



LG Electronics

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LG HVAC SOLUTION AIR CONDITIONERS | FOR SOUTHERN AFRICA REGION

LG Business Solutions

LG HVAC SOLUTION AIR CONDITIONERS

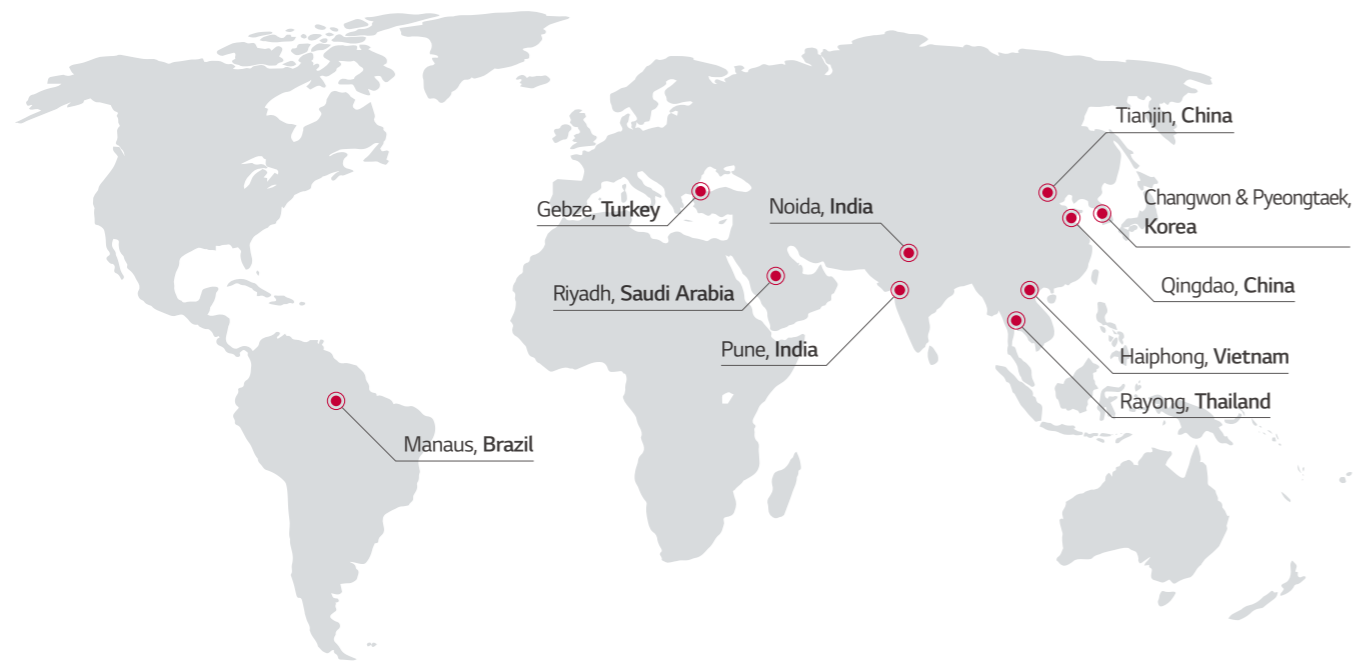
For SOUTHERN AFRICA REGION



LG AIR SOLUTION

AS A TOTAL HVAC & ENERGY SOLUTION PROVIDER

LG Air Solution Production Sites



The LG Electronics Air Solution Business Unit is a provider of total HVAC and energy solution. The company offers a broad portfolio of air conditioner products that are compatible with any building anywhere, including compact residences, towering skyscrapers, massive factories and giant concert halls.

As a true total HVAC and energy solution provider, LG also supplies even the largest buildings and industrial facilities with central air conditioning systems such as chillers and efficient control solutions.

The history of the business unit goes back to 1968, when LG (then called GoldStar) rolled out Korea's first residential air conditioner.

As the company first began making chillers for large commercial buildings in 1970, the commercial air conditioning business has grown exponentially, especially within the last 20 years.

In 2008, LG sold its 100 millionth air conditioning unit,

becoming the first company in the industry to reach that significant milestone.

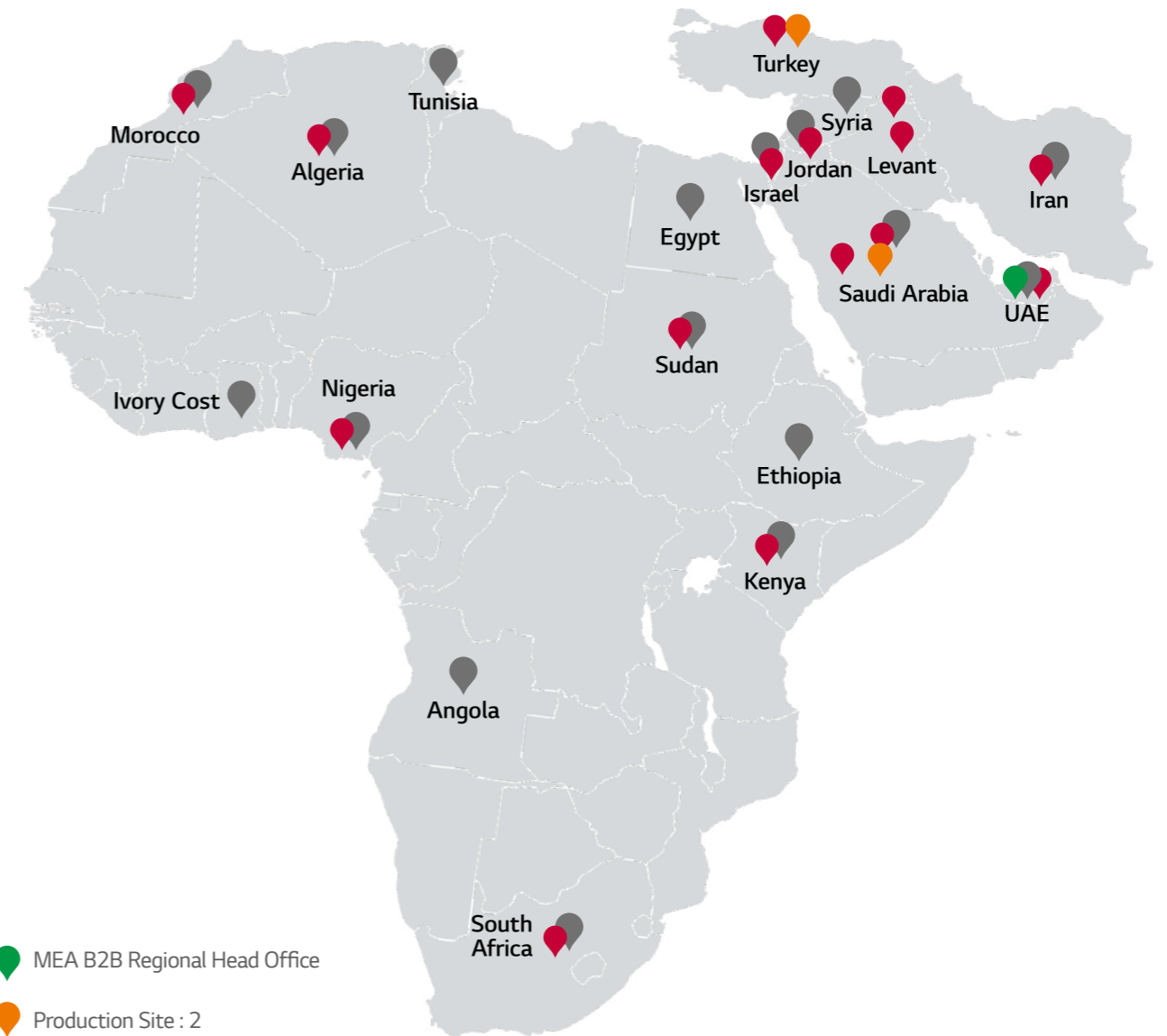
The success of LG air conditioners has allowed the company to become one of the major players in the highly competitive HVAC industry.

By enhancing the industry's B2B infrastructure and finding further solutions for the HVAC sector, LG has risen to become a total HVAC solutions specialist.

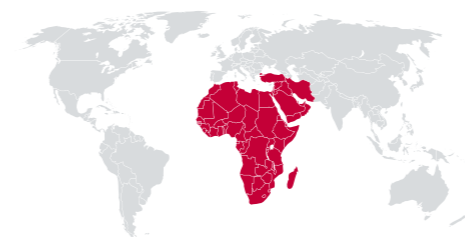
The company has steadily increased its sales and market share by introducing energy efficient and reliable HVAC solutions and actively pursuing new opportunities wherever they arise.

This sustained, excellent performance is built on a solid foundation of global R&D and advanced manufacturing capabilities.

INFRASTRUCTURE IN MIDDLE EAST & AFRICA



- ME A B2B Regional Head Office
- Production Site : 2
- Sales Office : 18
- Academy : 17



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SINGLE SPLIT



Ceiling Mounted Cassette

078



Ceiling Concealed Duct

084



Ceiling Suspended

090



Single Package

094

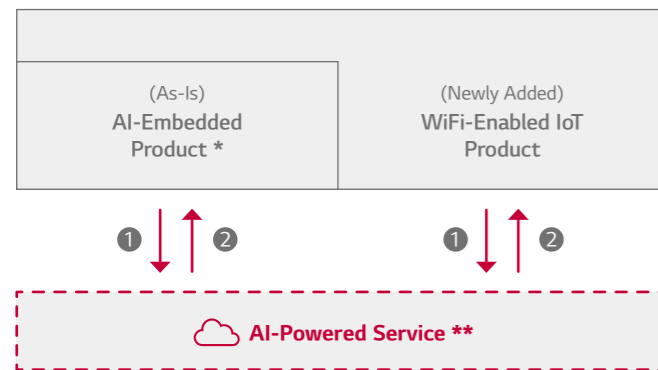
RESIDENTIAL

WALL MOUNTED



Made Better with LG ThinQ™

With most people living lives in more hectic than ever before, we see the enormous potential benefits which new technologies will bring to the home. LG ThinQ links smart products together so that they can work in balance 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)

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

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.






RESIDENTIAL LINE-UP

INDOOR UNITS



















Model	kBTU kW	9	12	18	24	38
		2.6	3.5	5.3	7.0	
ARTCOOL Mirror			●	●	●	
		A13RJH NJ2	A19RKH NK2	A24RKH NK2		
Standard			●	●	●	
		M11AJH NJ2	M13AJH NJ2	M19AKH NK2	M24AKH NK2	
DUALCOOL Standard Commercial			●	●	●	●
		M10EJH NJ0	M13EJH NJ0	M19EKH NK0	M24EKH NK0	M38AKH NR0

OUTDOOR UNITS

Model	kBTU kW	9	12	18	24	38
		2.6	3.5	5.3	7.0	
ARTCOOL Mirror			●	●	●	
		A13RJH UJ2	A19RKH UK2	A24RKH UK2		
Standard			●	●	●	
		M11AJH UJ2	M13AJH UJ2	M19AKH UK2	M24AKH UK2	
DUALCOOL Standard Commercial			●	●	●	●
		M10EJH UJ0	M13EJH UJ0	M19EKH UK0	M24EKH UK0	M38AKH UR0

24K Standard commercial model will be launched 2021 1 half season.

FEATURE OVERVIEW

	ARTCOOL Mirror	DUALCOOL Standard	DUALCOOL Standard Commercial
	12k 18k 24k	9k 12k 18k 24k	9k 12k 18k 24k 38k
Heating	●	●	●
Core Tech			
	●	●	●
	Ready But Google not open at South Africa		Ready But Google not open at South Africa
Smart			
	●		●
	●	●	●
Energy Efficiency			
	●	●	
	●	●	●
Comfort			
	●	●	●
	(12k Only)	(9/12k Only)	(9/12k Only)
Health Care			
	●		
Durability			
	●	●	●
Fast Cooling & Heating			
	●	●	●
	●	●	●
	●		●
	●	●	●
Standard Commercial			
			●
			●
			●

Feature may vary for each model.
Standard Commercial models will be launched 2020 4 Quarter.

UNIQUE FEATURES

Smart

Enjoy anytime, anywhere access to your air conditioner with LG's ThinQ technology.

Energy Efficiency

LG's revolutionary inverter technology provides world-class energy efficiency by minimising energy consumption.

Comfort

LG air conditioners provide a comfortable indoor environment with low noise levels and optimized vane adjustment capability that ensures even air flow.

Fast Cooling & Heating

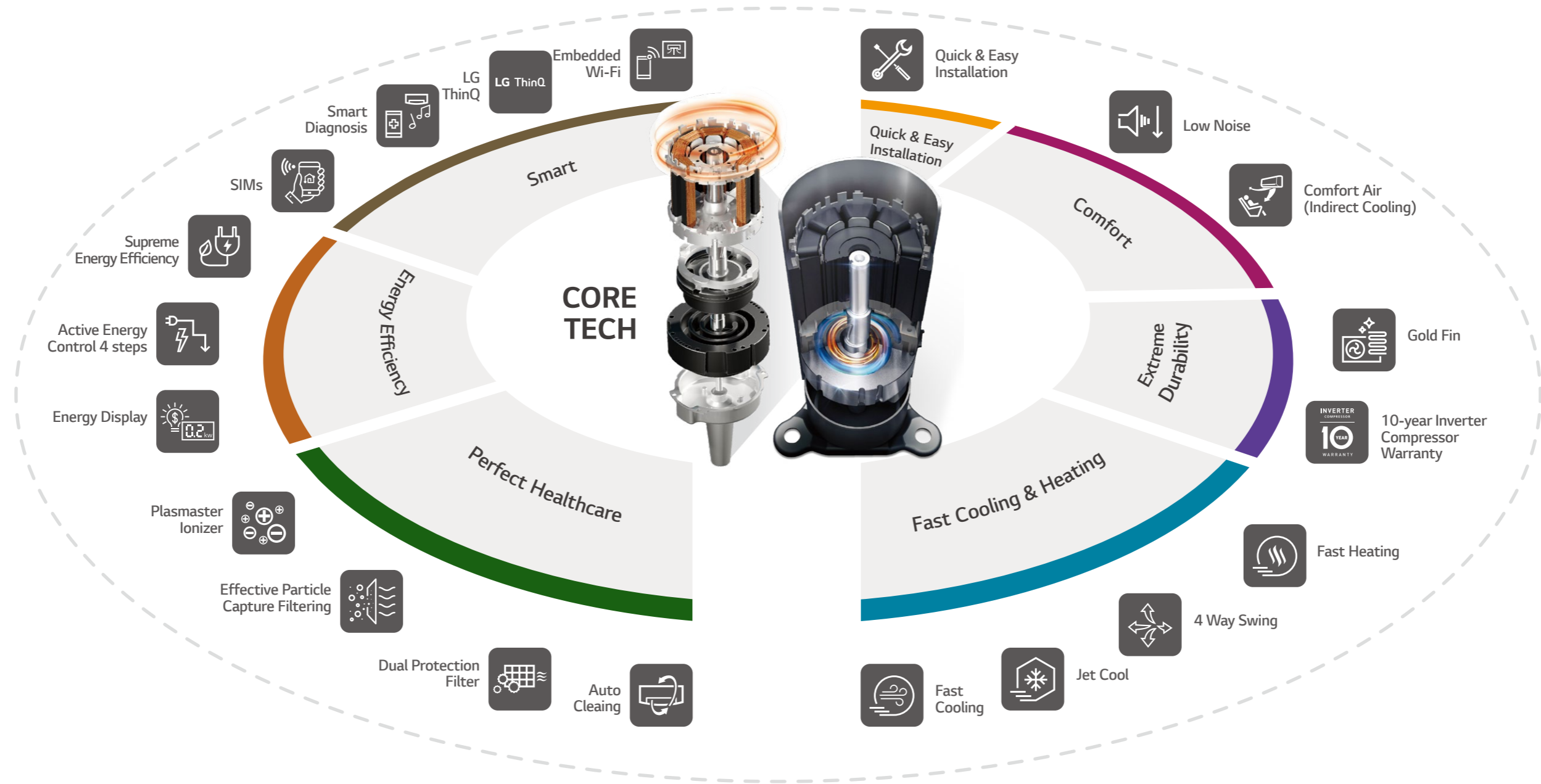
Regardless of the outdoor temperature, LG air conditioners distribute cold or hot air fast, reaching every corner of even your largest rooms with powerful cooling or heating.

Extreme Durability

In any environmental conditions, LG's air conditioners can bring customers peace of mind through product durability.

Quick & Easy Installation

Installation has never been easier as with the delicately designed installation elements of LG air conditioners



WALL MOUNTED

Artcool | Standard





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 Smart ThinQ' app from the Google Downloads or the Appstore.



• How it Works

Embedded Wi-Fi modem

Enable "LG Smart ThinQ" on your air conditioner.

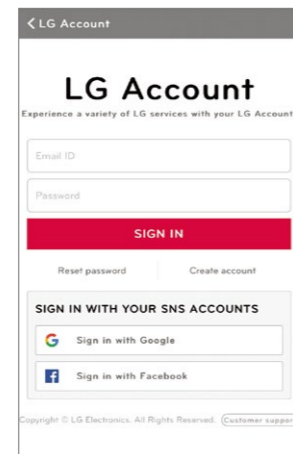


By using the embedded Wi-Fi modem, get ready for innovation without boundaries.



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

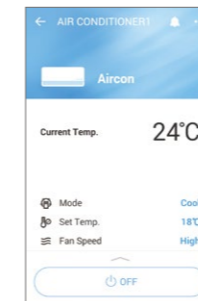


* Can be controlled by multiple users, but not simultaneously

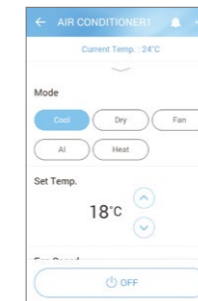
• Benefit

Simple operation for various functions

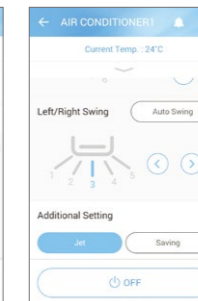
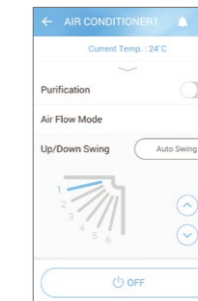
On/Off, Current Temp



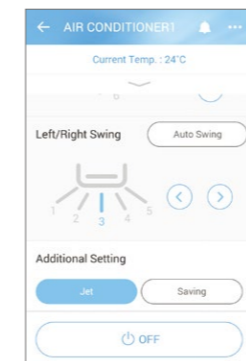
Mode, Set Temp



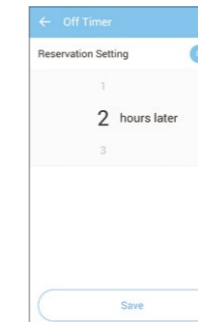
Vane Control



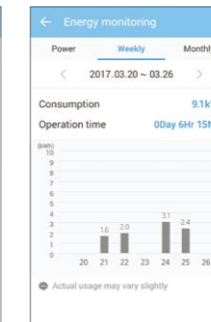
Straight forward Management



Reservation



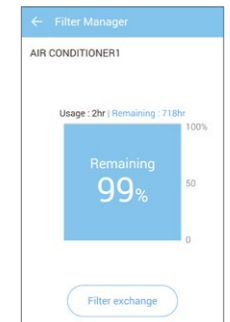
Energy Monitoring



Smart Diagnosis



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.





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.

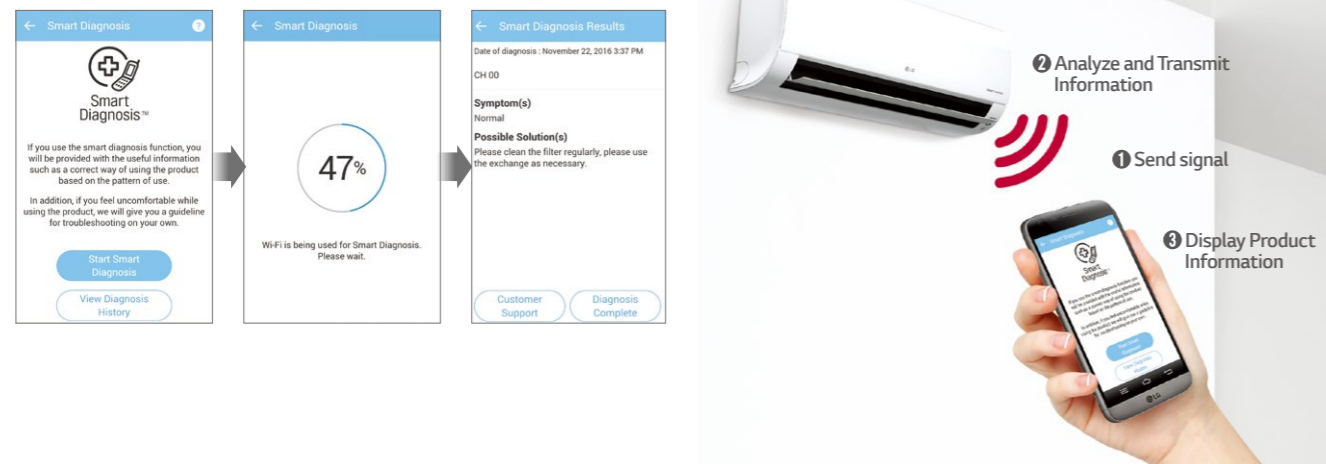
• What is the Smart Diagnosis?

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

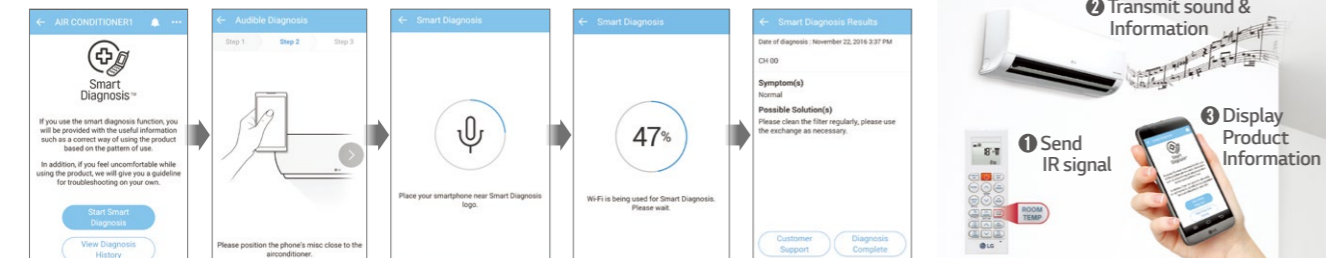
- * Builds upon widespread smartphone use and offers greater USP diversification
- * Perfect for consumers who are unable to view information about their air conditioner via a display or remote control.

• 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 controller.



• 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

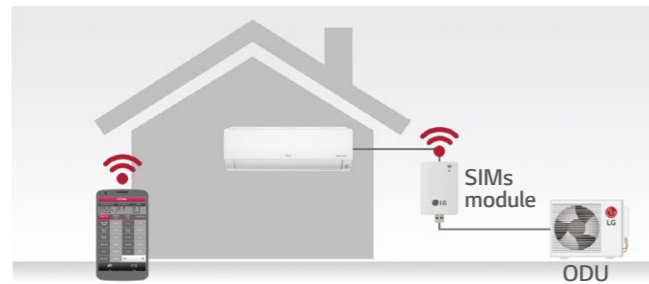


SIMs

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.

<p>Main Current outdoor temperature Indoor temperature Inverter Comp frequency Operating opening Error code / Frequency limits Indoor. Outdoor fan speed</p>	<p>Indoor Unit Indoor Unit Capacity / Operation Mode THM mode / REM mode FAN operating condition / EEV opening Room Temperature / Suction Temperature Intermediate Temperature Exit Temperature</p>
<p>Outdoor Unit Frequency / Fan RPM DC Link / Input Current Input Voltage EEV operation mode Restart timer Compressor mode / EEV opening</p>	<p>Chart Room Temperature Heat exchanger pipe temperature Compressor discharge temperature Frequency / Outdoor temperature Compressor suction temperature Electric current / Voltage</p>

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.
* Depending on the experimental conditions.

• How It Works

Early Detection of Low Refrigerant Levels

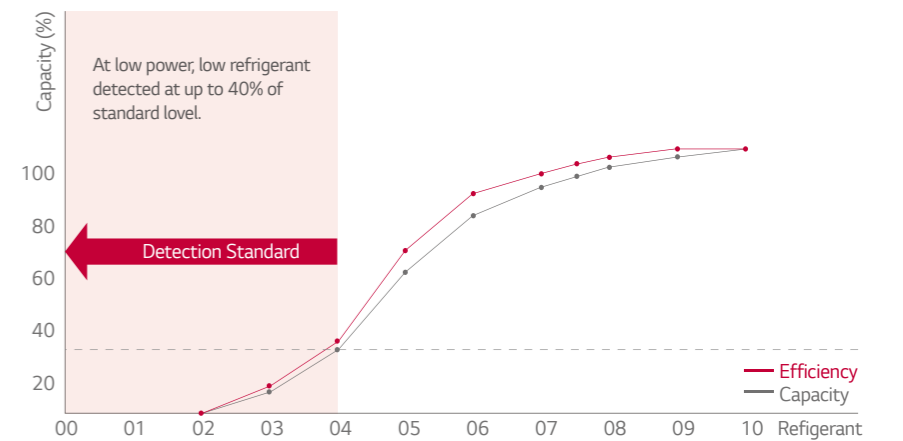
The Air Conditioner is automatically shut down when low refrigerant level is detected.

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.

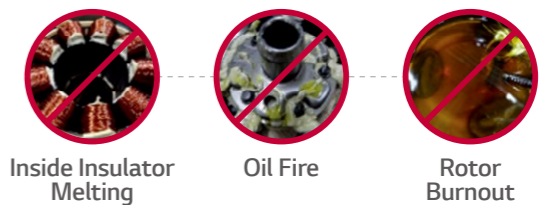
Capacity and Effectiveness of the Refrigerant Levels



* 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



Notify You of Low Refrigerant Levels

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.

ENERGY EFFICIENCY

ENERGY EFFICIENCY

Supreme Energy Efficiency

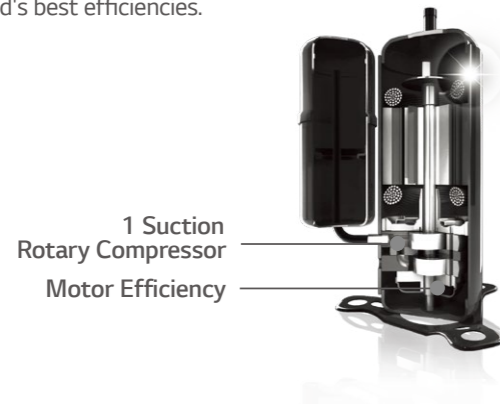
LG's revolutionary Inverter technology boasts powerful yet quiet performance while minimising energy consumption. With world class energy efficiency, bask in the cosiness of the atmosphere surroundings whilst saving energy.

* Based on H09AL Model
* Specifications may vary for each model.

• High Efficient Compressor and Reversing Valve

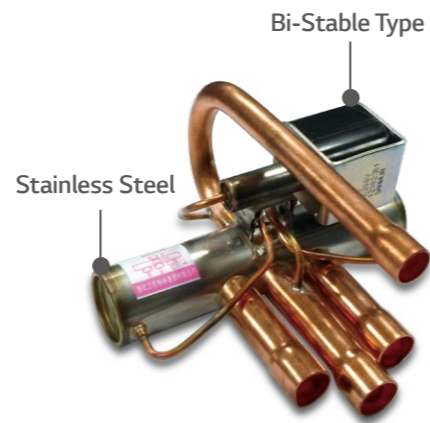
Rotary Compressor and Motor Efficiency

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 best efficiencies.



Bi-Stable Reversing Valve

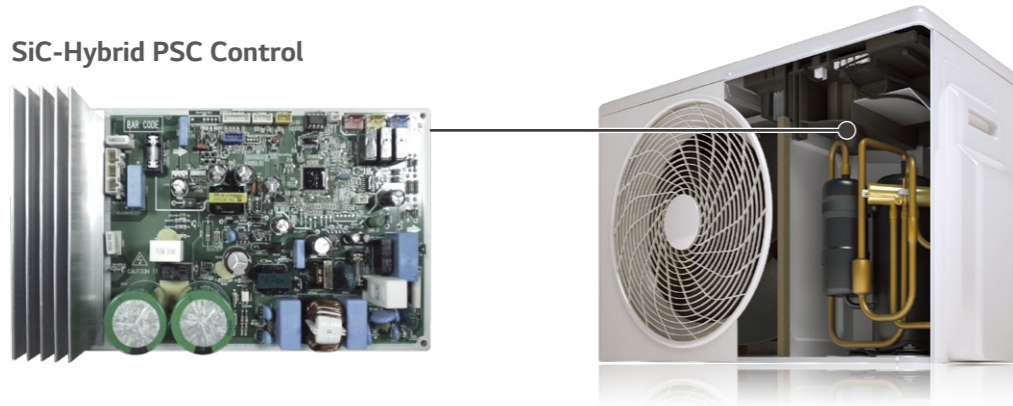
The Input power of 4-way valve has been reduced to 0W by using a Bi-Stable type.



