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LG Smart Inverter COMMERCIAL AIR CONDITIONERS | FLOOR STANDING UNIT



LG COMMERCIAL AIR CONDITIONERS • FLOOR STANDING UNIT

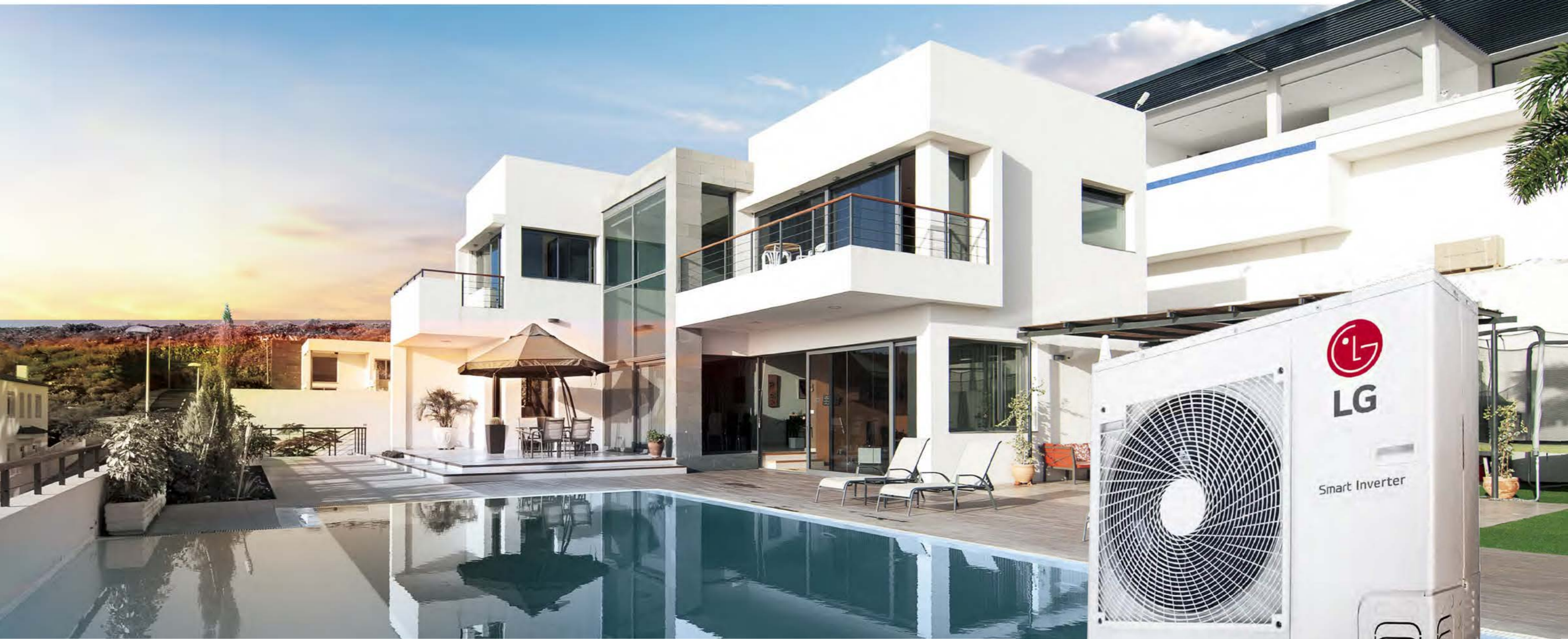
YALLA GREEN
يلا أخضر.

FOR MIDDLE EAST & SAUDI ARABIA

Making the way for a more refreshing future with every breeze.
Enjoy the only GREEN-certified energy-efficient air conditioners in the kingdom.
تمهد الطريق لمستقبل أكثر انعاشاً مع كل نسمة. استمتع بأجهزة التكييف الوحيدة الحاصلة على تصنيف (أخضر) في كفاءة الطاقة في المملكة.

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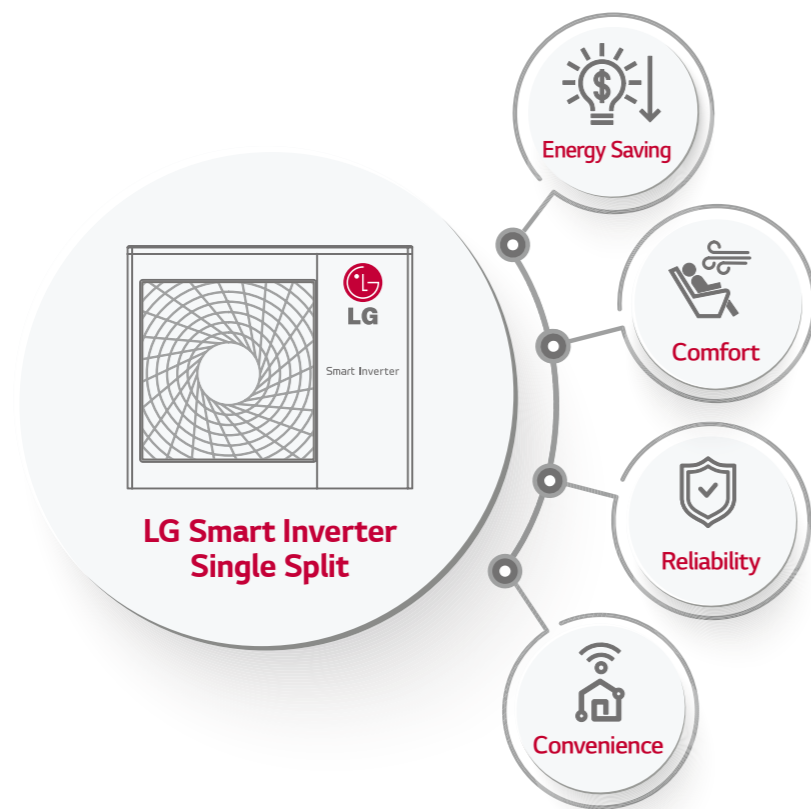
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• Energy Saving • Comfort • Reliability • Convenience	

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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.



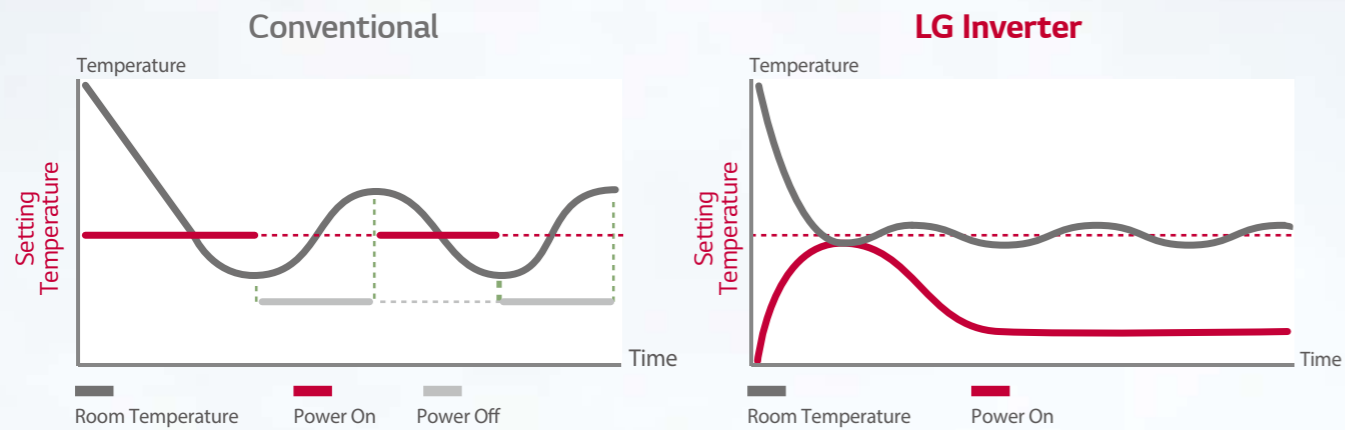
Simple Test Run Via LGMV

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.

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.

