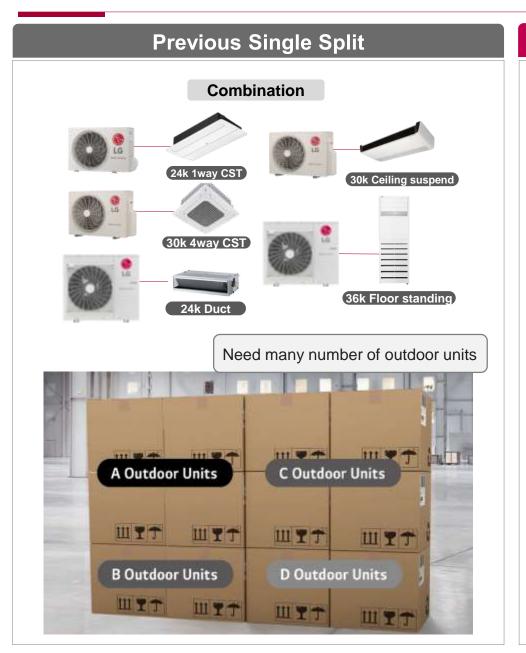
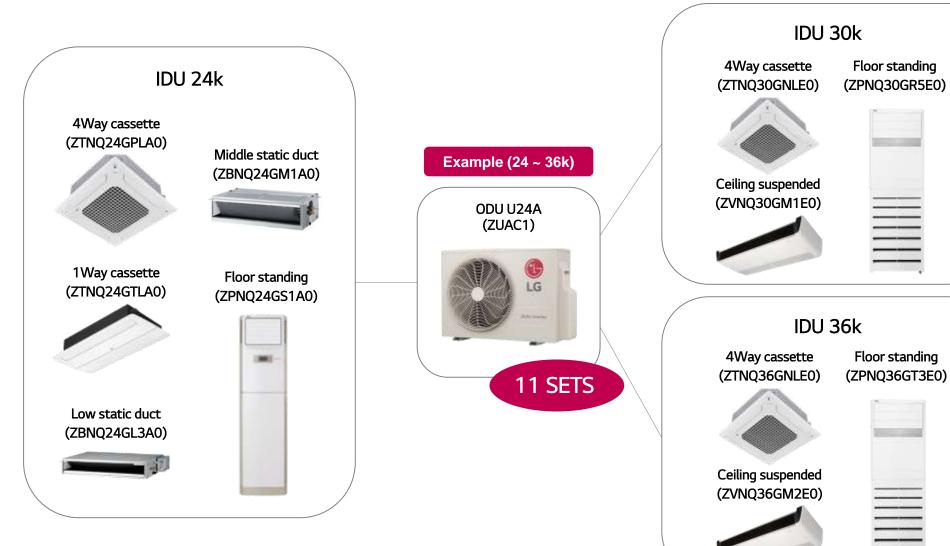
What is Free combination





What is Free Combination

In the case of U24A unit, one outdoor unit can be combined with 11 indoor units, So the number of outdoor unit models can be reduced.



What is Free Combination

By combining one outdoor unit with a large number of indoor units, the total number of model is reduced to provide convenience to customer

Customer benefit

 Customers can choose the combination based on their purchase purpose

Dealer benefit

➤ Simplified Outdoor line-up will make stock & warehouse operation easier

Combination case (24kBtu Example)

Benefit

STANDARD COMBINATION

"High Efficiency"

"Energy Saving"

Conventional

FREE COMBINATION

24kBtu Example

4Way Cassette Indoor Unit Standard ODU

1.6

ENTRY COMBINATION

"Affordable Inverter" "Rational Shopping"

Totally 12 Different Outdoor Model units



Only 5 Outdoor Units covers all STANDARD & ENTRY Combination

Entry ODU

Please refer to the specification pages for available Entry combination products & capacities

Operation Improvement

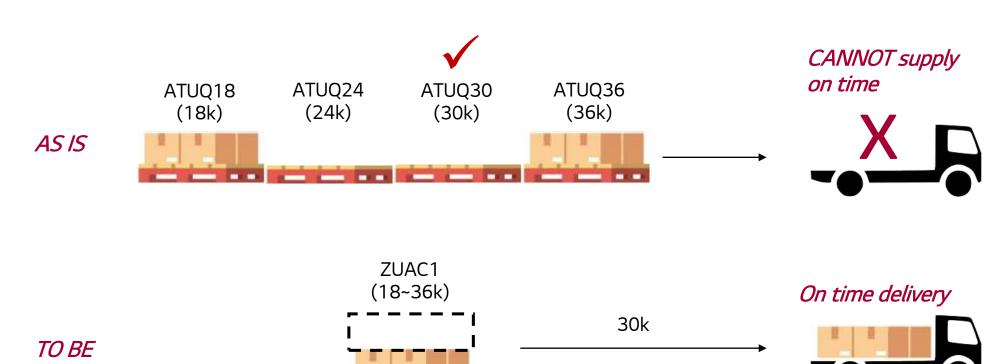
1. Quick response to demand



"We made forecast and **ordered 18k and 36k**, but **demand occurs at 30k**.

The delivery schedule is over 2 weeks, so we could not meet the customer's due date.

And our stock is remain continuously."



Operation Improvement

2. Efficiency of Storage Area



"We could not increase in house stock of LG products, because our warehouse area is limited."

ATUQ09 ATUQ12 ATUQ18 ZUAA1 ZUAB1

ATUQ24 ATUQ30 ATUQ36 ZUAC1 ZUAD1

ATUQ42 ATUQ48 ATUQ60

Storage Area 55%↓





Product Introduction



Contents



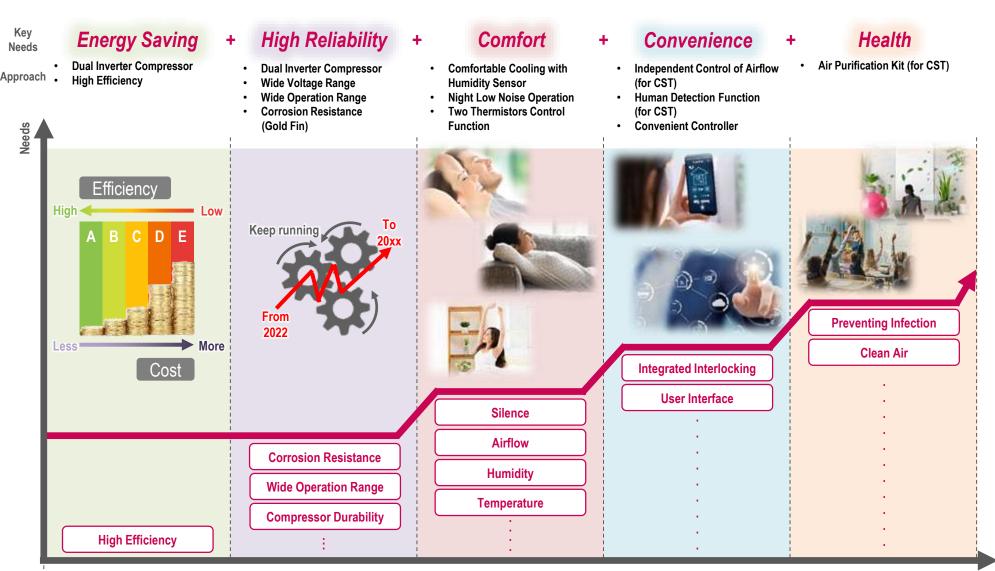
- 1. Intro '22 LG Single Split
- 2. Why LG Single Split?
- 3. Appendix



Intro

- Market Trend of HVAC Systems
- LG Technology
- `22 NEW KEY USP
- Total Line up
- R32 Refrigerant

LG Single CAC can provide customers optimized solutions by taking into account the customer's needs and meeting these needs through a variety of products.



Start of Inverter Technology



Benefits

- ✓ Energy Saving
- **✓** Reliability
- ✓ Comfort & Health
- ✓ Convenience

Inverter Compressor / High Efficiency

Wide Operation Range / Corrosion Resistant Heat Exchanger

Dual Sensing (Temperature + Humidity) / Air Purification Kit

Wi-Fi Control / Human Detecting Sensor



NEW KEY USP

Free Combination

One outdoor unit can be freely combined with many different indoor units.





R32 Single Spilt

R32 (Next-Generation Refrigerant)

LG Single split uses an eco-friendly refrigerant to lower the global warming potential.





Round Cassette

Round Cassette is suitable for modern design Interior (Design award winner)







Round Design





Air purification kit

Air Purification models are extended in New R32 Inverter line up



Line up and Combination

	kBtu/h		Туре	9	12	18	24	30	36	42	48	60
Single Split	Outdoor Unit		S Standard	D U12A	U12A	W U18A	<i>U24A</i>		U36A (2R)			U36/ (3R)
			E Entry			<i>U12A</i>	W18A	W24A	W24A		U36A (2R)	U36. (3R)
	Ceiling Mounted 4Way Cassette		5			•	•		•		•	•
			E			•	•	•	•			
	Ceiling Concealed Duct	Mid Static	5			•	•		•		•	•
		all the same	5	•	•	•	•					
	Ceiling Suspended		S			•	•	•	•		•	•
	1Way Cassette		5		•	•	•					
	Round Cassette		5						•	•		
	Floor Standing		S				•	•	•		•	•
			-					•	•			

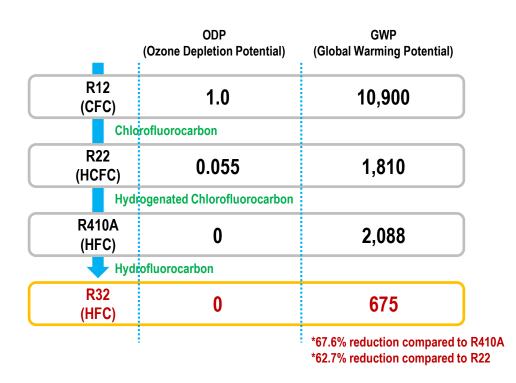
R32 (Next-Generation Refrigerant)

R32 is a next generation refrigerant that efficiently carries heat and has lower environmental impact

Refrigerant Trends

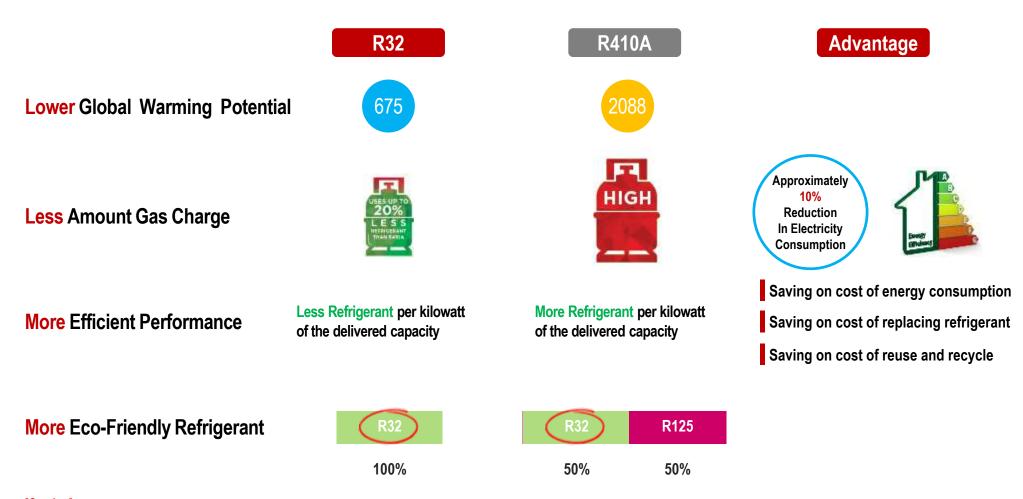
- Regulations have increasingly become stricter from greater consideration for the global environment because of the Montreal Protocol in 1987 and the Kyoto Protocol in 1997, resulting in a shift to refrigerants with even lower environmental impact
- Although the mainstream refrigerant R410A has an Ozone Depletion Potential (ODP) of 0, its Global Warming Potential (GWP) still remains an issue
- While R32 also has an Ozone Depletion Potential (ODP) of 0, the refrigerant has only approximately 1/3 of the Global Warming Potential (GWP) of R410A
- If all R410A is converted to R32, the impact to global warming from HFCs in 2030 would be reduced by the CO2 equivalent of approximately 800 million tons (19%) compared to the continued use of R410A
- R32 has a Global Warming Potential (GWP) that is one-third lower and is remarkable for its low environmental impact compared to the refrigerants widely used such as R22 and R410A

Environmental Impact



Small capacity air-conditioners are being mostly moved toward R32 refrigerant applied and R32 refrigerant has many advantages over R410A refrigerant

Due to the moderate flammability of R32 refrigerant, it is risky to use R32 refrigerant in large volumes in buildings



[Caution]

^{*}More precaution should be needed to use R32 refrigerant due to slightly higher toxicity level

^{*}Higher discharge temperature may cause oil degradation in the compressor, which may damage some of the components in it



Why LG Single Split?