• 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.

SiC-Hybrid PSC Control



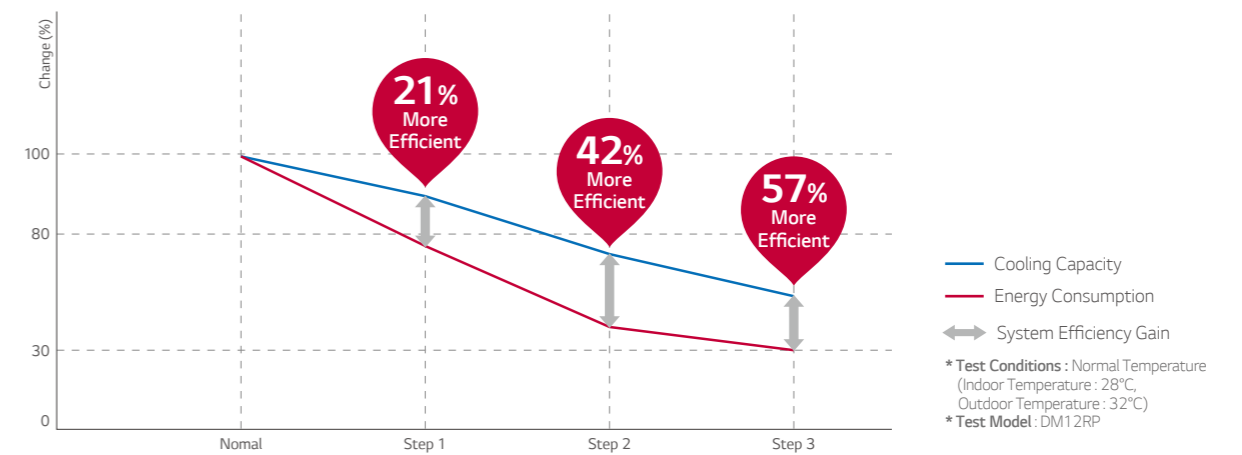
Active Energy Control 4 - Step

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.

• 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

<p>Normal. 100% energy usage</p> <p>Many people and high-activity level</p>	<p>Step 1. 80% energy usage</p> <p>Fewer people and moderate-activity levels.</p> <p>1 Clicks</p>
<p>Step 2. 60% energy usage</p> <p>Fewer people and low-activity levels.</p> <p>2 Clicks</p>	<p>Step 3. 40% energy usage</p> <p>Fewest people with no activity.</p> <p>3 Clicks</p>

ENERGY EFFICIENCY

PERFECT HEALTHCARE

Energy Display

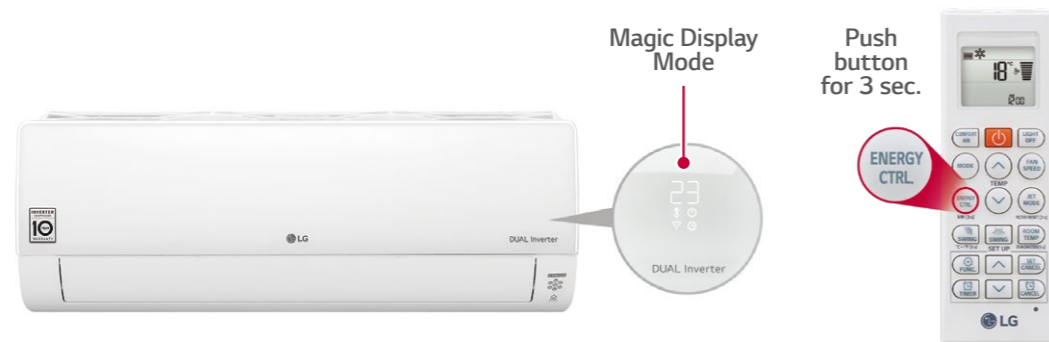
LG's Energy Display panel monitors the amount of energy levels used. Save on energy consumption while enjoying the cooling by checking your energy level on the panel.

* 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
F4	Medium-High
F3	Medium
F2	Medium-Low
F1	Low

Sleep Mode



For example, setting 1hr

Plasmaster™ Ionizer^{PLUS}

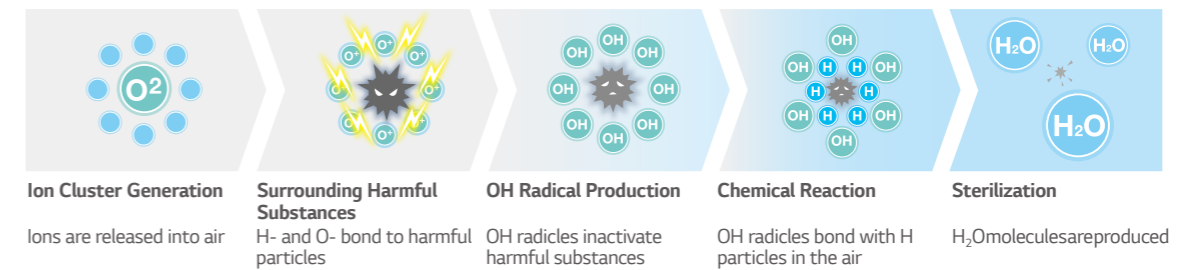
The powerful plasma ionizer protects you from bad odors and harmful and contagious particles in the air with over 3 million ions to sterilize not only the air passing through the air conditioner, but also surrounding surfaces for a safer, and cleaner environment.

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

How It Works

Sterilization and Deodorization (Utilizes Over 3 Million Ions)

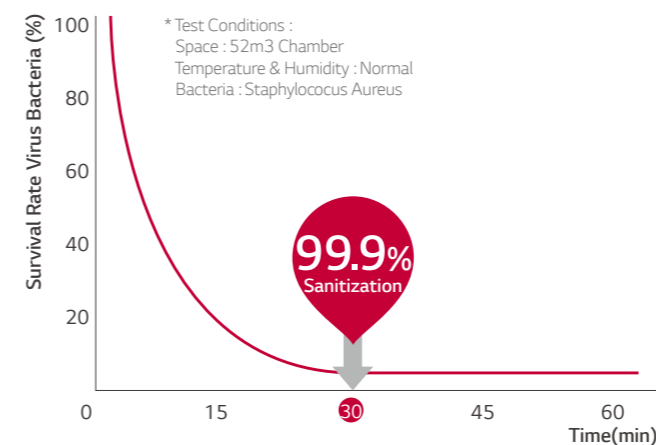
Plasmaster Ionizer+ reduces harmful and contagious microscopic particles by infusing the air passing through the air conditioner with over 3 million ions.



Test Result

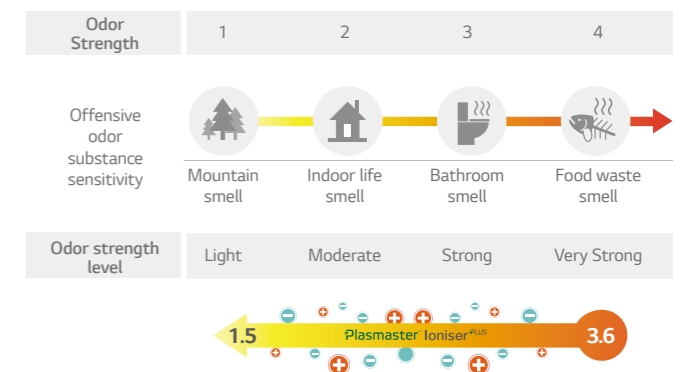
Sterilization Performance Evaluations

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



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 → 1.5 / The Odor floating in the room as well as curtain and clothes.

PERFECT HEALTHCARE

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 10µm 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 flawlessly.



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



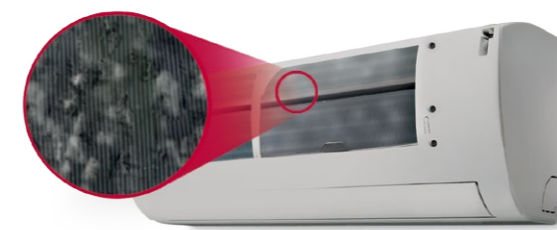
Auto Cleaning

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.

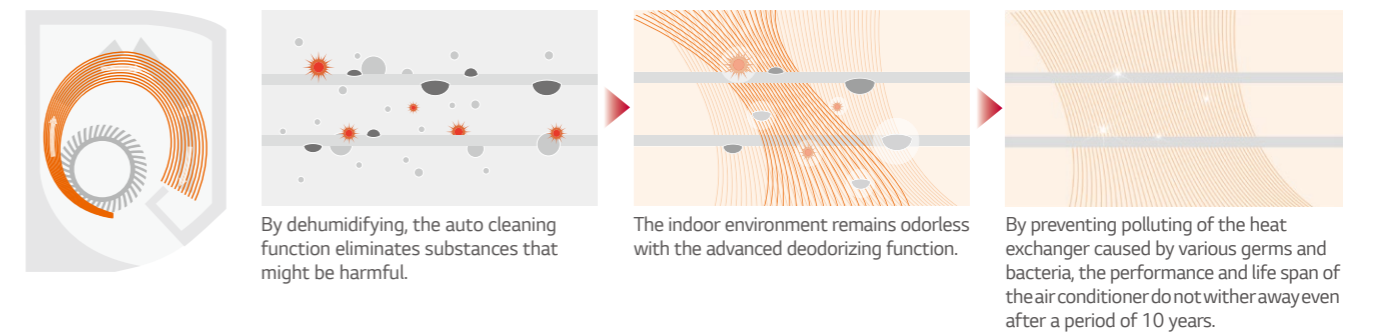
• Pain Point

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.



• Benefit

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



FAST COOLING & HEATING

FAST COOLING & HEATING

Fast Cooling

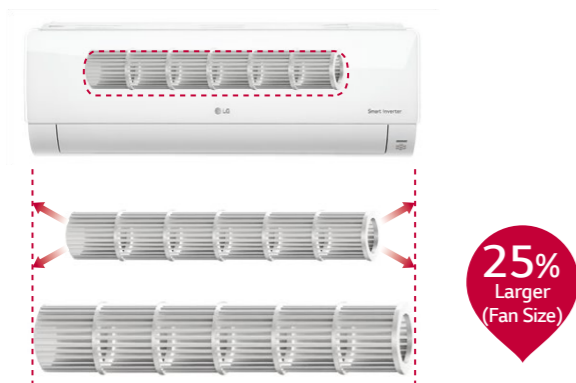
The cool airflow reaches all the corners of the room, keeping the space cool and comfortable.

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

• How It Works

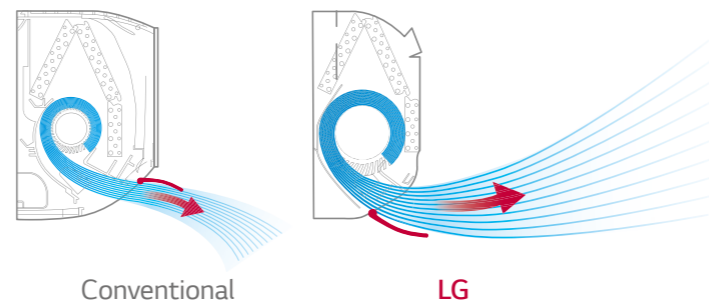
Bigger Skew Fan

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



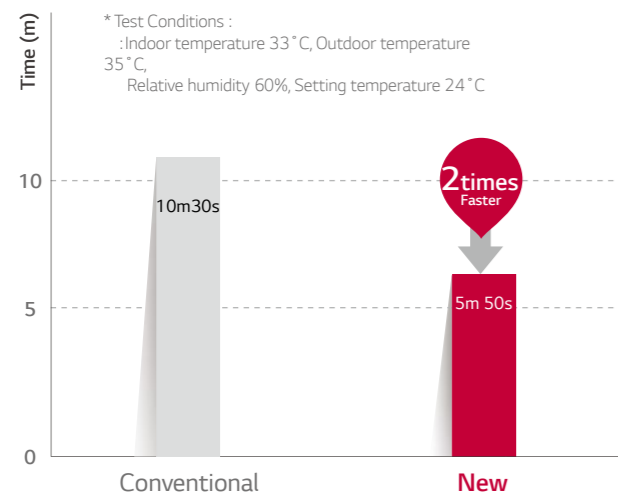
Cooling Outlet

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

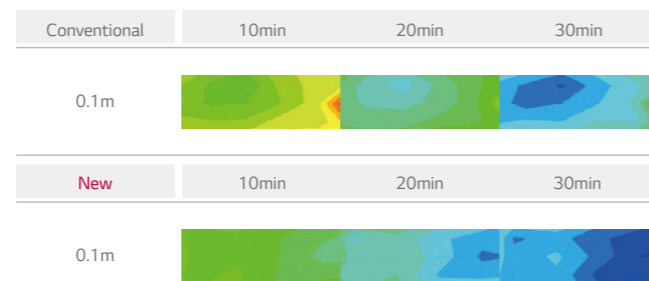


• Test Result

Test Result



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

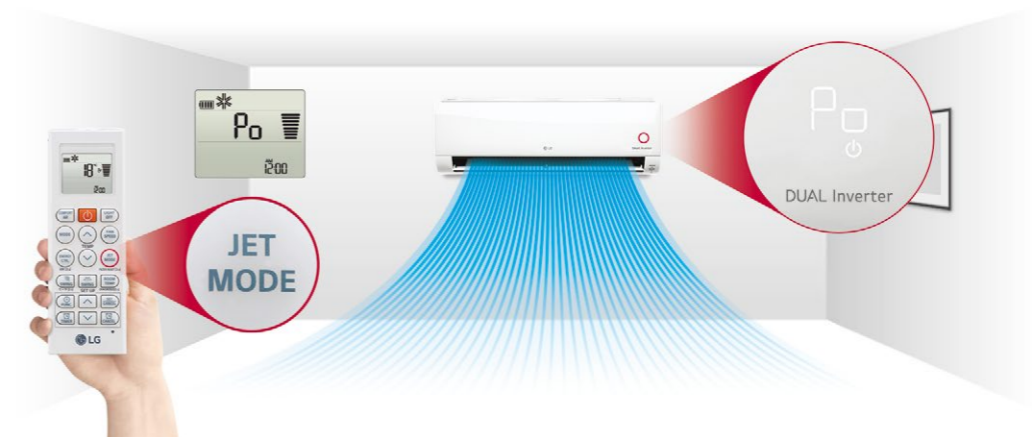
LG air conditioners provide optimized high-speed airflow, which can cool rooms faster while delivering cool air evenly in every direction.

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

• How It Works

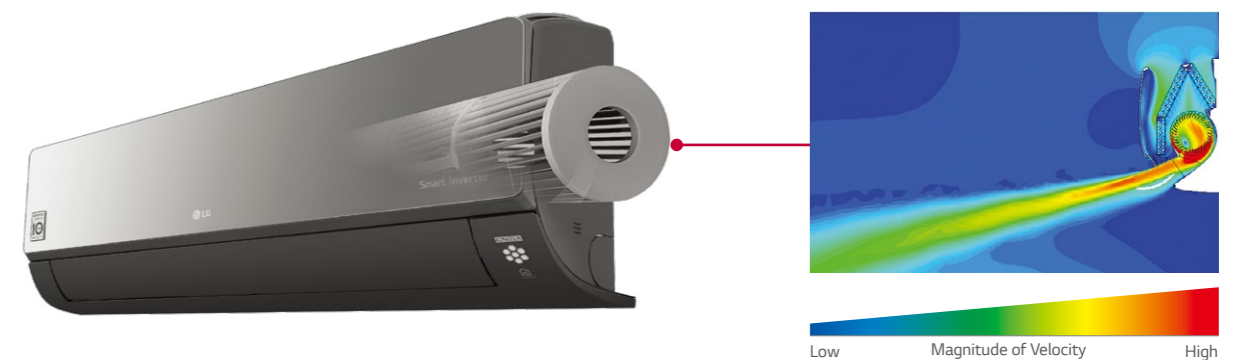
One Click "Jet Mode"

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

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.

5-Step Louver, Control up to 55°

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

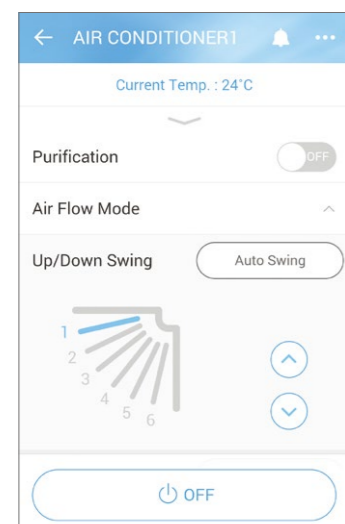


* Angle can be different from each model and working mode.

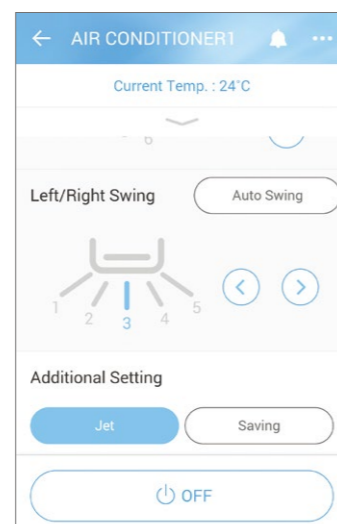
Easy and Simple Control

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

Up/Down Swing



Left/Right Swing



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

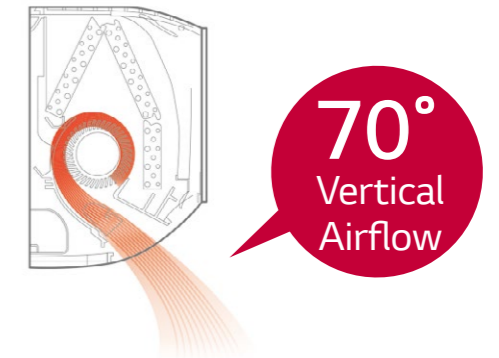
4 way Auto Swing (Easy Airflow Control)

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.



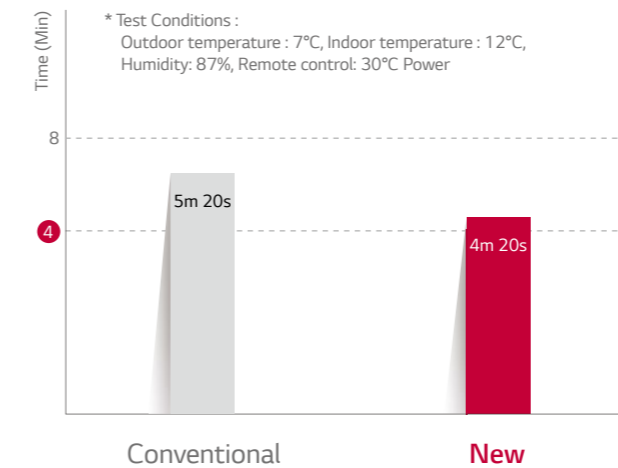
Vertical Airflow

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

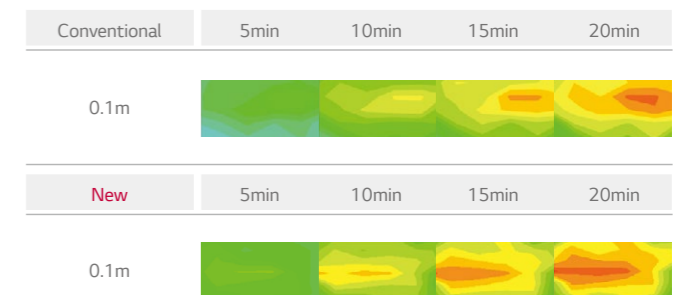


Benefit & Test Result

22% Quick Heating



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

EXTREME DURABILITY

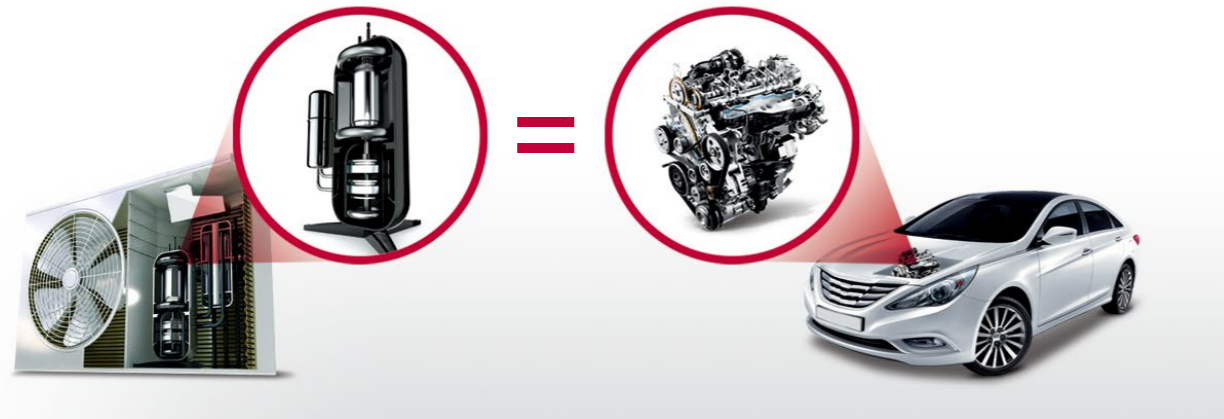
10-Year Inverter Compressor Warranty

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

* Specifications may vary for each model.

• What is the 10 Year Warranty?

The compressor 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™

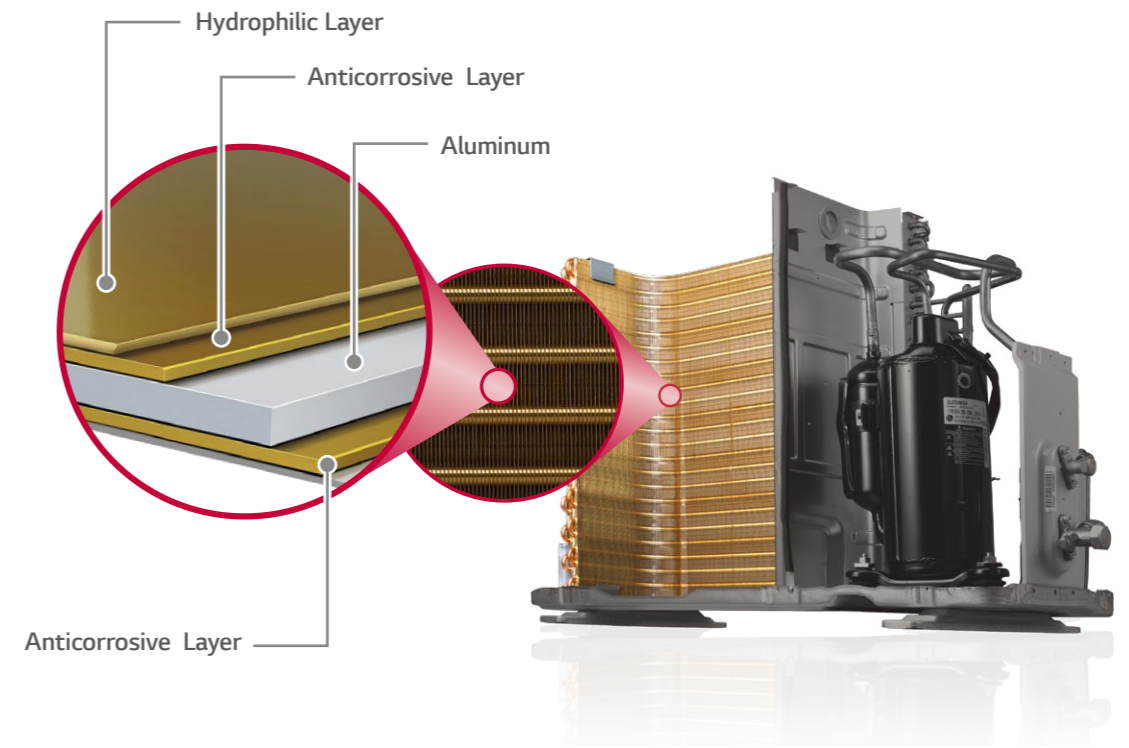
The Gold Fin™ coating protects the surface of the heat exchanger from unnecessary wear and corrosion.

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

• 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



Gold Fin™



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

COMFORT

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.

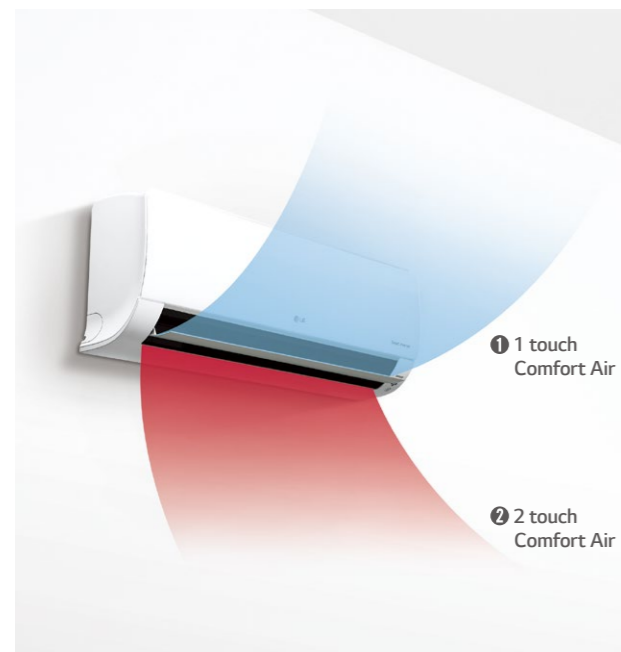
• How It Works

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 70° angle.
Sets vane angle to highest position : Optimized for gentle airflow cooling.

Indoor Unit Display: DUAL Inverter
Remote Controller Display: 18°C

Scene 2: Declines to a maximum 0° angle.
Sets vane angle to lowest position : Optimized for gentle airflow heating.

Indoor Unit Display: DUAL Inverter
Remote Controller Display: 18°C

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

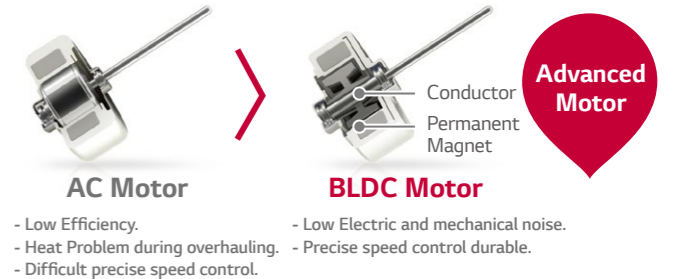
LG's Unique Skew Fan

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.



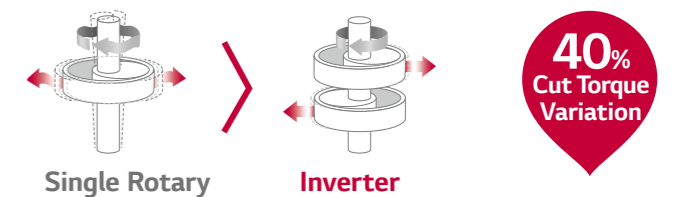
BLDC Fan Motor

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.

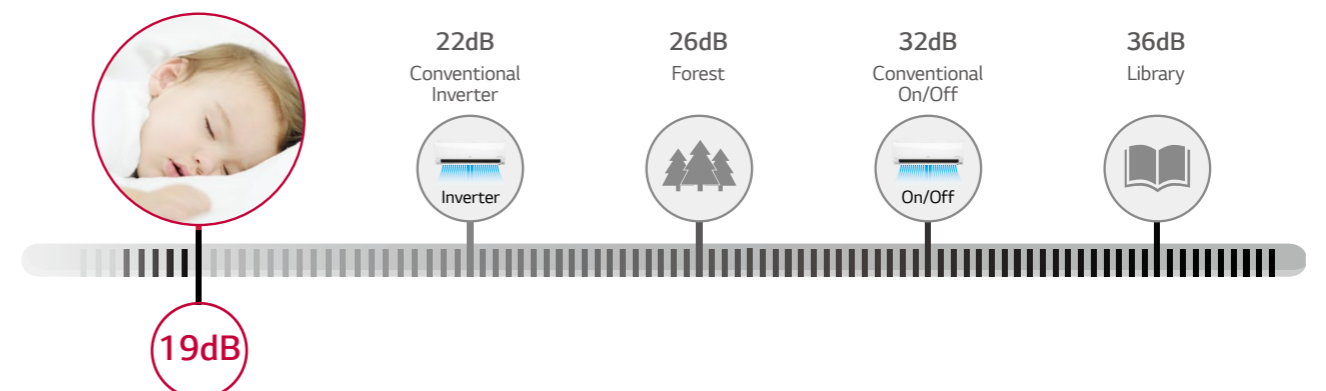


ALVC (Active Low Vibration Control)

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.



• Benefit





COMFORT

STANDARD COMMERCIAL

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

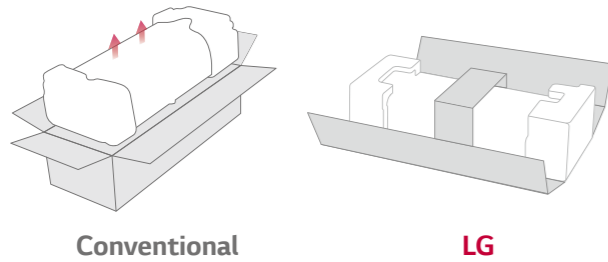
* Specifications may vary for each model.