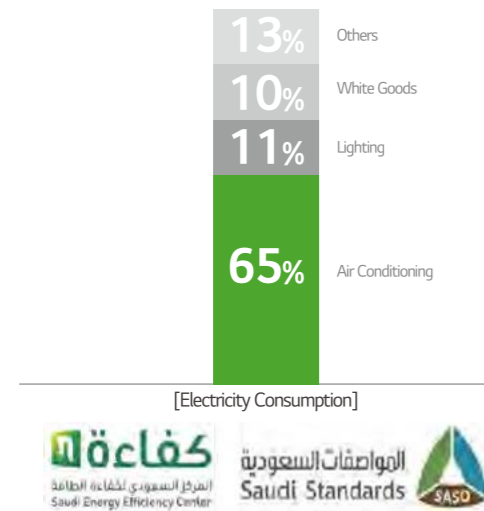
The Inverter Single Split is able to produce an impressive volume of cool air, helping to create the perfect indoor temperature quickly, as well as delivering fast and efficient cooling. LG's latest solution can also minimize electricity consumption.



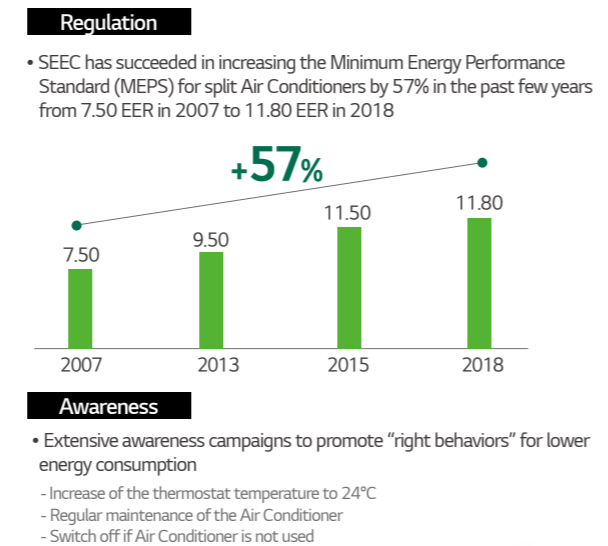
SAUDI ARABIA NEW ENERGY EFFICIENCY REGULATION

Regulations on the efficiency of partial cooling loads are expected to expand to the Middle East region gradually

Cooling accounts for most of the electricity consumption in buildings



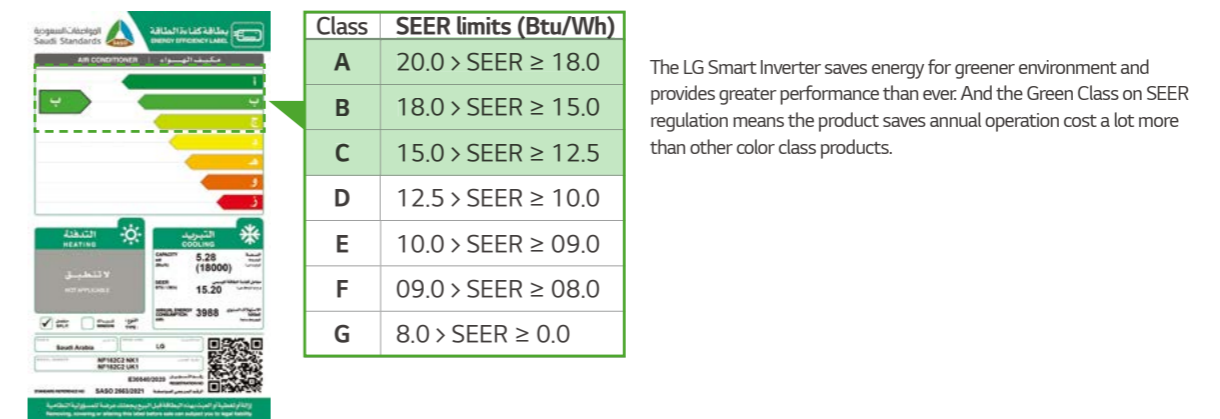
To reduce the energy consumption by Air Conditioning, SEEC has leveraged all the available levers, e.g. regulation, awareness



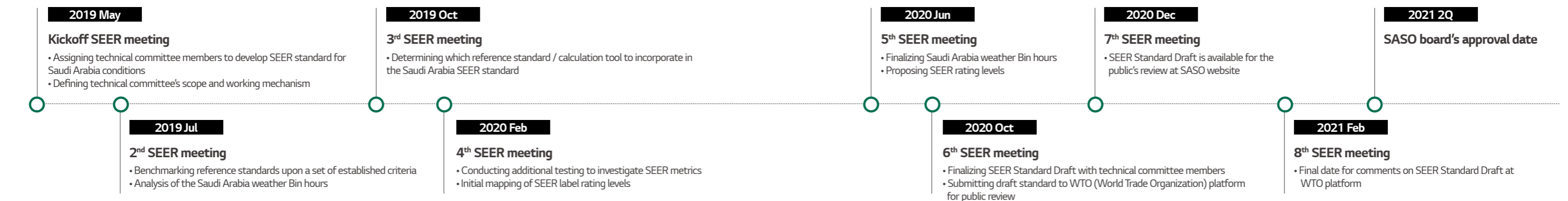
Rational shifting from EER to SEER and Overview of draft Seasonal Energy Efficiency Ratio (SEER) Standard Draft

Metric	Energy Efficiency Ratio (EER)	Seasonal Energy Efficiency Ratio (SEER)
Calculation Method	• Calculated using constant indoor temperature as well as constant outdoor temperature	• Calculated using constant indoor temperature and varying outdoor temperature
Rationale Introducing SEER Metric	• Dependent on fixed parameters and does not differentiate between fixed and variable capacity	• Could be applied for fixed capacity and for variable capacity air conditioners
Rationale Introducing SEER Metric	• More accurate metric in measuring the efficiency of air conditioners than EER • Penetration of air conditioners which operate at partial load into the market • Fair metric towards air conditioners which operate at partial load (air conditioner with inverter technology) • Inclusion of annual energy consumption calculation as part of the calculation tool to find SEER	
Reference Standards	AHRI AIR CONDITIONING, HEATING, & REFRIGERATION INSTITUTE	ISO EUROVENT CERTITA

According to the SEER standard, it can be seen that Green class products have superior energy efficiency.



An approach applied to develop the Seasonal Energy Efficiency Ratio (SEER) standard for Saudi Arabia's specific conditions

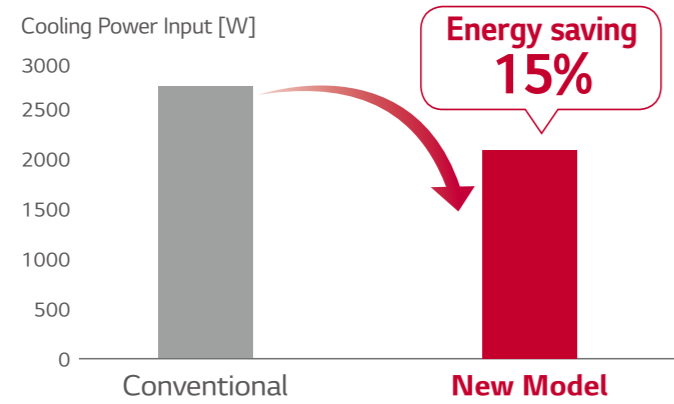


LG INVERTER SINGLE SPLIT

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 CONCEALED DUCT



• 4 WAY CASSETTE



• ROUND CASSETTE





※ New Panel : PT-MCHW0



• FLOOR STANDING



SINGLE SPLIT **LINE-UP**

Capacity	kW (Rated - Max)	14.1-15.5	16.6-19.0	
Type	kBtu/h (Rated - Max)	48-57	57-65	
Floor Standing Unit	 Deluxe	COOL	●	-
		HEAT	●	-
	 Mosque	COOL	●	-
		HEAT	●	-

7.8	9.4	13.5	15.3
30	36	48	54
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