- Energy Saving
- Reliability
- Comfortable Environment
- Convenient Control System
- Indoor Units

Why LG Single Split?

Energy Saving

Why LG smart inverter 1 High Efficiency 1 Payback app 1 Annual Energy Saving & Payback Dual Sensing Control 1 Human Detection

Reliability

Dual Inverter Compressor l Wide voltage range l Low noise and Vibration l Wide operation range Corrosion Resistance gold fin l Long Pipe Installation

Comfortable Environment

Maintain the Perfect Balance | Provide Customizable Comfort | Provide Clean Air | Air Quality Visualization

Convenient Control System

LG ThinQ™ l Residential Smart Home Solution l Easy Control (Central Controller) l Mobile LGMV User-friendly Remote Controller

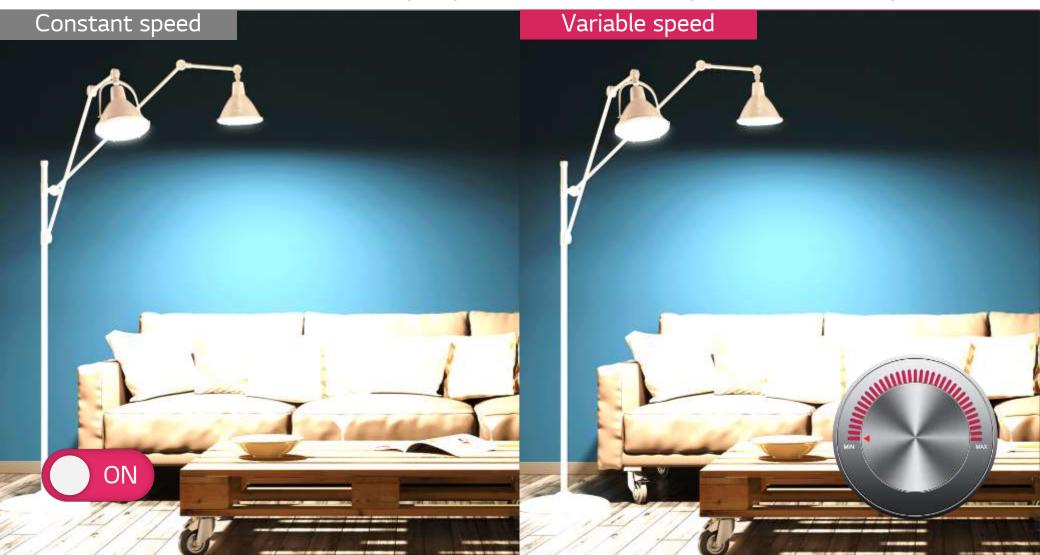
Indoor Units

4way cassette | 1way cassette | Round cassette | Ceiling suspended | Floor standing | Ceiling duct

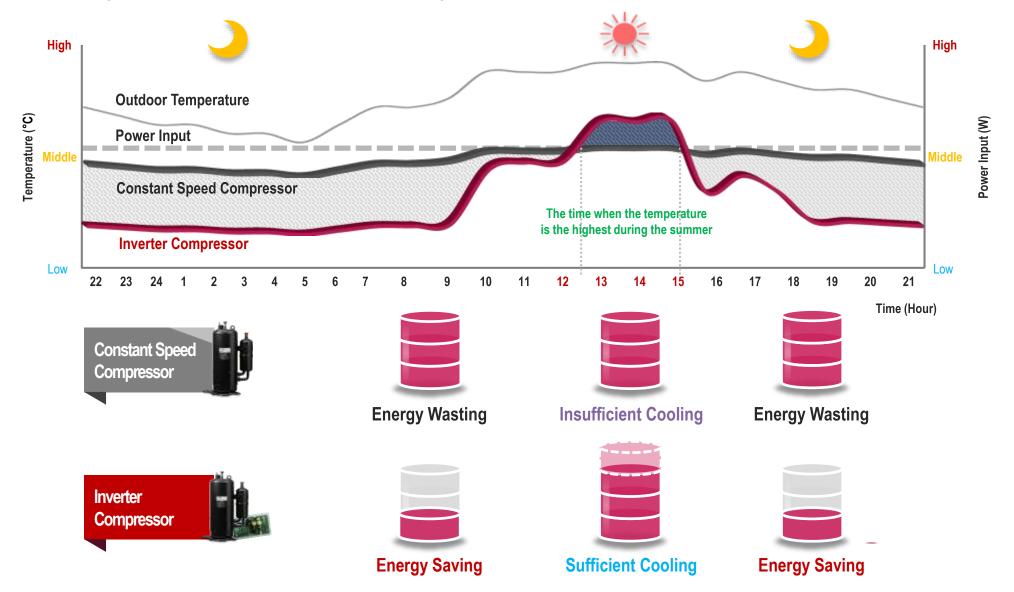
Why LG smart inverter

Constant and Variable?

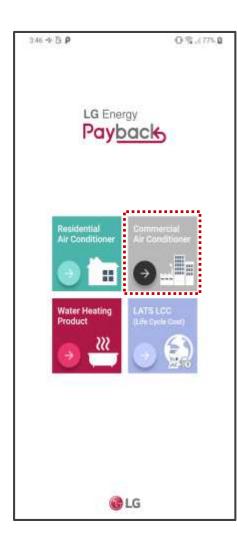
Constant speed runs only ON/OFF operation, while variable speed adjusts its frequency upon external conditions, just like dimmable lighting can be controlled its brightness by ambient light.



Unlike Constant Speed Compressor, Inverter Compressor can operate optimally depending on the cooling load and correspond to the cooling load sufficiently



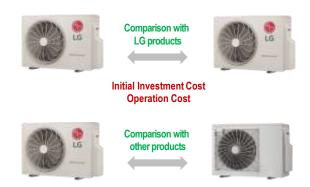
Customers can easily make energy simulations of LG Single CAC products and other products through the Payback application.



Advantages

- · You can use it easily.
- You can check the latest product information.
- You can share information through e-mail and SNS.
- You can manage product maintenance information.

Main Functions



- Annual Energy Usage Comparison
- Annual Energy Consumption



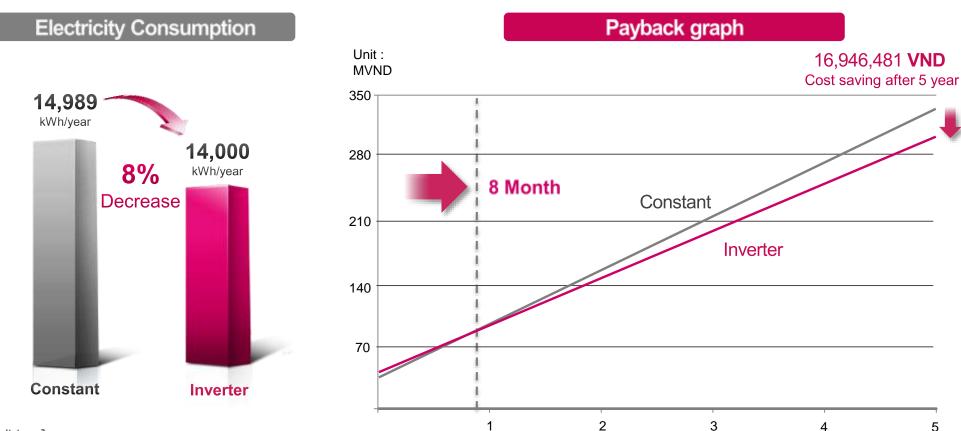






Annual Energy Saving & Payback _Vietnam

Electricity consumption are expected to decline by 8% compared to Constant model If you purchase the LG smart inverter, You can get back your investment cost after 8 month.

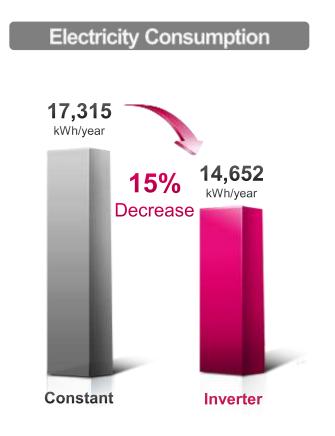


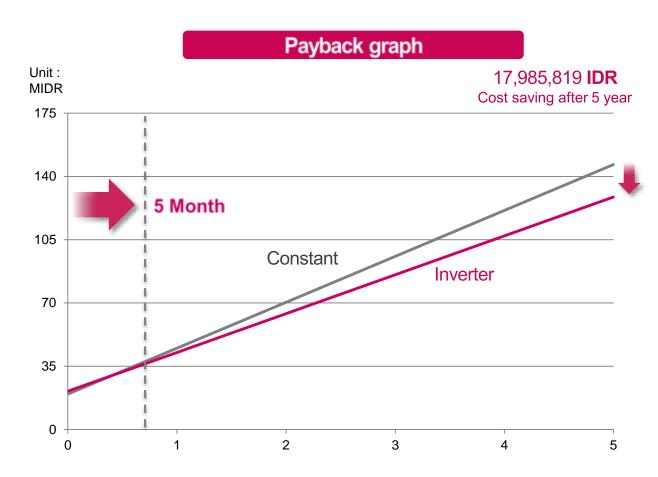
[Conditions]

- Capacity : 36 kBtu/h Cassette
- Operating time: 08:00~20:00
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature: 18°C) Vietnam (Hochiminh)
- Electricity Cost: 3923VND/kWh

Annual Energy Saving & Payback _Indonesia

Electricity consumption are expected to decline by 15% compared to Constant model If you purchase the LG smart inverter, You can get back your investment cost after 5 month.





[Conditions]

- Capacity : 36 kBtu/h Cassette
- Operating time: 08:00~20:00
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature: 18°C) Indonesia (Jakarta)
- Electricity Cost: 1467IDR/kWh

Dual sensing control is a function that changes evaporation temperature according to temperature & humidity.

Previous

- Single sensing Smart Load Control (Temperature only)
- · Excessive latent heat elimination regardless of humidity
- Waste Energy to eliminate latent heat

Te¹⁾ Refrigerants Comfort 30% Town High

New

- Dual sensing Smart Load Control (Temperature and Humidity)
- Comfortable environment by making the room less dry
- · Increased Seasonal Efficiency



¹⁾ Te : Evaporation Temperature

^{*} Dual Sensing Control requires Standard III Wired Remote Controller(optional).

In wet summer season, the system senses the high humidity level and increases operating ratio to decrease humidity level rapidly for making room condition in comfort zone.