• Concept

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

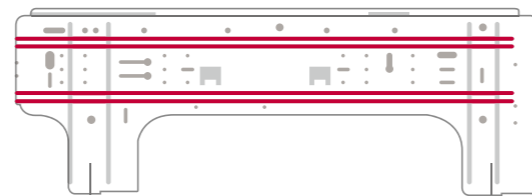
• How It Works

One Simple Packing Box



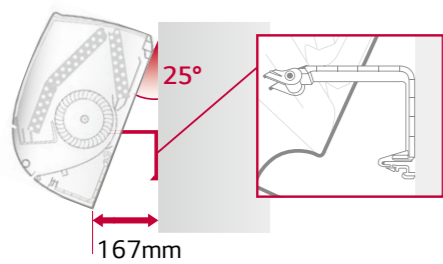
Installation Plate Improvement

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



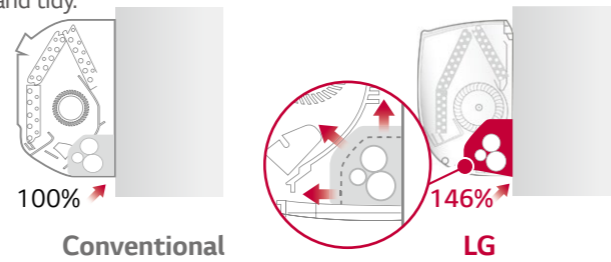
Installation Support Clip

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



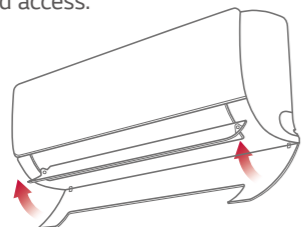
Wider Tubing Space

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



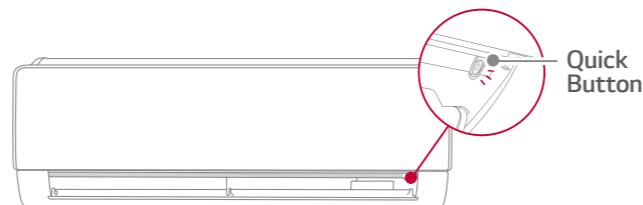
Detachable Bottom Cover

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



Quick button for running test

The test button is conveniently located and easy to find.

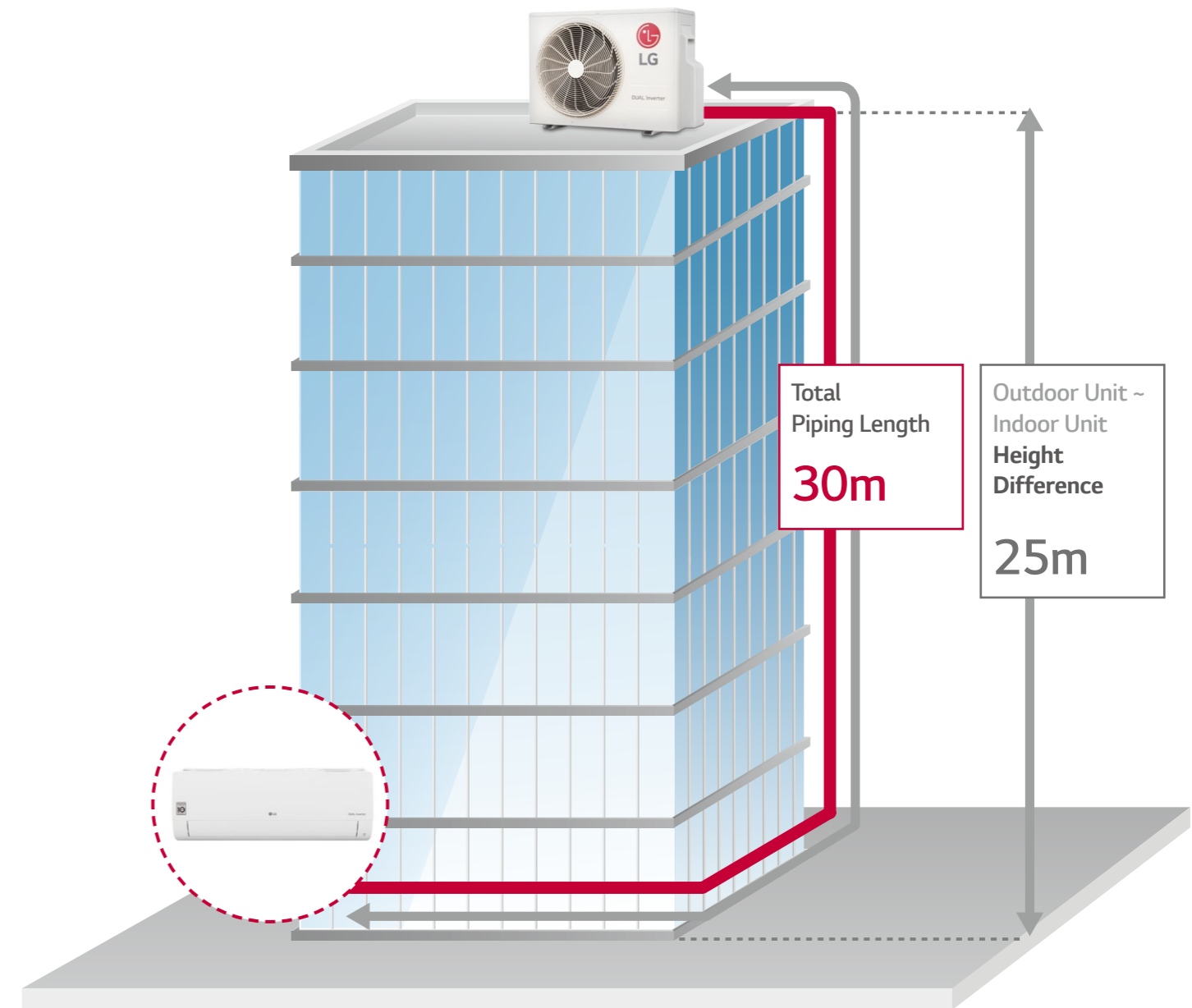


Long Distance Piping

From the outdoor unit, the indoor can be installed at a maximum piping length of 30m and with a maximum elevation of 25m.

Long piping length and long level difference

*Standard Commercial	Total Piping Length	Height Difference
9k	15	7
12k	15	7
18k	20	10
24k	20	10
38k	30	25



* This specification may vary for each model.

STADARD COMMERCIAL (ACCESSORIES)

STADARD COMMERCIAL (ACCESSORIES)

		ARTCOOL	Standard Commercial*	Standard
Wired Remote Controller	9k	-	Y	-
	12k	-	Y	-
	18k	-	Y	-
	24k	-	Y	-
	38k	-	Y	-
PI 485	9k	-	Y	-
	12k	-	Y	-
	18k	-	Y	-
	24k	-	Y	-
	38k	-	Y	-
Dry Contact	9k	-	Y	-
	12k	-	Y	-
	18k	-	Y	-
	24k	-	Y	-
	38k	-	Y	-

Y: Available
* Will be delivery end of 2020, 38k btu can be sell.

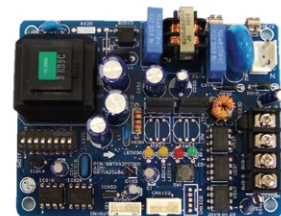
Standard Wired Remote Controller



* Refer to each model PDB for applicable models.

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*H*D, mm)	120*120*16	120*121*16
Backlight	-	-

PI 485



PMNFP14A1

Power : Single phase AC 220V 50/60Hz
Max. no of the indoor units that can be connected: 64 UNITS

* Standard Commercial Only.

Dry Contact



PDRYCB000 PDRYCB100 PDRYCB400

* Refer to each mode PDB for applicable models.

MODEL	PDRYCB000	PDRYCB100	PDRYCB400
Contact Point	1 Control Point	1 Control Point	2 Control Point
Power Input	AC 220V from outside power source	AC 24V from outside power source	DC 5V & 12V from indoor unit PCB
Voltage / Non Voltage Input			•
On / Off Control	•	•	•
Lock / Unlock			•
Fan Speed Setting			•
Thermo Off			•
Energy Saving			•
Temperature Setting			•
Error Monitoring	•	•	•
Operation Monitoring	•	•	•

Remote Controller



Artcool
Standard Commercial
Standard

Button	Display Screen	Description
	-	To turn On / Off the air conditioner.
	88 °F	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.
MODE		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
MODE		To select the fan mode.
		To select the auto changeover / auto operation mode.
FAN SPEED		To adjust the fan speed.
ENERGY CTRL		To bring the effect of the power saving.
JET MODE		To change room temperature quickly.
ROOM TEMP		To adjust the air flow direction vertically or horizontally.
		To display the room temperature.
°C ↔ °F [5sec]		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.

ARTCOOL

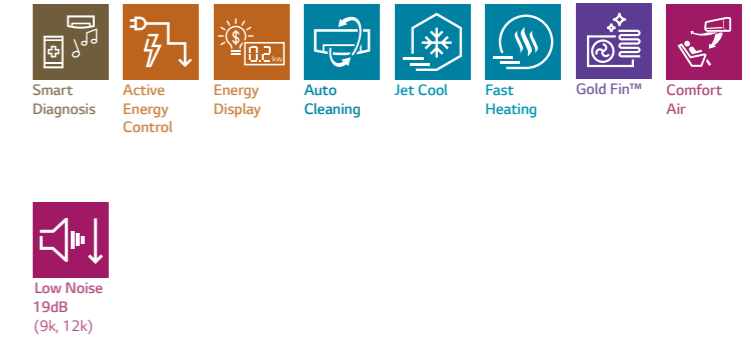


• Single Combination

UNIT				12K	18K	24K
INDOOR				A13RJH NJ2	A19RKH NK2	A24RKH NK2
Capacity	Cooling	Min / Rated / Max	kW	0.88 / 3.52 / 3.87	1.08 / 5.28 / 5.36	1.26 / 6.45 / 7.18
	Heating	Min / Rated / Max	kW	0.88 / 3.52 / 4.04	1.08 / 5.42 / 6.1	1.26 / 6.45 / 7.32
	Heating -7 °C	Max	kW	-	-	-
Power Input	Cooling	Min / Rated / Max	W	140 / 1,085 / 1,400	238 / 1,640 / 1,710	240 / 2,010 / 2,420
	Heating	Min / Rated / Max	W	140 / 975 / 1,550	238 / 1,500 / 1,800	240 / 1,890 / 2,500
Running Current	Cooling	Min / Rated / Max	A	0.7 / 5 / 6.5	1.1 / 7.4 / 8.1	1.14 / 9.6 / 11.46
	Heating	Min / Rated / Max	A	0.7 / 4.8 / 7.5	1.1 / 6.82 / 8.52	1.14 / 9.1 / 11.84
EER			W/W	3.24	3.22	3.21
EER (T3)			W/W	-	-	-
SEER			-	-	-	-
COP			W/W	3.61	3.61	3.41
SCOP			-	-	-	-
Energy Label Grade			Cooling / Heating	- / -	- / -	- / -
Annual Energy Consumption			Cooling / Heating	- / -	- / -	- / -
Power Supply			Ø, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Indoor	Air Flow Rate	Cooling, Max / H / M / L	m³/min	12.5 / 9.3 / 7.2 / 2.7	19.3 / 13.5 / 12 / 9	21 / 15 / 12 / 9
		Heating, Max / H / M / L	m³/min	13 / 10 / 7 / 5.5	20 / 14 / 13 / 9.5	21 / 16 / 13 / 9.5
	Sound Pressure Level	Cooling, Max / H / M / L / SL	dB(A)	- / 42 / 36 / 28 / 19	55 / 45 / 43 / 38 / 32	56 / 48 / 43 / 38 / 32
		Heating, Max / H / M / L	dB(A)	- / 42 / 36 / 31	56 / 45 / 43 / 38	57 / 48 / 43 / 38
	Dimensions (W x H x D)	Net	mm	837 x 308 x 192	998 x 345 x 212	998 x 345 x 212
	Weight	Net	kg	9.9	13.0	14.3
Exterior Color Code				Munsell 7.5PB 0.2 / 20 (RAL 9005)	Munsell 7.5PB 0.2 / 20 (RAL 9005)	Munsell 7.5PB 0.2 / 20 (RAL 9005)
OUTDOOR				A13RJH UJ2	A19RKH UK2	A24RKH UK2
Outdoor	Air Flow Rate	Max	m³/min	27.0	38.0	50.0
	Sound Pressure Level	Cooling, Rated	dB(A)	51	54	56
		Heating, Rated	dB(A)	53	56	58
	Sound Power Level		dB(A)	-	-	-
Dimensions (W x H x D)	Net	mm	717x495x230	770 x 545 x 288	870 x 655 x 320	
	Weight	Net	kg	26.4	34.2	42.7
Operation Range	Cooling	°C DB	18 ~ 48	18 ~ 48	18 ~ 48	
	Heating	°C DB	-5 ~ 24	-5 ~ 24	-5 ~ 24	
	Heating	°C WB	-5 ~ 18	-5 ~ 18	-5 ~ 18	
Circuit Breaker		A	15	20	20	
Power Supply Cable		No. x mm²	3 x 1	3 x 1.5	3 x 1.5	
Piping	Size	Liquid	mm	ø 6.35	ø 6.35	ø 6.35
		Gas	mm	ø 9.52	ø 12.7	ø 15.88
Connections Method	Indoor / Outdoor			Flared / Flared	Flared / Flared	Flared / Flared
	Type			R410A	R410A	R410A
Refrigerant	Pre Charge		g	850	1,230	1,400
	Additional Charge		g/m	20	20	20
	Global Warning Potential			2,087.5	2,087.5	2,087.5
	t-CO ₂ eq			1.774	2.568	2.923
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary

Note : 1. - : No Relation
 2. All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
 3. Exterior color code is approximate value.
 4. It is difficult to measure air flow rate of sleep because of small values.
 5. Maximum heating capacity is for heating operation without any frost.
 6. Fan motor speed could vary ±20 rpm according to the operating conditions.
 7. It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
 8. This product contains fluorinated greenhouse gases.
 9. Some specifications may be changed without notifications due to our policy of innovation.

STANDARD

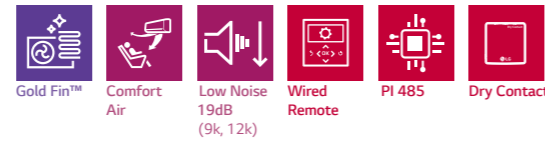
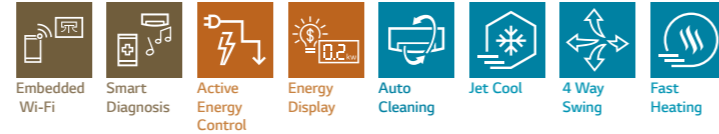


• Single Combination

UNIT				9K	12K	18K	24K
INDOOR				M11AJH NJ2	M13AJH NJ2	M19AKH NK2	M24AKH NK2
Capacity	Cooling	Min / Rated / Max	kW	0.88 / 2.7 / 3.46	0.88 / 3.52 / 3.87	1.08 / 5.28 / 5.36	1.26 / 6.45 / 7.18
	Heating	Min / Rated / Max	kW	0.88 / 2.93 / 4.04	0.88 / 3.52 / 4.04	1.08 / 5.42 / 6.1	1.26 / 6.45 / 7.32
	Heating -7 °C	Max	kW	-	-	-	-
Power Input	Cooling	Min / Rated / Max	W	140 / 729 / 1,400	140 / 1,085 / 1,400	238 / 1,640 / 1,710	240 / 2,010 / 2,420
	Heating	Min / Rated / Max	W	140 / 771 / 1,550	140 / 975 / 1,550	238 / 1,500 / 1,800	240 / 1,890 / 2,500
Running Current	Cooling	Min / Rated / Max	A	0.7 / 3.5 / 6.5	0.7 / 5 / 6.5	1.1 / 7.4 / 8.1	1.14 / 9.6 / 11.46
	Heating	Min / Rated / Max	A	0.7 / 3.6 / 7.5	0.7 / 4.8 / 7.5	1.1 / 6.82 / 8.52	1.14 / 9.1 / 11.84
EER			W/W	3.70	3.24	3.22	3.21
EER (T3)			W/W	-	-	-	-
SEER			-	-	-	-	-
COP			W/W	3.80	3.61	3.61	3.41
SCOP			-	-	-	-	-
Energy Label Grade			Cooling / Heating	- / -	- / -	- / -	- / -
Annual Energy Consumption			Cooling / Heating	- / -	- / -	- / -	- / -
Power Supply			Ø, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Indoor	Air Flow Rate	Cooling, Max / H / M / L	m³/min	12.5 / 9.3 / 7.2 / 2.7	12.5 / 9.3 / 7.2 / 2.7	19.3 / 13.5 / 12 / 9	21 / 15 / 12 / 9
		Heating, Max / H / M / L	m³/min	13 / 10 / 7 / 5.5	13 / 10 / 7 / 5.5	20 / 14 / 13 / 9.5	21 / 16 / 13 / 9.5
	Sound Pressure Level	Cooling, Max / H / M / L / SL	dB(A)	- / 42 / 36 / 28 / 19	- / 42 / 36 / 28 / 19	55 / 45 / 43 / 38 / 32	56 / 48 / 43 / 38 / 32
		Heating, Max / H / M / L	dB(A)	- / 42 / 36 / 31	- / 42 / 36 / 31	56 / 45 / 43 / 38	57 / 48 / 43 / 38
	Dimensions (W x H x D)	Net	mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210
	Weight	Net	kg	8.4	8.4	11.3	12.8
Exterior Color Code				Munsell 7.5BG 10 / 2 (RAL 9016)	Munsell 7.5BG 10 / 2 (RAL 9016)	Munsell 7.5BG 10 / 2 (RAL 9016)	Munsell 7.5BG 10 / 2 (RAL 9016)
OUTDOOR				M11AJH UJ2	M13AJH UJ2	M19AKH UK2	M24AKH UK2
Outdoor	Air Flow Rate	Max	m³/min	27.0	27.0	38.0	50.0
	Sound Pressure Level	Cooling, Rated	dB(A)	51	51	54	56
		Heating, Rated	dB(A)	53	53	56	58
	Sound Power Level		dB(A)	-	-	-	-
Dimensions (W x H x D)	Net	mm	717x495x230	717x495x230	770 x 545 x 288	870 x 655 x 320	
	Weight	Net	kg	26.4	26.4	34.2	42.7
Operation Range	Cooling	°C DB	18 ~ 48	18 ~ 48	18 ~ 48	18 ~ 48	
	Heating	°C DB	-5 ~ 24	-5 ~ 24	-5 ~ 24	-5 ~ 24	
	Heating	°C WB	-5 ~ 18	-5 ~ 18	-5 ~ 18	-5 ~ 18	
Circuit Breaker		A	15	15	20	20	
Power Supply Cable		No. x mm²	3 x 1	3 x 1	3 x 1.5	3 x 1.5	
Piping	Size	Liquid	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
		Gas	mm	ø 9.52	ø 9.52	ø 12.7	ø 15.88
Connections Method	Indoor / Outdoor			Flared / Flared	Flared / Flared	Flared / Flared	Flared / Flared
	Type			R410A	R410A	R410A	R410A
Refrigerant	Pre Charge		g	850	850	1,230	1,400
	Additional Charge		g/m	20	20	20	20
	Global Warning Potential			2,087.5	2,087.5	2,087.5	2,087.5
	t-CO ₂ eq			1.774	1.774	2.568	2.923
Compressor	Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary

Note : 1. - : No Relation
 2. All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
 3. Exterior color code is approximate value.
 4. It is difficult to measure air flow rate of sleep because of small values.
 5. Maximum heating capacity is for heating operation without any frost.
 6. Fan motor speed could vary ±20 rpm according to the operating conditions.
 7. It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
 8. This product contains fluorinated greenhouse gases.
 9. Some specifications may be changed without notifications due to our policy of innovation.

STANDARD COMMERCIAL



• Single Combination

UNIT		9K	12K	18K	38K		
INDOOR		M10EJH NJ0	M13EJH NJ0	M19EKH NK0	M38AKH NR0		
Capacity	Cooling	Min / Rated / Max	kW	0.88 / 2.7 / 3.46	0.88 / 3.52 / 3.87	1.08 / 5.28 / 5.36	1.77 / 9.78 / 11.14
	Heating	Min / Rated / Max	kW	0.88 / 2.93 / 4.04	0.88 / 3.52 / 4.04	1.08 / 5.42 / 6.1	1.47 / 8.5 / 9.79
	Heating -7 °C	Max	kW	-	-	-	-
Power Input	Cooling	Min / Rated / Max	W	140 / 729 / 1,400	140 / 1,085 / 1,400	238 / 1,640 / 1,710	610 / 3050 / 3990
	Heating	Min / Rated / Max	W	140 / 771 / 1,550	140 / 975 / 1,550	238 / 1,500 / 1,800	559 / 2235 / 3990
Running Current	Cooling	Min / Rated / Max	A	0.7 / 3.5 / 6.5	0.7 / 5 / 6.5	1.1 / 7.4 / 8.1	3.92 / 13.5 / 17
	Heating	Min / Rated / Max	A	0.7 / 3.6 / 7.5	0.7 / 4.8 / 7.5	1.1 / 6.82 / 8.52	3.68 / 10.5 / 17
EER			W/W	3.70	3.24	3.22	3.21
EER (T3)			W/W	-	-	-	-
SEER				-	-	-	-
COP			W/W	3.80	3.61	3.61	3.80
SCOP				-	-	-	-
Energy Label Grade	Cooling / Heating		A++ / A++	A / A++	A / A++	- / -	- / -
Annual Energy Consumption	Cooling / Heating		365 / -	543 / -	820 / -	- / -	- / -
Power Supply	Ø, V, Hz		1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
Indoor	Air Flow Rate	Cooling, Max / H / M / L	m³/min	12.5 / 9.3 / 7.2 / 2.7	12.5 / 9.3 / 7.2 / 2.7	19.3 / 13.5 / 12 / 9	32 / 25 / 21 / 17
		Heating, Max / H / M / L	m³/min	13 / 10 / 7 / 5.5	13 / 10 / 7 / 5.5	20 / 14 / 13 / 9.5	33 / 27 / 23 / 19
	Sound Pressure Level	Cooling, Max / H / M / L / SL	dB(A)	- / 41 / 35 / 27 / 19	- / 41 / 35 / 27 / 19	55 / 45 / 43 / 38 / 32	- / 52 / 47 / 43 / 34
		Heating, Max / H / M / L	dB(A)	- / 42 / 36 / 31	- / 42 / 36 / 31	56 / 45 / 43 / 38	- / 52 / 47 / 43
Dimensions (W x H x D)	Net	mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	1200 / 360 / 265	
Weight	Net	kg	8.6	8.6	11.5	18.5	
Exterior Color Code			Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)	
OUTDOOR		M10EJH UJ0	M13EJH UJ0	M19EKH UK0	M38AKH UR0		
Outdoor	Air Flow Rate	Max	m³/min	27.0	27.0	38.0	71.0
	Sound Pressure Level	Cooling, Rated	dB(A)	51	51	54	58
		Heating, Rated	dB(A)	53	53	56	59
Dimensions (W x H x D)	Net	mm	717 / 495 / 230	717 / 495 / 230	770 / 545 / 288	950 / 832 / 330	
Weight	Net	kg	26.4	26.4	34.2	67.1	
Operation Range	Cooling	°C DB	18-48	18-48	18-48	18-54	
	Heating	°C DB	-5-24	-5-24	-5-24	-5-24	
Circuit Breaker	Heating	°C VWB	-5-18	-5-18	-5-18	-5-18	
Power Supply Cable		A	15	15	20	25	
Piping	Size	No. x mm²	3 x 1	3 x 1	3 x 1.5	3 x 2.5	
Refrigerant	Connections Method	Liquid	mm	ø 6.35	ø 6.35	ø 6.35	ø 9.52
		Gas	mm	ø 9.52	ø 9.52	ø 12.7	ø 15.88
	Type	Indoor / Outdoor	-	Flared / Flared	Flared / Flared	Flared / Flared	Flared / Flared
	Pre Charge			R410A	R410A	R410A	R410A
Compressor	Additional Charge	g	850	850	1230	2400	
	Global Warming Potential	g/m	20	20	20	30	
	t-CO ₂ eq	-	2087.5	2087.5	2087.5	2087.5	
		-	1.77	1.77	2.57	5.01	
	Type	-	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	

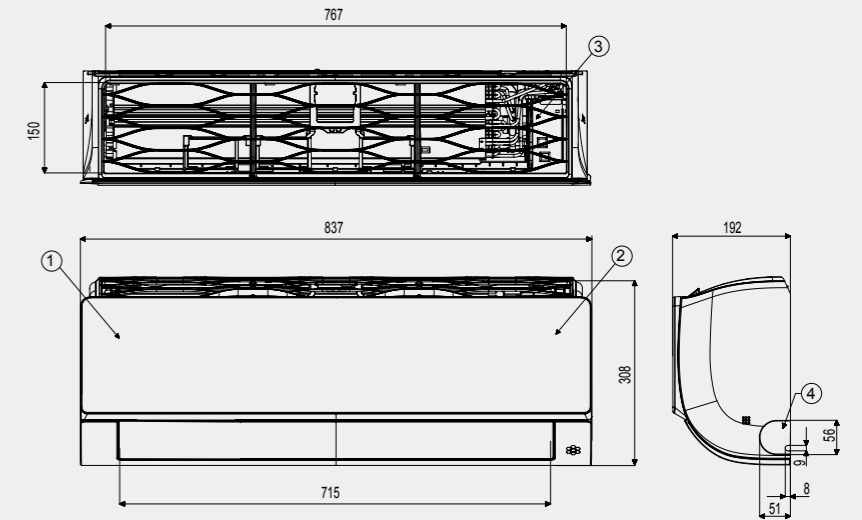
- Note : 1. - : No Relation
 2. All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
 3. Exterior color code is approximate value.
 4. It is difficult to measure air flow rate of sleep because of small values.
 5. Maximum heating capacity is for heating operation without any frost.
 6. Fan motor speed could vary ±20 rpm according to the operating conditions.
 7. It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
 8. This product contains fluorinated greenhouse gases.
 9. Some specifications may be changed without notifications due to our policy of innovation.
 10. Standard Commercial models will be launched 2020 4 Quarter, 38k btu can be sell.
 11. 38k Model don't applied Active Energy control function.

ARTCOOL

A11RJH.NJ2 / A13RJH.NJ2

(Unit : mm)

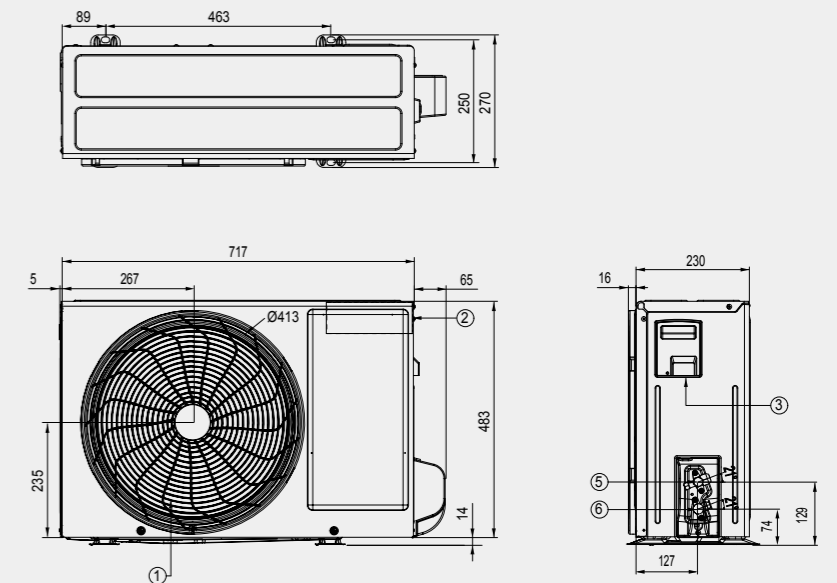
Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Filter	
4	Knockout hole	For pipe and cable



A11RJH.UJ2 / A13RJH.UJ2

(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



* This product contains Fluorinated greenhouse gases (R410A).