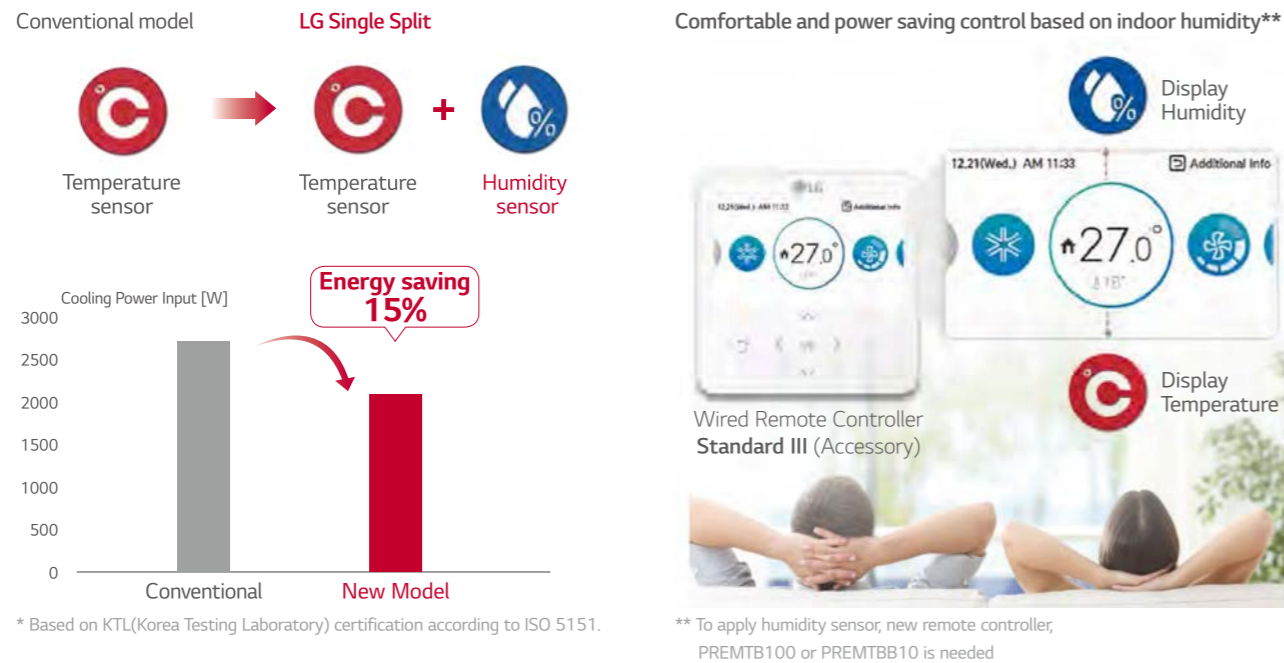
ENERGY SAVING

ENERGY SAVING

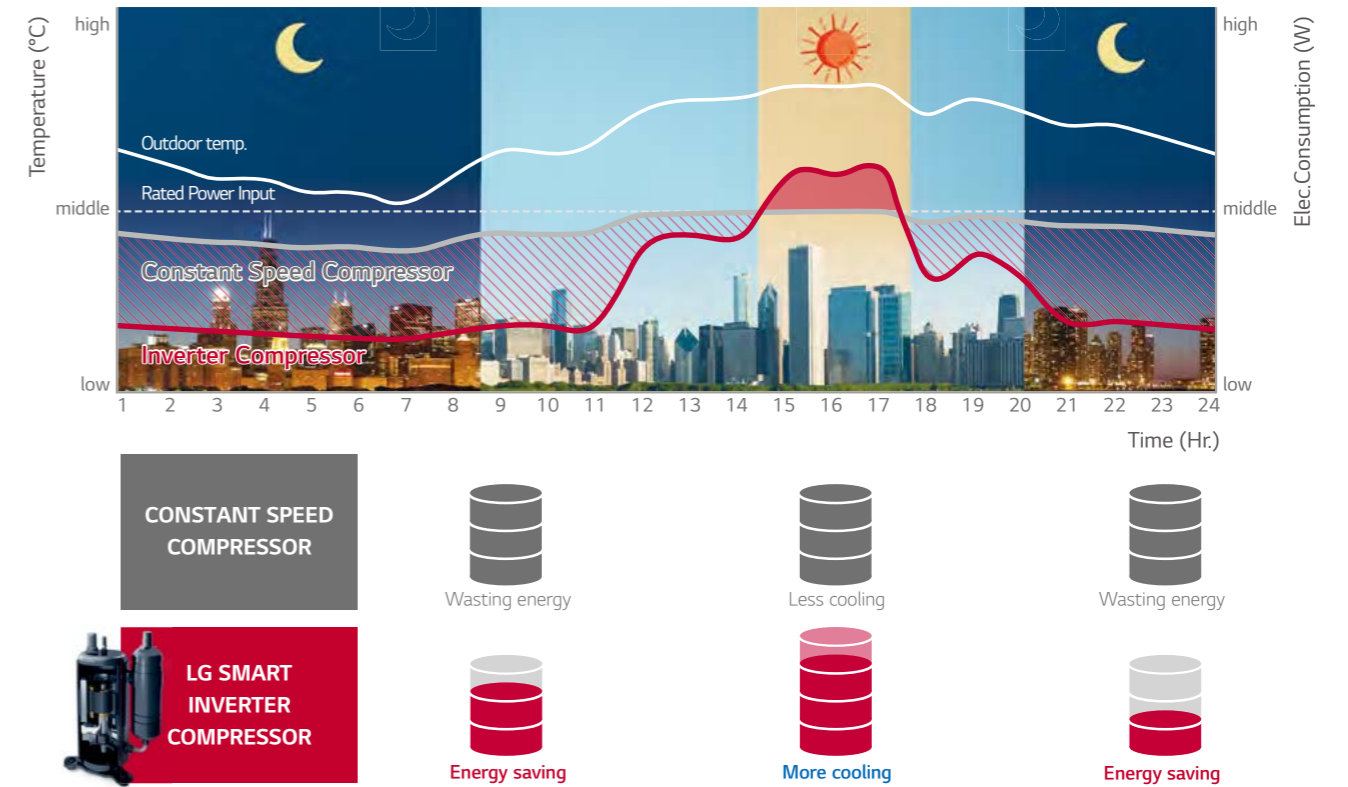
SINGLE SPLIT BENEFIT

COMFORT COOLING WITH HUMIDITY SENSOR

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



BENEFIT OF PARTIAL LOAD PERFORMANCE



LG SINGLE SPLIT (Dry Summer)

Dry Summer 27°C 15%¹⁾

Te²⁾ + α Refrigerants

Comfort: Low to High

Comfortable Environment
By making the room less dry

Increased Energy Efficiency
Provide optimized cooling and save energy considering humidity

Max. 18% Energy Saving*

LG SINGLE SPLIT (Wet Summer)

Wet Summer 27°C 85%¹⁾

Te²⁾ - α Refrigerants

Comfort: Low to High

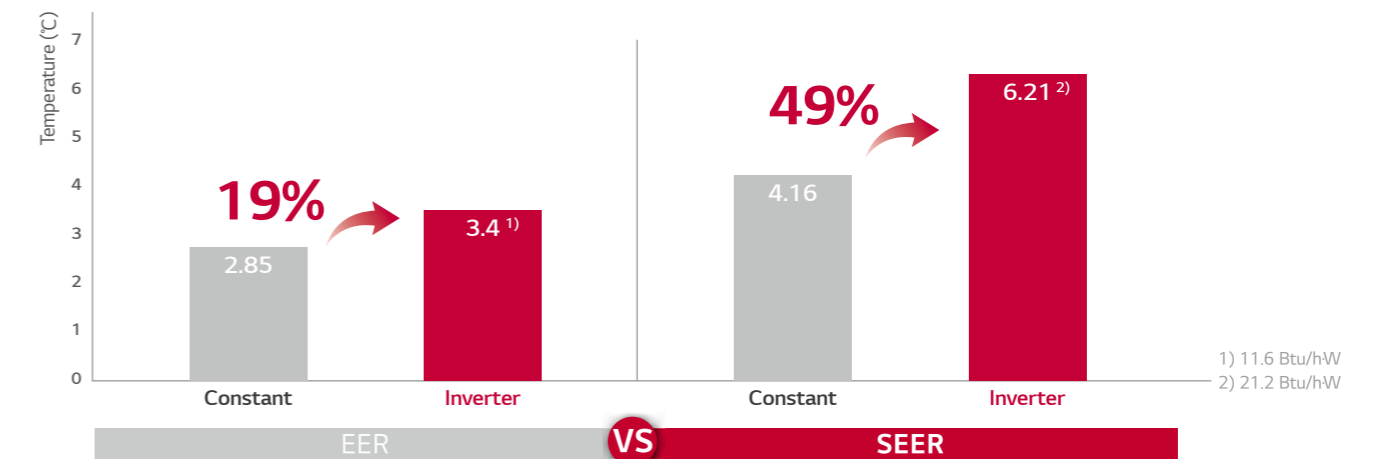
KTL Certification

* Room Temperature : 20 ± 5°C
Humidity : 50 ± 10%
Applied model : AT-18GPLT1

1) Indoor Condition
2) Evaporation Temperature

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.