Previous

- High humidity condition is not considered by only sensing the room temperature.
- · General latent heat elimination regardless of humidity

Te¹⁾ Refrigerants O Time

New

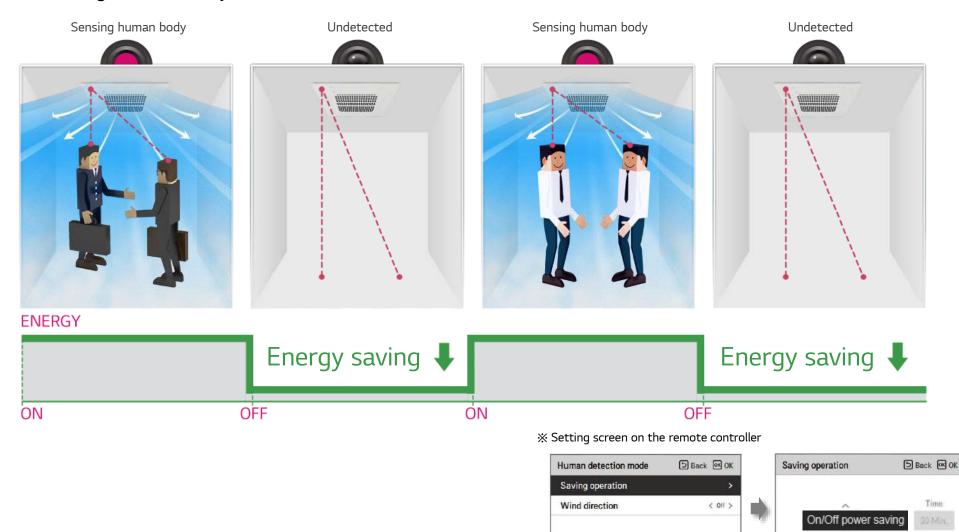
- Comfortable environment
- · With quick latent heat elimination by sensing humidity
- At higher humidity, the compressor runs more powerfully



¹⁾ Te : Evaporation Temperature

^{*} Dual Sensing Control requires Standard III Wired Remote Controller(optional)

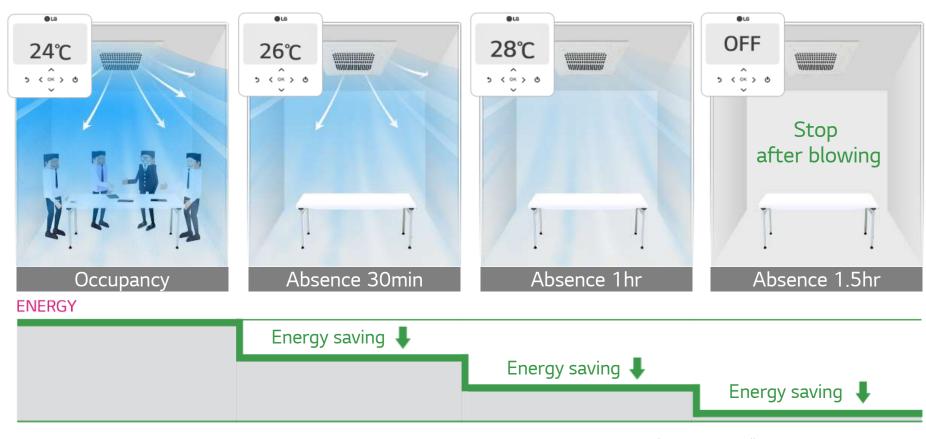
The indoor unit automatically stops when detecting absence. It runs as the same as previous mode when sensing human body.



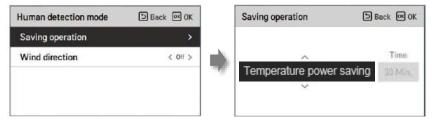
Sensor is optional accessary (PTVSMA0): only can be applied to PT-MCHW0(CST Panel)



Energy savings by automatically setting target temperature during absence. (5/10/15/30/60/90 min.)



Setting screen on the remote controller



 $[\]ensuremath{\%}$ To use this function, new remote controller, PREMTB100 or PREMTBB10 is needed

Why LG Single Split?

Energy Saving

Why LG smart inverter | High Efficiency | Payback app | Annual Energy Saving & Payback Dual Sensing Control | Human Detection

Reliability

Dual Inverter Compressor l Wide voltage range l Low noise and Vibration l Wide operation range Corrosion Resistance gold fin l Long Pipe Installation

Comfortable Environment

Maintain the Perfect Balance | Provide Customizable Comfort | Provide Clean Air | Air Quality Visualization

Convenient Control System

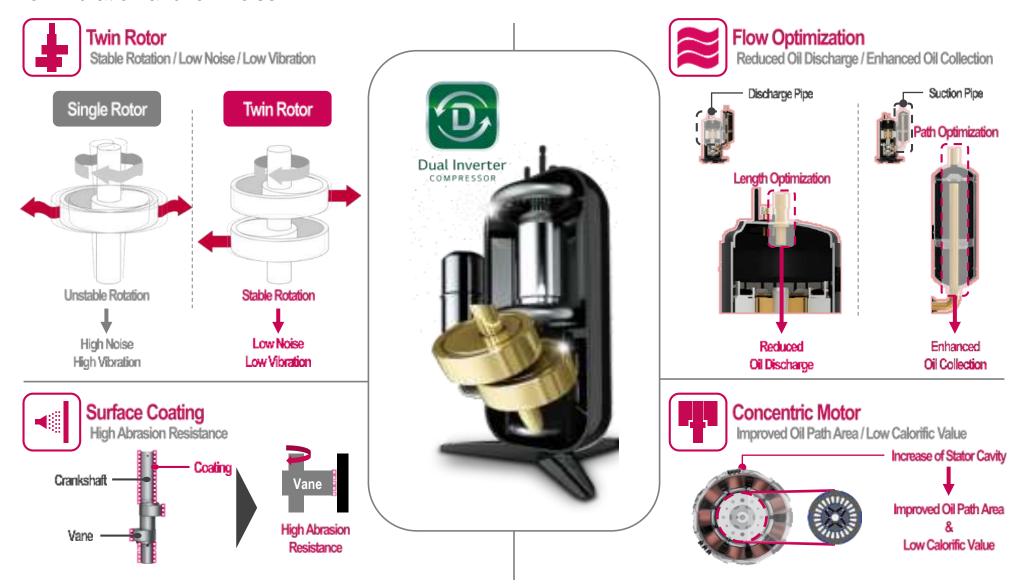
LG ThinQ™ l Residential Smart Home Solution l Easy Control (Central Controller) l Mobile LGMV User-friendly Remote Controller

Indoor Units

4way cassette | 1way cassette | Round cassette | Ceiling suspended | Floor standing | Ceiling duct

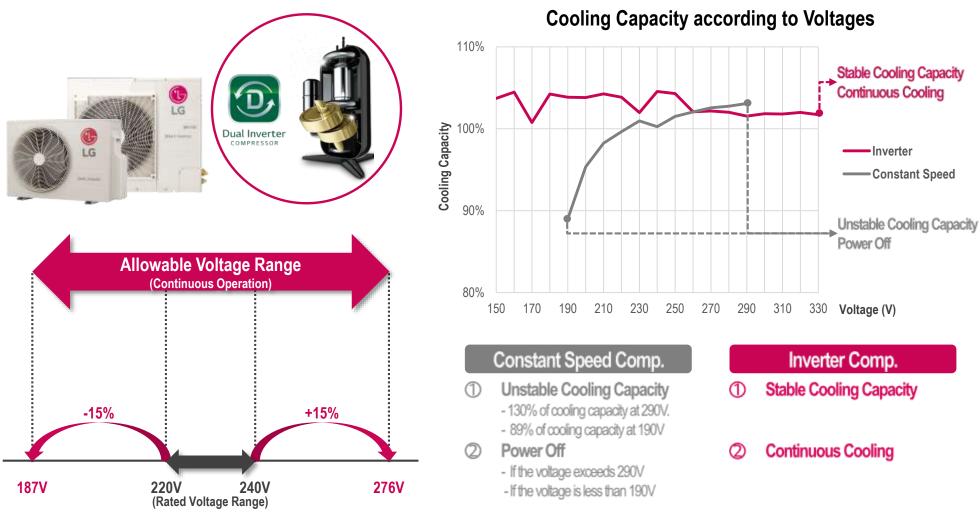
Dual Inverter compressor

The Dual Inverter Compressor has a structure optimized for stability, so it can be operated with low vibration and low noise.



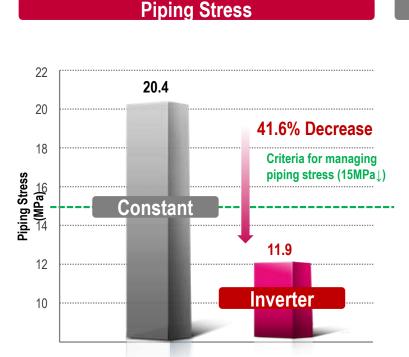
Wide voltage range

The outdoor unit can operate in a wide range of voltages thanks to the inverter compressor. Its capacity is more stable according to the voltage change compared to that of the constant speed compressor product.





Piping Stress of Twin Rotary Inverter Compressor's discharge pipe can be reduced to approximately 41.6% compared to Constant Speed Compressor, which leads to low vibration, low noise and enhanced durability



[Stress test (Vibration test) at the Discharge Pipe]

- As the Piping Stress Increases
- i) Noise Increases
- ii) Vibration Increases
- iii) Reliability Decreases

Constant



Inverter



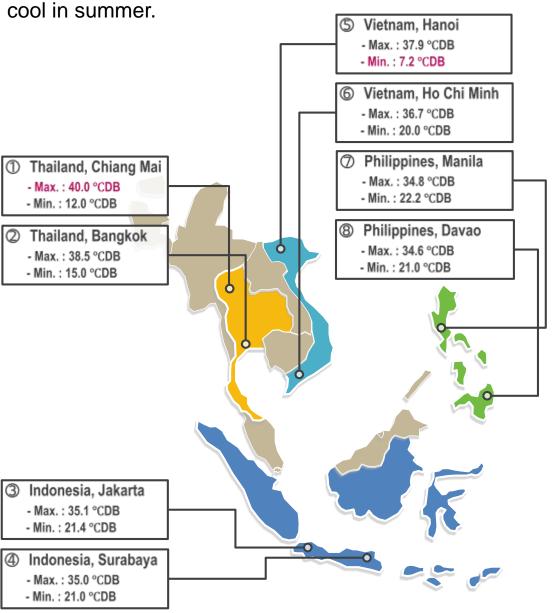
- **[Test Condition]
- 1) Test Models: AP-H488T2A0 (Constant), ZUUQ**GA0 (Inverter)
- 2) Indoor Ambient Temperature: 27°C
- 3) Outdoor Ambient Temperature : 35°C
- **The test has been carried out in LG Electronics
- **The result can be different depending on actual environment

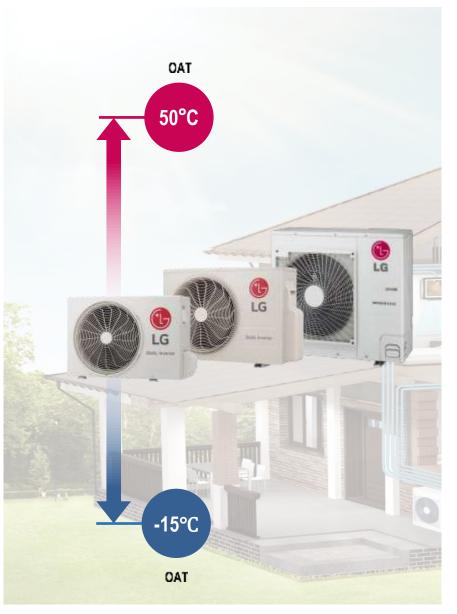
As the Piping Stress Decreases

- i) Noise Decreases
- ii) Vibration Decreases
- iii) Reliability Increases

Wide Operation range

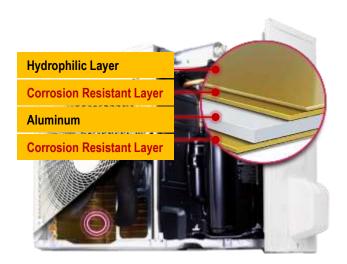
LG Inverter product can be operated even at an outdoor temperature of 48°C, so customer can stay