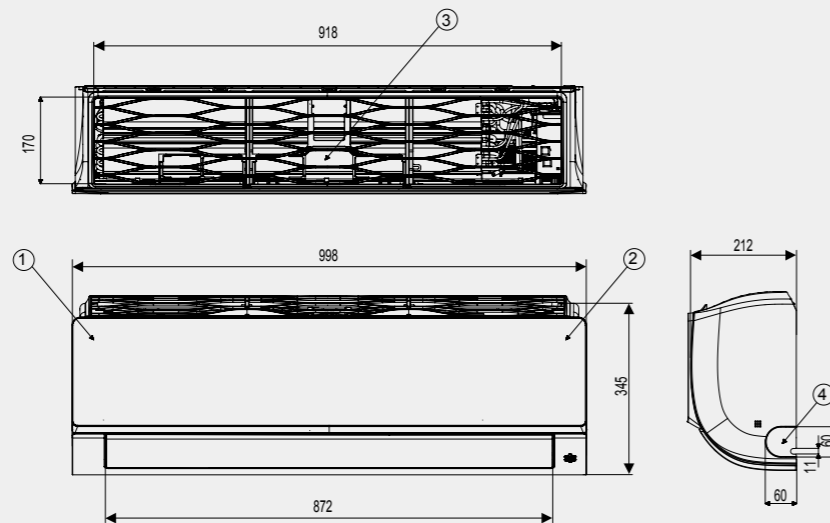
ARTCOOL

STANDARD / STANDARD COMMERCIAL

A19RKH.NK2 / A24RKH.NK2

(Unit : mm)

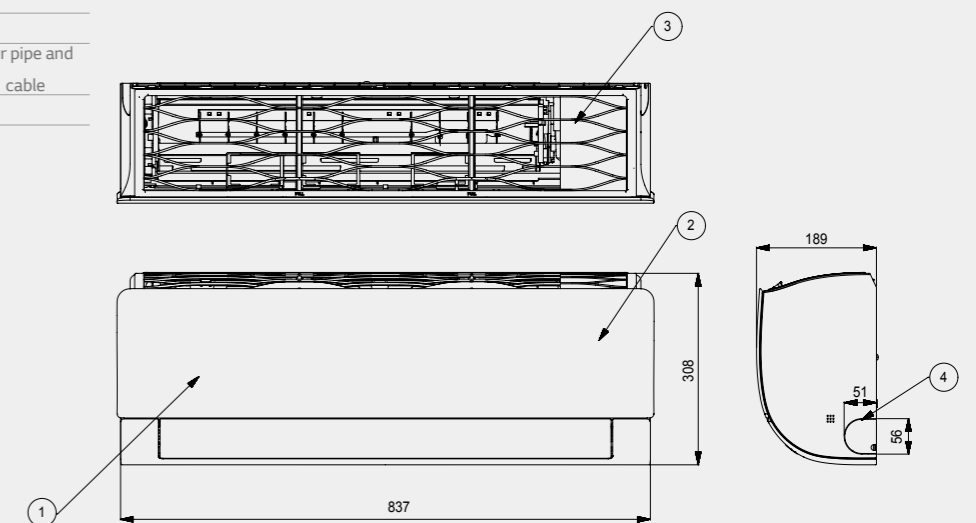
Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Filter	
4	Installation Plate	



M11AJH.NJ2 / M13AJH.NJ2 , M10.EJH.NJ0 / M13EJH.NJ0

(Unit : mm)

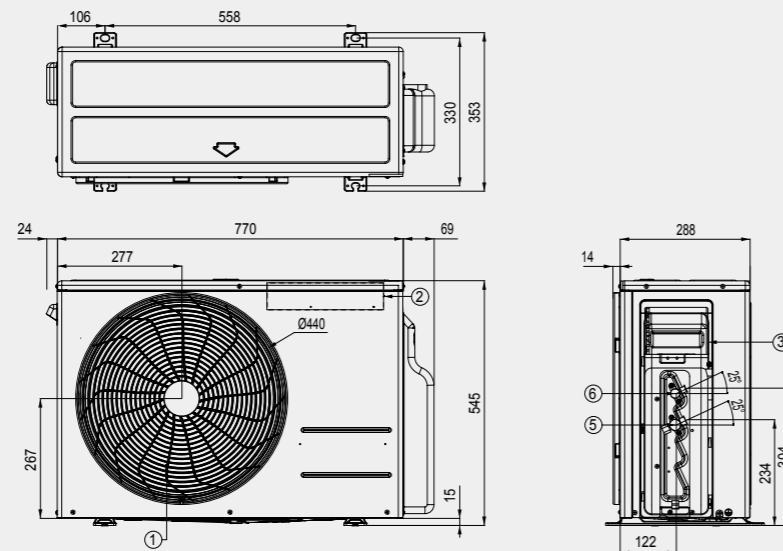
Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Filter	
4	Knockout hole	For pipe and cable
5	Installation Plate	



A19RKH.UK2 / A24RKH.UK2

(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

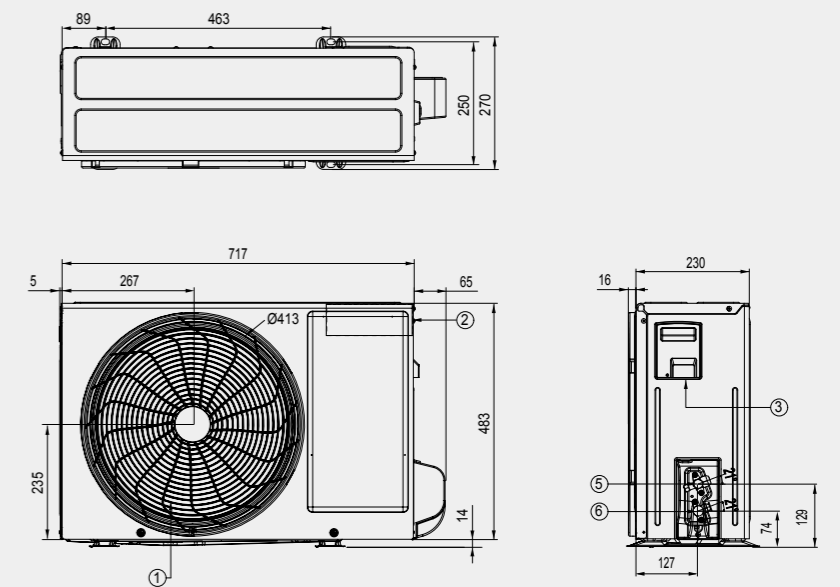


* This product contains Fluorinated greenhouse gases (R410A).

M11AJH.UJ2 / M13AJH.UJ2 , M10EJH.UJ0 / M13EJH.UJ0

(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



* This product contains Fluorinated greenhouse gases (R410A).

STANDARD / STANDARD COMMERCIAL

STANDARD COMMERCIAL

M19AKH.NK2 / M24AKH.NK2, M19EKH.NK0 / M24EKH.MK0

M38AKH.NR0

(Unit : mm)

Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Filter	
4	Installation Plate	

(Unit : mm)

Item No.	Part Name	Remark	Item No.	Part Name	Remark
1	Refrigerant, Drain Pipe and Cable Routing Hole	Knock-out Type	4	Terminal Block for Power Supply and Communication	
2	Installation Plate		5	Display & Remote Controller Signal Receiver	
3	Drain Hose Connection		6	Decoration Cover	

M19AKH.UK2, M19EKH.UK0 M24AKH.UK2, M24EKH.UK0

M38AKH.UR0

(Unit : mm)

Item No.	Part Name	Item No.	Part Name
1	Air Outlet	4	Service Valve Cover
2	Control Box	5	Gas Pipe Connection
3	Power and Communication Cable Hole	6	Liquid Pipe Connection

(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

COMMERCIAL

SINGLE SPLIT



APPLICATION SOLUTIONS



Ceiling Mounted Cassette

Shop



Fitness



Office



Ceiling Suspended

Restaurant



Retail



Shop



Ceiling Concealed Duct

Residential



Hotel



School



Single Package

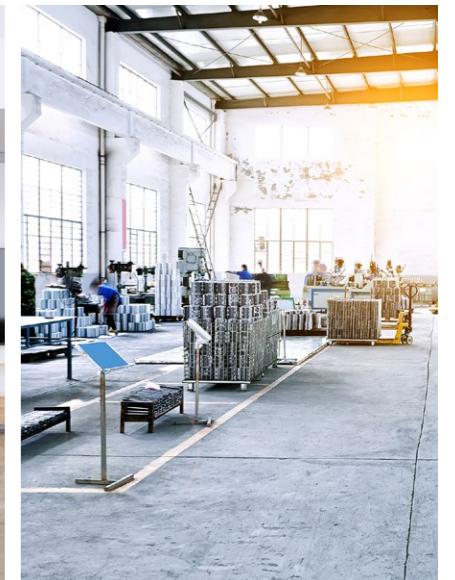
Mall



Villa



Factory

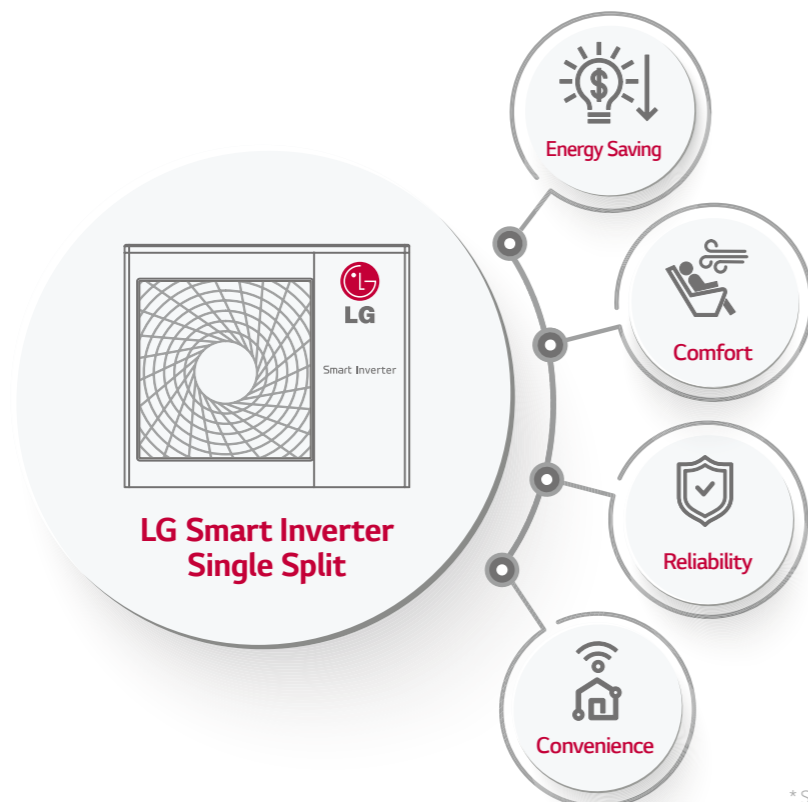


COMMERCIAL



WHY LG SMART INVERTER?

LG Inverter technology is applied to various electronics including refrigerators and washing machines which continuously draw global attention. The best quality is the excellent level of technology provided by LG, a reputable electronic provider. LG is also known for its comprehensive HVAC provider. LG's latest Smart Inverter Single Split solutions are all equipped with the company's advanced Smart Inverter Technology.



* Specifications may vary for each model.

ENERGY SAVING



Comfort Cooling with Humidity Sensor

Comfort cooling is a energy saving function that changes evaporation temperature in accordance with temperature & humidity.



Human Detection Sensor

Automatic direction of air flow & operation by sensing human body.



Quick Cooling

At the same condition, the inverter reaches the set temperature about 30% faster than the constant speed.

COMFORT



Low Noise

Inverter makes lower noise than constant speed due to adjustable frequency according to the load.

RELIABILITY



High and Low Voltage Protection

Below low voltage limit, inverter compressor reduces frequency(Hz) and boost DC voltage, over high voltage limit, cuts off the relay to prevent damage of DC capacitor.



Corrosion Resistant Heat Exchanger

The fin of heat exchanger covered with gold-colored special coating prevents corrosion, extending the lifespan of the unit.

CONVENIENCE



ThinQ

Control your air conditioners via using the smart internet devices such as Android or iOS based smartphones. This advanced technology provides you the best convenience.



Simple Test Run Via LGMV

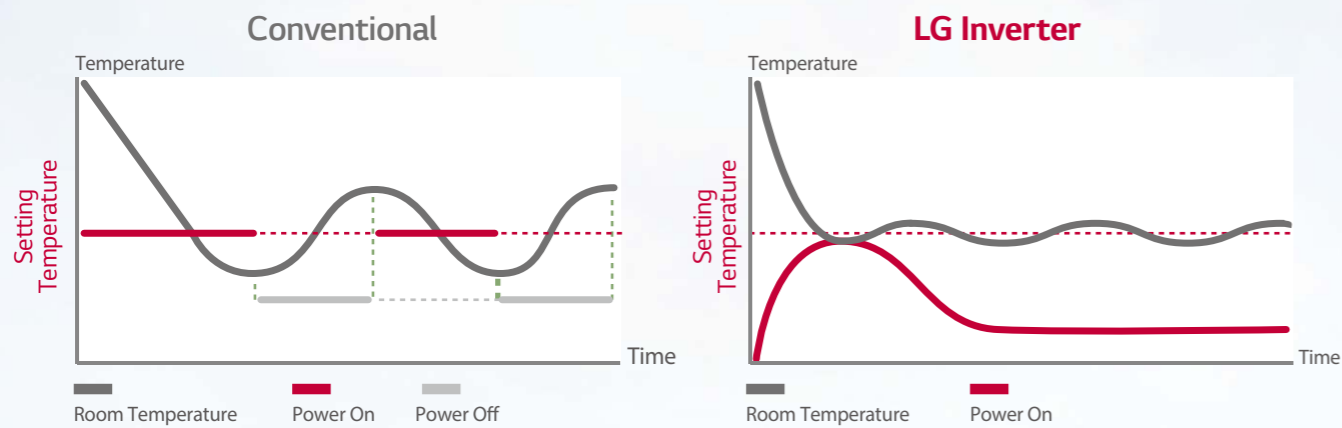
Fast and accurate auto test run can be executed and the professional installer running the test can receive test results via email, which shortens installation hours and increases overall efficiency in installation processes.

COMMERCIAL

WHY LG SMART INVERTER

COMFORTABLE OPERATION

Once the desired temperature is achieved, unlike conventional air conditioners that turn the compressor on and off, LG inverter units adjust and constantly vary the compressor speed to maintain the desired temperature with minimal fluctuation to ensure that your comfort is not compromised.



Recognizing the importance of saving energy, LG has taken the initiative to develop new and, more efficient inverter technology. In addition to consuming less electricity, the company's advanced inverter systems also boast powerful performance and enhanced reliability.

LG's Inverter Single Split lowers energy usage and operational costs, illustrating how smart technology can make a real difference. New model, designed for commercial spaces such as offices and retail stores, can operate for extended periods of time, while providing exceptional energy efficiency.

The Inverter Single Split is able to produce an impressive volume of cool air, helping to create the perfect indoor temperature quickly, as well as delivering fast and efficient cooling. LG's latest solution can also minimize electricity consumption.

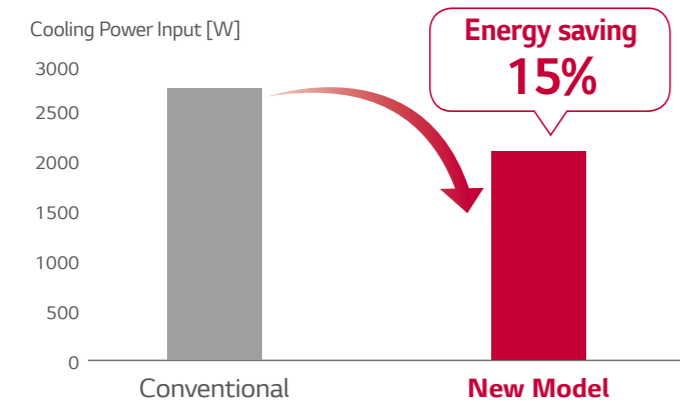


COMMERCIAL

LG INVERTER SINGLE SPLIT

LG's Inverter Single Split lowers energy usage and operational costs, illustrating how smart technology can make a real difference. New model, designed for commercial spaces such as offices and retail stores, can operate for extended periods of time, while providing exceptional energy efficiency.

Public Facilities (Restaurants, Fitness centers, Conference rooms)
LG Smart Inverter system offers optimal independent air conditioning for large spaces that require an ideal temperature, supply of fresh air, and individual control.



• CEILING SUSPENDED



• CEILING CONCEALED DUCT



• CEILING CONCEALED DUCT



• FLOOR STANDING



COMMERCIAL

THE EVOLUTION OF LG TECHNOLOGY

REVOLUTIONARY SCROLL COMPRESSOR

Revolutionary scroll compressor is applied for high-efficiency and reliability. This type of compressor is more advanced compared to the conventional one. Especially tilting motion of scroll has been improved. Further, the operation range is improved compared to the conventional type.

R1 Compressor™



- Extended Operation Range (max 150Hz)
- High Efficiency (low load at low speed / total efficiency)
- Low Noise (high speed possible)
- 20% Weight Reduction (vs. conventional compressor)
- Scroll Compressor with Simple Structure
- Improved Tilting Motion of Scroll

2002
1st generation



Auxiliary Inverter
(1 Constant + 1 Inverter)

2007
2nd generation



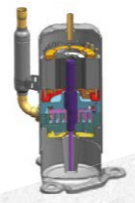
High Efficiency
(LG BLDC Rotary Inverter)

2010
3rd generation



Wide Operation
(LG BLDC Rotary Inverter)

After 2018
4th generation



Maximized Capability
(R1 Compressor)

Efficiency
(EER at 60 Hz 30Fr. Compressor)

11.0
2002

11.31
2007

11.35
2010

11.8
2018



20Hz 95Hz

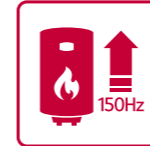
15Hz 110Hz

10Hz 150Hz

Operation Range

* All the contents in this material is based on LG single split model.

POWER



Higher Performance
Extended Operation Range
(max 150Hz)

SILENCE



Lower Noise & Vibration
- Max 4 dB(A) ↓
- Less Weight (**20% ↓)
- Superior Reliability
- Bottom compression & simple structure

DURABILITY

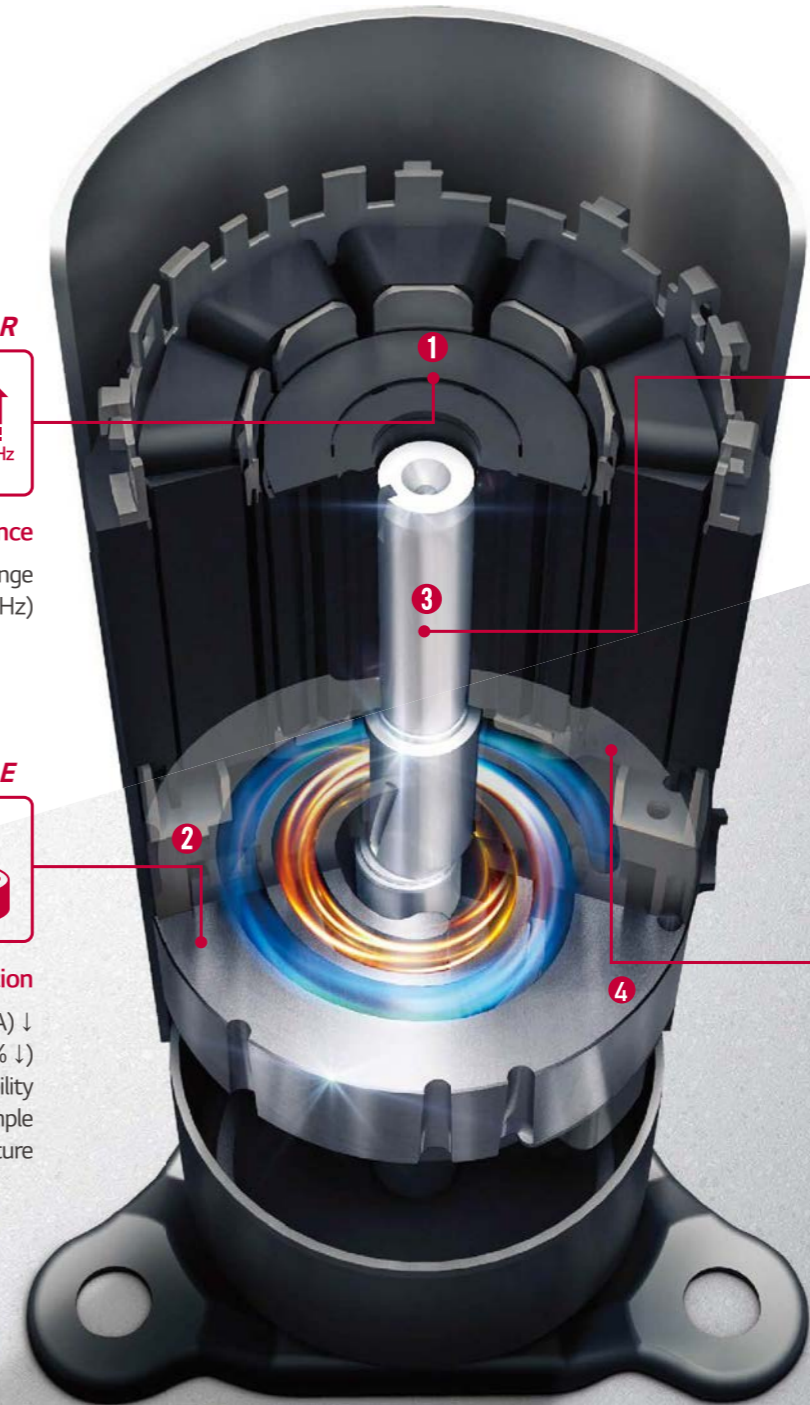


Solid compressor operation
assuring higher durability
Shaft-through Structure
& Support both ends of shaft

EFFICIENCY



Higher Energy Efficiency
(*SEER 20% ↑)
Centrifugal oil return
& Oil separating guide
for oil discharge reduction



R1 Compressor™

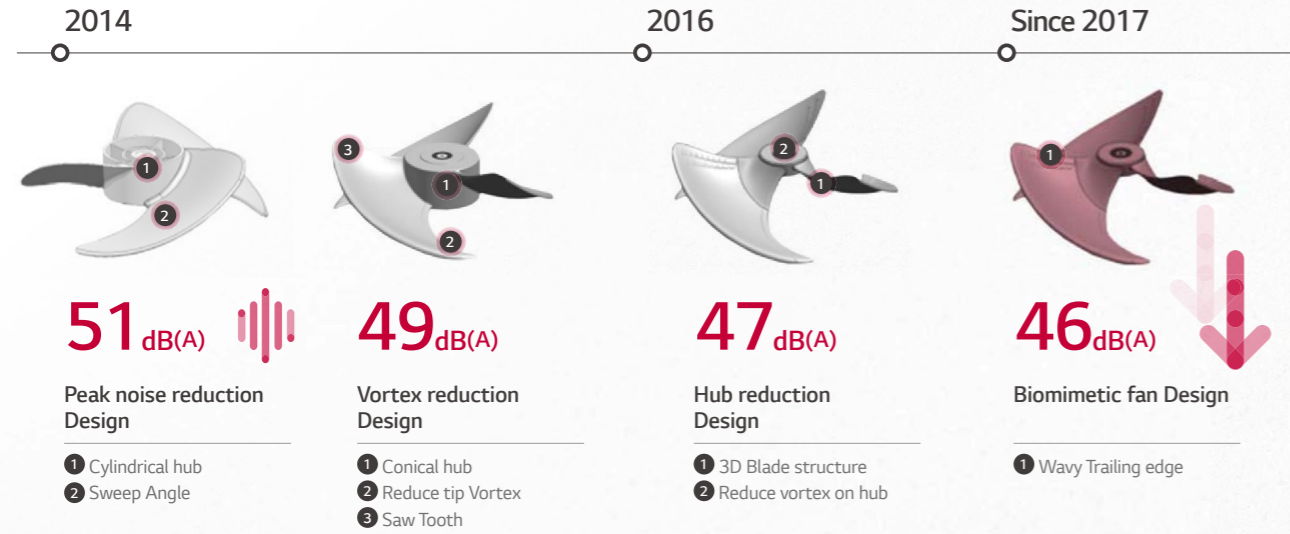
* LG Internal test result, Based on single split 10 kW Cassette

** LG Internal test result, Based on conventional compressor (Rotary type GPT442M)

LG TECHNOLOGY FAN

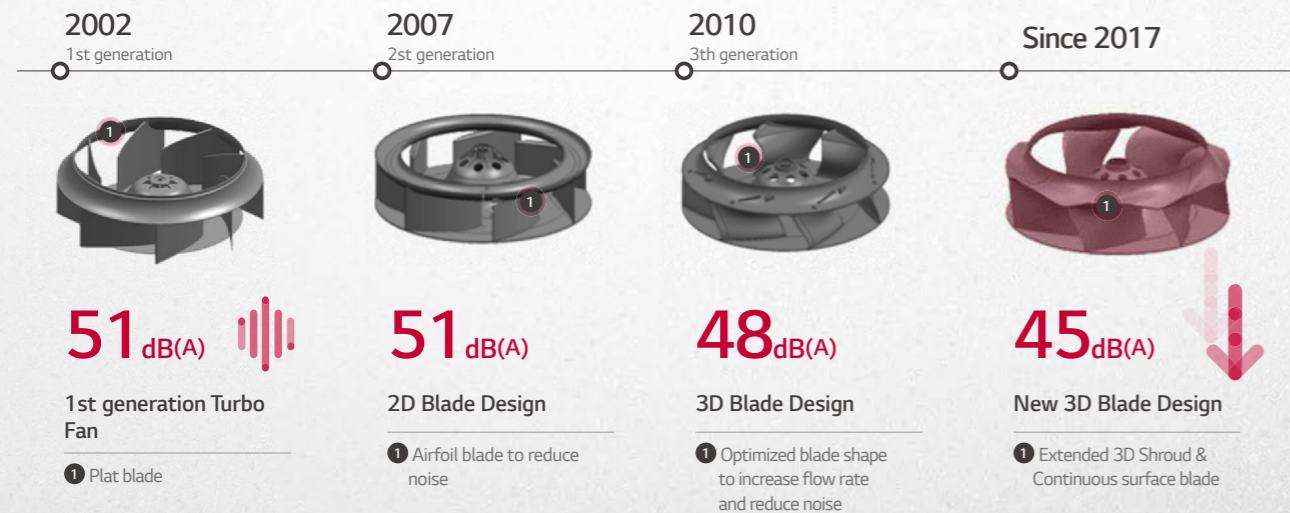
*OUTDOOR FAN (BIOMIMETIC FAN)

Newly developed fan, designed by biomimetic shape, blows higher air volume and noise is reduced accordingly.

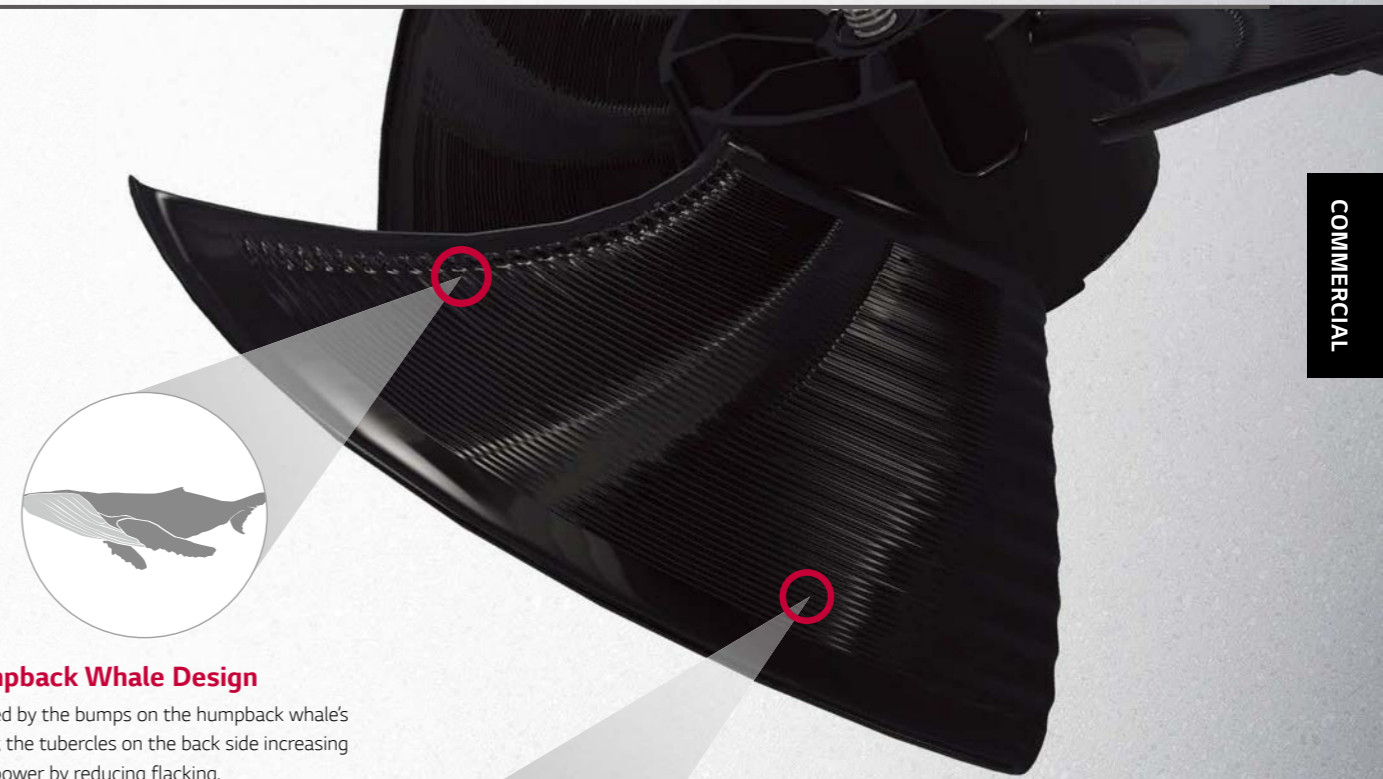


INDOOR FAN

Quiet and powerful indoor unit fan through years of fluid dynamic design and manufacturing knowhow.