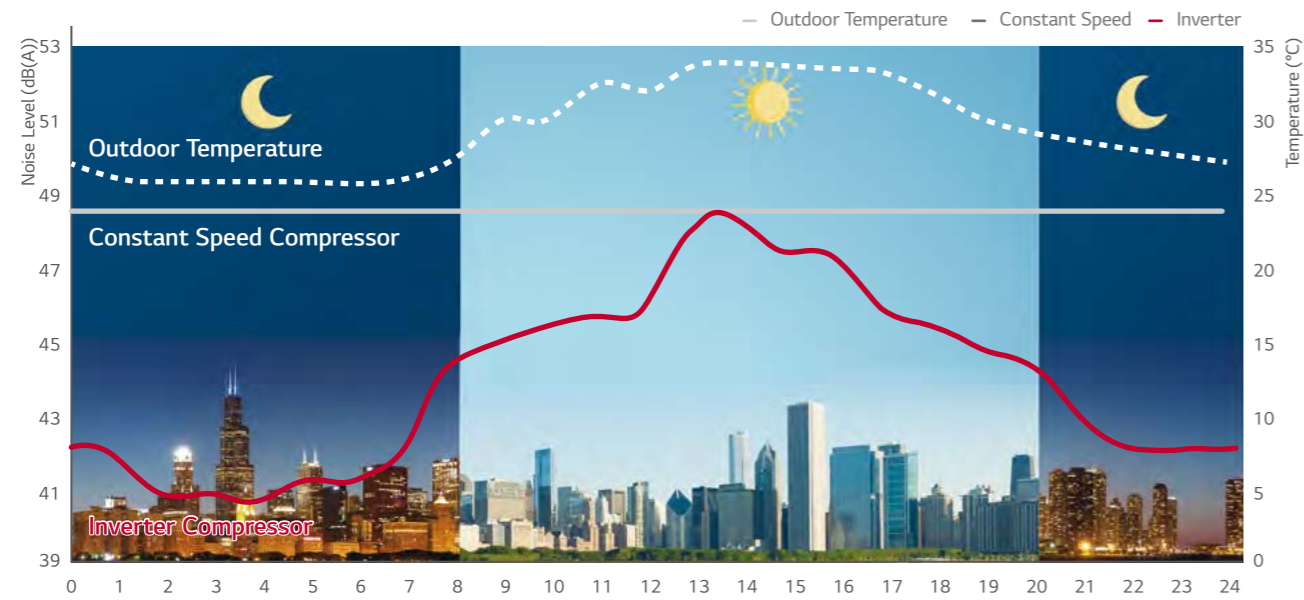
※ EER: Indoor Temp. 27°C (DB) / 19°C (WB), Outdoor Temp. 35°C (DB) / 24°C (WB)
 ※ SEER (seasonal energy efficiency ratio):
 - Indoor Temp. 26.7°C (DB) / 19.4°C (WB)
 - Outdoor Temp. 35°C / 27.8°C / 30.6°C / 27.8°C / 19.4°C (DB)
 * LG internal simulated data

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

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

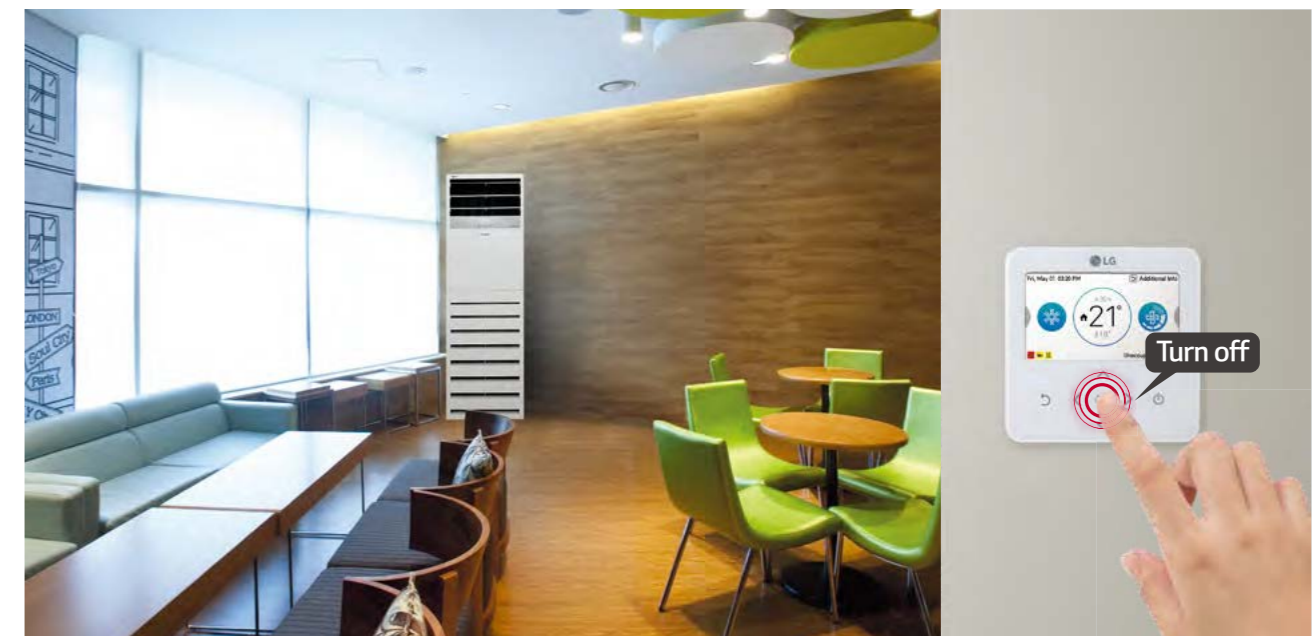
When indoor temperature reaches near to the target temperature, LG Smart Inverter adjusts its discharge air temperature to prevent the indoor from being overcooled.