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

Gold Fin



Resistant to Corrosion

Test Standard

LG (70)-E-1026 : 2018 Aluminum plate coil III

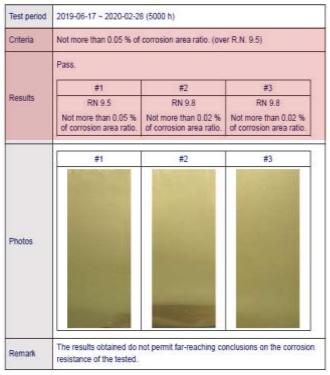
ISO 9227 : 2017 Corrosion tests in artificial atmospheres
– Salt Spray Tests

ASTM B 117 Standard Practice for Operating Salt Spray (Fog) Apparatus

ISO 10289: 1999 Method corrosion testing of metallic and other inorganic coatings on metallic substrates

KS D 9502 : 2019 Salt Spray Test Method

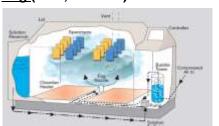
Test Results



Salt Spray Test Result (5% Area of defects compared to initial)

5,000 hr <u>Fog (</u>35℃, RH 95%)





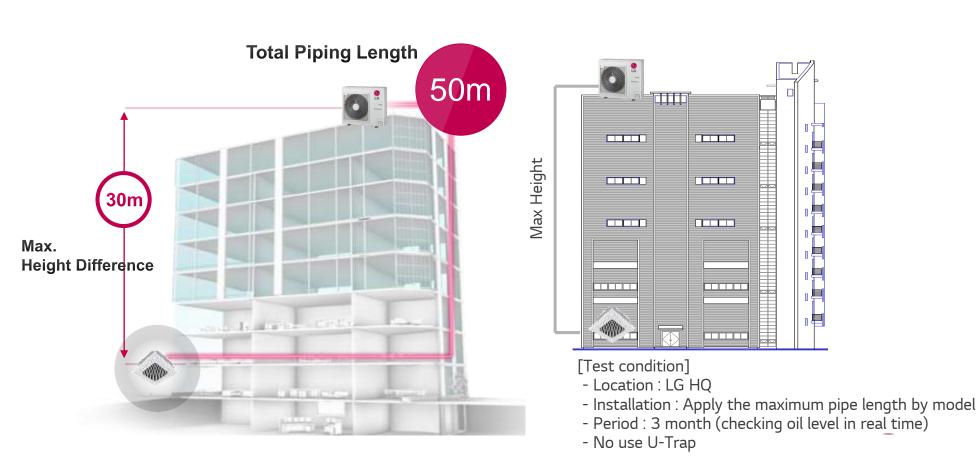
Certified Test Report



Long Pipe Installation

Maximum pipe length up to 50m and elevation length up to 30m provides flexibility for various condition and easy installation.

Model name	ZUAA1	ZUAB1	ZUAC1	ZUAD1/3	ZUAE1/3
Maximum pipe length	30m	30m	50 m	50 m	50 m
Maximum Height Difference (ODU-IDU)	15m	20m	30 m	30 m	30 m



Why LG Single Split?

Energy Saving

Why LG smart inverter | High Efficiency | Payback app | Annual Energy Saving & Payback Dual Sensing Control | Human Detection

Reliability

Dual Inverter Compressor l Wide voltage range l Low noise and Vibration l Wide operation range Corrosion Resistance gold fin l Long Pipe Installation

Comfortable Environment

Maintain the Perfect Balance | Provide Customizable Comfort | Provide Clean Air | Air Quality Visualization

Convenient Control System

LG ThinQ™ l Residential Smart Home Solution l Easy Control (Central Controller) l Mobile LGMV User-friendly Remote Controller

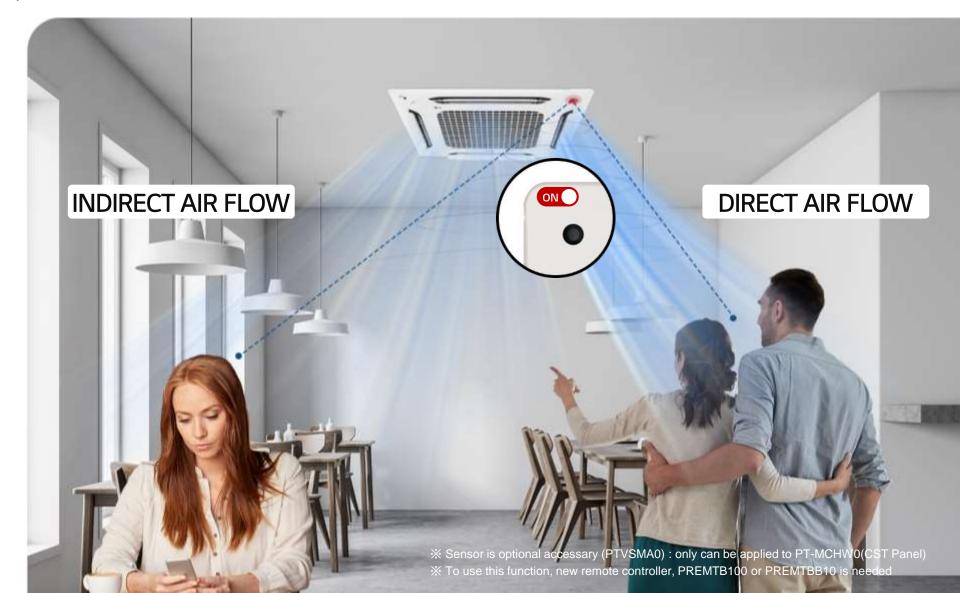
Indoor Units

4way cassette | 1way cassette | Round cassette | Ceiling suspended | Floor standing | Ceiling duct

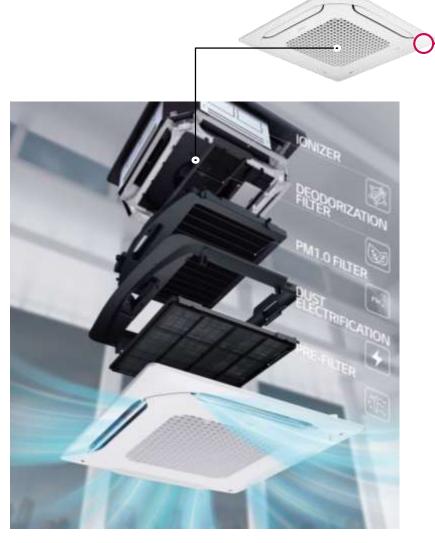
By sensing both temperature and humidity, this feature helps avoid over-cooling and dehumidification, maximizing comfort



A unit can sense a customer's presence and provide you with direct/indirect airflow options to make your space more comfortable



5-Step air cleaning process removes invisible, ultra fine dust, odor and germs to ensure a clean and healthy living environment



5-Steps Air Cleaning Process

<Color Display by Air Quality>

Unhealthy Moderate

>> 5th Step – Ionizer

PM1.0 Sensor

Smart Indicator

deactivate bacteria and virus that cause food poisoning and pneumonia

> 4th Step – Deodorization

High efficiency gas absorption technology by application of corotation concept Deodorizing Efficiency Up!

Pressure loss Down!

3rd Step – Captures Microfine dust

Fine to ultra-fine dust removal of up to 99%

2nd Step – Dust Electrification

Anion increases the electrostatic force of dust Improves dust collection efficiency on filter

> 1st Step - Pre-filter

Multi layer structure allows dust removal efficiency to be 2.5 times higher and dust is also reduced by more than 40%







5-Step air cleaning process removes invisible, ultra fine dust, odor and germs to ensure a clean and healthy living environment



1st Step – Pre-filter

Multi layer structure allows dust removal efficiency to be 2.5 times higher and dust is also reduced by more than 40%



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4th Step – Deodorization

High efficiency gas absorption technology by application of corotation concept Deodorizing Efficiency Up!

Pressure loss Down!

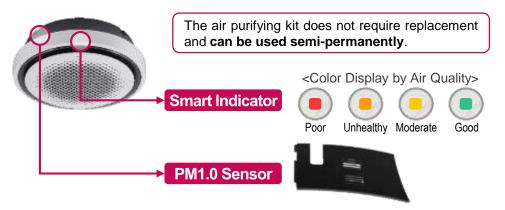
5th Step – Ionizer

deactivate bacteria and virus that cause food poisoning and pneumonia





4-Step air cleaning process removes invisible, ultra fine dust, odor and germs to ensure a clean and healthy living environment







4-Steps Air Cleaning Process

4th Step – Deodorization filter

This filter can trap odor & harmful gases.



⇒ 3rd Step – PM1.0 filter

Fine to ultra-fine dust removal of up to 99%



2nd Step – Dust Electrification

This component releases ions to increase the electrostatic force of the particles, improving the capture efficiency of the PM1.0 filter.

> 1st Step – Pre-filter



This filter traps large dust particles first when the indoor air enters the indoor unit.

Wired Remote Controller



LG ThinQ





Mobile Remote Control

- Power On / Off
- Mode Setting
- Fan Speed Setting
- Air Flow

Air Purification Control

- On / Off



Air Quality Monitoring

- PM 10
- PM 2.5
- PM 1.0
- Graph View of Measurement History (Day, Week, Month, Year)







- * The LG ThinQ application can be downloaded from the Google Play or App Store application.
- X Available functions may differ depending on the model.
- Wi-Fi modem(PWFMDD200) is an accessory.

Why LG Single Split?

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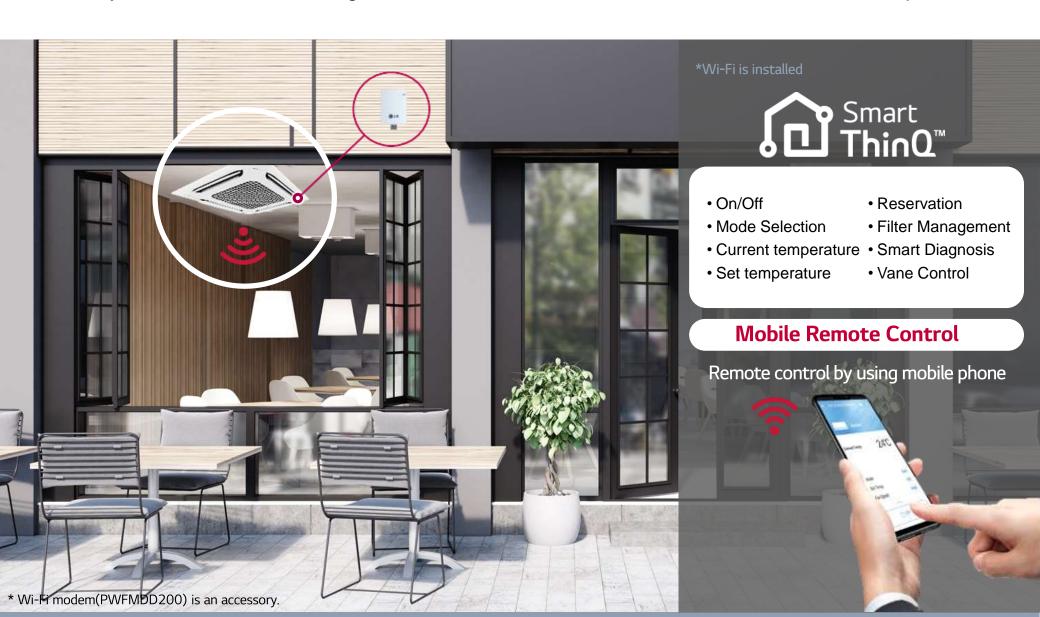
Convenient Control System

LG ThinQ™ I Residential Smart Home Solution I Easy Control (Central Controller) I Mobile LGMV User-friendly Remote Controller

Indoor Units



Control your air conditioners using the smart internet devices as Android or iOS based smartphones

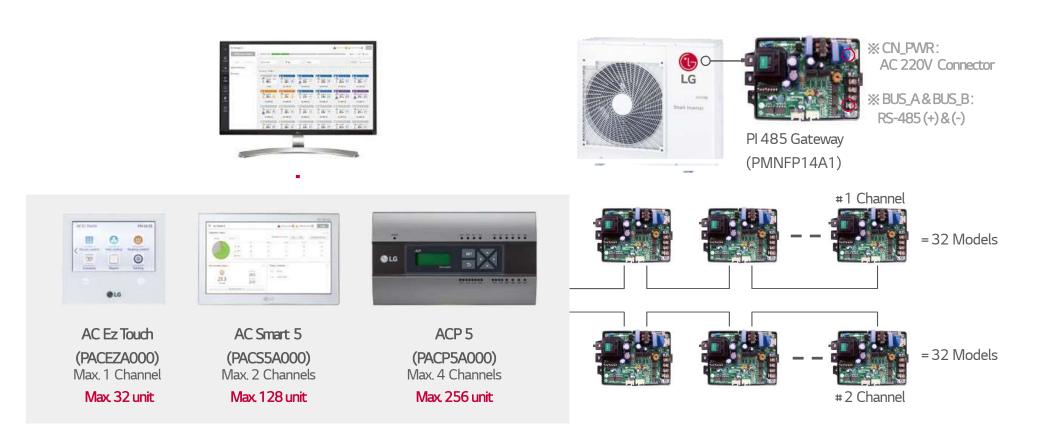


Establishment of smart home interlocking solution to target the residential market



Easy Control (Central Controller)

PI-485 is a gateway device that provides communication between LG Outdoor Units and LG central controllers such as ACP, AC Smart.