* All the contents in this material is based on LG single split model.



Humpback Whale Design

Inspired by the bumps on the humpback whale's flipper, the tubercles on the back side increasing wind power by reducing flacking.



Clam Shell Pattern

Like the clam shell textures, the range difference created by moire pattern reducing noise level.



SINGLE SPLIT LINE-UP

CEILING MOUNTED CASSETTE

			 			
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.6	48 / 14.1	60 / 15.8
Indoor Model Name	UT18WC	UT24WC	UT30WC	UT36WC	UT48WC	UT60WC
Outdoor Model Name	UU18WC	UU24WC	UU30WC	UU36WC	UU49WC1	UU61WC1


CEILING CONCEALED DUCT (MIDDLE STATIC)

			 			
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.6	48 / 14.1	60 / 15.8
Indoor Model Name	UM18WC	UM24WC	UM30WC	UM36WC	UM48WC	UM60WC
Outdoor Model Name	UU18WC	UU24WC	UU30WC	UU36WC	UU49WC1	UU61WC1

CEILING SUSPENDED

			
kBtu / kW	36 / 10.6	48 / 14.1	60 / 15.8
Indoor Model Name	UV36WC	UV48WC	UV60WC
Outdoor Model Name	UU36WC	UU49WC1	UU61WC1

SINGLE PACKAGE

Single Package	
RT	20, 25
Model Name	AK-W240LC00 AK-W300LC00

COMMERCIAL

SINGLE SPLIT

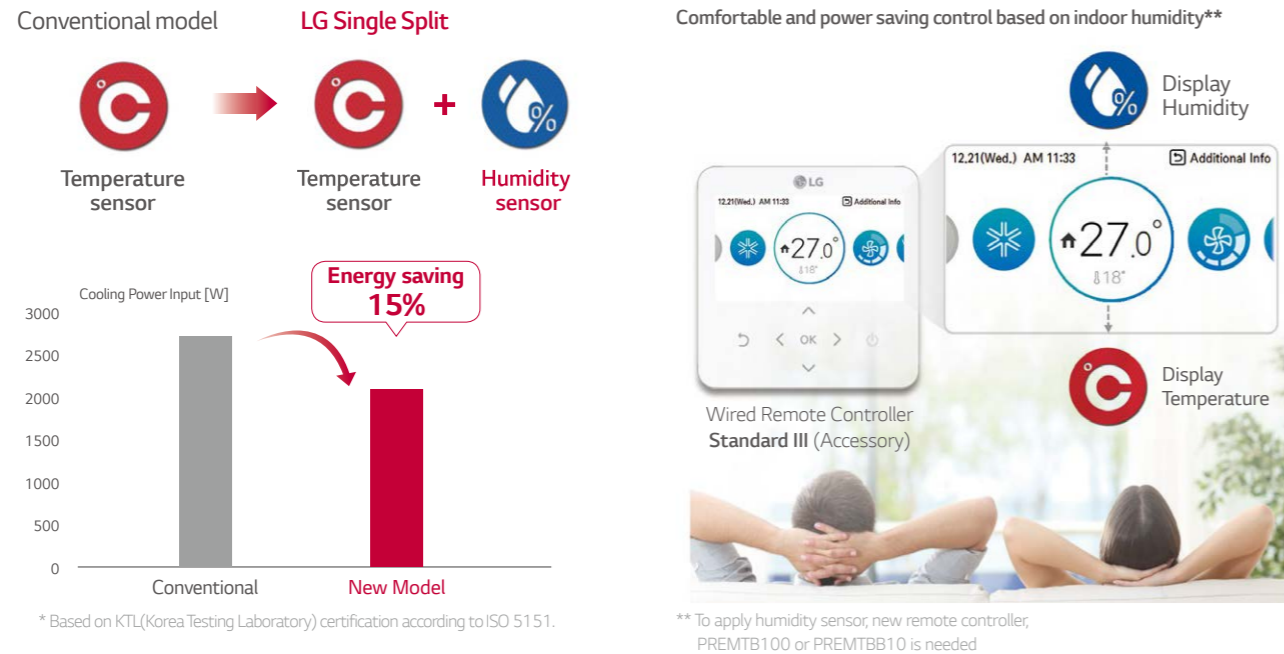


ENERGY SAVING

ENERGY SAVING

Comfort Cooling with Humidity Sensor

'Comfort Cooling' is a energy saving function that changes evaporation temperature according to temperature & humidity.



* Based on KTL(Korea Testing Laboratory) certification according to ISO 5151.

LG SINGLE SPLIT (Dry Summer)

Dry Summer 27°C 15%¹⁾

Te²⁾ + α Refrigerants

Comfort Low High

LG SINGLE SPLIT (Wet Summer)

Wet Summer 27°C 85%¹⁾

Te²⁾ + α Refrigerants

Comfort Low High

Comfortable Environment
By making the room less dry

Increased Energy Efficiency
Provide optimized cooling and save energy considering humidity

Max.18% Energy Saving*

* Room Temperature : 20.5°C
Humidity : 50 ± 10%
Applied model : AT-*18GPLT1

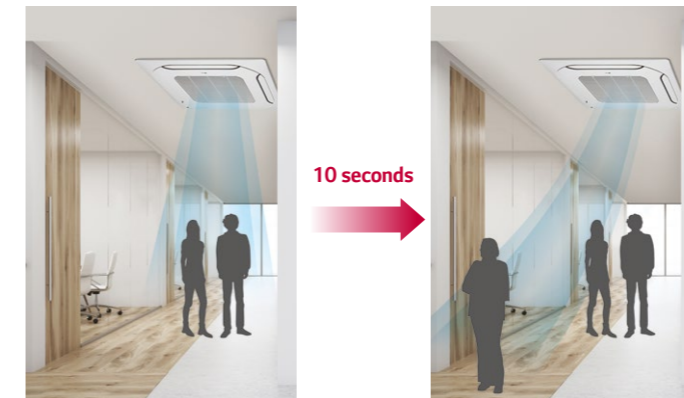
1) Indoor Condition
2) Evaporation Temperature

Energy Saving with Human Detection Sensor



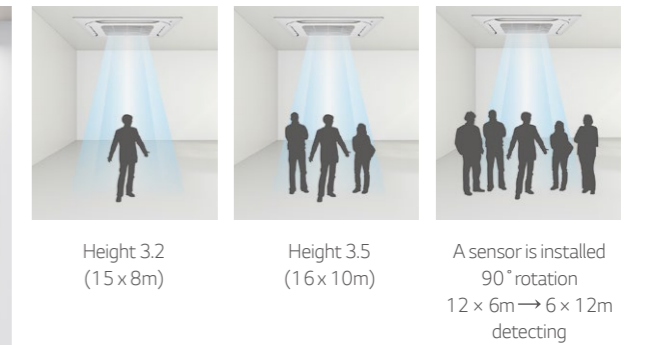
Direction control based on human motion

Air flow direction is controlled automatically by motion sensor that detects the activity of people every 10 seconds.



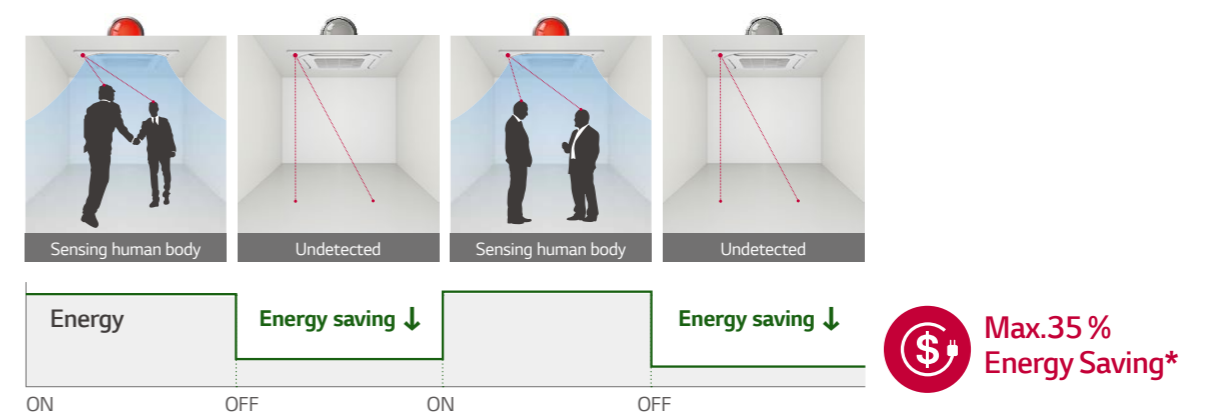
Compressor control based on real load

Discharge temperature is controlled by the number of occupancy.



Auto on/off mode

The indoor unit automatically stops when detecting absence. It runs as the same as previous mode when sensing human body.



* Sensor is optional accessory (PTVSM0) : only can be applied to PT-MCHW0(CST Panel)

* To use this function, new remote controller, PREMTB100 or PREMTBB10 is needed

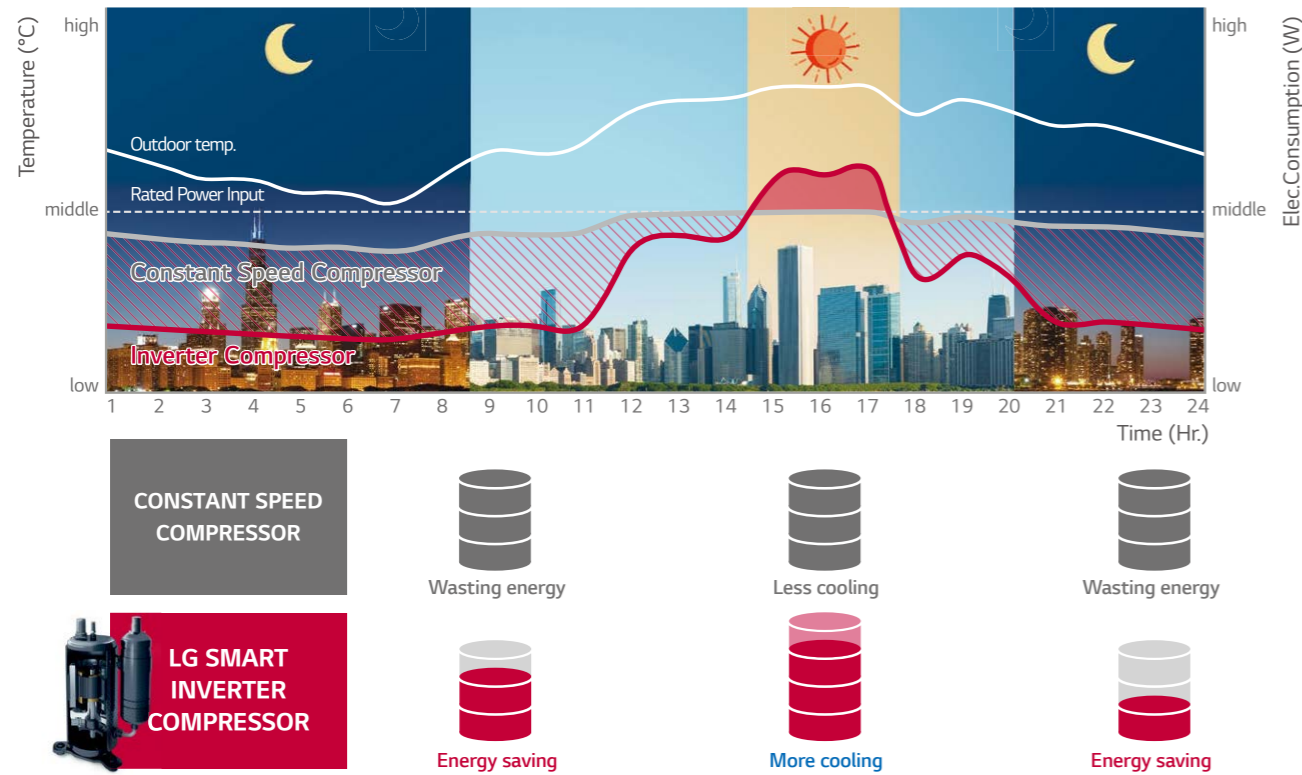
* This mode can be operated when you select "On/Off power saving"

COMMERCIAL

ENERGY SAVING

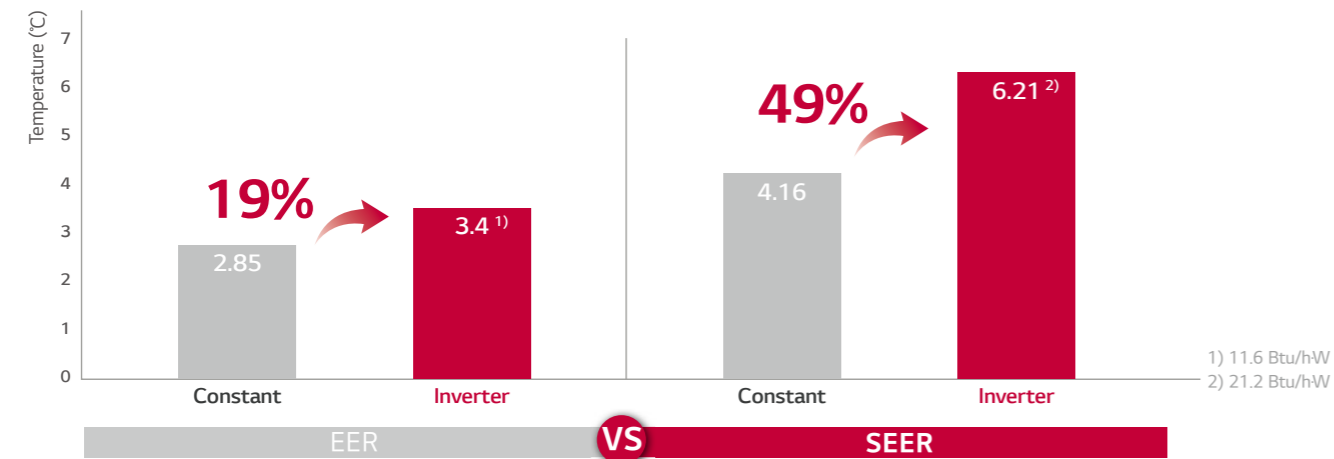
COMFORT

Benefit of Partial Load Performance



EER vs SEER

The difference of EER is very small, but the difference of SEER is much bigger. This means that inverter air conditioner saves annual operation cost a lot more than constant speed air conditioner.



* EER : Indoor Temp. 27°C (DB) / 19°C (WB), Outdoor Temp. 35°C (DB) / 24°C (WB)
* SEER (seasonal energy efficiency ratio) :
- Indoor Temp. 26.7°C (DB) / 19.4°C (WB)
- Outdoor Temp. 35°C / 27.8°C / 30.6°C / 27.8°C / 19.4°C (DB)
* LG internal simulated data

* Model : 4 Way Cassette (48 kBtu/h)
* This result can be different depending on actual environment.

Quick Cooling with Smart Sensor

At the same condition, the inverter reaches the set temperature about 30% faster than the constant speed.

SMART SENSORS

Temperature Sensor

+

Pressure Sensor

Sensing and ready for operation

↓

Quick and reliable operation

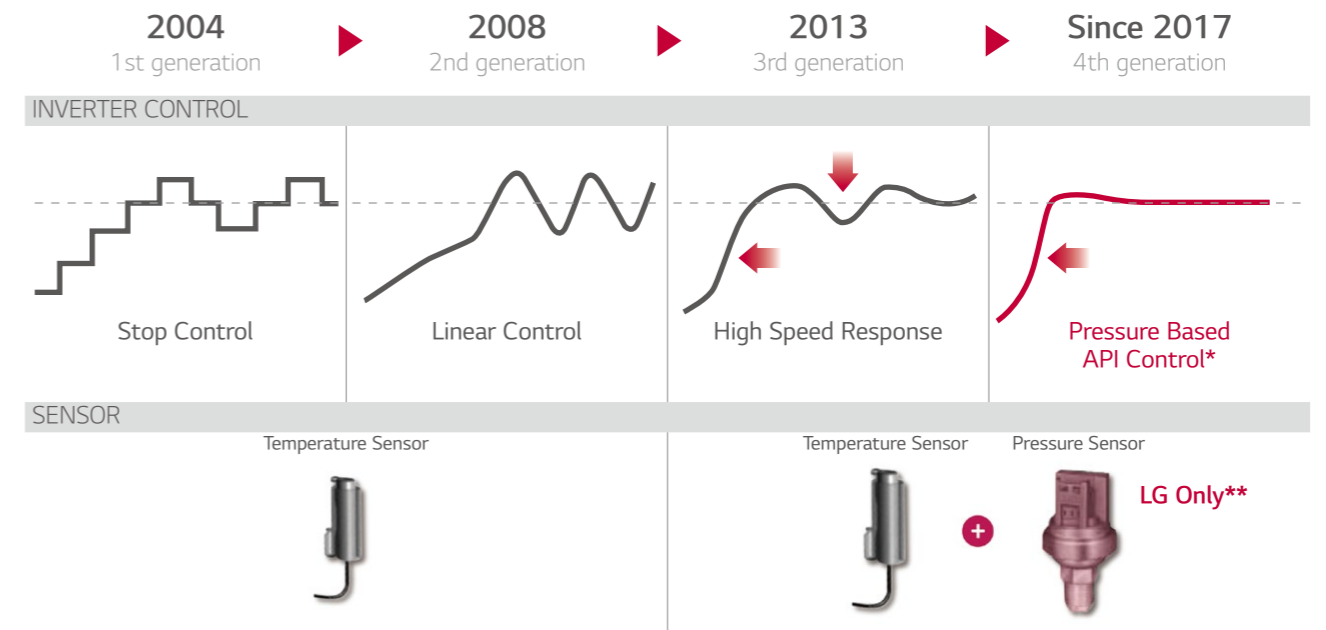
30%

QUICK COOLING

* 30% faster than the constant speed

Inverter Control

Smart sensors make quick and precise cooling possible. (Same sensor with Multi V)

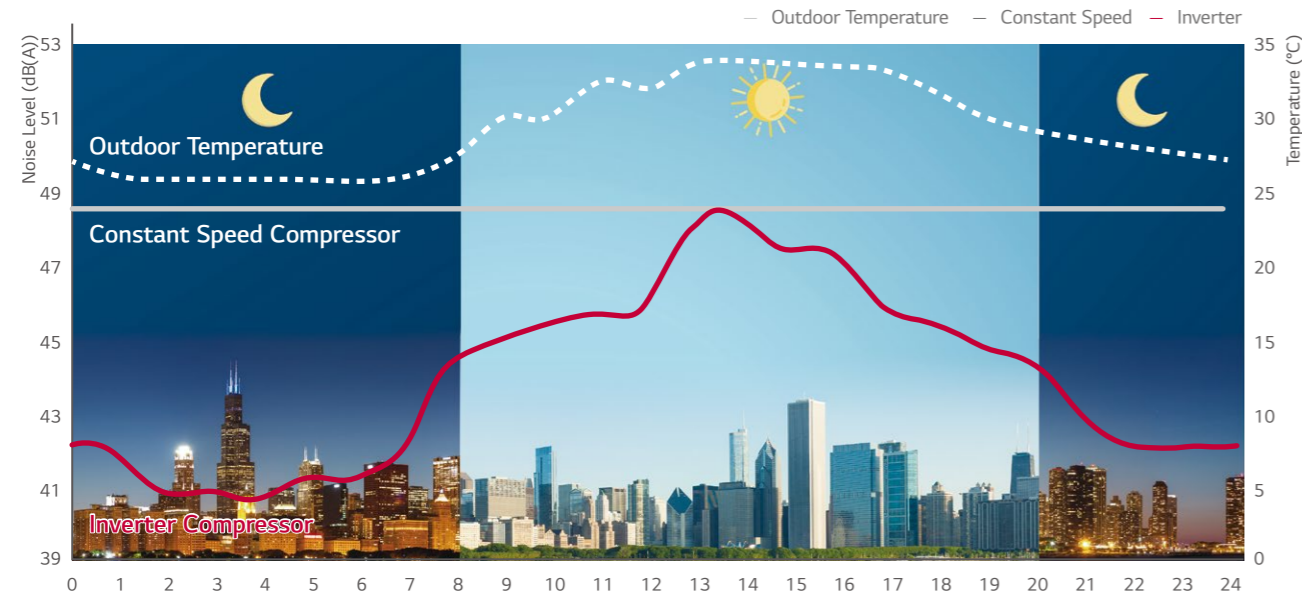


* API Control : Adaptive Proportional Intergrated control.

COMFORT

Low Noise

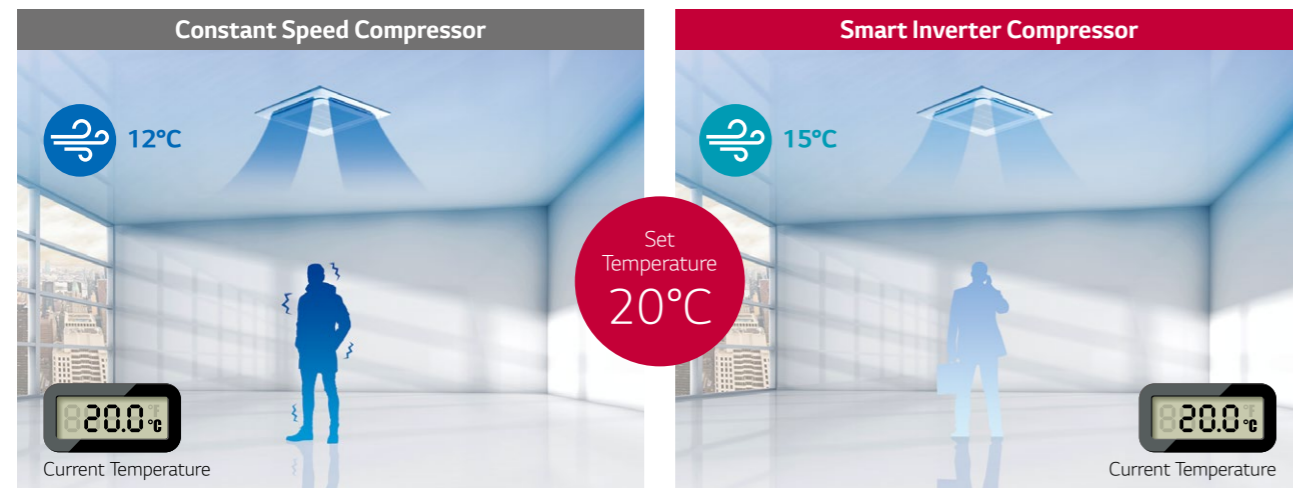
Inverter makes lower noise than constant speed due to adjustable frequency according to the load.



* Noise level in residential environment : 60dB(A) : Normal conversation, 50dB(A) : office, 40dB(A) : Livingroom
 * This result can be different depending on actual environment.
 * The value of noise level is based on "A*UW18G**T2"

Optimum Cooling

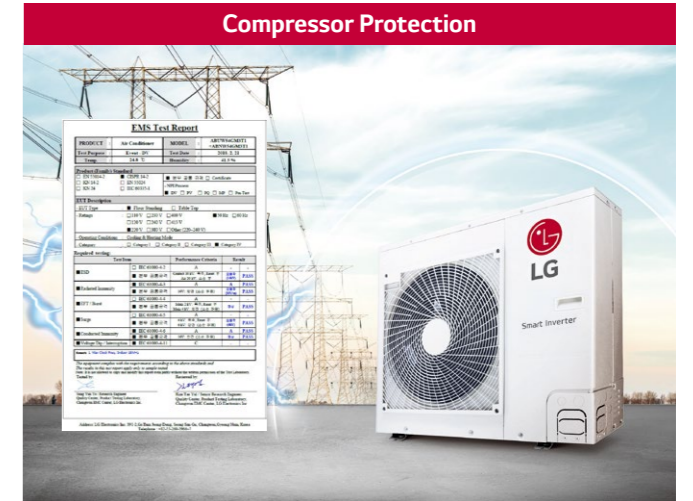
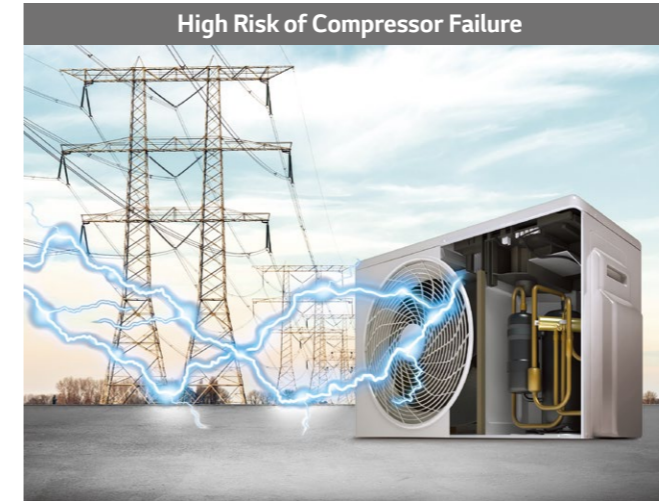
When indoor temperature reaches near to the target temperature, LG Smart Inverter adjusts its discharge air temperature to prevent the indoor from being overcooled.



RELIABILITY

High and Low Voltage Protection

Below low voltage limit, inverter compressor reduces frequency(Hz) and boost DC voltage, over high voltage limit, cuts off the relay to prevent damage of DC capacitor.



Wide Operation Range

Be able to operate at extreme conditions.



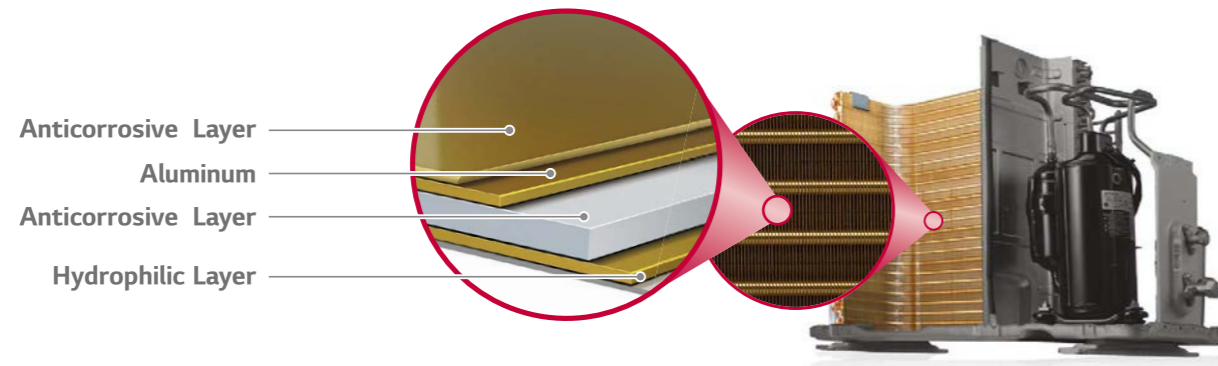
※ Differences of operation range by model type.

RELIABILITY

RELIABILITY

Corrosion Resistant Heat Exchanger

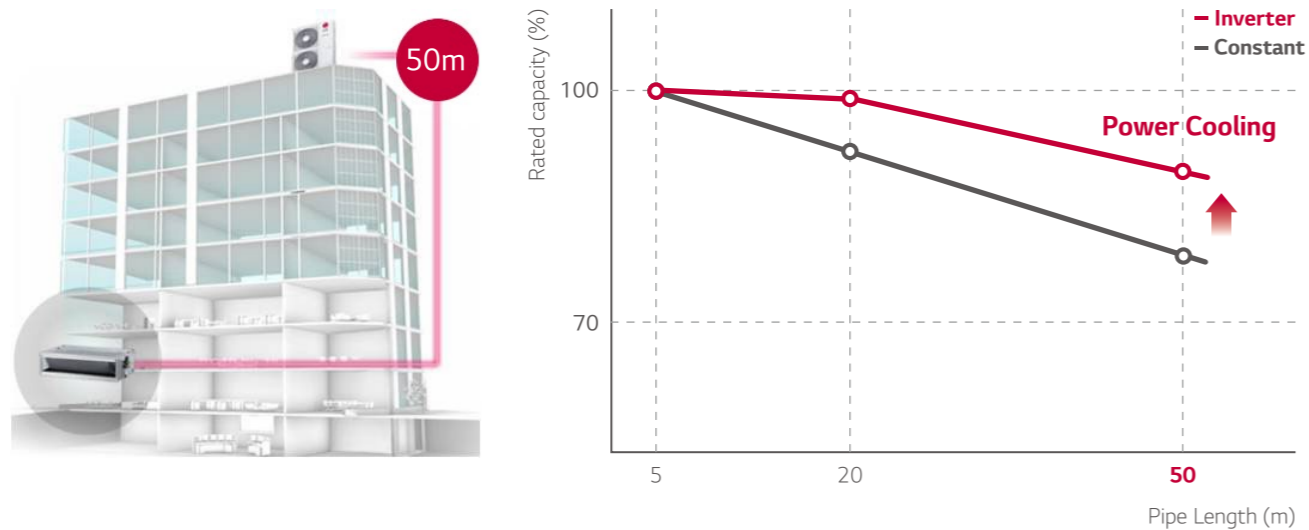
The fin of heat exchanger covered with gold-colored special coating prevents corrosion, extending the lifespan of the unit.