HEALTH

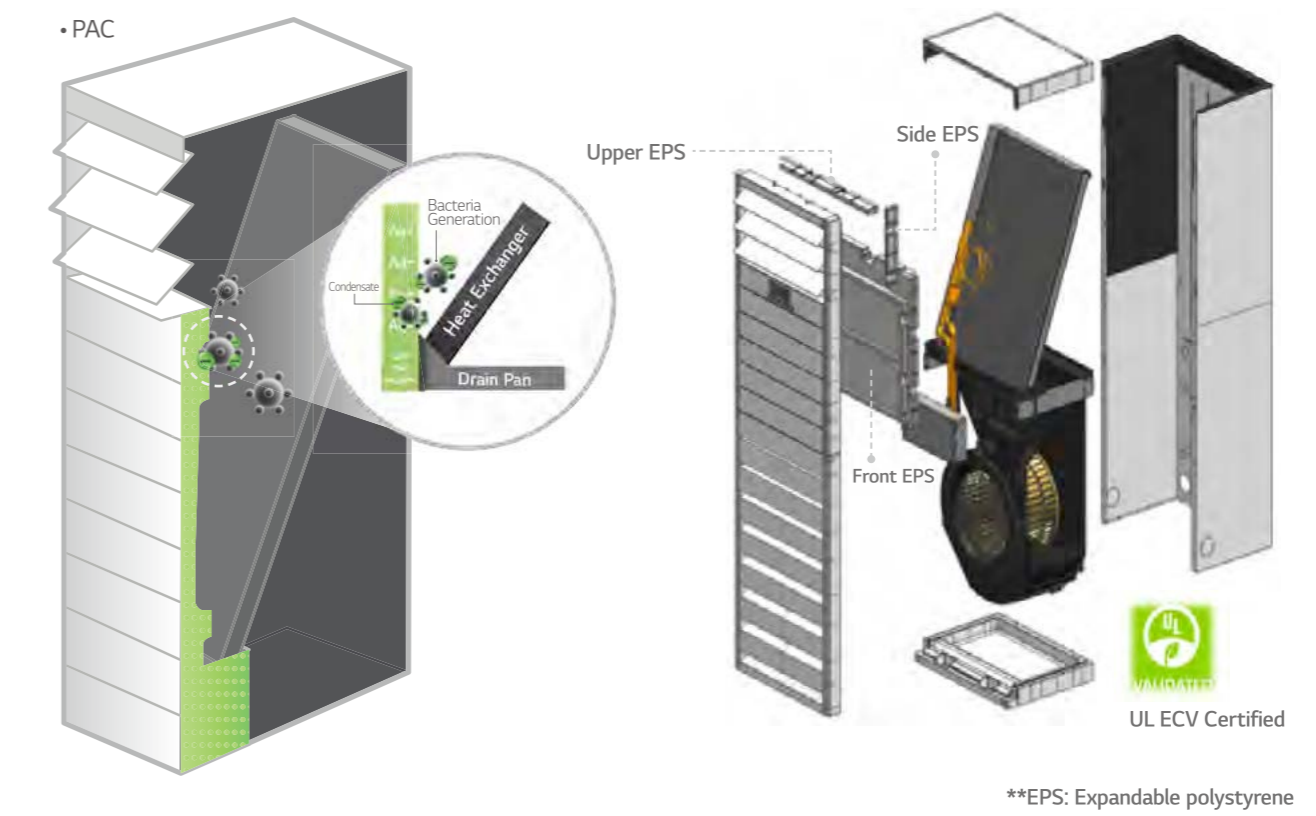
SAFE PLUS INSULATION

Safe Plus Insulation is an anti-microbial treatment applied to internal components of the indoor unit to prevent the growth of mold and provide cleaner and fresher air



*Wired Remote Controller Standard III
 PREMTB100 (White) / PREMTBB10 (Black)

Microbial DNA Destruction through Silver Ions generated from Safe Plus Insulation

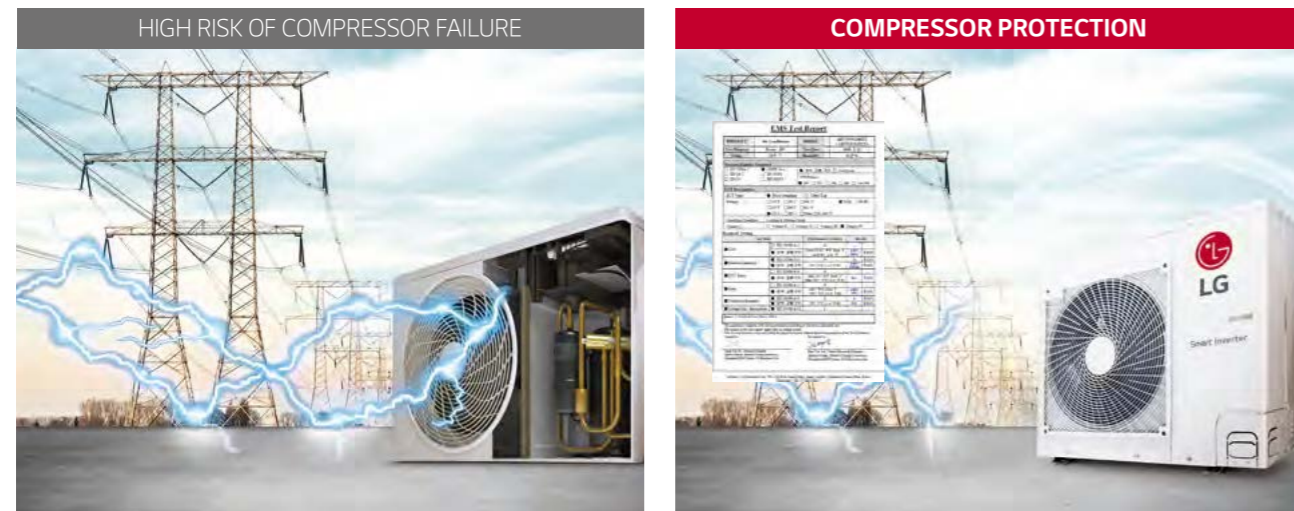


**EPS: Expandable polystyrene

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.

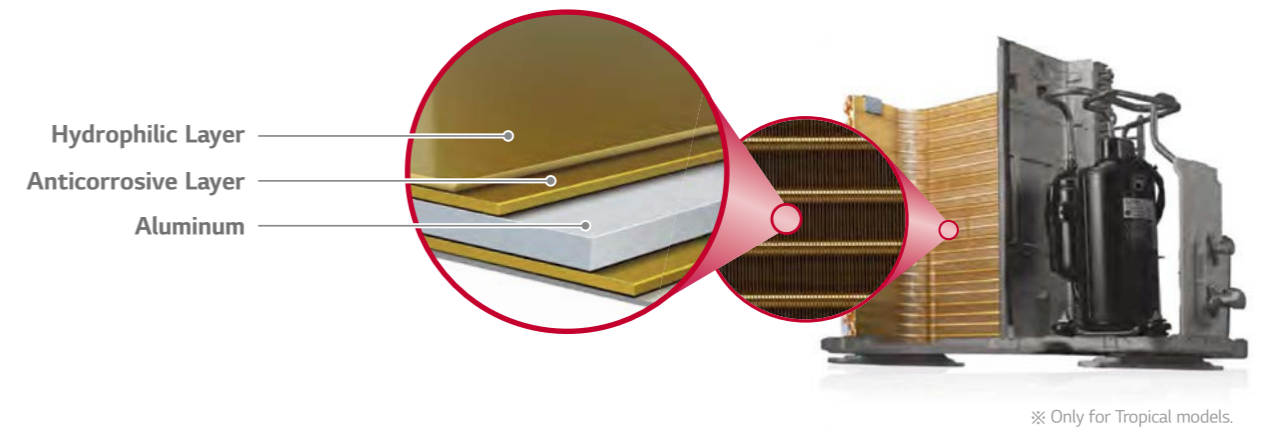


※ Differences of operation range by model type.

RELIABILITY

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.

DETECTION OF REFRIGERANT SHORTAGE

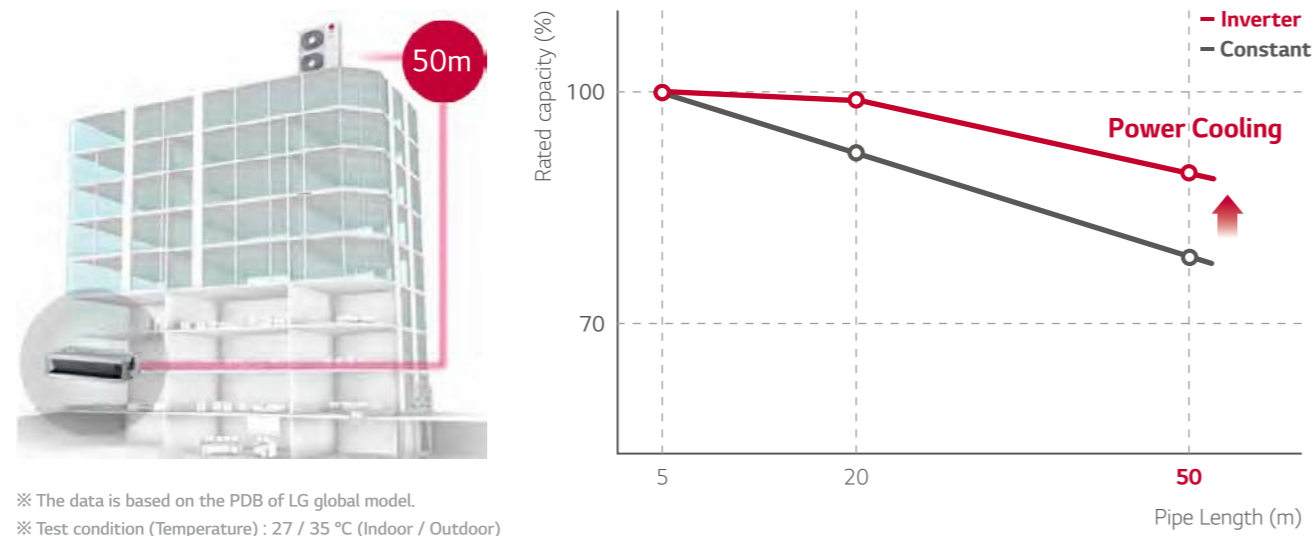
Detect the refrigerant level continuously and judge if the refrigerant insufficient. If the amount of refrigerant is under 60% in the system, it can check the error display of remote controller and running will be stopped.



