	kWh	125	186	250	335
Annual Energy	Cooling			875		1270	
Consumption	Heating	C / L / NA / LL	kWh		875		1628
Sound Pressure	Cooling	S/L/M/H	dBA	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L/M/H	dBA	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling	High	dBA	59	59	60	65
	Cooling	S/L/M/H	m³/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0 / 14.5	8.0 / 10.5 / 13.1 / 16.1
Air Flow Rate		Max (Power)	m³/min	12.5	12.5	15.5	20.0
	Heating	L/M/H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	10.5 / 13.1 / 16.1
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
	Cooling	Rated		3.3	4.7	6.9	9.8
Running Current		Max		6.0	6.0	9.0	14.0
		Rated		4.0	4.7	7.1	10.4
				7.0	7.0	9.5	14.0
Starting Current	Cooling / Heating			3.3 / 4.0	4.7 / 4.7	6.9 7.1	9.8 / 10.4
Power Supply				1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker				15	15	20	25
Power Supply Cable				3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission			N x mm²	4 x 1.0	4 x 1.0	4 x 1.0	4 x 1.0
Cable			IN X IIIIII	(Including Earth)	(Including Earth)	(Including Earth)	(Including Earth)
Dimension				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	11.9
Fan Motor Output			W	30	30	30	60
	OUTDOOL	₹		S09EQ.UA3	S12EQ.UA3	S18EQ.UL2	S24EQ.U24
Operation Bango	Cooling	Min/Max	°CDB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
Operation Range	Heating	Min / Max	°CDB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling	High		48	48	53	53
Souliu Flessule	Heating	High		50	50	55	54
Sound Power	Cooling	High		65	65	65	70
Air Flow Rate	Cooling			27	27	35	50
Dining	Length (Odu/Idu)			3 / 15	3 / 15	3 / 20	3 / 30
Piping	Elevation (Odu/Idu)			7	7	10	15
	Liquid	OD(Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Piping Connection		OD(Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
	Drain	OD(Outside)	mm (inch)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)	21.5 (0.85)
	Туре			R32	R32	R32	R32
				700	700	1000	1100
Refrigerant	Charge at 7.5m		g t-CO <sub>2</sub> eq	0.47	0.47	0.68	0.74
	Additional charge		g/m	20	20	20	20
	GWP		9,	675	675	675	675
Fan Motor Output			W	43	43	43	85
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Net Weight				25.1	25.1	34.4	46.0
Dimension			mm	717 x 483 x 230	717 x 483 x 230	770 x 545 x 288	870 x 650 x 330
- Dimension				, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,	,,0 / 3-3 / 200	5,0 x 030 x 330

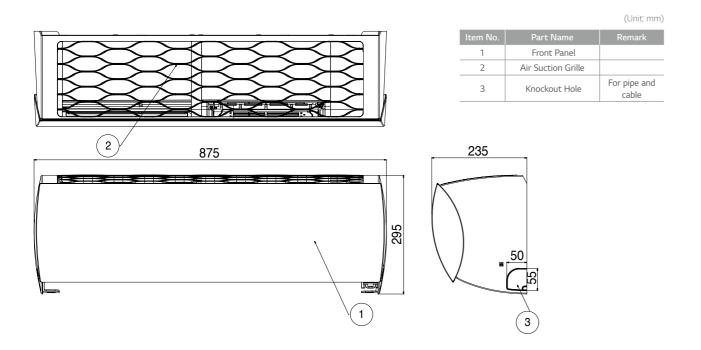
<sup>\*</sup> This product contains Fluorinated greenhouse gases (R32).

\*\* S: Sleep / L: Low / M: Medium / H: High

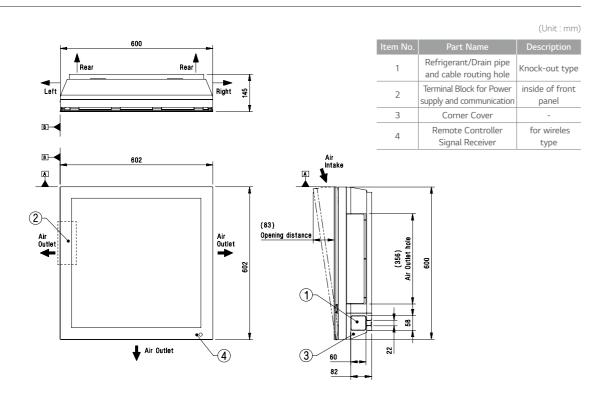
\*\*\* Specification, design and feature are subject to change without prior notice.