* Only for Tropical models.

Power Cooling at the Long Pipe

It has capacity of 10% higher more than constant model at the 50m pipe length.



* The data is based on the PDB of LG global model.
* Test condition (Temperature): 27 / 35 °C (Indoor / Outdoor)

Detection of Refrigerant Shortage

Detect the refrigerant level continuously and judge if the refrigerant insufficient. If the amount of refrigerant is under 60% in the system, it can check the error display of remote controller and running will be stopped.



Black box for emergency

Quick Service can be done because operation data is saved before system failure.

Without Black Box Function	With Black Box Function
<p>Check many reasons of failure and error codes in person</p> <p>Take much service time and undergo trial and error</p>	<p>Record operation data for Autosave function before system failure!</p> <p>* It can be checked by using SIMs or LG MV</p> <p>Search for a reason of failure easily by using recorded data</p> <p>Save service time and diagnose product more accurately</p>

COMMERCIAL

CONVENIENCE

CONVENIENCE

LG ThinQ

Control your air conditioners via using the smart internet devices such as Android or iOS based smart phones. This advanced technology provides you the best convenience.



Simple operation for various functions



- On / Off
- Mode Selection
- Current temperature
- Set temperature
- Vane Control
- Reservation
- Energy Monitoring
- Filter Management

* Search "LG Smart ThinQ" on Google market or Appstore then download the app.
* Wi-Fi modem (PWFMD200) is required by option.

Access your air conditioner anytime and from anywhere

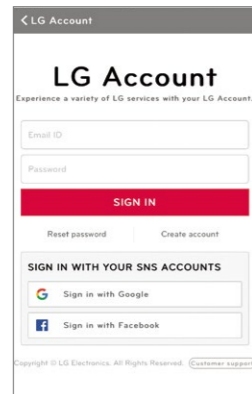


Simple Test Run Via LGMV (Monitoring Viewer)

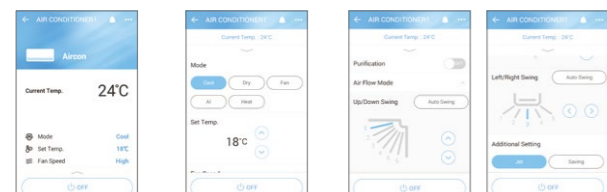
Fast and accurate auto test run can be executed and the professional installer running the test can receive test results via email, which shortens installation hours and increases overall efficiency in installation processes.

Easy Registration and Log-in

Follow the easy set-up steps. It will show LG ThinQ's impressive features.



Simple operation for various functions



On / Off, Current Temp.

Mode, Set Temp.

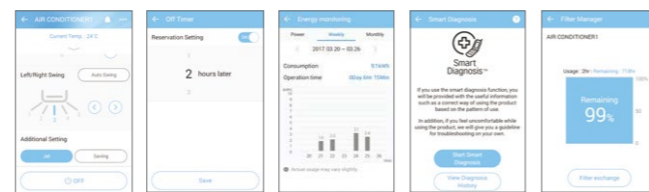
Vane Control

Wi-Fi Connectivity



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

Straight forward Management



Reservation

Energy Monitoring

Smart Diagnosis

Filter Management

Weekly Program

You can set the daily temperature and automatic on/off time for one week. It will keep running depending on that time before the user changes or cancels it.

Week Schedule

	A	B	C	D	E
Monday	✓				
Tuesday	✓	✓		✓	
Wednesday		✓	✓	✓	✓
Thursday		✓	✓		✓
Friday	✓		✓		
Saturday		✓		✓	✓
Sunday				✓	✓

※ Two weekly reservation Max. 14 schedule for a week.



COMMERCIAL

SINGLE SPLIT

- Ceiling Mounted Cassette
- Ceiling Concealed Duct
- Ceiling Suspended
- Single Package



CEILING MOUNTED CASSETTE

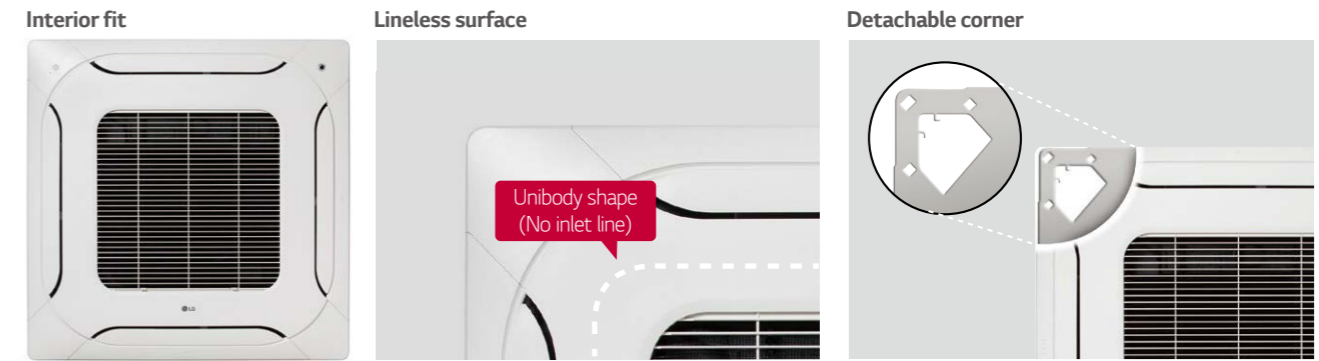


CEILING MOUNTED CASSETTE

COMMERCIAL

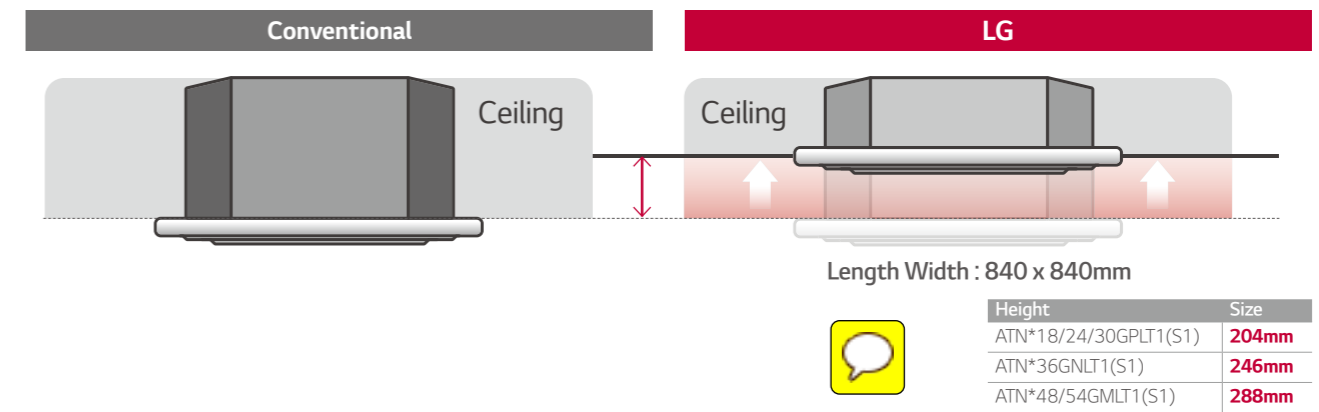
Stylish Design Panel

New 4 way cassette panel adapted a unibody shape that matches with the ceiling.



Compact Size

Slim & compact design not only saves space but also reduces installation costs. It's designed to be suitable for most of building designs and fits into various spaces.



Independent Vane Operation

The independent vane operation feature uses separate motors, making it possible to control all four vanes independently.

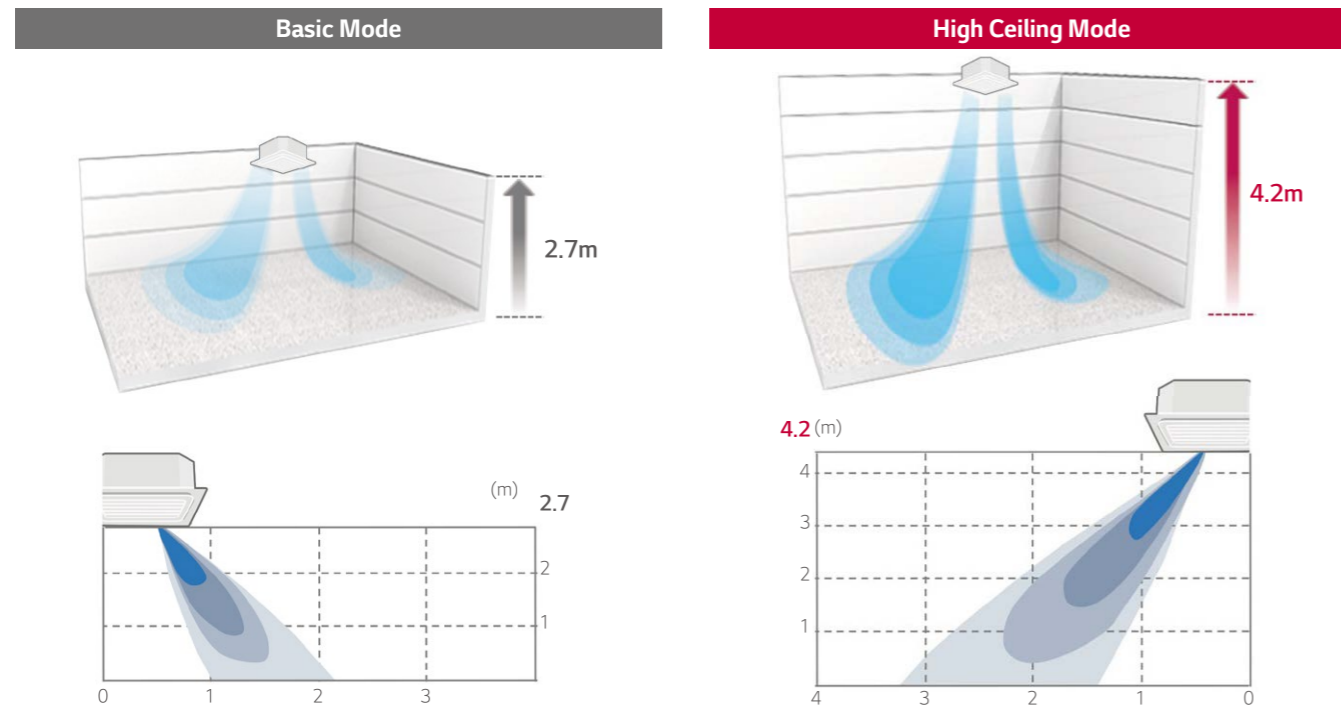


* Wired remote controller PQRCVSL0(QW) applied

CEILING MOUNTED CASSETTE

High Ceiling Mode

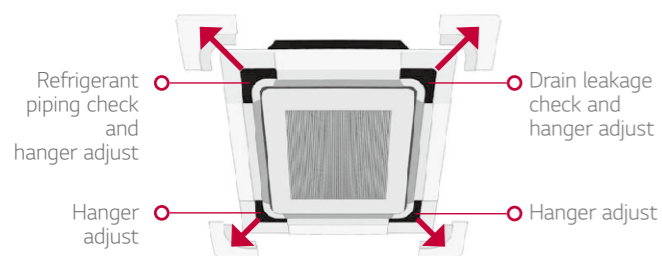
Airflow in a space with a 4.2m ceiling height is available with this indoor unit. Further, air flow can be strengthened by adjusting the fan speed.



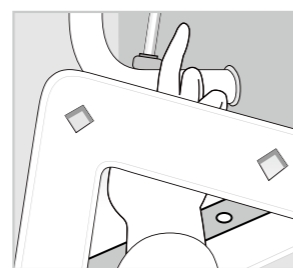
Convenient Panel Installation

The detachable corner design makes it easy to adjust the hanger during installation and to check leakages in the drain connection pipe. It is easy to install the panel to the body, using the button type panel design.

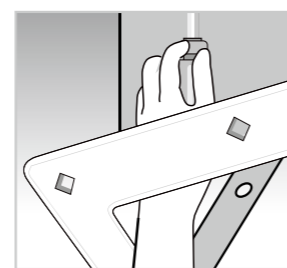
Detachable Corner Design



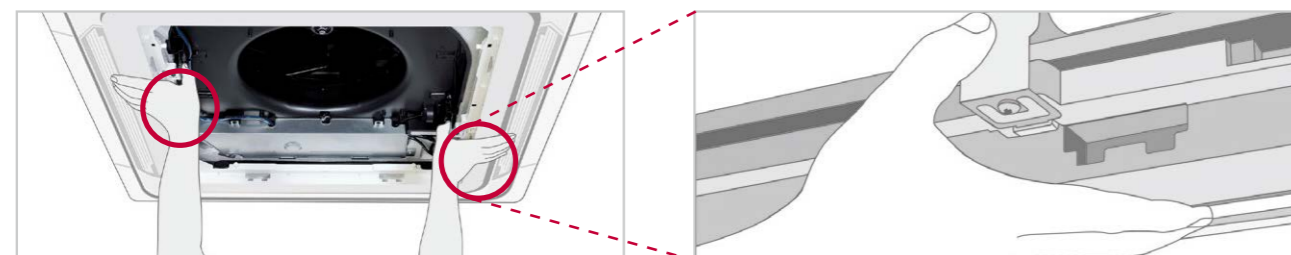
Drain Leakage Check



Hanger Adjust



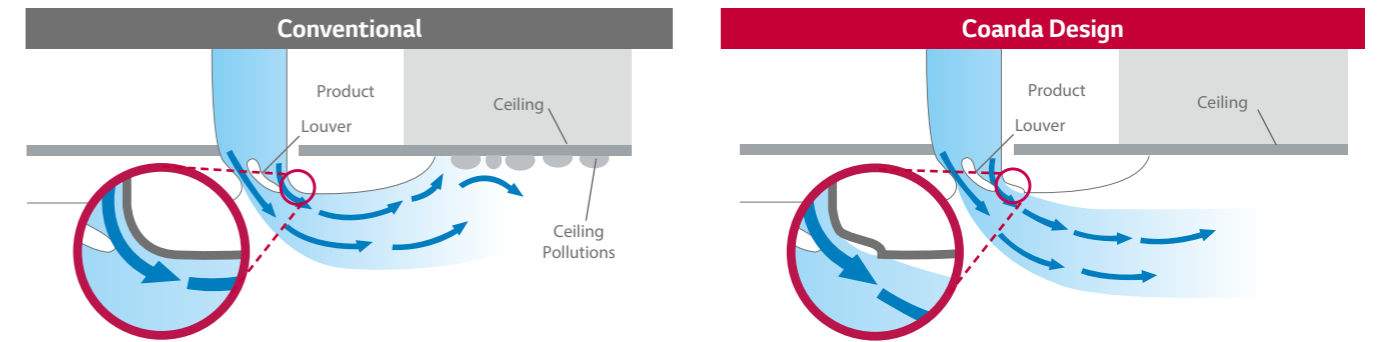
It is easy to install the panel to the body, using the button type panel design.



CEILING MOUNTED CASSETTE

Prevent Ceiling Pollution

Coanda design of air outlet can prevent contamination of ceiling.



Cassette Panel

Key Features

Stylish designed panels make more unique space by various applications.

4 Way Cassette Panel



PT-QCHW0, PT-MCHW0



PT-MCGW0, PT-MPGW0 (Air Purification)

Specification

Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)			Applied model capacity (kW)*					
					W	H	D	MULTI V R410A	Single Split		Multi Split		
4 Way	PT-QCHW0	Grill	Morning Fog (RAL 9001)	-	3.0	620	35	620	1.6 - 6.2	2.5 - 5.0	2.5 - 5.0	1.5 - 5.3	1.5 - 5.3
	PT-MCHW0	Grill	Morning Fog (RAL 9001)	-	6.3	950	35	950	7.1 - 15.8	6.8 - 14.6	6.8 - 14.6	6.7	-
	PT-MCGW0	Grill	Morning Fog (RAL 9001)	-	5.0	950	35	950	7.1 - 15.8	6.8 - 14.6	6.8 - 14.6	6.7	6.7
	PT-MPGW0 (Air Purify)	Grill	Morning Fog (RAL 9001)	-	5.0	950	35	950	7.1 - 15.8	6.8 - 14.6	6.8 - 14.6	6.7	6.7

CEILING MOUNTED CASSETTE

CEILING MOUNTED CASSETTE



Combination	Outdoor unit		Unit	UU18WC	UU24WC
	Indoor unit			UT18WC	UT24WC
Capacity	Cooling ¹	Min. - Rated - Max	kW	1.8 - 5.2 - 5.5	2.8 - 7.0 - 8.1
		Min. - Rated - Max	Btu/h	6,100 - 17,700 - 18,800	9,600 - 23,900 - 27,600
	Cooling ²	Rated	kW	4.20	5.75
		Rated	Btu/h	14,300	19,600
Heating	Min. - Rated - Max	kW	1.9 - 5.3 - 5.8	3.0 - 7.6 - 8.6	
	Min. - Rated - Max	Btu/h	6,500 - 18,100 - 19,800	10,200 - 25,900 - 29,300	
Power Input	Cooling ¹	Rated	kW	1,620.00	2,325.00
	Cooling ²	Rated	kW	1,750.00	2,600.00
	Heating	Rated	kW	1,560.00	2,235.00
EER / COP	Cooling ¹ / Heating		W / W	3.21 / 3.41	3.01 / 3.40
Outdoor Unit				UU18WC	UU24WC
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
Power Supply Cable (included Earth)			No x mm ² (AWG)	3C x 2.5 (12)	3C x 2.5 (12)
Casing Color				Warm Gray	Warm Gray
Dimensions		W x H x D	mm	770 x 545 x 288	870 x 650 x 330
Net Weight		Body	kg (lbs)	35.5 (78.3)	44.8 (98.8)
Compressor	Type			Twin Rotary	Twin Rotary
Refrigerant	Type			R410A	R410A
Fan Motor	Type			BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	53	55
	Heating	Rated	dB(A)	54	56
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Length		Max.	m (ft)	25 (82.0)	30 (98.4)
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m (ft)	15 (49.2)	30 (98.4)
Indoor			Unit	UT18WC	UT24WC
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
Dimensions	Body	W x H x D	mm	840 x 204 x 840	840 x 204 x 840
Net Weight			kg (lbs)	21 (46.3)	21 (46.3)
Air Flow Rate		H / M / L	m ³ /min	16.5 / 14.5 / 13.0	17.0 / 15.0 / 13.0
Fan Motor	Type			BLDC	BLDC
Sound Pressure Level	Cooling	H / M / L	dB(A)	38 / 36 / 34	40 / 38 / 36
	Heating	H / M / L	dB(A)	38 / 36 / 34	40 / 38 / 36
Safety Devices				Fuse	Fuse

UU30WC	UU36WC	UU49WC1	UU61WC1
UT30WC	UT36WC	UT48WC	UT60WC
3.0 - 7.8 - 8.4	4.0 - 10.5 - 11.0	5.6 - 14.0 - 15.0	6.0 - 15.0 - 16.0
10,200 - 26,600 - 28,700	13,600 - 35,800 - 37,500	19,100 - 47,800 - 51,200	20,500 - 51,200 - 54,600
6.40	8.70	12.10	12.40
21,800	29,700	41,300	42,300
3.2 - 8.4 - 8.8	4.3 - 11.2 - 11.7	6.1 - 15.3 - 16.5	6.8 - 16.9 - 18.2
10,900 - 28,700 - 30,000	14,700 - 38,200 - 39,900	20,800 - 52,200 - 56,300	23,200 - 57,700 - 62,100
2,590.00	3,490.00	4,380.00	4,950.00
3,150.00	3,500.00	5,140.00	5,250.00
2,770.00	3,190.00	4,490.00	5,450.00
3.01 / 3.01	3.00 / 3.51	3.20 / 3.41	3.03 / 3.10
UU30WC	UU36WC	UU49WC1	UU61WC1
220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
3C x 2.5 (12)	3C x 2.5 (12)	3C x 6.0 (10)	3C x 6.0 (10)
Warm Gray	Warm Gray	Warm Gray	Warm Gray
870 x 650 x 330	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
44.8 (98.8)	58.0 (127.9)	90.0 (198.4)	90.0 (198.4)
Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
R410A	R410A	R410A	R410A
BLDC	BLDC	BLDC	BLDC
55	56	55	55
56	58	57	57
Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
30 (98.4)	40 (131.2)	50 (164.0)	50 (164.0)
30 (98.4)	30 (98.4)	30 (98.4)	30 (98.4)
UT30WC	UT36WC	UT48WC	UT60WC
220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
840 x 204 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
21 (46.3)	28 (61.7)	28 (61.7)	28 (61.7)
19.0 / 17.0 / 15.0	28.5 / 24.5 / 21.0	32.0 / 30.0 / 27.5	32.0 / 30.0 / 27.5
BLDC	BLDC	BLDC	BLDC
42 / 39 / 37	48 / 46 / 44	52 / 51 / 48	52 / 51 / 48
42 / 39 / 37	48 / 46 / 44	52 / 51 / 48	52 / 51 / 48
Fuse	Fuse	Fuse	Fuse

Notes
 - Cooling¹ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB
 - Cooling² : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

CEILING CONCEALED DUCT

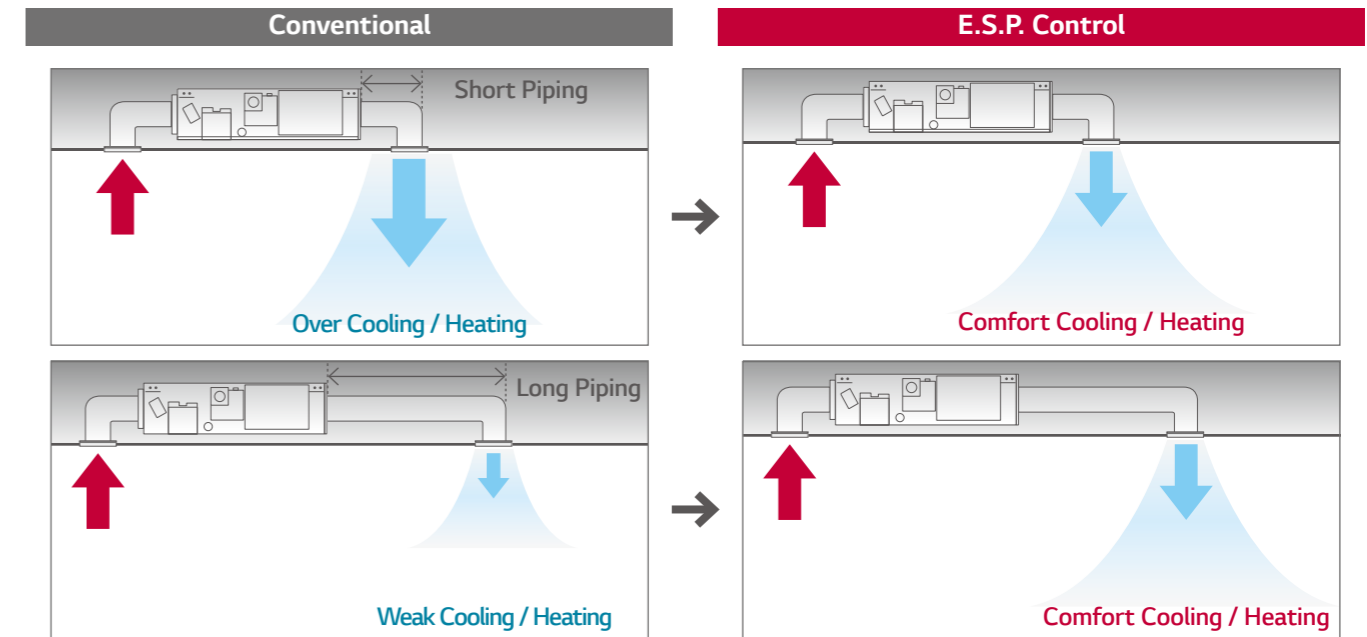


CEILING CONCEALED DUCT

COMMERCIAL

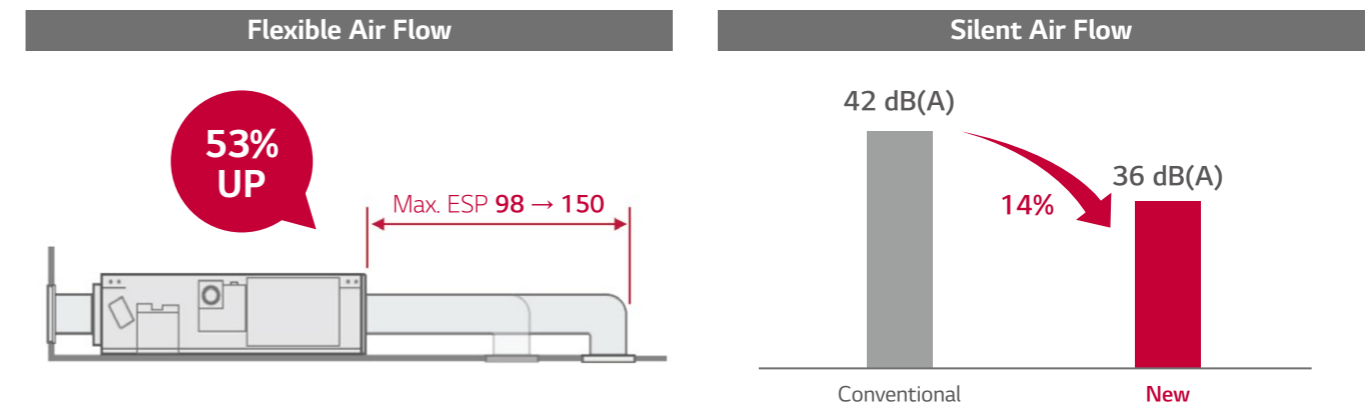
E.S.P. (External Static Pressure) Control

This function easily controls volume of the air by a remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. Additional accessories are not required to control air flow.



Maximized E.S.P. (External Static Pressure)

With new indoor tool, connectable duct length is more longer than current running unit because the maximum E.S.P. is improved. Noise level also decreased about 14%



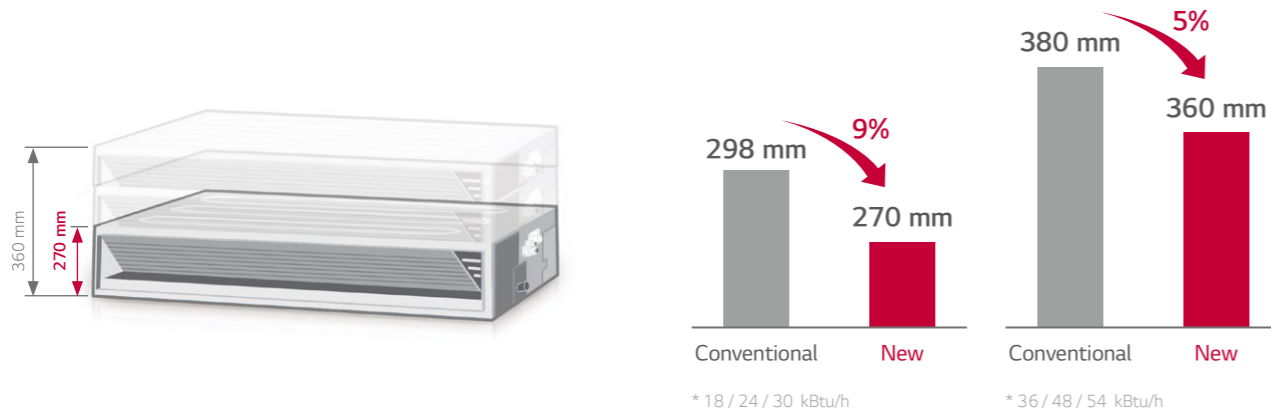
* Model : 36 kBtu/h (ABN*36GM3T1)

CEILING CONCEALED DUCT

CEILING CONCEALED DUCT

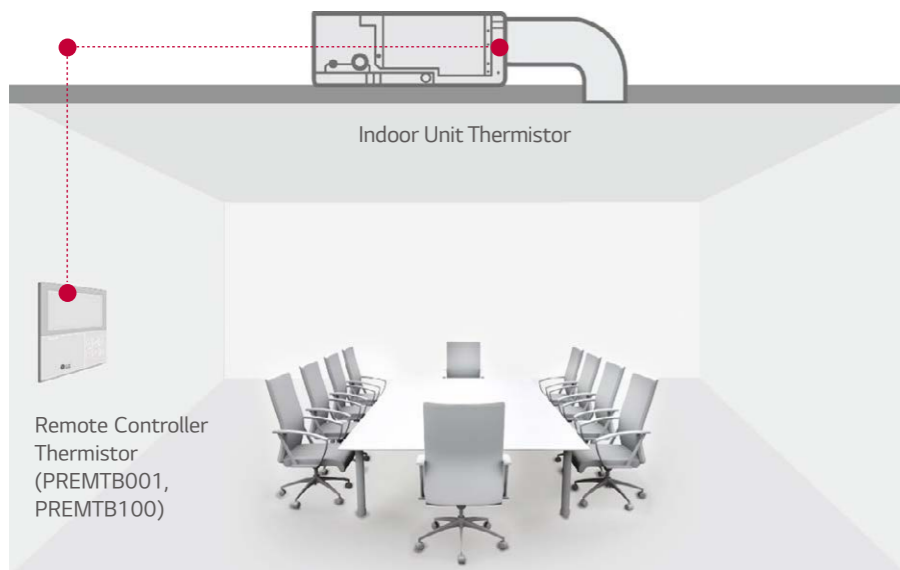
Minimized Height

New mid-static ducts provide ideal solution for installation in limited space.