RELIABILITY

POWER COOLING AT THE LONG PIPE

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



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>Search for a reason of failure easily by using recorded data</p> <p>Save service time and diagnose product more accurately</p> <p>※ It can be checked by using SIMs or LG MV</p>

CONVENIENCE

AUTO ESP CONTROL

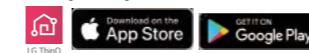
The air volume rate can be controlled automatically according to the external static pressure through setting the Auto ESP(External Static Pressure) Control Function via the wired remote controller. Installers can easily set the air volume rate of the Ceiling Concealed Duct through the Auto ESP Control Function, so end users can reduce the operation cost

MANUAL E.S.P.	AUTO E.S.P.
<p>Long Installation Time</p> <p>Not Performed</p> <p>Energy Wasting</p>	<p>Short Installation Time</p> <p>Automatically</p> <p>Energy Saving</p>

LG ThinQ-1

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

Access your air conditioner anytime and from anywhere



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

CONVENIENCE

CONVENIENCE

SINGLE SPLIT BENEFIT

LG ThinQ-2

Easy Registration and Log-in

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



Wi-Fi Connectivity



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

Simple operation for various functions



On / Off, Current Temp.

Mode, Set Temp.

Vane Control

Straight forward Management



Reservation

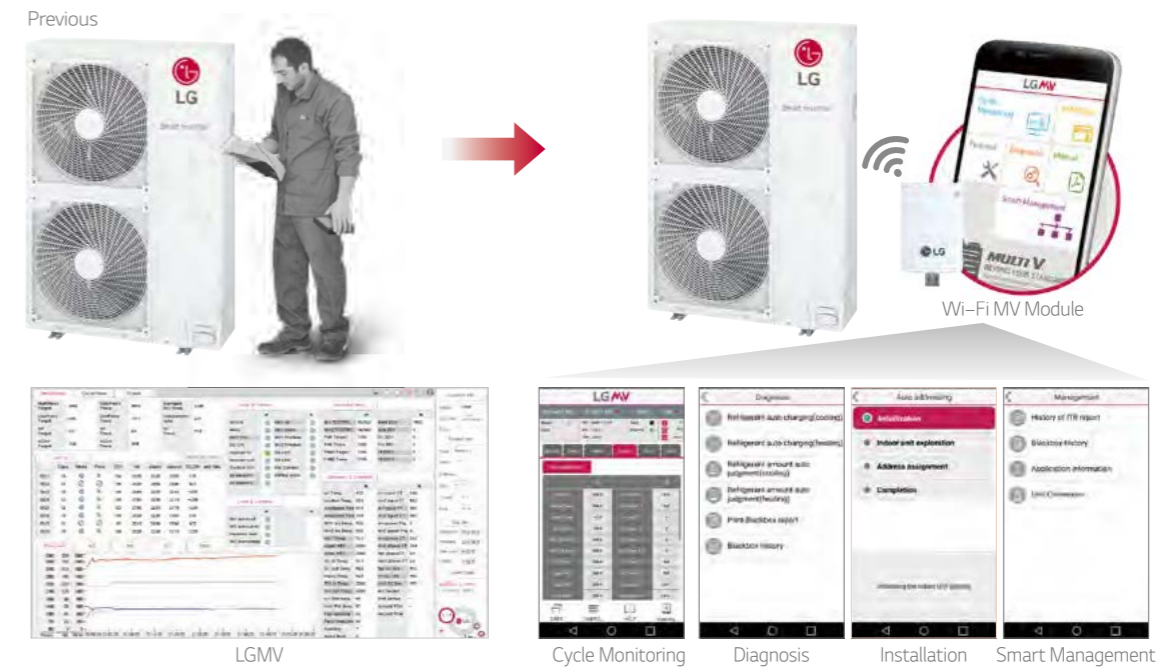
Energy Monitoring

Smart Diagnosis

Filter Management

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.



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.