LGMV (Monitoring View) helps engineers to inspect and monitor air conditioning unit easily.

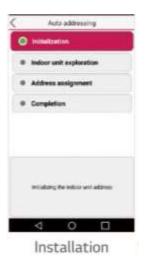


Error Indicator

Error Code	Contents
01	Air temperature sensor of indoor unit
02	Inlet pipe temperature sensor of indoor unit
03	Communication error : Wired Remote Controller - Indoor Unit
	:







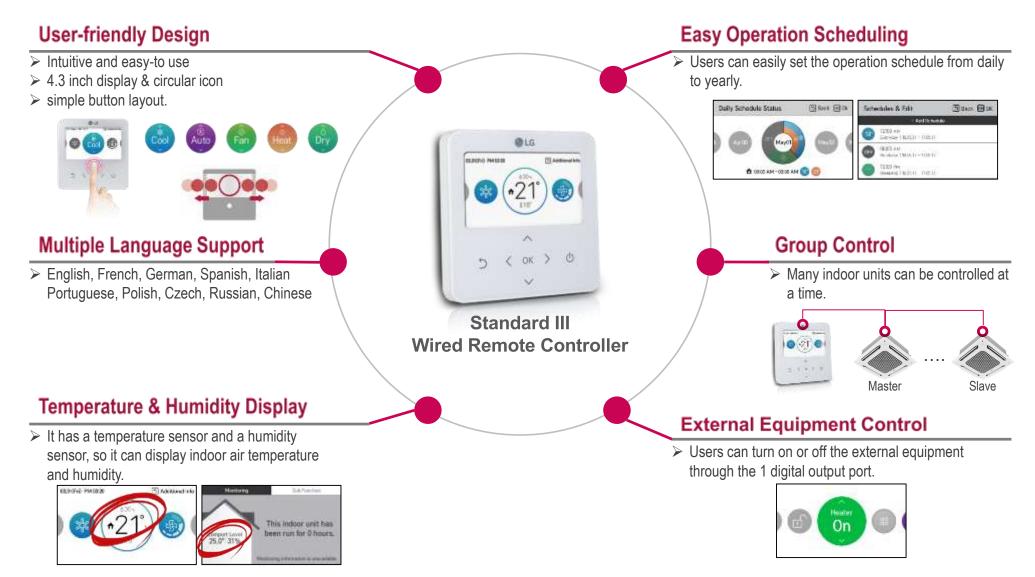


A technician not only can check the cycle information with diagrams & graph, but also check easily the error status (troubleshooting guide) and take action immediately.

 $[\]ensuremath{\ensuremath{\%}}$ Search "Mobile LGMV" on Google or Apple store then download the app.

^{*} Wi-Fi modem (PWFMDD200) is required by option.

Standard III Wired Remote Controller is designed for luxurious interior design and is designed to easily control an indoor unit with a simple button layout.



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4way cassette | 1way cassette | Round cassette | Ceiling suspended | Floor standing | Ceiling duct



Inverter Single Split

Indoor unit

Ceiling Mounted Cassette 4way





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



iF

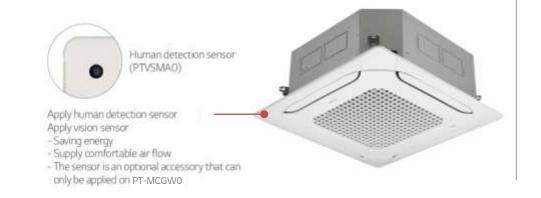


STYLISH DESIGN PANEL

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

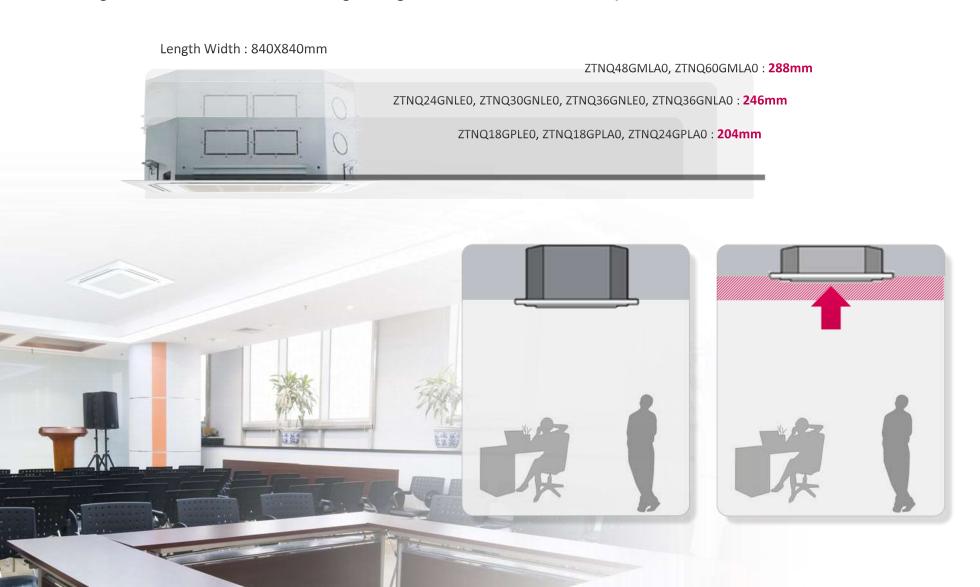


HUMAN DETECTION SENSOR & HUMIDITY SENSOR



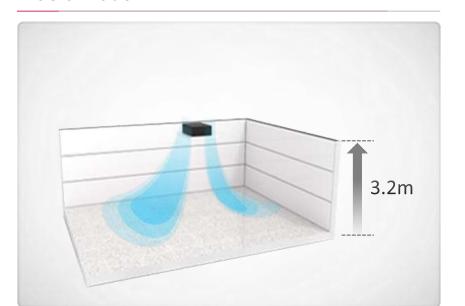
Compact Size

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

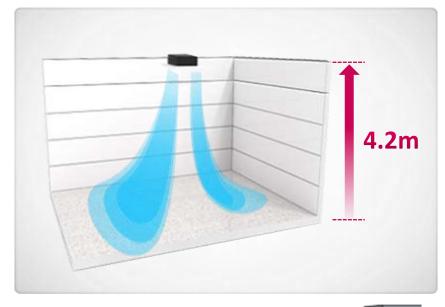


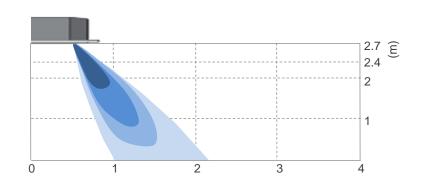
Airflow in a space with a 4.2m ceiling height is possible with this indoor unit. Further, air flow can be strengthened by adjusting the fan speed.

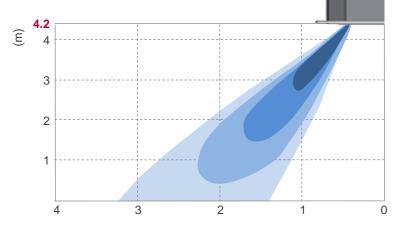
Basic mode



High ceiling mode

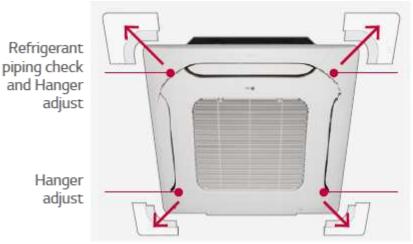






The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe. And it is easy to install the panel to the body, using the button type panel design.

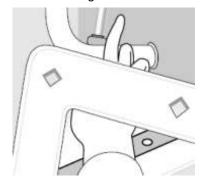
Detachable Corner Design



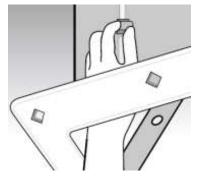
Drain leakage check and hanger adjust

Hanger adjust

Drain Leakage Check



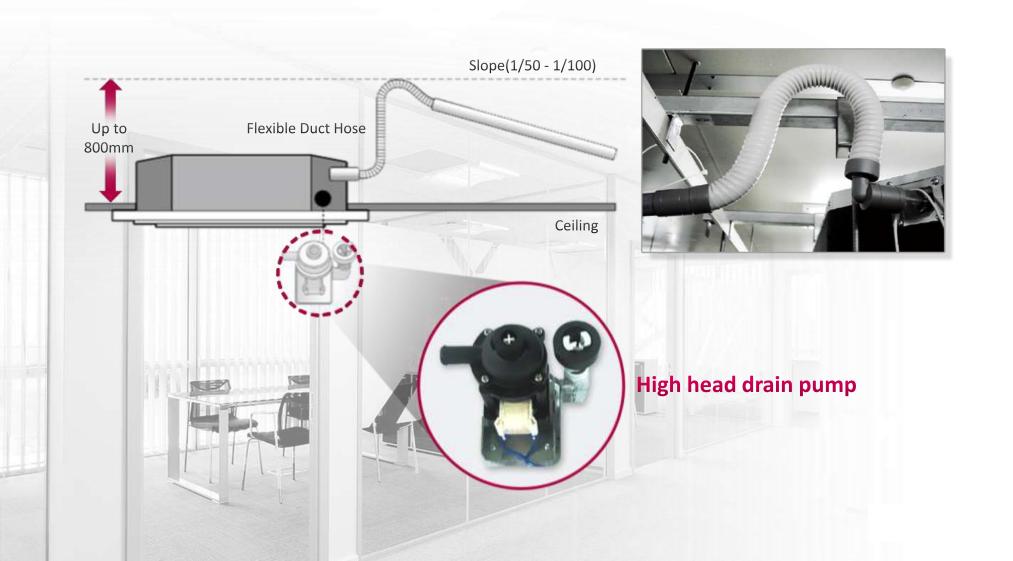
Hanger adjust



One Push Panel



High drain pump prevents damage of products and ceiling by proper draining of dew condensation which is generated from the evaporator of indoor.





Inverter Single Split

Indoor unit

1Way cassette





Can make a luxurious living room with LG 1Way cassette











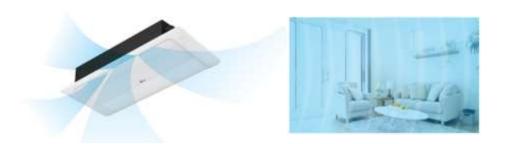


Depending on the installation environment, conditions of use, and the user's location, two vane angles can be controlled in 6 steps from 20° to 70°, depending on the indoor environment and personal

preference.

Automatic 4-way wind direction

The wind is discharged evenly up, down, left and right automatically, so there is no cooling blind spot.