## **INDOOR UNIT**

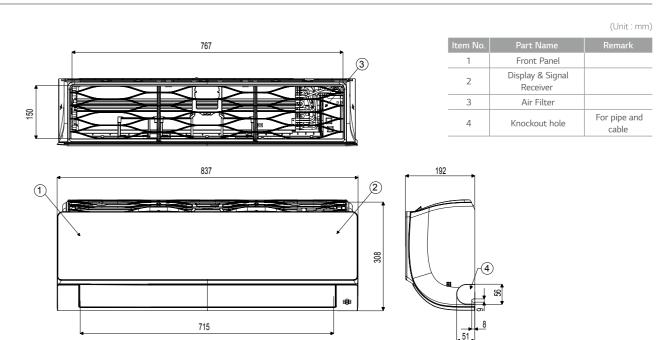
#### H09AP.NSM / H12AP.NSM



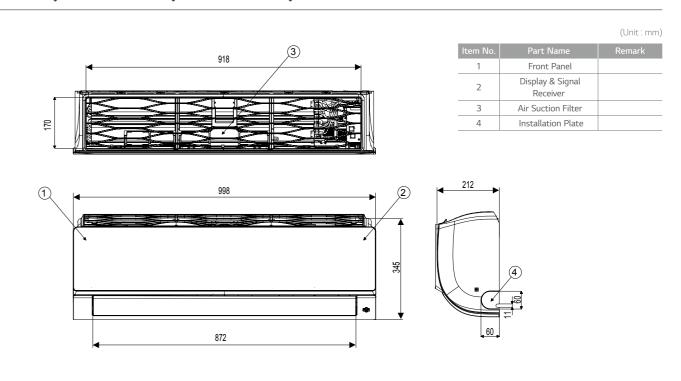
#### A09FR,NSF/A12FR,NSF



#### AC09BQ.NSJ / AC12BQ.NSJ / AC09SQ.NSJ / AC12SQ.NSJ

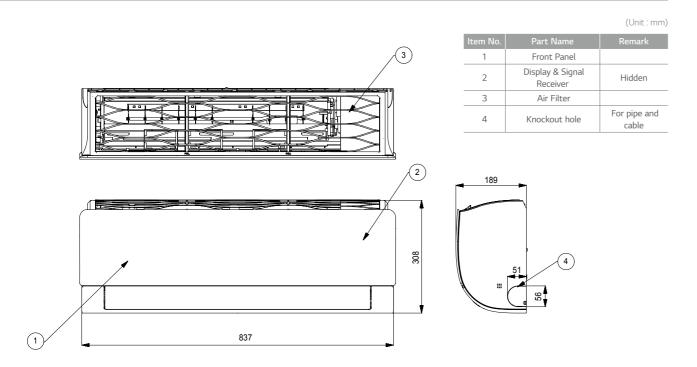


#### AC18BQ.NSK / AC24BQ.NSK / AC18SQ.NSK

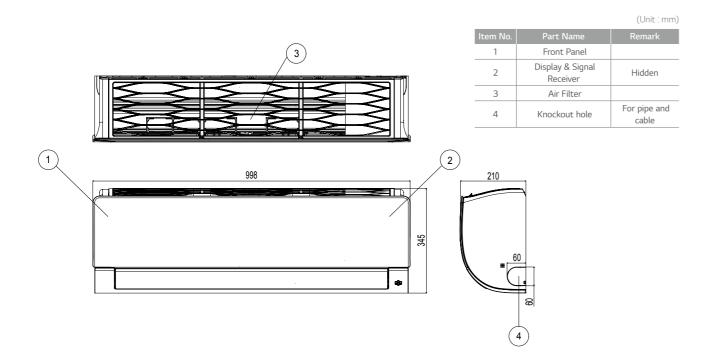


## **INDOOR UNIT**

### DC09RQ.NSJ / PC12SQ.NSJ / PC09SQ.NSJ / PC12SQ.NSJ / S09EQ.NSJ / S12EQ.NSJ



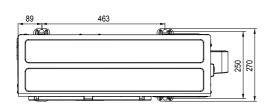
### DC18RQ.NSK / DC24RQ.NSK / PC18SQ.NSK / PC24SQ .NSK / S18EQ.NSK / S24EQ.NSK



# ESIDENTIA

## **INDOOR UNIT**

## AC09BQ.UA3 / AC12BQ.UA3 / AC09SQ.UA3 / AC12SQ.UA3 / DC09RQ.UA3 DC12RQ.UA3 / PC09SQ.UA3 / PC12SQ.UA3 / S09EQ.UA3 / S12EQ.UA3



	(0111011111)	
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	

(Unit: mm)

(Unit: mm)

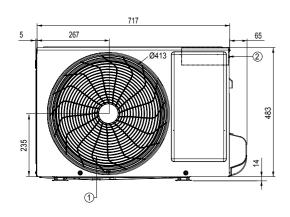
Air Outlet

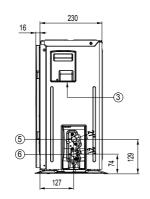
Control Box

Power and Communication Cable Hole

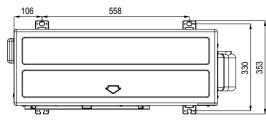
Service Valve Cover

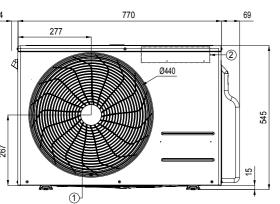
Gas Pipe Connection
Liquid Pipe Connection