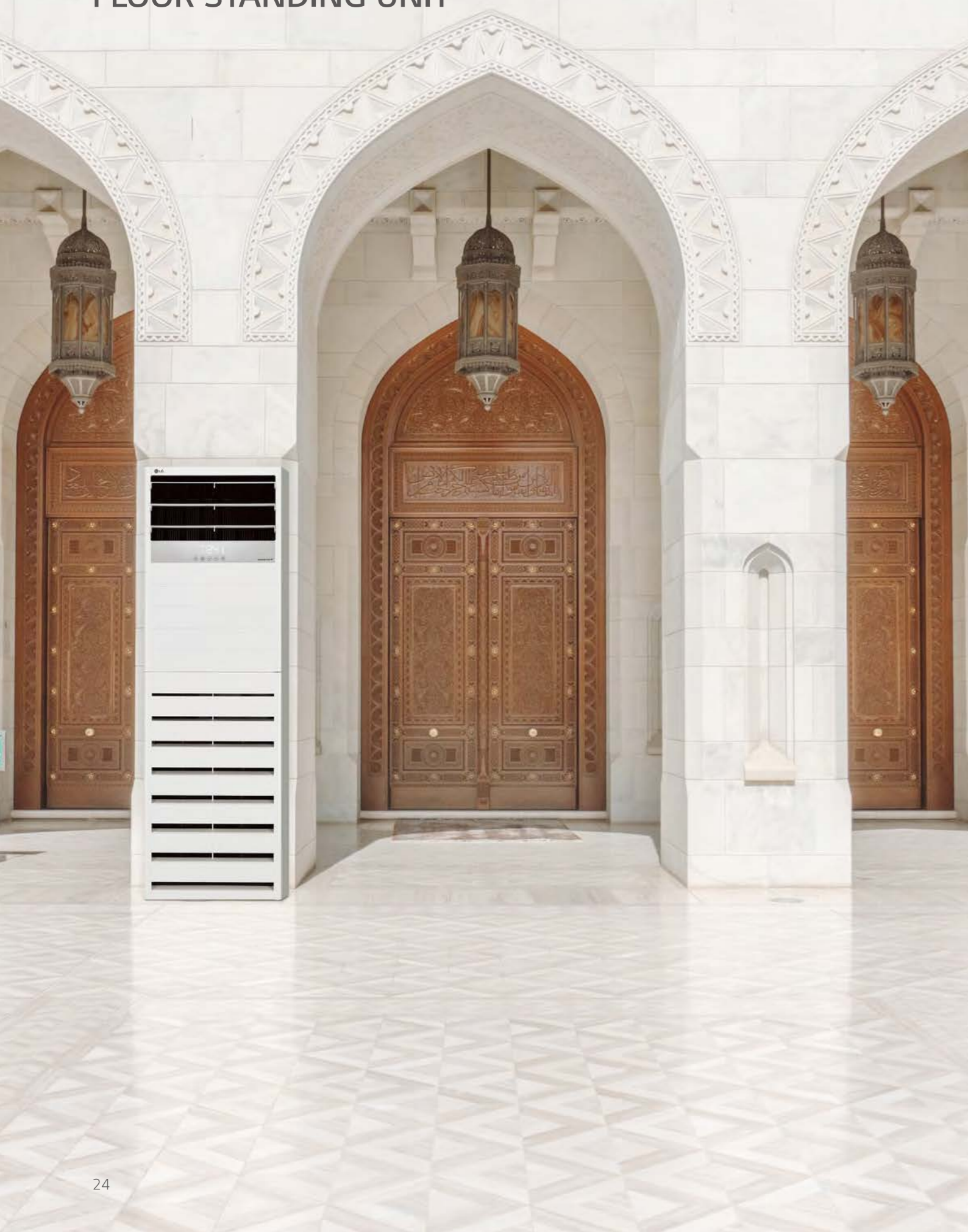
Week Schedule

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

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



FLOOR STANDING UNIT



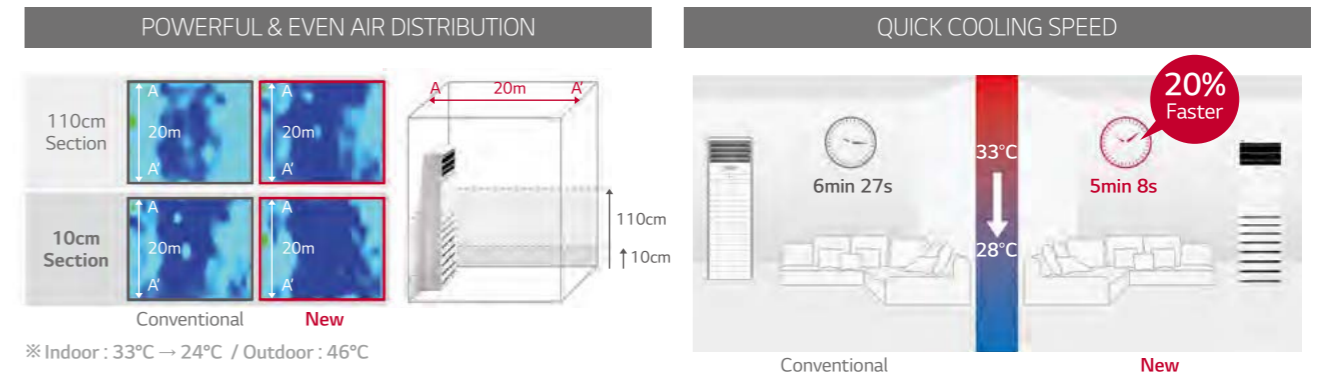
POWERFUL AIRFLOW

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



EXCELLENT COOLING PERFORMANCE

Power cooling function provides the optimal airflow angle, and it guarantees a faster and higher cooling performance.



STYLISH DESIGN

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



SPECIFICATIONS

FLOOR STANDING UNIT - HIGH EFFICIENCY



AUUW55GT6



AUUQ55GT6

TROPICAL HEAT

Combination	Outdoor unit		Unit	AUUW55GT6	AUUW55GT6
	Indoor unit			APNW55GT3E6	APNW55GT3M6
Cooling Capacity (T1) ¹⁾	Min. - Rated - Max		kW	5.58 - 13.50 - 15.50	
			Btu/h	19,100 - 46,000 - 52,900	
Cooling Capacity (T3) ²⁾	Rated		kW	11.7	
			Btu/h	40,000	
Heating Capacity (H1) ³⁾	Min. - Rated - Max		kW	6.15 - 14.80 - 16.70	
			Btu/h	21,000 - 50,500 - 57,000	
Power Input	Cooling (T1) Cooling (T3) Heating (H1)	Rated	kW	3.71	
			kW	4.60	
			kW	3.89	
Efficiency	EER (T1) EER (T3) COP (H1)	Rated	(Btu/h)/W	12.40	
			(Btu/h)/W	8.70	
			W/W	3.80	
Outdoor			Unit	AUUW55GT6	AUUW55GT6
Power Supply			V, ϕ , Hz	230, 1, 60	
Fan & Fan Motor	Air Flow Rate(Max)		m ³ /min x No.	60 x 2	
	Type		-	BLDC	
Compressor	Output		W x No.	124.2 x 2	
	Type		-	Twin Rotary	
Dimensions	Net(W x H x D)		mm	950 x 1,380 x 330	
	Shipping(W x H x D)		mm	1,140 x 1,462 x 461	
Weight	Net		kg	91.3	
	Shipping		kg	99.0	
Exterior	Color		-	Warm Gray	
Refrigerant	Type		-	R410A	
Piping Connection	Liquid		mm(inch)	ϕ 9.52 (3/8)	
	Gas		mm(inch)	ϕ 19.05 (3/4)	
Piping Length	IDU - ODU(Min / Max)		m	5 / 50	
Maximum Height Difference	IDU - ODU(Max)		m	30	
Sound Pressure Level	Cooling		dB(A)	55	
	Heating		dB(A)	57	
Connecting Cable	Power Supply Cable		mm ² x cores	6.0 x 3	
Indoor			Unit	APNW55GT3E6	APNW55GT3M6
Power Supply			V, ϕ , Hz	230, 1, 60	
Indoor Fan	Type		-	Sirocco	
	Air Flow Rate(SH/H/M/L)		m ³ /min	37.0 / 33.0 / 28.0 / 24.0	
Dimensions	Net(W x H x D)		mm	590 x 1,840 x 440	
	Shipping(W x H x D)		mm	690 x 1,940 x 531	
Weight	Net		kg	49.0	
	Shipping		kg	57.0	
Exterior	Color		-	Noble white	
Protection Device	Type		-	Fuse	
Sound Pressure Level	Cooling(SH/H/M/L)		dB(A)	55.0 / 52.0 / 49.0 / 47.0	
	Heating(SH/H/M/L)		dB(A)	55.0 / 52.0 / 49.0 / 47.0	

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
- Heating³⁾: Indoor Temperature 20°C (68°F) DB / 15°C (59°F) WB, Outdoor Temperature 7°C (44.6°F) DB / 6°C (42.8°F) WB

* Due to our policy of innovation some specifications may be changed without notification

TROPICAL COOL

Combination	Outdoor unit		Unit	AUUQ55GT6	AUUQ55GT6
	Indoor unit			APNQ55GT3E6	APNQ55GT3M6
Cooling Capacity (T1) ¹⁾	Min. - Rated - Max		kW	4.44 - 14.05 - 16.12	
			Btu/h	15,200 - 48,000 - 55,000	
Cooling Capacity (T3) ²⁾	Rated		kW	12.6	
			Btu/h	43,000	
Power Input	Cooling (T1) Cooling (T3)	Rated	kW	3.87	
			kW	4.94	
Efficiency	EER (T1) EER (T3)	Rated	(Btu/h)/W	12.40	
			(Btu/h)/W	8.70	
Outdoor			Unit	AUUQ55GT6	AUUQ55GT6
Power Supply			V, ϕ , Hz	230, 1, 60	
Fan & Fan Motor	Air Flow Rate(Max)		m ³ /min x No.	60 x 2	
	Type		-	BLDC	
Compressor	Output		W x No.	124 x 2	
	Type		-	Twin Rotary	
Dimensions	Net(W x H x D)		mm	950 x 1,380 x 330	
	Shipping(W x H x D)		mm	1,140 x 1,462 x 461	
Weight	Net		kg	88.5	
	Shipping		kg	97.0	
Exterior	Color		-	Warm Gray	
Refrigerant	Type		-	R410A	
Piping Connection	Liquid		mm(inch)	ϕ 9.52 (3/8)	
	Gas		mm(inch)	ϕ 19.05 (3/4)	
Piping Length	IDU - ODU(Min / Max)		m	5 / 50	
Maximum Height Difference	IDU - ODU(Max)		m	30	
Sound Pressure Level	Cooling		dB(A)	55	
	Heating		dB(A)	57	
Connecting Cable	Power Supply Cable		mm ² x cores	6.0 x 3	
Indoor			Unit	APNQ55GT3E6	APNQ55GT3M6
Power Supply			V, ϕ , Hz	230, 1, 60	
Indoor Fan	Type		-	Sirocco	
	Air Flow Rate(SH/H/M/L)		m ³ /min	37.0 / 33.0 / 28.0 / 24.0	
Dimensions	Net(W x H x D)		mm	590 x 1,840 x 440	
	Shipping(W x H x D)		mm	690 x 1,940 x 531	
Weight	Net		kg	49.0	
	Shipping		kg	57.0	
Exterior	Color		-	Noble white	
Protection Device	Type		-	Fuse	
Sound Pressure Level	Cooling(SH/H/M/L)		dB(A)	55.0 / 52.0 / 49.0 / 47.0	

* Due to our policy of innovation some specifications may be changed without notification

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.