Two Thermistors Control

The indoor temperature can be measured using the thermistors in the remote controller as well as in the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



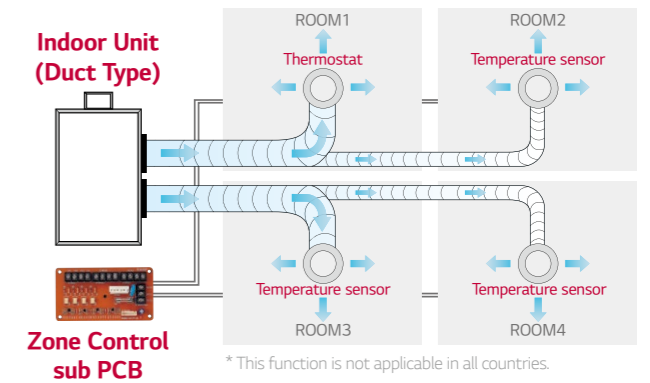
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users

Operation for Multiple Rooms

Using a spiral duct (Embedded or flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously. Also, zone control is available with zone controller accessory (ABZCA)

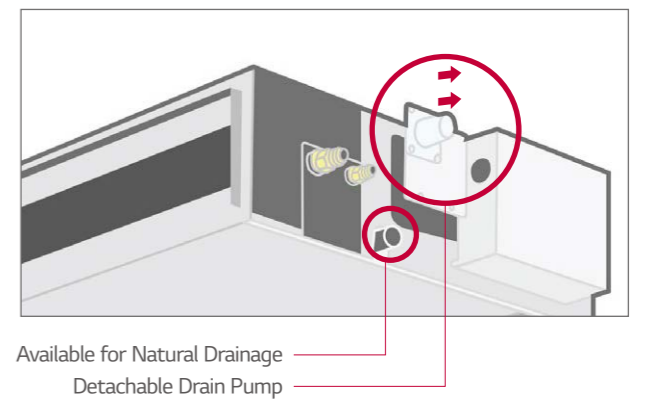
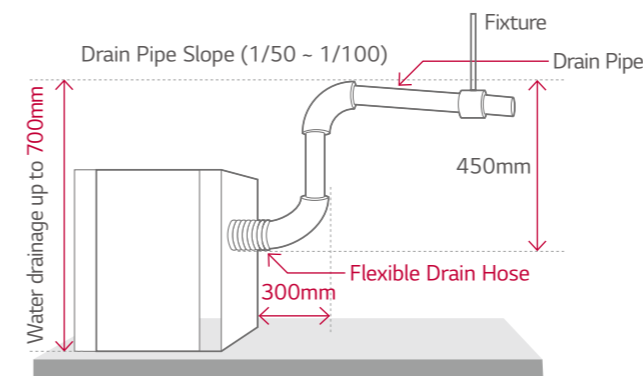
Zone control features

- Controls different zones (up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation



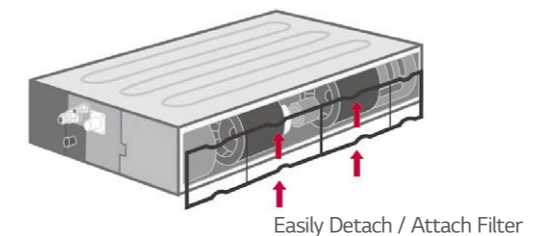
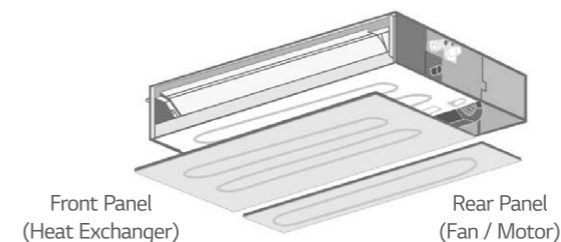
High Head Drain Pump

High head drain pump automatically drains water up to a height of 200mm of drain-head height. It provides the perfect solution for draining of water. (Standard Inverter : Accessory (ABDPG) / Low-Static Duct : Included)



Easy Service & Maintenance

Users are not required to disassemble the whole panel for maintenance; since panel is divided into 2 components; one for heat exchanger and the other for fan/motor. Users can easily detach and re-attach the filter in the available limited space.



CEILING CONCEALED DUCT

CEILING CONCEALED DUCT

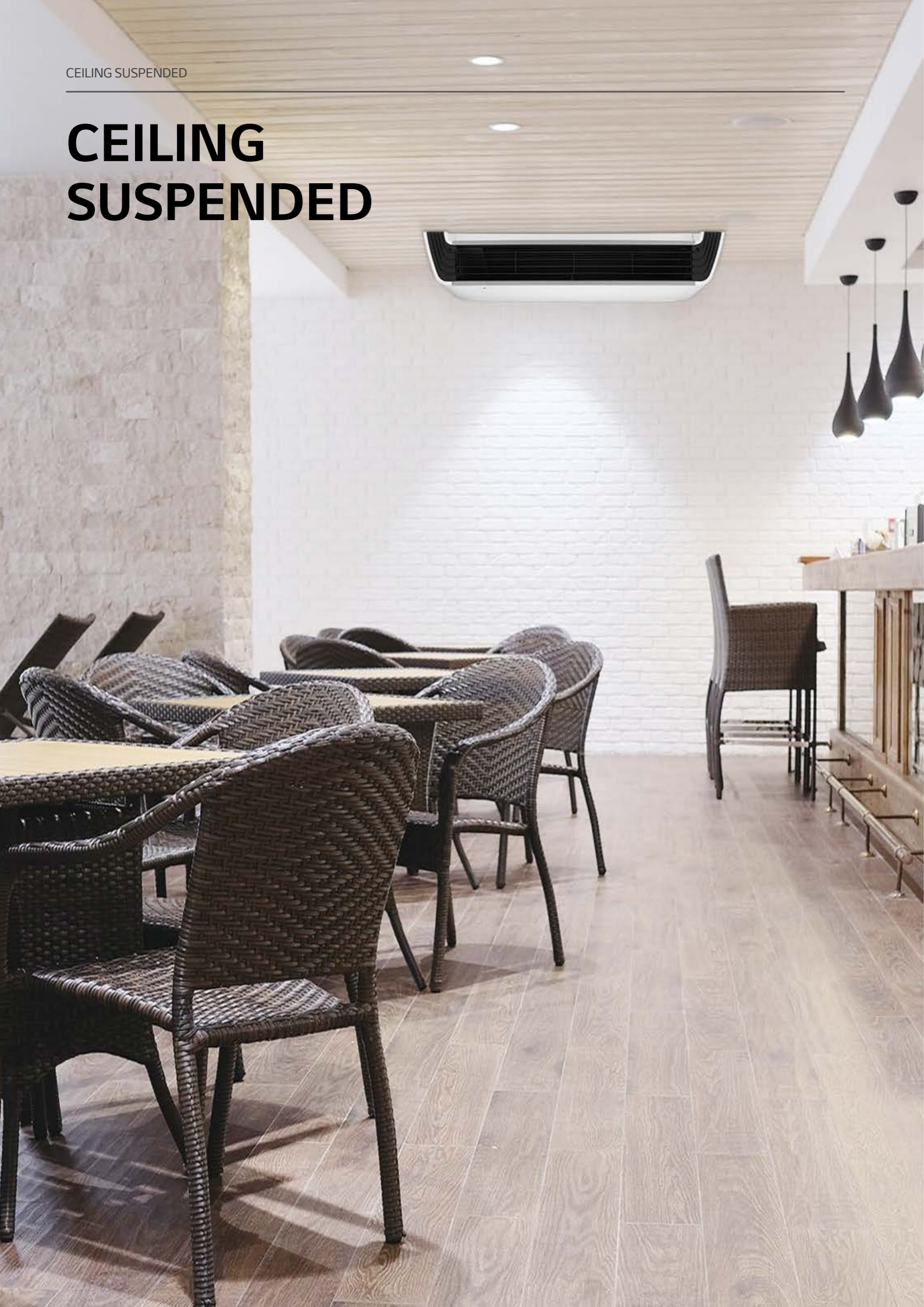


Combination	Outdoor unit		Unit	UU18WC	UU24WC
	Indoor unit			UM18WC	UM24WC
Cooling Capacity ¹⁾	Min. - Rated - Max.	-	kW	1.8 - 5.2 - 5.5	2.8 - 7.0 - 8.1
			Btu/h	6,100 - 17,700 - 18,800	9,600 - 23,900 - 27,600
Cooling Capacity ²⁾	Min. - Rated - Max.	-	kW	4.20	5.75
			Btu/h	14,300	19,600
Heating Capacity ¹⁾	Min. - Rated - Max.	-	kW	1.9 - 5.3 - 6.1	3.0 - 7.6 - 8.7
			Btu/h	6,500 - 18,100 - 20,800	10,200 - 25,900 - 29,700
Power Input	Cooling ¹⁾	Rated	kW	1700	2325
	Cooling ²⁾	Rated	kW	1750	2650
	Heating ¹⁾	Rated	kW	1650	2300
EER / COP			W/W	3.06 / 3.21	3.01 / 3.30
Outdoor			Unit	UU18WC	UU24WC
Power Supply	V, Ø, Hz			220-240, 1, 50	220-240, 1, 50
Power Supply Cable (included Earth)	No. x mm ²			3C x 2.5 (12)	3C x 2.5 (12)
Casing Color				Warm Gray	Warm Gray
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330
Weight	Net		kg	35.5 (78.3)	44.8 (98.8)
Compressor	Type			Twin Rotary	Twin Rotary
Refrigerant	Type			R410A	R410A
Fan	Air Flow Rate	Rated	m ³ /min x No	Propeller	Propeller
Fan Motor	Type			28 x 1	50 x 1
Sound Pressure Level	Cooling	Rated	dB(A)	BLDC	BLDC
	Heating	Rated	dB(A)	53	55
Piping Connections	Liquid	Outer Dia.	mm (inch)	54	56
	Gas	Outer Dia.	mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
Piping Length	Rated		m	Ø 12.7 (1/2)	Ø 15.88 (5/8)
	Max.		m	25 (82.0)	30 (98.4)
Maximum Height Difference (ODU - IDU)	Max.		m	15 (49.2)	30 (98.4)
Indoor			Unit	UM18WC	UM24WC
Type				Ceiling Concealed Duct-Mid. Pressure	
Power Supply	V, Ø, Hz			220-240, 1, 50	220-240, 1, 50
Dimensions	Net	W x H x D	mm	900 x 270 x 700	900 x 270 x 700
Weight	Net		kg	23.8 (52.5)	24.2 (53.4)
Fan Motor	Type			BLDC	BLDC
External static pressure	High Mode_Factory Set		Pa (mmAq)	58.8 (6)	58.8 (6)
Safety Device				Fuse	Fuse
Sound Pressure Level	Cooling	H / M / L	dB(A)	36 / 34 / 32	37 / 36 / 34
	Heating		dB(A)	36 / 34 / 32	37 / 36 / 34

UU30WC	UU36WC	UU49WC1	UU61WC1
UM30WC	UM36WC	UM48WC	UM60WC
3.0 - 7.8 - 8.5	3.6 - 9.5 - 10.5	5.6 - 14.1 - 15.1	6.3 - 15.6 - 16.8
10,200 - 26,600 - 29,000	12,300 - 32,400 - 35,800	19,100 - 48,100 - 51,500	21,500 - 53,200 - 57,300
6.50	7.80	12.00	13.40
22,200	26,600	40,900	45,700
3.2 - 8.0 - 9.0	4.0 - 10.5 - 11.5	6.3 - 15.8 - 16.8	6.8 - 17 - 18.2
10,900 - 28,700 - 30,700	13,600 - 35,800 - 39,200	21,500 - 53,900 - 57,300	23,200 - 58,000 - 62,100
2590	3155	4390	5190
3150	3160	4850	5690
2650	3080	4630	4860
3.01 / 3.01	3.01 / 3.41	3.21 / 3.41	3.01 / 3.50
UU30WC	UU36WC	UU49WC1	UU61WC1
220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	380-415, 3, 50
3C x 2.5 (12)	3C x 2.5 (12)	3C x 6.0 (10)	5C x 2.5 (12)
Warm Gray	Warm Gray	Warm Gray	Warm Gray
870 x 650 x 330	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
44.8 (98.8)	58.0 (127.9)	90.0 (198.4)	90.0 (198.4)
Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
R410A	R410A	R410A	R410A
Propeller	Propeller	Propeller	Propeller
50 x 1	58 x 1	58 x 2	58 x 2
BLDC	BLDC	BLDC	BLDC
55	56	55	55
56	58	57	57
Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
30 (98.4)	40 (131.2)	50 (164.0)	50 (164.0)
30 (98.4)	30 (98.4)	30 (98.4)	30 (98.4)
UM30WC	UM36WC	UM48WC	UM60WC
Ceiling Concealed Duct-Mid. Pressure			
220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
900 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
25.3 (55.8)	36.0 (79.4)	42.3 (93.3)	42.3 (93.3)
BLDC	BLDC	BLDC	BLDC
58.8 (6)	58.8 (6)	58.8 (6)	58.8 (6)
Fuse	Fuse	Fuse	Fuse
39 / 37 / 36	38 / 36 / 35	41 / 39 / 37	44 / 42 / 41
39 / 37 / 36	38 / 36 / 35	41 / 39 / 37	44 / 42 / 41

Notes
 - Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB
 - Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

CEILING SUSPENDED



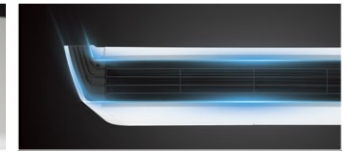
CEILING SUSPENDED

IF Winning Design

With its stunning V-shaped design and black vane, LG's new ceiling-suspended air conditioner exudes modern elegance which is appropriate for any space.



Black Vane

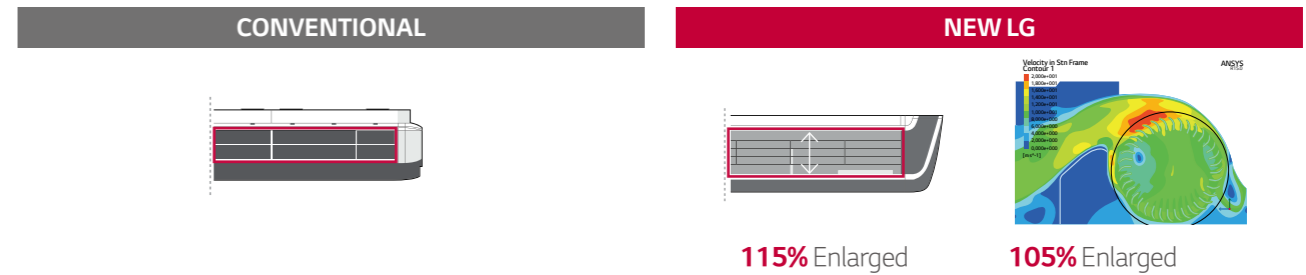


V-Shaped Design

COMMERCIAL

Large Capacity

An enlarged outlet space optimized the air flow path and improved heat exchanger's performance. Its 30 percent faster cooling enables quick & wide cooling.



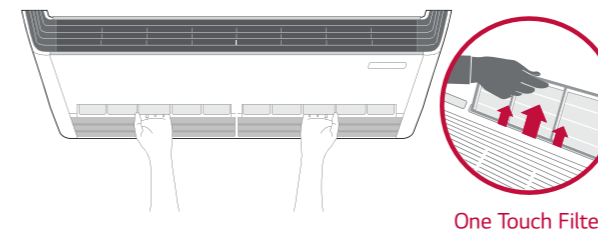
15m Long Air Flow

The powerful air speed and high volume features enhance the flow of air, and it reaches up to 15m away from the air conditioner.



One Touch Filter Changing

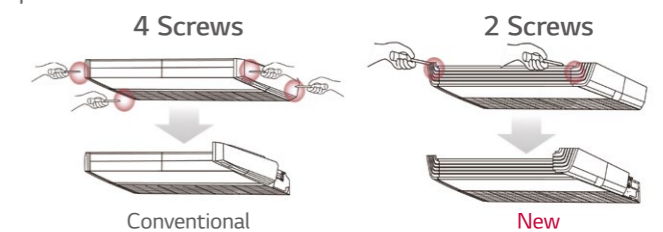
An easy In / Out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.



One Touch Filter

Easy Installation

Installation speed and ease are improved by reducing the total number of screws and placing them on the easily accessible front panel.



Conventional

New

CEILING SUSPENDED

CEILING SUSPENDED



COMMERCIAL

Combination	Outdoor unit	Unit	UU36WC
	Indoor unit		UV36WC
Power Supply	Φ, Voltage, Hz	-	1,220-240,50
Capacity	Cooling*	Rated	kW 4.00 - 8.49 - 10.30
		Rated	Btu/h 13,600 - 29,000 - 35,000
	Heating	Min. - Rated - Max.	kW 4.30 - 10.00 - 11.70
		Min. - Rated - Max.	Btu/h 14,700 - 34,000 - 39,900
Power Input	Cooling*	Rated	W 2,710
	Heating*	Rated	W 3,050
EER / COP		W/W	3.24 / 3.28
Outdoor		Unit	UU36WC
Power Supply		V, Ø, Hz	220-240, 1, 50
Power Supply Cable (included Earth)		No. x mm ²	3C x 2.5 (12)
Casing Color			Warm Gray
Dimensions	Net	W x H x D	mm 950 x 834 x 330
Net Weight			kg 58.0 (127.9)
Compressor	Type		Twin Rotary
Refrigerant	Type		R410A
Fan	Air Flow Rate	Rated	m ³ /min x No. 58 x 1
Fan Motor	Type		BLDC
Sound Pressure Level	Cooling	Rated	dB(A) 56
	Heating	Rated	dB(A) 58
Piping Connections	Liquid	Outer Dia.	mm (inch) Ø 9.52 (3/8)
	Gas	Outer Dia.	mm (inch) Ø 15.88 (5/8)
Piping Length		Max.	m 40 (131.2)
Maximum Height Difference (ODU - IDU)		Max.	m 30 (98.4)
Indoor		Unit	UV36WC
Power Supply		V, Ø, Hz	220-240, 1, 50/60
Dimensions	Body	W x H x D	mm 1,200 x 235 x 690
Net Weight			kg (lbs) 28.0 (61.7)
Fan	Air Flow Rate	H / M / L	m ³ /min 20.0 / 18.0 / 16.0
Fan Motor	Type		BLDC
External static pressure	High Mode_Factory Set		58.8 (6)
Sound Pressure Level	Cooling	Rated	dB(A) 47 / 45 / 42
	Heating	Rated	dB(A) 47 / 45 / 42

Notes
 - Cooling¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB
 - Cooling²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

	UU49WC1	UU61WC1
	UV48WC	UV60WC
	3,380-415,50	3,380-415,50
	5.60 - 13.78 - 14.70	6.00 - 15.20 - 16.70
	19,100 - 47,000 - 50,000	20,500 - 52,000 - 57,000
	6.10 - 15.30 - 16.50	6.80 - 17.00 - 18.20
	20,800 - 52,210 - 56,300	23,200 - 58,000 - 62,100
	4,250	5,010
	4,490	5,150
	3.24 / 3.41	3.03 / 3.30
UU49WC1		UU61WC1
	220-240, 1, 50	220-240, 1, 50
	3C x 2.5 (12)	3C x 2.5 (12)
	Warm Gray	Warm Gray
	870 x 650 x 330	870 x 650 x 330
	44.8 (98.8)	44.8 (98.8)
	Twin Rotary	Twin Rotary
	R410A	R410A
	58 x 2	58 x 2
	BLDC	BLDC
	55	55
	57	57
	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Ø 19.05 (3/4)	Ø 19.05 (3/4)
	50 (164.0)	50 (164.0)
	30 (98.4)	30 (98.4)
UV48WC		UV60WC
	220-240, 1, 50/60	220-240, 1, 50/60
	1,600 x 235 x 690	1,600 x 235 x 690
	35.0 (77.2)	35.0 (77.2)
	30.0 / 25.0 / 20.0	30.0 / 25.0 / 20.0
	BLDC	BLDC
	58.8 (6)	58.8 (6)
	50 / 46 / 42	50 / 46 / 42
	50 / 46 / 42	50 / 46 / 42

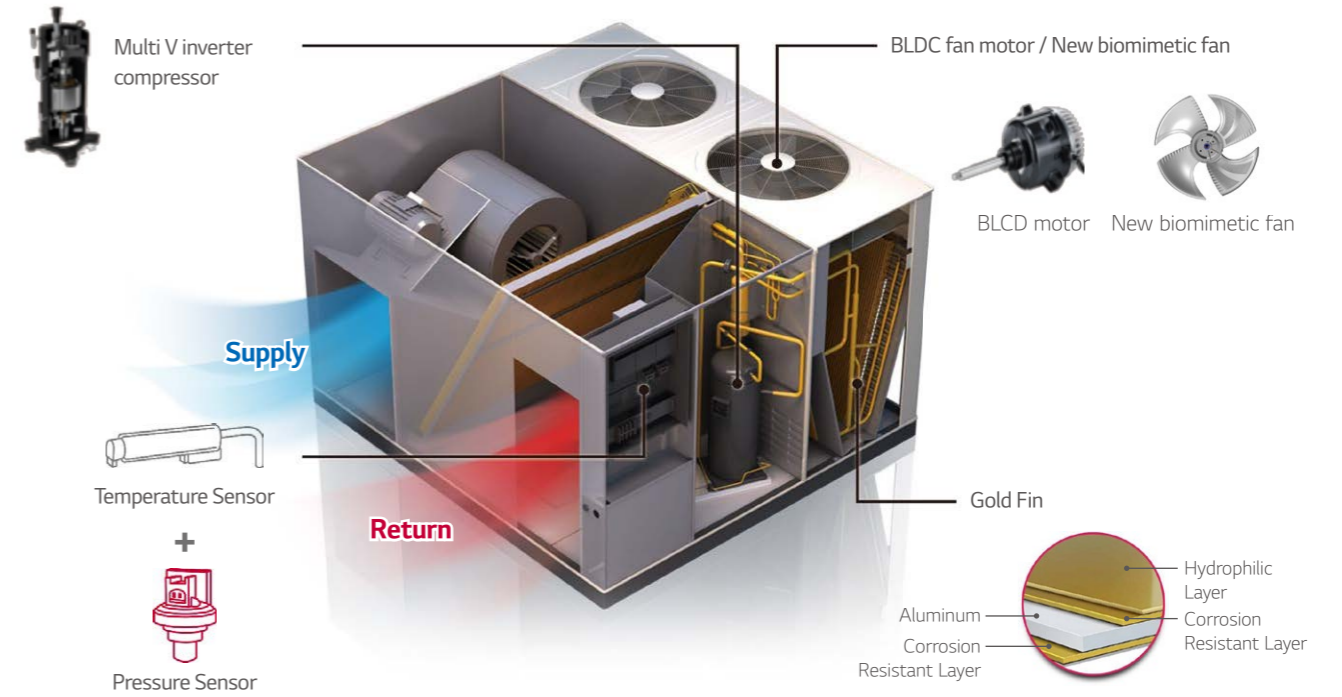
SINGLE PACKAGE



SINGLE PACKAGE

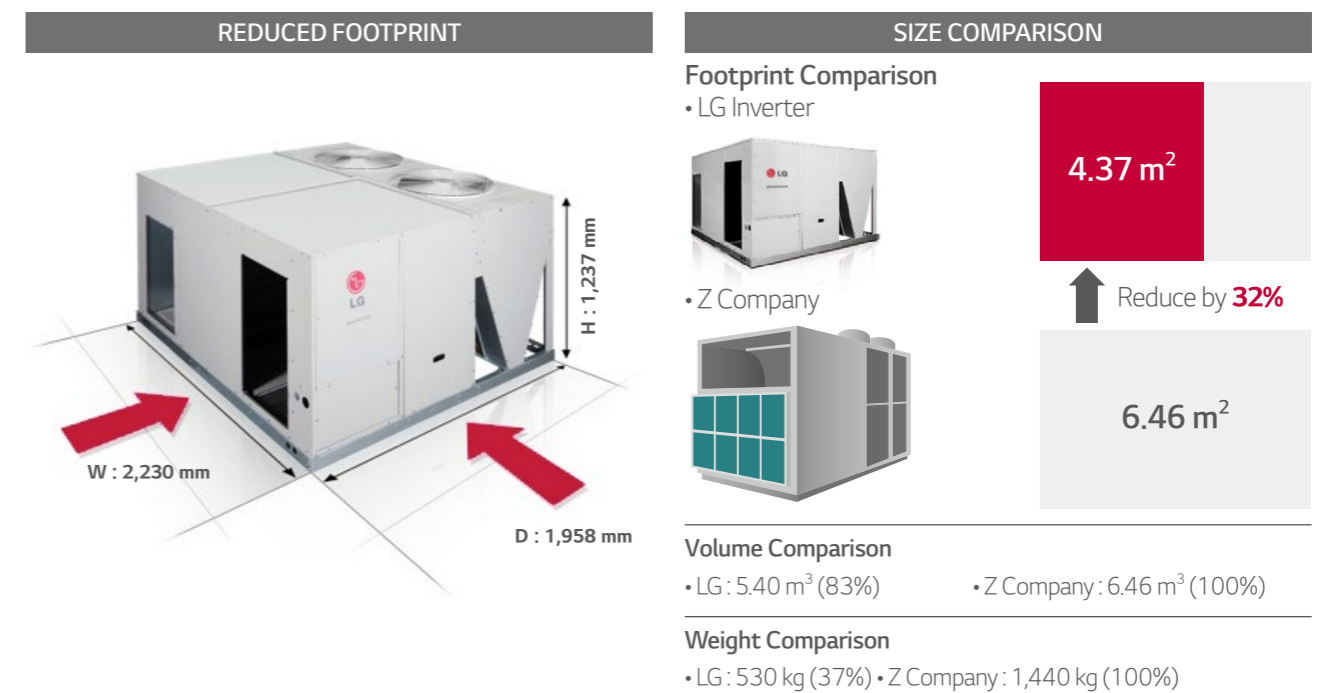
Advanced key components for High energy efficiency

High energy efficiency with LG's cutting-edge core components and Inverter leading technology.



Compact Size

Easy transportation and less space for installation.



SINGLE PACKAGE

Reliable Performance

Field tests in extreme (tropical) conditions are being conducted without failure over a year.

F/Test check list

LG MV Data

Installation Site 1

- Location : Riyadh, Saudi Arabia
- Application : Factory (warehouse)
- Operation period : 23rd April 2012 -
- Capacity : 12.5RT
- Power : 3phase 380V 60Hz

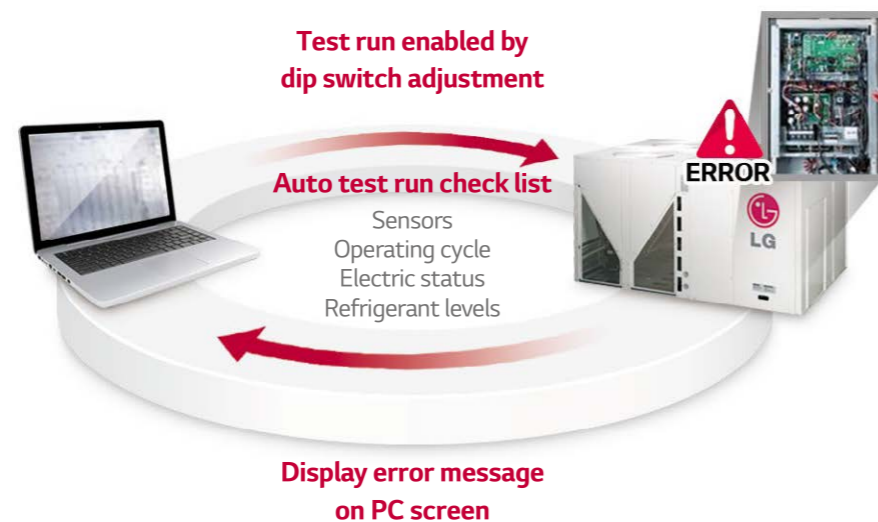
Installation Site 2

- Location : Dubai, UAE
- Application : Mosque (roof)
- Operation period : 8th April 2012 -
- Capacity : 12.5RT
- Power : 3phase 400V 50Hz

※ Structure / Performance / Noise / Installation / Dew formation.....