4 Way discharge

No cooling blind spot

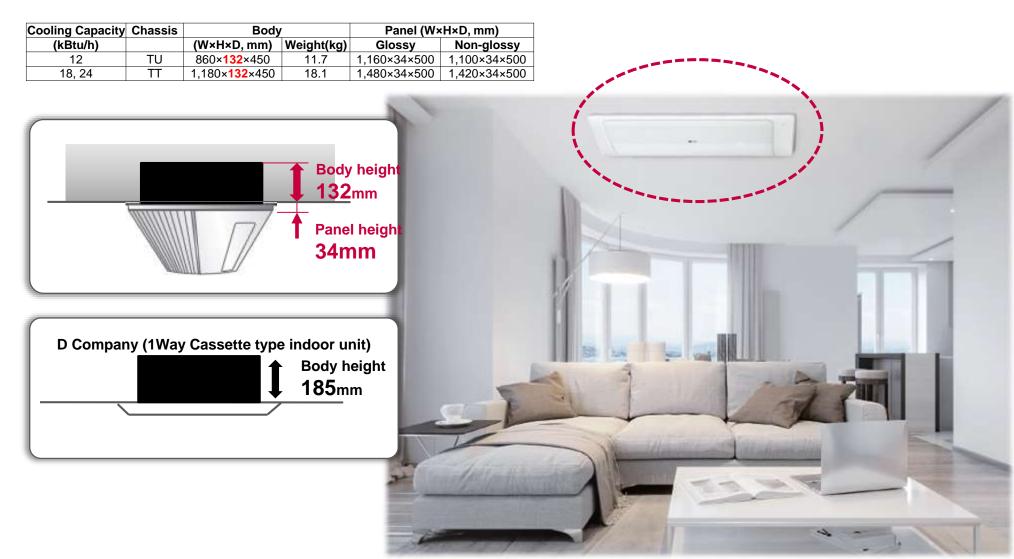






Slim & compact design not only saves space but also reduces installation costs.

The height of 1 Way Cassette is 132mm, making it the ideal solution for installation in limited space.



Low noise 1Way Cassette

The optimal design for indoor units reduces noise to 33dB(A) to maintain a quiet and comfortable indoor environment. Due to low noise operation, it is highly preferred for residential applications to provide comfort.



^{*}Sound pressure level value are measured at Noise Measuring chamber accordance with LG Internal standard

^{* 12}kBtu/h Single model



Inverter Single Split

Indoor unit

Round Cassette





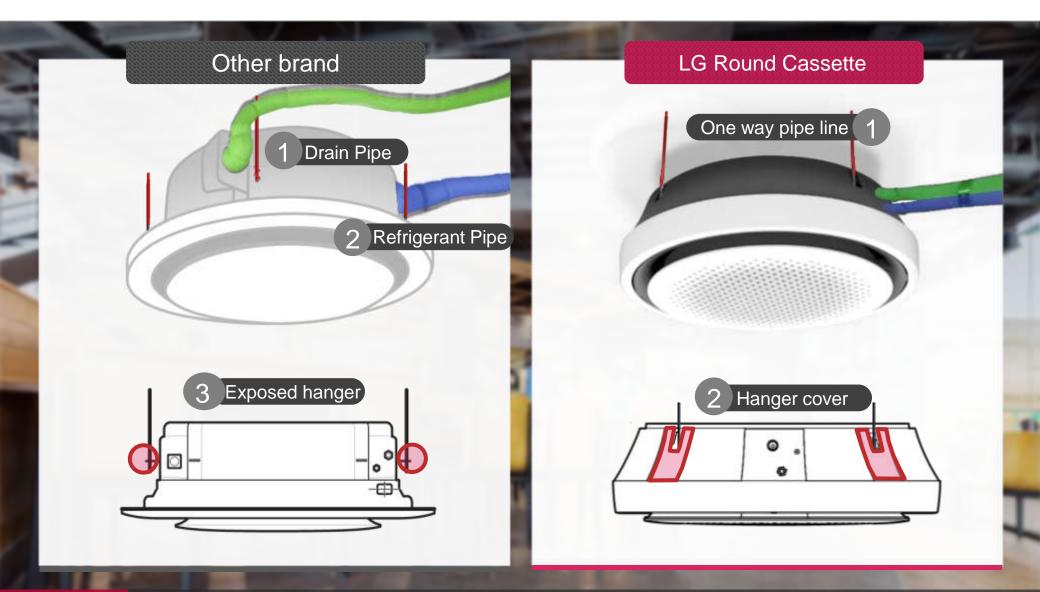
Can make a luxurious space with a round design considering side view



Reduce the height of the body by 15% save space and maximize the openness of the interior space.



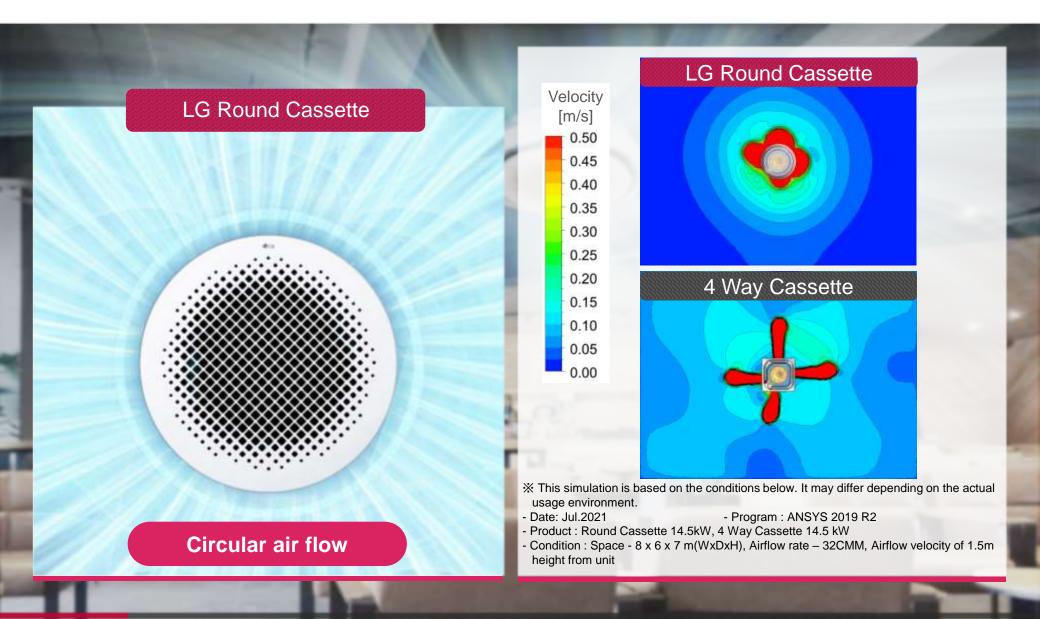
Pipes are brought together in one place to minimize exposure. Hanger covers hide installations to add a clean look.



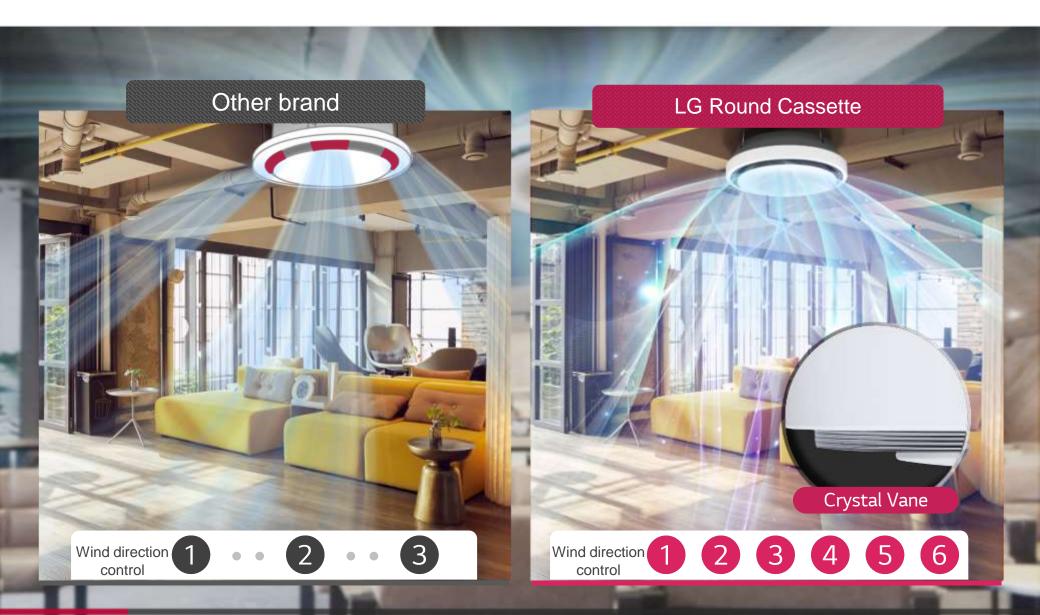
Round air flow for more even air distribution



Round air flow for more even air distribution



With crystal vein for 6-step precision control, you can send cool air wherever you want.





Inverter Single Split

Indoor unit Ceiling Suspended

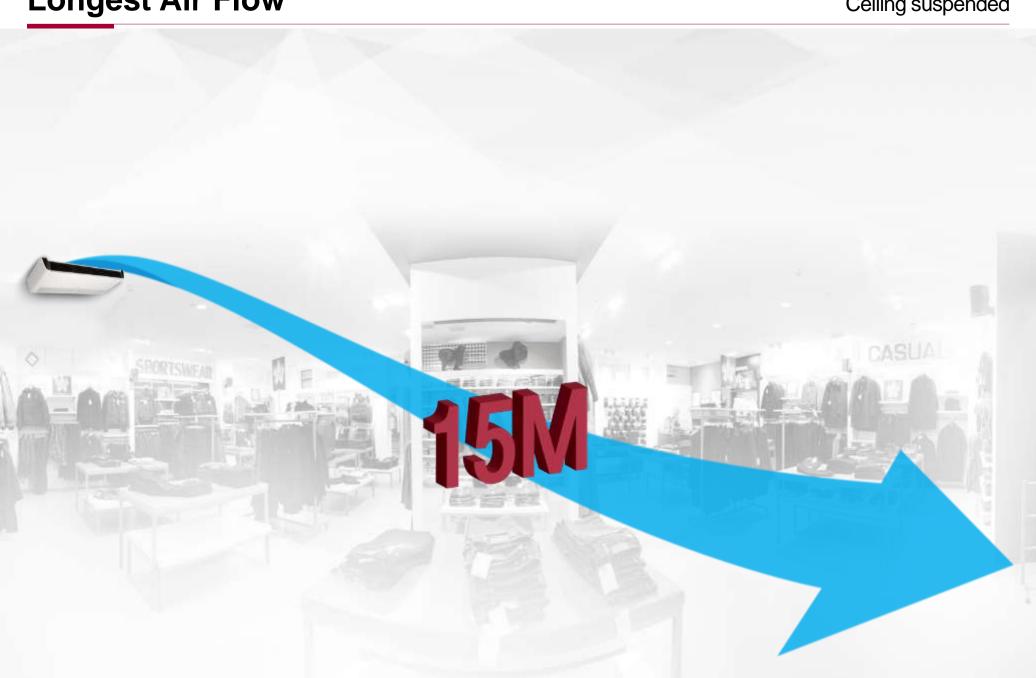




LG Ceiling Suspended Unit can make the interior space even more stylish through the V-shaped design and the black vane that have won the International Design Award.







Easy Accessible Screw

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



Easy Filter Maintenance

The filter can be easily detached from the indoor unit, and the filter can be washed with water and reused again.





Inverter Single Split

Indoor unit

Floor Standing





The new LG floor standing air conditioner is ideal for modern interiors in your office or restaurant.

New





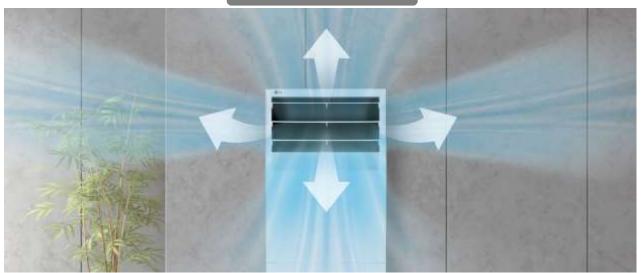
Stylish Design

Powerful Airflow Floor standing

LG floor standing air conditioner is efficient for using in large areas due to its powerful cooling operation. powerful air speed and volume means the air flow can reach up to 20 m away from the air conditioner.