HOTEL

Hotel Room Solution

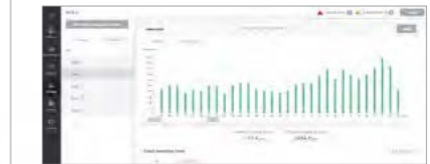


OFFICE

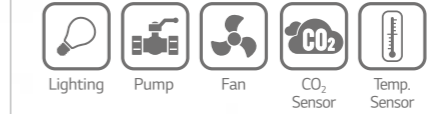
Central Control Solution



• Energy Management



• External Device



APARTMENT

Power Distribution Solution



RESIDENTIAL

Smart Individual Control Solution



SMALL BUILDING

Small Central Control Solution










Integration 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	PQRCVCLQ PQRCVCLQW	PQRCHCA0Q PQRCHCA0QW	NEW PWLSSB21H (H/P) PWLSSB21C (C/O)	PWFMD200
Basic	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)	○	○	○	○	○	-	
Advanced	Schedule / Timer	Weekly-Yearly	Weekly-Yearly	Weekly	-	-	Sleep / On / Off Weekly
	Additional Mode Setting ¹⁾	○	○	○	-	-	-
	Time Display	○	○	○	-	-	○
	Humid. Display	○	○	-	-	-	-
	Advanced Lock (Mode, Set point, Set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-	-
	Filter Sign	○	○	○	-	-	-
	Energy Management ²⁾	○	○	○	-	-	-
	Dual Set Point	○	○	-	-	-	-
	Human Detection	-	○	-	-	-	-
Temp., Humidity Compensation	○	○	-	-	-	-	
Wi-Fi AP Mode Setting	○	○	○	○	○	○	
ETC	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	○	○	-	-	-	-

※ ○ : Applied, - : Not Applied
 1) It might not be indicated or operated at the partial product.
 2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWK000) and PDI (PQNUD1540 / 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.

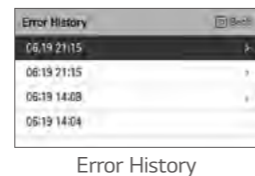
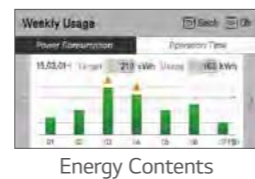
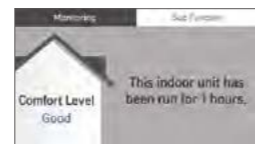
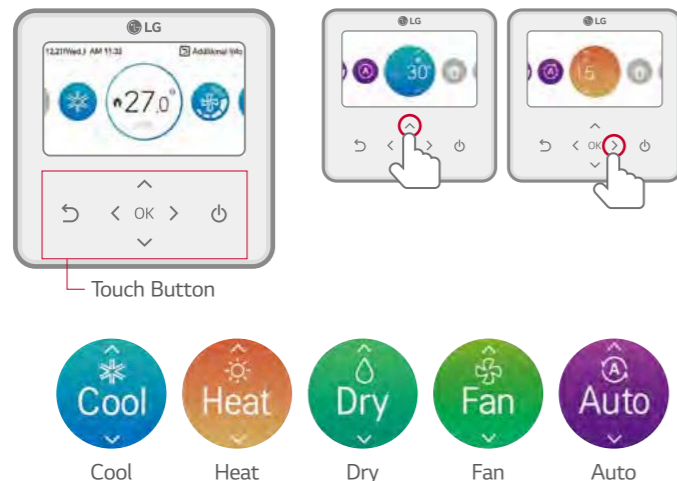


PREMTB100 (White) PREMTBB10 (Black)

- 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.



Instantaneous Power Check

Energy Usage Target Setting

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

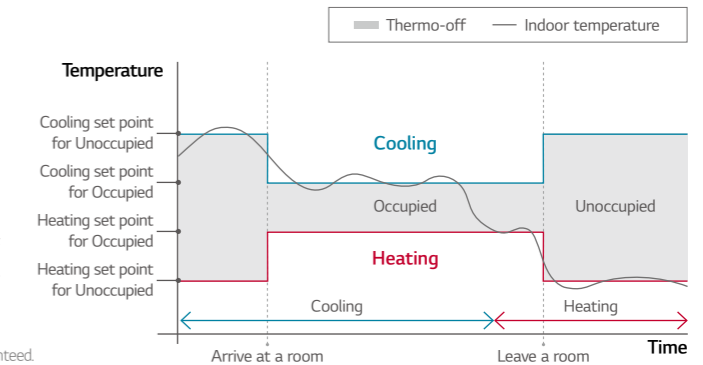
Auto Changeover (Convenience)

- 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.

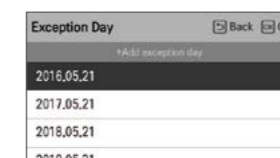


Customized Interlocking Control
 User can make control scenario. For example when temperature is under 10 degree, turn on the external heater.

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.



PREMTA000 ¹⁾ / PREMTA000A ²⁾ / PREMTA000B ³⁾

- 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 Popup / 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



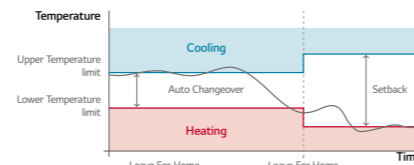
Easy Scheduling

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



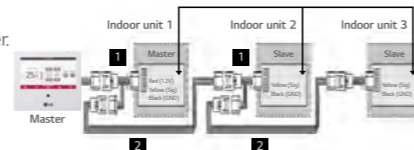
2 Set points Control

- 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



PQRCVCLQW (White) / PQRCVCLQ (Black)



PQRCHCA0QW (White) / PQRCHCA0Q (Black)

- Small remote control with minimal functionality.

Model Name	PQRCVCLQW / PQRCVCLQ	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	PQRCVCLQW	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) PREMTB10	PQRCVCLQ	Wi-Fi Controller LG Wi-Fi Modem 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	PQRCHCAQW (Simple for Hotel)		AC Smart 5 PACS5A000 (Indoor Unit -128) BACnet IP/Modbus TCP Gateway		PI-485 For Indoor Unit (ERV) PHNFP14A0
Standard II (Black) PREMTB01	PQRCHCAQ (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) Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000	Simple Dry Contact PDRYCB000	Group Control Wire PZCWRG3	IO Module (Input / Output Module) For MULTI V 5 PVDSMN000	Communication Kit Return / Room Air control PAHCMR000
ACS IO Module (Input / Output Module) PEXPMB000	Dry Contact for Thermostat PDRYCB300	Remote Temperature Sensor PQRSTA0	Variable Water Flow Control kit For MULTI V WATER IV PWFCKN000	Discharge / Supply Air control PAHCS000
Chiller Option Kit PCHLLN000	Dry contact for Thermostat (For using universal input) NEW PDRYCB320	Low Profile Remote Temperature Button Sensor ZRTBS01	Low Ambient Kit For MULTI V IV, 5 PRVC2	Controller Module Main Module NEW PAHMM000
ACU IO Module UJO PEXPMB300	2 Points Dry Contact (For Setback) PDRYCB400	Zone Controller 4 Zones by thermostat ABZCA	Cool / Heat Selector PRDSBM	Communication Module NEW PAHCMC000
UO PEXPMB200	For Modbus PDRYCB500		Water Communication Module NEW PAHCMW000	Control kit NEW PAHCNM000 (Max. 3 Outdoor Units)
UI PEXPMB100				EEV Kit PRLK048A0 (~ 28 kW) PRLK096A0 (~ 56 kW) NEW PRLK396A0 (~ 112 kW) NEW PRLK594A0 (~ 168 kW)