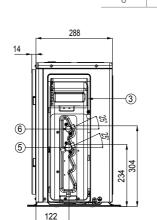




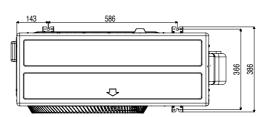
### AC18BQ.UL2 / AC18SQ.UL2 / DC18RQ.UL2 / PC18SQ.UL2 / S18EQ.UL2



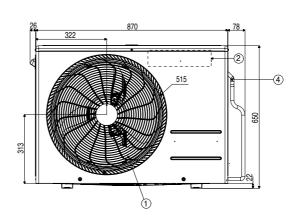


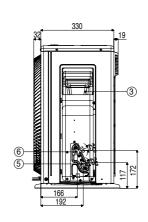


### H09AP.U24 / H12AP.U24 / AC24BQ.UL2 / DC24RQ.UL2 / PC24SQ.UL2 / S24EQ.UL2



	(Offic. Hilli)		
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		





\* This product contains Fluorinated greenhouse gases (R410A).

## **ACCESSORIES**

		PRESTIGE	ARTCOOL GALLERY	ARTCOOL	DELUXE	STANDARD PLUS	STANDARD
	5k					Υ	
	7k			Υ	Υ	Υ	-
Wired	9k	Υ	-	Υ	Υ	Υ	-
Remote	12k	Υ	-	Υ	Υ	Υ	-
Controller	15k					Υ	
	18k			Υ	Υ	Υ	-
	24k			Υ	Υ	Υ	-
	5k					-	
	7k			-	Υ*	-	-
	9k	-	-	-	Υ*	-	-
PI 485	12k	-	-	-	Υ*	-	-
	15k					-	
	18k			-	Υ*	-	-
	24k			-	Υ*	-	-
	5k					Y	
	7k			Υ	Υ	Υ	-
	9k	Υ	Υ	Υ	Υ	Υ	-
Dry Contact	12k	Υ	Υ	Υ	Υ	Υ	-
	15k					Y	
	18k			Υ	Υ	Υ	-
	24k			Υ	Υ	Υ	-

## **Standard Wired Remote Controller**

Standard III



PREMTB100 PREMTBB10

• Standard II

2018		-	
@LG	Ann O	<b>⊕</b> LG	

PREMTB001 PREMTBB01

MODEL NAME	PREMTBB10 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, 0	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	•	•		

## PI 485



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**



PDRYCB000

PDRYCB300







PDRYCB500

\* Refer to each product PDB for applicable models

PDRYCB000 1 Control Point	PDRYCB400	PDRYCB300	PDRYCB500
1 Control Point	2 Cambual Daint		
	2 Control Point	8 Control Point	Modbus RTU
AC 220V from outside power source	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PCB	DC 5V & 12 V from indoor unit PDB
	•	•	
•	•	•	•
•	•	•	
		•	•
	•	•	
	•		
	•	•	•
•	•	•	•
•	•	•	•
	outside power source  • • •	outside power source indoor unit PCB	outside power source indoor unit PCB

## **Remote Controller**



Prestige Artcool New Deluxe New Standard Plus Standard

BUTTON	SCREEN	DESCRIPTION	
Ф	-	To turn On / Off the air conditioner.	
THIP V	88°*	To adjust the desired room temperature in cooling, heating or auto changeover mode.	
COMFORT AIR		To adjust the air flow to deflect wind.	
LIGHT OFF	-	To set the brightness of the display on the indoor unit.	
	*	To select the cooling mode.	
-	<del>\</del>	To select the heating mode.	
MODE	$\Diamond$	To select the dehumidification mode.	
	彤	To select the fan mode.	
	A.	To select the auto changeover / auto operation mode.	
FAN SPEED	Ţ	To adjust the fan speed.	
ENERGY CTRL.		To bring the effect of the power saving.	
JET MODE	Ро	To change room temperature quickly.	
SWING SWING	<b>勠</b> 从	To adjust the air flow direction vertically or horizontally.	
ROOM TEMP	1	To display the room temperature.	
°C ↔ °F[5sec]	<del>ိုင</del> ်	To change unit between °C and °F.	
SET/ CANCEL		To set / cancel the functions and timer:	
V^		To adjust time.	
TIMER	-	To turn on / off air conditioner automatically.	
CANCEL	-	To cancel the timer settings.	

<sup>\*</sup> When connected to Multi 14k & 16k Outdoor units, this may not be supported.

<sup>\*</sup> Refer to each model PDB for applicable models.