Automatic Test Run

Easy and fast automatic test run saves time during the final stage of installation.

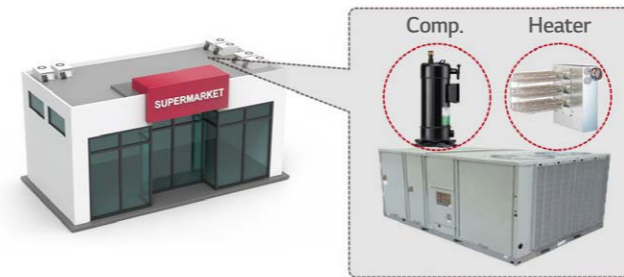


Initial Cost Saving

Reduce customer's initial cost through a heat pump system.

CONVENTIONAL (COOLING ONLY UNIT + ELECTRIC HEATER)

- Because of a electric heater, it requires to increase the electrical capacity of the entire building.



* Only be adapted for Heat Pump model.

LG SINGLE PACKAGE (HEAT PUMP)

- Reduce the electrical capacity of the entire building. Customers can save the cost.



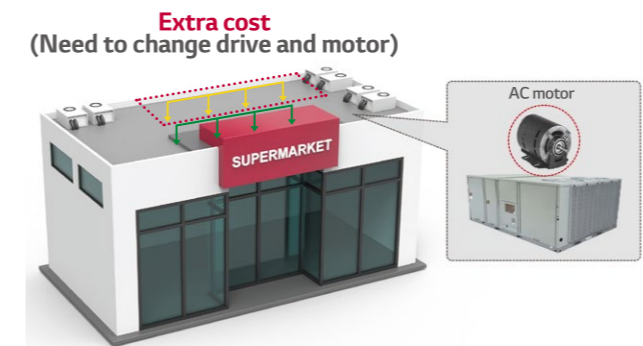
* T com: TH*300 - MCA : 102A MFA : 110A
* LG: AK-W300DC00 - MCA : 69A MFA : 80A

LG Plug Fan and Inverter Motor

Be able to operate high static pressure condition without extra cost.

CONVENTIONAL (AC MOTOR)

- To cover whole space, it needs to change high static drive and motor with extra cost.
- 7.5 HP AC motor



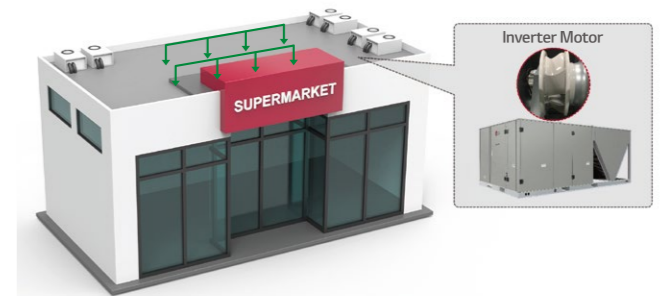
* T company : TH*300

External Static Pressure (Inches of Water, in.Aq)	
0.1 - 0.6	0.7 - 2.0
Standard	Extra cost

* Only be adapted for Heat Pump model.

LG SINGLE PACKAGE (INVERTER MOTOR)

- LG single package can cover whole range without extra cost.
- 10 HP Inverter motor (LG's standard feature)



* LG single package : AK-W300DC00

External Static Pressure (Inches of Water, in.Aq)	
0.1 - 0.6	0.7 - 2.0
Standard	Extra cost

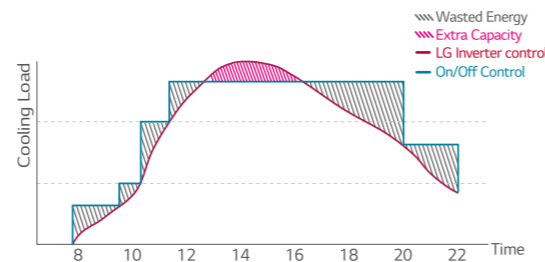
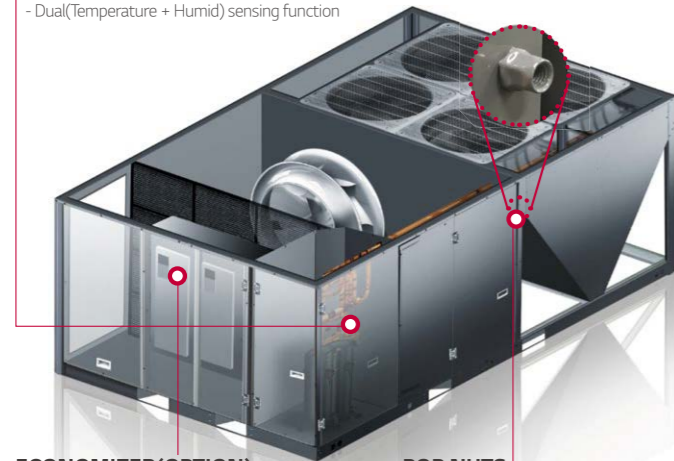
SINGLE PACKAGE

High Efficiency Inverter Compressor, Economizer

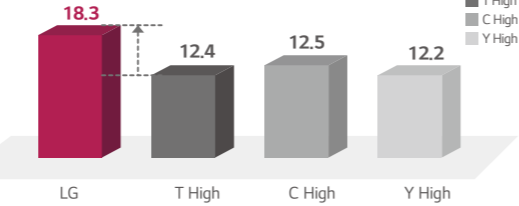
Save operation cost through Inverter compressor, Dual SLC function and Economizer.

INVERTER COMPRESSORS & DUAL(TEMP.+HUMIDITY) SENSING

- Linear control with high efficiency inverter compressor
- Dual(Temperature + Humid) sensing function



IEER 48%↑



ECONOMIZER(OPTION)

- Energy consumption can be saved by economizer in case OA enthalpy is lower than IA enthalpy



POP NUTS

- Pop nuts allow parts to be assembled strongly.
- Pop nuts improve wear reliability.

* IEER: Integrated Energy Efficiency Ratio * LG : 25RT Model / Others : High efficiency 25RT model
* Only be adapted for Heat Pump model.

SINGLE PACKAGE



Nominal Capacity		RT	20	25
Model Name		-	AK-W240LC00	AK-W300LC00
Cooling Capacity	Net Capacity	kW	70.3	80.9
		kcal/h	60,480	69,600
Gross Capacity		Btu/h	240,000	276,000
		kW	72.4	83.5
Heating Capacity		kcal/h	62,250	71,800
		Btu/h	247,000	285,000
Capacity		kW	70.3	80.9
		kcal/h	60,480	69,600
		Btu/h	240,000	276,000
EER		Btu / Wh	11.3	10.6
IEER		Btu / Wh	19.0	18.3
COP		W / W	3.38	3.24
Power Input	Cooling	kW	21.3	26.0
	Heating	kW	20.8	25.0
Power Supply		V, Ø, Hz	380-415, 3, 50/60	380-415, 3, 50/60
Indoor Coil	Fin Type		LG Louver	LG Louver
	Tube Size	Outer Dia.	mm (inch)	9.52 (3/8)
	(Row x Column x Fins per inch) x No.		(4 x 44 x 16) x 2	(4 x 44 x 16) x 2
Length		mm (inch)	2.01 (21.6)	
Face Area		m ² (ft ²)	2.18 (23.47)	
Indoor Fan	Type		Plug Fan	Plug Fan
	Diameter	mm (inch)	630 (25)	630 (25)
	Motor Output	Hp	10	10
Air Flow Rate	Nominal	m ³ /min	227	261
	Nominal	ft ³ /min	8,000	9,200
Drive type			BLDC Inverter	BLDC Inverter
Compressor (#1, A Cycle)	Type		HSS DC SCROLL	HSS DC SCROLL
	Motor Output	W x No.	5,500 x 1	5,500 x 1
	Oil Type		FVC68D	FVC68D
Oil Charge	cc x No.		1,500 x 1	1,500 x 1
Compressor (#2, B Cycle)	Type		HSS DC SCROLL	HSS DC SCROLL
	Motor Output	W x No.	5,500 x 1	5,500 x 1
	Oil Type		FVC68D	FVC68D
Oil Charge	cc x No.		1,500 x 1	1,500 x 1
Outdoor Coil	Fin Type		Wide Louver Plus	Wide Louver Plus
	Tube Size	Outer Dia.	mm (inch)	7 (9/32)
	(Row x Column x Fins per inch) x No.		(3 x 52 x 14) x 2	(3 x 52 x 14) x 2
Face Area		m ² (ft ²)	4.5 (48.4)	
Outdoor Fan	Type		Propeller Fan	Propeller Fan
	Diameter	mm (inch)	680 (26-25/32)	680 (26-25/32)
	Motor Output	W x No.	900 x 4	900 x 4
Air Flow Rate		m ³ /min x No.	105 x 4	105 x 4
		ft ³ /min x No.	3,700 x 4	3,700 x 4
Drive			BLDC Inverter	BLDC Inverter
Discharge Direction			Top	Top
Dehumidification rate		ℓ/h	24.1	30.1
Drain Connection Size			NPT 1"	NPT 1"
Refrigerant	Refrigerant name		R410A	R410A
	Precharged Amount	A-Circuit	kg	9.0
	B-Circuit	kg	9.0	
Control			Electronic Expansion Valve	Electronic Expansion Valve
Dimensions (W x H x D)		mm	2,230 x 1,242 x 3,520	2,230 x 1,242 x 3,520
		inch	87-25/32 x 48-29/32 x 138-1/32	87-25/32 x 48-29/32 x 138-1/32
Net Weight		kg (lbs)	910 (2,006)	910 (2,006)
Sound pressure levels	Cooling	dB (A)	77	77
	Min. ~ Max.	°C DB (°FDB)	-5 ~ 48 (23.0 ~ 118.4)	-5 ~ 48 (23.0 ~ 118.4)
Operation Range (Outdoor Temperature)	Heating	Min. ~ Max.	°C WB (°FWB)	-15 ~ 18 (5.0 ~ 64.4)
				-15 ~ 18 (5.0 ~ 64.4)

Beltless Direct Driven Fan & Motor

Save maintenance cost because of a fan and a motor that are driven beltless.

CONVENTIONAL (FAN + PULLEY + BELT + AC MOTOR)

- Need to adjust pulleys & belts and grease periodically

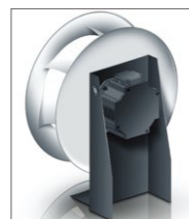


Additional parts

Reduced maintenance points
Maintenance cost 26%↓

LG SINGLE PACKAGE (PLUG FAN + INVERTER MOTOR)

- No need to adjust pulleys & belts and grease periodically



No additional parts

* Maintenance cost details
- Labor cost(General) : 2 people 2.5 hour per month, \$20 x 2.5Hr x 2P x 4EA = Total \$400
- Belt check : 2 people 30 minutes per month, \$20 x 0.5Hr x 2P x 4EA = Total \$80 (LG no required)
- Belt replacement : Every 4 months, 2 people 1 hour, (\$20 x 1Hr x 2P x 4EA) / 4 Month = Total \$40 (LG no required)
- Belt price : Every 4 months, 1 Belt, (\$20 x 4EA) / 4 Month = Total \$20 (LG no required)

Lifespan Extension

Extend with Filters and Pop nuts.

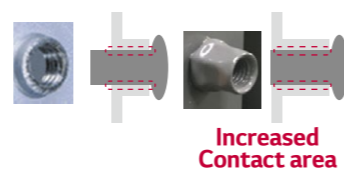
FILTERS (PRE-FILTERS)

- Pre-filters are standard features
- Pre-filters allow customers to use 2" filters longer.

※ Pre filters can be cleaned easily by water
※ Pre filters and 2" filters are sliding removal structures.
* Only be adapted for Heat Pump model.



BURRING / POP NUTS



Increased Contact area

LG CONTROL SOLUTIONS

LG HVAC offers a diverse range of effective control solutions that satisfy specific needs of each building and its user scene. These controlling systems are equipped with user friendly interface, flexible interlocking environment, energy management and smart individual controller for optimized controlling conditions and smart building management.

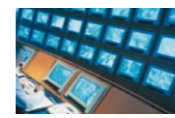
COMMERCIAL

HOTEL Hotel Room Solution



OFFICE

Central Control Solution



3rd Party BMS

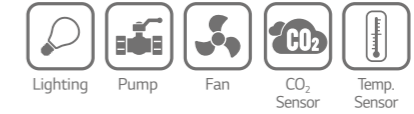


Cloud System

• Energy Management



• External Device



Integration Solution



APARTMENT

Power Distribution Solution



RESIDENTIAL

Smart Individual Control Solution



SMALL BUILDING








Small Central Control Solution



INDIVIDUAL CONTROL



Feature Functions

Controller Name	Wired Remote Controller					Wireless Remote Controller	Wi-Fi Controller																																																																																								
	Premium	Standard III	Standard II	Simple	Simple(Hotel)																																																																																										
Model Name																																																																																															
	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	NEW PWLSSB21H (H/P) PWLSSB21C (C/O)	PWFMD200																																																																																								
Basic	<table border="1"> <tr><td>On / Off</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>Fan Speed Control</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>Temperature Setting</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>Mode Change</td><td>○</td><td>○</td><td>○</td><td>○</td><td>-</td><td>○</td><td>○</td></tr> <tr><td>Auto Swing</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>Vane Control (Louver Angle)</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>ESP (External Static Pressure)</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>Electric Failure Compensation</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>-</td><td>○</td></tr> <tr><td>Indoor Temperature Display</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr> <tr><td>ALL Button Lock (Child Lock)</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> </table>							On / Off	○	○	○	○	○	○	○	Fan Speed Control	○	○	○	○	○	○	○	Temperature Setting	○	○	○	○	○	○	○	Mode Change	○	○	○	○	-	○	○	Auto Swing	○	○	○	○	○	○	○	Vane Control (Louver Angle)	○	○	○	○	○	○	○	ESP (External Static Pressure)	○	○	○	○	○	-	-	Electric Failure Compensation	○	○	○	○	○	-	○	Indoor Temperature Display	○	○	○	○	○	○	○	ALL Button Lock (Child Lock)	○	○	○	○	○	-	-								
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Wi-Fi AP Mode Setting	○	○	○	○	○	○	-																																																																																								
ETC	<table border="1"> <tr><td>Operation Status LED</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>-</td><td>-</td></tr> <tr><td>Wireless Remote Controller Receiver</td><td>○³⁾</td><td>-</td><td>○³⁾</td><td>○³⁾</td><td>○³⁾</td><td>-</td><td>-</td></tr> <tr><td>Display</td><td>5 inch Color</td><td>4.3 inch Color</td><td>4.3 inch mono</td><td>2.6 inch mono</td><td>2.6 inch mono</td><td>2 inch mono</td><td>-</td></tr> <tr><td>Size (W x H x D, mm)</td><td>137 x 121 x 16.5</td><td>120 x 120 x 16</td><td>120 x 120 x 16</td><td>64 x 120 x 15</td><td>64 x 120 x 15</td><td>51 x 153 x 26</td><td>-</td></tr> <tr><td>Black Light Control for Screen Saver</td><td>○</td><td>○</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </table>							Operation Status LED	○	○	○	○	○	-	-	Wireless Remote Controller Receiver	○ ³⁾	-	○ ³⁾	○ ³⁾	○ ³⁾	-	-	Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono	-	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	64 x 120 x 15	51 x 153 x 26	-	Black Light Control for Screen Saver	○	○	-	-	-	-	-																																																
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※ ○ : Applied, - : Not Applied
 1) It might not be indicated or operated at the partial product.
 2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function.
 3) For ceiling type duct
 Note : 1. Indoor unit should have functions requested by the controller.
 2. If you need more detail, please refer to the manual of product. (<http://partner.lge.com>: Home> Doc.Library> Manual)

INDIVIDUAL CONTROL

3rd Standard Wired Remote Controller

Features & Benefit

4.3 inch Color screen with a modern design.



PREMTB100 (White) PREMTBB10 (Black)

- The optimized controller for MULTI V 5
 - Humidity sensor embedded
 - Comfort cooling setting
 - Smart Load Control setting
 - Outdoor unit low noise setting
 - Defrost mode setting
- New modern design & easy interface
 - Seamless design / Touch button
 - 4.3 inch color LCD / Intuitive GUI
- Energy saving functions
 - Instantaneous power monitor
 - Energy consumption check (Power consumption, Operation time)
 - Temp. Setback timer; time limit control
 - Target setting (ODU capacity, Instantaneous power...etc)
- Group control
 - Up to 16 Indoor units can be controlled with one remote control
- External device On / Off (1 point)
 - Customized interlocking control with indoor unit is possible without dry contact
- 2 set points control
 - Increase convenience and comfort
 - Auto changeover, Setback (Home leave)

Model Name	PREMTB100 / PREMTBB10
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting ¹⁾	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) ²⁾	○
Reservation	Simple / Sleep / On & Off Timer / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Lock	All / On & Off / Mode / Set Temperature Range
Filter Sign	○ (Remain time + Alarm)
Energy Management	Check Energy Usage ³⁾ / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	○
Indoor Temperature Display	○
Indoor Humidity Display	○
Human Detection	○
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	120 x 120 x 16
Black light for Screen saver	○
Home Leave	2 set points control

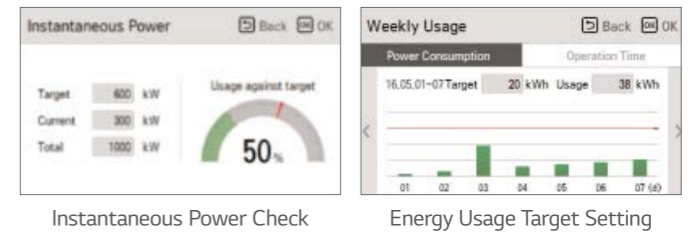
※ ○ : Applied, - : Not Applied
 1) It might not be indicated or operated at the partial product.
 2) This function is available for duct type.
 3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
 Note: 1. Indoor unit needs to have functions requested by the controller.
 2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, it may not work properly.

Energy Saving Function

Energy Management

- Energy Monitoring & Alarm
 Real-time and day / week / month / year energy usage monitoring is possible. In addition, it can set target for energy usage and operation time, and alarm will be displayed when exceeded.

* PDI (PQNUD1S40 / PPWRDB000) is required.



Time Limit Control

- The time-limit operation controls product by amount of time. By setting the device operation time in advance, you can control for how long a device works and have it stop automatically.



2 Set Points Control

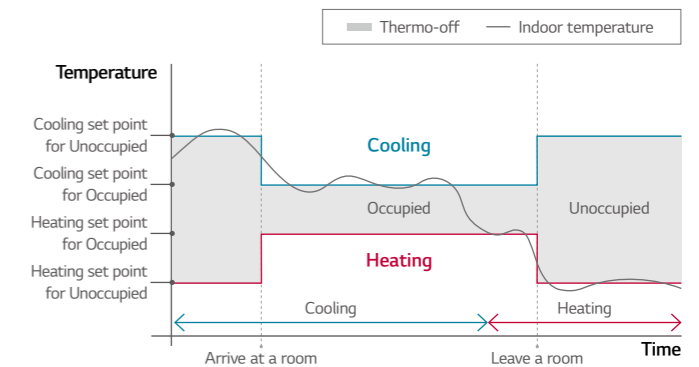
Auto Changeover (Convenience)

- The indoor unit automatically manages room temperature with heating and cooling with extended setting temperature ranges. With setting heating and cooling set temp. just one time, comfortable condition will continue at all times.

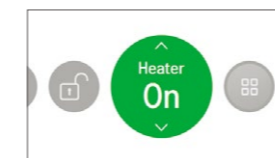
Setback (Home Leave) (Energy saving & Comfort)

- In the absence, room temperature can be kept in the range of 2 set points instead of power off. It provides comfortable indoor environment quickly when the mode is changed to occupied.

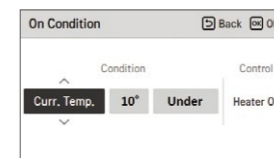
※ This function is for Heat Recovery system or Single heat pump. Otherwise it is not guaranteed.



External Device On / Off

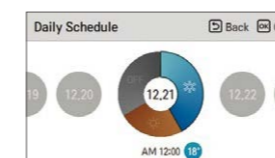


External Equipment Control
 User can turn on or off the external equipment through contact point output.

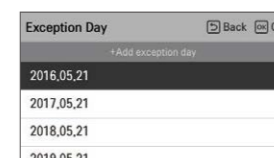


Customized Interlocking Control
 User can make control scenario. For example when temperature is under 10 degree, turn on the external heater.

Schedule Function



Easy Checking Schedule
 Standard III remote controller provides clock type daily schedule.



Exception Day Settings
 Possible to set up exceptional date on regular schedule.

INDIVIDUAL CONTROL

Premium Wired Remote Controller

Features & Benefit

5 inch full touch screen with a premium design.



PREMTA000¹⁾ / PREMTA000A²⁾ / PREMTA000B³⁾

- 1) English / Portuguese / Spanish / French
- 2) English / Italian / Russian / Chinese
- 3) English / German / Polish / Czech

- Full Touch screen
- The Optimized Controller in MULTI V 5
 - Comfort cooling setting
 - Smart Load Control setting
 - Outdoor unit low noise setting
 - Defrost mode setting
- Design with User's Convenience
 - Intuitive GUI
 - Main display simple mode
 - 5 inch color LCD
- Energy Saving Functions
 - Instantaneous power monitor
 - Energy consumption check (Power consumption, Operation time)
 - Temp. Setback Timer, Time Limit Control
 - Target setting (ODU Capacity, Instantaneous power... etc)
- Group Control
 - Up to 16 Indoor units can be controlled with one remote control
- 2 Set Points Control
 - Increase convenience and comfort
 - Auto changeover, Setback (Home leave)

Model Name	PREMTA000 / PREMTA000A / PREMTA000B
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting ¹⁾	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) ²⁾	○
Reservation	Simple / Sleep / On / Off / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Child Lock	○
Filter Sign	○ (Remain time + Alarm)
Energy Management	Check Energy Usage ³⁾ / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Pop up / Initialization Usage Data
Operation Status LED	○
Indoor Temperature Display	○
Wireless Remote Controller Receiver	○ ⁴⁾
Display	5 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	137 x 121 x 16.5
Black Light for Screen Saver	○
Home Leave	2 set points control

※ ○ : Applied, - : Not Applied
 1) It might not be indicated or operated at the partial product.
 2) This function is available for duct type.
 3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
 4) For ceiling type ducted unit.
 Note : 1. Indoor unit needs to have functions requested by the controller.
 2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, it may not work properly.



Full Touch Screen

Easy Energy Management

- Check the operation hour or electricity usage
- Comparison of usage compared to last year
- Set the target usage and time



Easy Scheduling

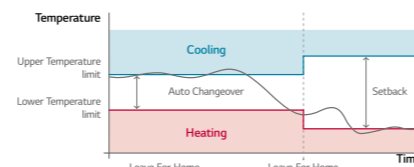
- Daily, Weekly, Yearly schedule function
- Schedule pattern setting
- Schedule copy



2 Set points Control

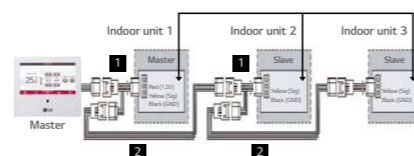
- Auto changeover switching the operation mode automatically
- Setback (Home Leave) Changing status by occupied / unoccupied

※ This function is only for Heat Recovery system and Single heat pump.



Group Control

- Max. 16 Indoor units by one remote controller.



2nd Standard Wired Remote Controller

Features & Benefit

Providing easy control of one or a group of indoor units with various functions.



PREMTB001 (White)



PREMTBB01 (Black)

- Wired remote controller that can implement various functions such as schedule, filter sign.

Model Name	PREMTB001 / PREMTBB01
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure)	○
Reservation	Simple / Sleep / On / Off / Weekly / Holiday
Time Display	○
Electric Failure Compensation	○
Child Lock	○
Filter Sign	○ (Remain time + Alarm)
Operation Status LED	○
Indoor Temperature Display	○
Wireless Remote Controller Receiver	○ ¹⁾
Size (W x H x D, mm)	120 x 120 x 16
Blacklight	○
Power Consumption Monitoring	○ ²⁾
Check Model Information	○

※ ○ : Applied, - : Not Applied
 1) For ceiling type ducted unit.
 2) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
 Note : Indoor unit needs to have functions requested by the controller.

Simple Wired Remote Controller

Features & Benefit

A simple way to control office or hotel systems in a compact design



PQRCVLOQW (White) / PQRCVLOQ (Black)



PQRCHCA0QW (White) / PQRCHCA0Q (Black)

- Small remote control with minimal functionality.

Model Name	PQRCVLOQW / PQRCVLOQ	PQRCHCA0QW / PQRCHCA0Q
On / Off	○	○
Fan Speed Control	○	○
Temperature Setting	○	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	-
Auto Swing	○	○
Vane Control (Louver direction)	○	○
E.S.P (External Static Pressure)	○	○
Electric Failure Compensation	○	○
Child Lock	○	○
Indoor Temperature Display	○	○
Wireless Remote Controller Receiver	○ ¹⁾	○ ¹⁾
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Blacklight	○	○

※ ○ : Applied, - : Not Applied
 1) For ceiling type ducted unit.
 Note : Indoor unit needs to have functions requested by the controller.

Wireless Remote Controller

Features & Benefit



NEW PWLSSB21H (H/P)
 NEW PWLSSB21C (C/O)

- Easy to use while moving.
- Main functions are available.

Model Name	PWLSSB21H (H/P) / PWLSSB21C (C/O)
On / Off	○
Fan Speed Control	○ ¹⁾
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	○
Vane Control (Louver direction)	○
Reservation	Sleep / On / Off
Time Display	○
Indoor Temperature Display	○
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51.4 x 153 x 26

※ ○ : Applied, - : Not Applied
 1) For some products, you can use "slow" fan speed function.

LG HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL		CENTRALIZED CONTROL			
Wired Remote Controller		Wireless Remote Controller	Display	Platform	Gateway
Standard	Simple				
Standard III (White) PREMTB100	PQRCVCL0QW	NEW PWLSSB21H (H/P) NEW PWLSSB21C (C/O)	AC Ez PQCSZ250S0 (Indoor Unit -32)	ACP 5 PACP5A000 (Indoor Unit -256) BACnet IP/Modbus TCP Gateway	ACP LonWorks PLNWK000 (Indoor Unit -64)
Standard III (Black) PREMTBB10	PQRCVCL0Q	Wi-Fi Controller LG Wi-Fi Modem PWFMD200 For Indoor Unit PWFMD200	AC Ez Touch PACEZA000 (Indoor Unit -64)	AC Manager 5 PACM5A000 (Indoor Unit -8,192)	Modbus RTU Gateway PMBUS00A
Standard II (White) PREMTB001	PQRCHCA0QW (Simple for Hotel)		AC Smart 5 PACS5A000 (Indoor Unit -128) BACnet IP/Modbus TCP Gateway		PI-485 PHNFP14A0 For Indoor Unit (ERV)
Standard II (Black) PREMTBB01	PQRCHCA0Q (Simple for Hotel)				
Premium PREMTA000 PREMTA000A PREMTA000B					

Note
 1. AC Smart 5 & ACP 5 provides BACnet IP / Modbus TCP 2. KNX Gateway is provided by INTESIS.
 3. If you need more detail, please refer to the manual of product(or BECON PDB) (<http://partner.lge.com/global/index.lge> , Home→DocLibrary→Product →Control(BECON)

CENTRALIZED CONTROL	INTEGRATION DEVICE			
Facility Integrator	Indoor Units		Outdoor Units	AHU Kit
	Dry Contact	Control Accessory		
PDI (Power Distribution Indicator) PQNUD1540 Premium (8 port) PQNUD1540 Standard (2 port) PPWRDB000	PDRYCB000 Simple Dry Contact	PZCWRG3 Group Control Wire	PVDSMN000 IO Module (Input / Output Module) For MULTI V 5	PAHCMR000 Communication Kit Return / Room Air control
ACS IO Module (Input / Output Module) PEXPMB000	PDRYCB300 Dry Contact for Thermostat	PQRSTA0 Remote Temperature Sensor	PWFKCN000 Variable Water Flow Control kit For MULTI V WATER IV	PAHCMS000 Discharge / Supply Air control
Chiller Option Kit PCHLLN000	PDRYCB320 Dry contact for Thermostat (For using universal input)	ZRTBS01 Low Profile Remote Temperature Button Sensor	PRVC2 Low Ambient Kit For MULTI V IV, 5	PAHCM000 Controller Module Main Module
ACU IO Module PEXPMB300	PDRYCB400 2 Points Dry Contact (For Setback)	ABZCA Zone Controller 4 Zones by thermostat	PRDSBM Cool / Heat Selector	PAHCMC000 Communication Module
PEXPMB200 UIO	PDRYCB500 For Modbus		PAHCMW000 Water Communication Module	PAHCMN000 Control kit (Max. 3 Outdoor Units)
PEXPMB100 UI				PRLK048A0 (- 28 kW) PRLK096A0 (- 56 kW) PRLK396A0 (- 112 kW) PRLK594A0 (- 168 kW) EEV Kit

COMMERCIAL

MEMO