4WAY AUTO SWING



Airflow rate



Power cooling function provides the optimal air flow angle, guaranteeing a faster and higher cooling performance.



Power Cooling Mode

Strong cooling will be conducted in short time.

- 1 Press (button to turn on the indoor.
- 2 Press button to operate power cooling mode.
- Fan speed automatically changes to 'Super High' stage
- Setting temperature automatically changes to 18℃
- Horizontal Louver fixed at the highest position for even & long distance air distribution



* 54 kBtu/h Model



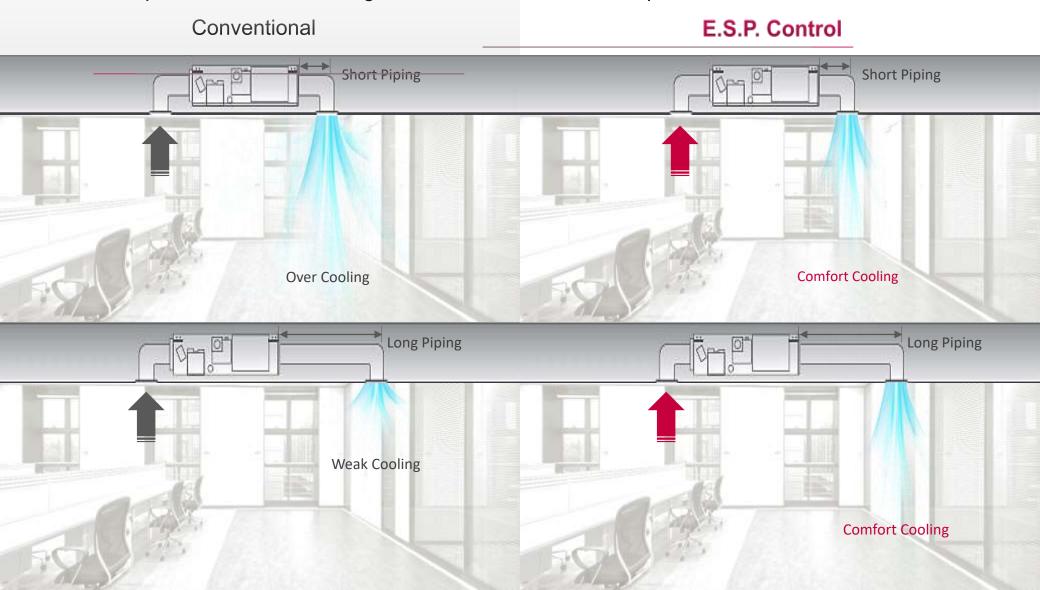
Inverter Single Split

Indoor unit Ceiling Concealed Duct

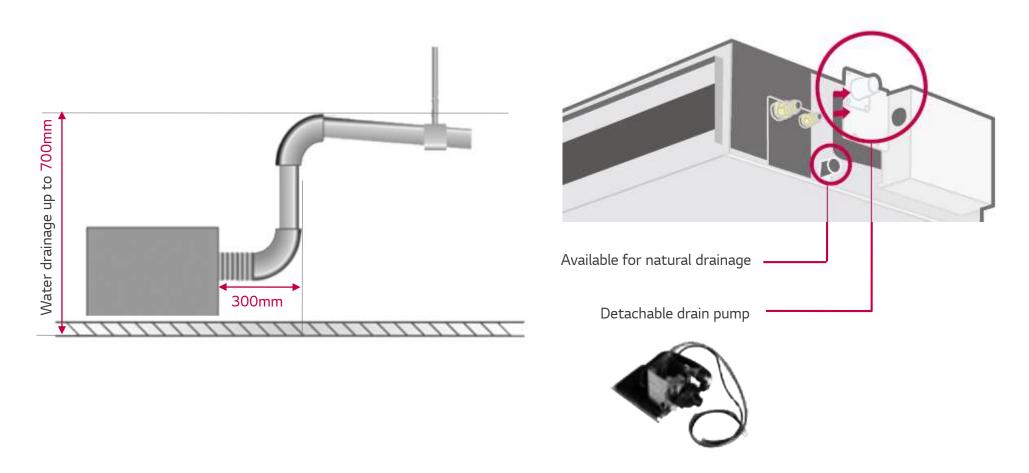




E.S.P. control function can make air volume controlled easily with remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure.



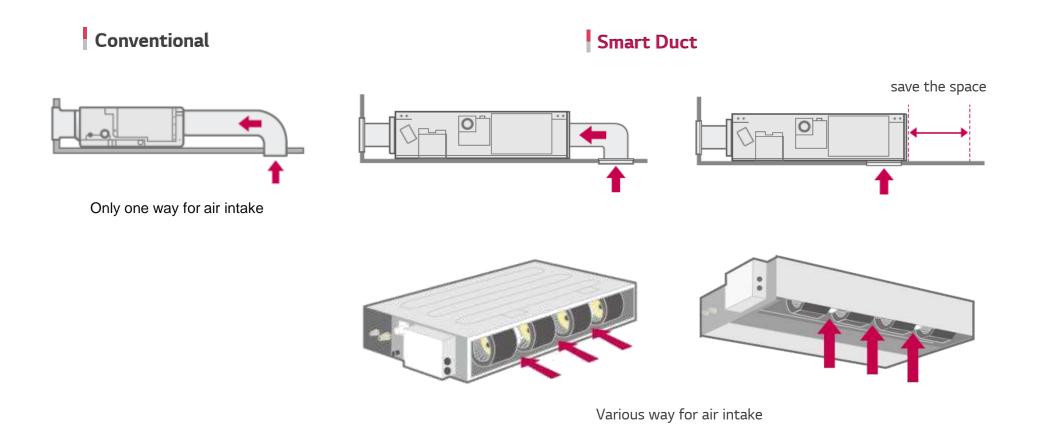
High head drain pump automatically drains water up to a height of 700mm of drain-head height. It provides the perfect solution for draining of water.



The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. Two thermistors can check the optimum indoor air temperature for a more comfortable environment.



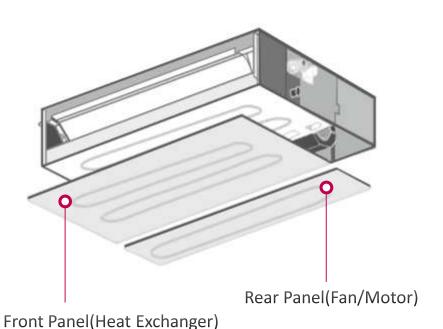
The new low static duct allows the air intake at the rear or bottom under installation condition.



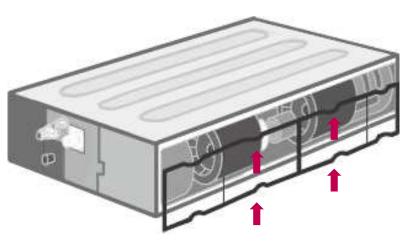
Users don't need to open whole panel for maintenance, since panel is divided into one for heat exchanger and one for fan/motor.

Easily detach and attach the filter even in limited space.

Selective panel separation

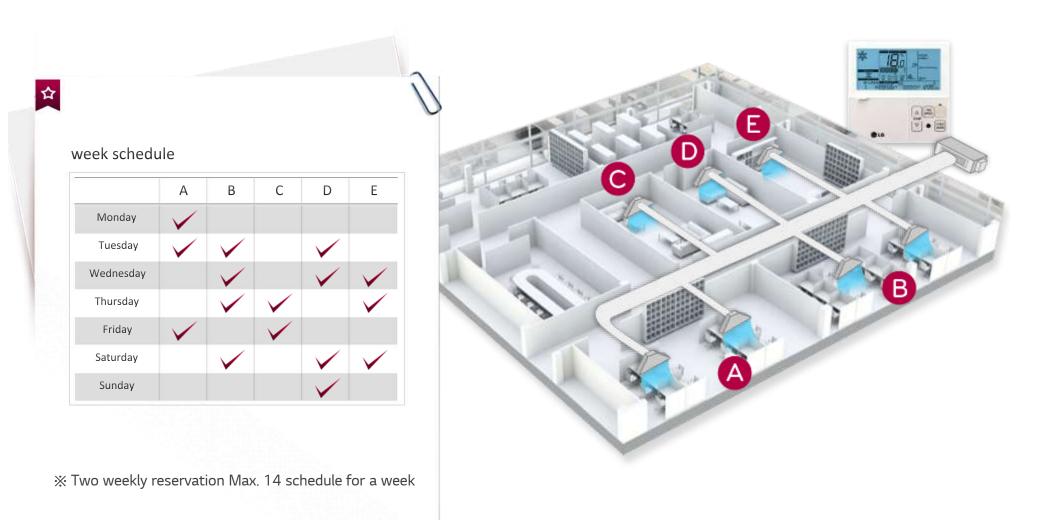


Easily detachable Filter



Easily detach / Attach filter

You can set the daily temperature and automatic on/off time for one week. It will keep running on that time until cancelled by the user.



[Specification] Single CAC

Outdoor Unit Specification		AUUQ12GA0	AUUQ18GA0	AUUQ24GA0	AUUQ36GA0	AUUQ60GA0	AUUQ36LA0	AUUQ60LA0	
Classification	Chassis	Unit	U12A	U18A	U24A	U36A	U36A	U36A	U36A
Power Supply	#1	-	220~240, 1, 50/60	220~240, 1, 50/60	220~240, 1, 50/60	220~240, 1, 50/60	220~240, 1, 50/60	380~415, 3, 50/60	380~415, 3, 50/60
	#2	-	-	-	-	-	-	-	-
	Limit Range of Voltage	V	187~276	187~276	187~276	187~276	187~276	342~456	342~456
Outdoor Fan	Туре	-	Axial Fan						
	Air Flow Rate(Max)	m'/min x No.	28 x 1	50 x 1	50 x 1	60 x 1	60 x 1	60 x 1	60 x 1
	Max. External Static Pressure	mmAq	-	-	-	-	-	-	-
Outdoor Fan Motor	Туре	-	BLDC						
	Drive	-	External						
	OutPut	W x No.	43.0 x 1	43.0 x 1	85.0 x 1	124.0 x 1	124.0 x 1	124.0 x 1	124.0 x 1
	Туре	-	Twin Rotary						
	Model x No.	-	DST102M x 1	DAT156M x 1	DKT208M x 1	DPT442M x 1	DPT442M x 1	DPT442M x 1	DPT442M x 1
Compressor	Motor Type	-	BLDC						
Compressor	Motor Output	W x No.	1,050 x 1	1,500 x 1	1,500 x 1	4,000 x 1	4,000 x 1	4,000 x 1	4,000 x 1
	Oil Type	-	FW68D						
	Oil Charging amount	cc x No.	280 x 1	400 x 1	670 x 1	1,300 x 1	1,300 x 1	1,300 x 1	1,300 x 1
	Rows x Columns x FPI	-	2 x 22 x 18	2 x 24 x 18	2 x 28 x 18	2 x 38 x 18	3 x 38 x 18	2 x 38 x 18	3 x 38 x 18
	No.	-	1	1	1	1	1	1	1
Heat Evelopeer	Fin Type	-	Louver						
Heat Exchanger	Corrosion Protection (Coating)	-	-	-	-	-	-	-	-
	Material (Tube / Fin)	-	-	-	-	-	-	-	-
	Face Area	m²	0.31	0.41	0.55	0.75	0.74	0.75	0.74
Dimensions	Net(W x H x D)	mm	717 x 483 x 230	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330			
Dimensions	Shipping(W x H x D)	mm	842 x 530 x 322	-	1046 x 713 x 461	1065 x 918 x 461			
Weight	Net	kg	24.2	30.9	41.5	59.5	66.9	60.8	65.1
vveigni	Shipping	kg	25.8	33.2	46.1	67.4	75.2	68.7	73.4
F	Color	-	Warm Gray						
Exterior	RAL (Classic)	-	RAL 7044						
Refrigerant	Туре	-	R32						
	Control Type	-	EEV						
	Liquid	mm(inch)	Ф6.35 (1/4)	Ф6.35 (1/4)	Ф9.52 (3/8)				
	Gas	mm(inch)	Ф9.52 (3/8)	Ф12.7 (1/2)	Ф15.88 (5/8)				
Pipe Connecting Socket	Connection Type(Liquid)	-	Flare						
	Connection Type(Gas)	-	Flare						
Connecting Cable	Power Supply Cable(H07RN-F)	mm² × cores	2.5 x 3C	2.5 x 3C	2.5 x 3C	4.0 x 3C	4.0 x 3C	2.5 x 5C	2.5 x 5C

Appendix. Wide Voltage Range

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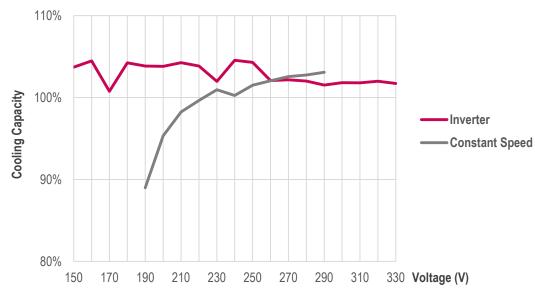
<Test Purpose>

- 1. Confirm the stable cooling capacity of the inverter product according to the voltage change when compared to that of the constant speed product.
- Confirm superiority of the voltage range of the inverter product when compared to that of the constant speed product.

<Test Condition>

- 1. Temperature : Indoor_35°CDB, 24°CWB / Outdoor_27°CDB, 19°CWB
- 2. Product
 - Inverter: AT-Q36GMLT0 (Rated Cooling Capacity, 34,100 Btu/h)
 - Constant : FHA-H3600T3 (Rated Cooling Capacity, 36,000 Btu/h)
- 3. Method
 - Measure the cooling capacity by lowering the voltage by 10V from 230V to 150V.
 - Measure the cooling capacity by increasing the voltage by 10V from 230V to 340V.
 - The test will stop when the product is powered off.
 - In case of the inverter product, the test is conducted based on 100% cooling capacity.
 (Comp 48Hz / EEV 220 Pulse)

Cooling Capacity according to Voltages



Voltage	Inv	erter	Constan	it Speed
150	35,363	104%		
160	35,624	104%		
170	34,357	101%		
180	35,547	104%	Off	
190	35,410	104%	32,036	89%
200	35,397	104%	34,323	95%
210	35,550	104%	35,365	98%
220	35,414	104%	35,872	100%
230	34,771	102%	36,346	101%
240	35,654	105%	36,092	100%
250	35,565	104%	36,542	102%
260	34,807	102%	36,741	102%
270	34,842	102%	36,922	103%
280	34,787	102%	36,994	103%
290	34,623	102%	37,111	103%
300	34,723	102%	Off	
310	34,713	102%		
320	34,777	102%		
330	34,684	102%		
340	34,754	102%		

Appendix. Human Detection Function (1)

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The detailed explanation of operating logic regarding human detection function

If no one is detected for the 'judgement time', IDU is turned off / If anyone is detected, IDU is turned on



Judgement time: 30 min (default)

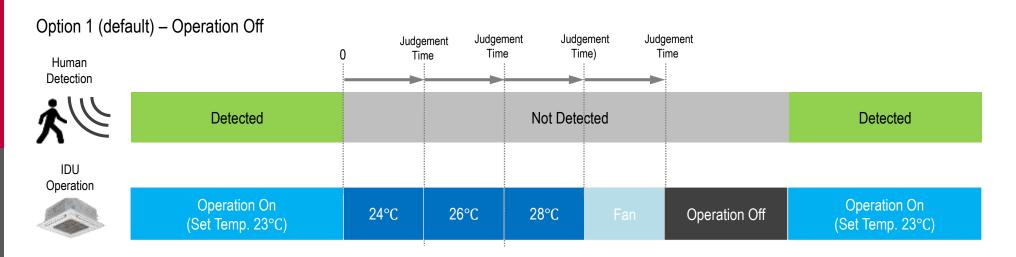
Setting: 5 ~ 90 min

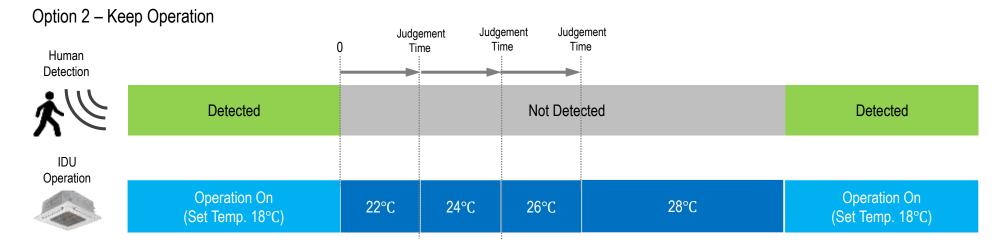
Appendix. Human Detection Function (2)

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If no one is detected for the 'judgement time', IDU changes setting temperature at every judgement time If anyone is detected, IDU changes setting target temperature back to user's set temperature

Cooling

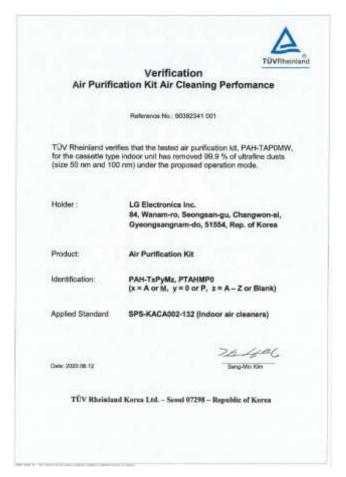




Appendix. Air Purification Kit Air Cleaning Performance(4Way CST)



Verification for Ultrafine dust removal



- Ultrafine dust removal (50 nm, 100 nm): 99.9% removed

Verification for Cultivable bacteria and virus removal



- Virus (Bacteriophage Phi-X174): 99.9% removed within 30 minutes
- Bacteria (Staphylococcus): 99.9% removed within 60 minutes

Appendix. Air Purification Kit Air Cleaning Performance(1Way CST)



Verification for Ultrafine dust removal



- Ultrafine dust removal (50 nm, 100 nm): 99.9% removed

Verification for Cultivable bacteria and virus removal



- Virus (Bacteriophage Phi-X174): 95.3% removed within 30 minutes
- Bacteria (Staphylococcus): 91.2% removed within 60 minutes

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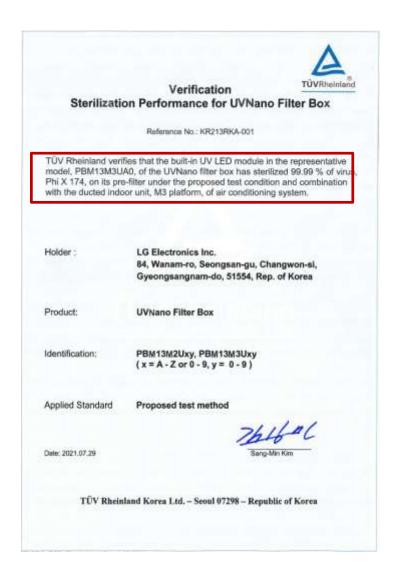
Appendix. Air Purification Kit Air Cleaning Performance(Duct kit)

99.99% sterilization capability against virus parasitized on bacteria in accordance with TUV Rheinland Standard

Certified Test Report

**Tested by TUV Rheinland Standard

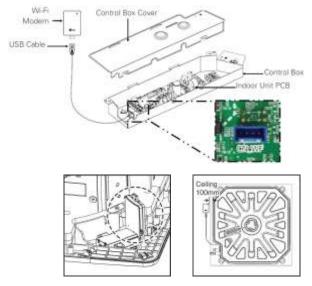




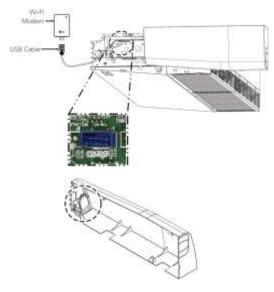
App. Accessory Installation

Wi-Fi Modem (PWFMDD200)

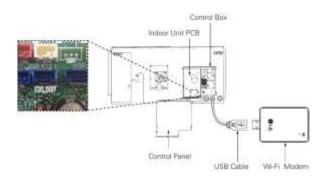
4Way Ceiling Cassette



Ceiling Suspended Unit



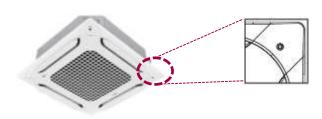
Ceiling Concealed Duct



- *Wi-Fi paring setting is possible with RS3 or RS2 wired remote controller. (PREMTB100 / PREMTB100 / PREMTB001 / PREMTBB01)
- ※ Wi-Fi default panel (PT-AFGW0, PT-AEGW0), Wi-Fi accessory panel (PT-AAGW0)

Human detection sensor (PTVSAA0)

4Way Ceiling Cassette





App. Individual Controller

• B&W : Black & White

С	ategory	Image	!	Model		Contents
	Premium	2551 1 0 0	PREMTA000 English Portuguese Spanish French	PREMTA000A English Italian Russian Chinese	PREMTA000B English German Polish Czech	 5 inch color display Touch screen Group control (Max 16 indoor units) Temp. /Humid. → Humidity sensing
Wired Remote	Standard III	150ms at 16 ⊕ decrete 270 ⊕ (270) ⊕ (PREMTB100 (White)	② -270 ③ ⇒ < ç > > ∞	PREMTBB10 (Black)	 4.3 inch color display Touch button Group control (Max 16 indoor units) Temp./Humid. → Humidity sensing 1 digital output available(on/off)
Controller	Standard II		PREMTB001 (White)		PREMTBB01 (Black)	 4.3 inch B&W display Physical button Group control (Max 16 indoor units) 2-remote controller control Temp. sensing Schedule function
	Simple	PQI	RCVCLOQW (White) RCHCAOQW nite, for Hotel)		PQRCVCLOQ (Black) PQRCHCAOQ (Black, for Hotel)	 2.6 inch B&W display Physical button Group control (Max 16 indoor units) 2-remote controller control Temp. sensing For Hotel: except mode change
	ss Remote ntroller		VRHQ0FDB LSSB21H			2 inch B&W displayPhysical buttonTemp. sensing

App. Centralized Controller

• B&W : Black & White

Category	Image	Model	Contents
AC Manager 5 Max 8,192 units	`17	PACM5A000 - Integration for multiple ACP and AC Smart	 PC Access Controller Supports 32 ACP 5 or AC Smart 5 Supports Chrome(Recommended), Safari, Internet Explorer 11
ACP 5 Max 256 units	`18	PACP5A000 - BACNet IP / Modbus TCP	 PC Access Controller DC 12 V Adaptor RS-485: 6 channels CH1~4: indoor Units CH5: LGAP(AHU) or Modbus(AHU, Chiller, ACS I/O) CH6: Modbus(AHU, Chiller, ACS I/O) DI 10EA, DO 4EA(DI1: Emergency stop Only)
AC Smart 5 Max 128 units	`18	PACS5A000 - 10.2 inch Touch LCD - BACNet IP / Modbus TCP	 10.2 inch color display / Touch screen DC 12 V adaptor RS-485: 2 channels CH1: LGAP(AHU) or
AC Ez Touch Max 32 units	`16	PACEZA000 -5 inch Touch LCD	 5 inch color Display / Touch screen DC 12 V adaptor RS-485: 1 channel DI 1EA(Emergency stop Only)
AC Ez Max 32 units	11	PQCSZ250S0	 B&W Display & 18 LED Button control DC 12 V RS-485: 1 channel