LG Smart Inverter

COMMERCIAL AIR CONDITIONERS | FOR MIDDLE EAST & SAUDI ARABIA

LG COMMERCIAL AIR CONDITIONERS • CEILING MOUNTED CASSETTE

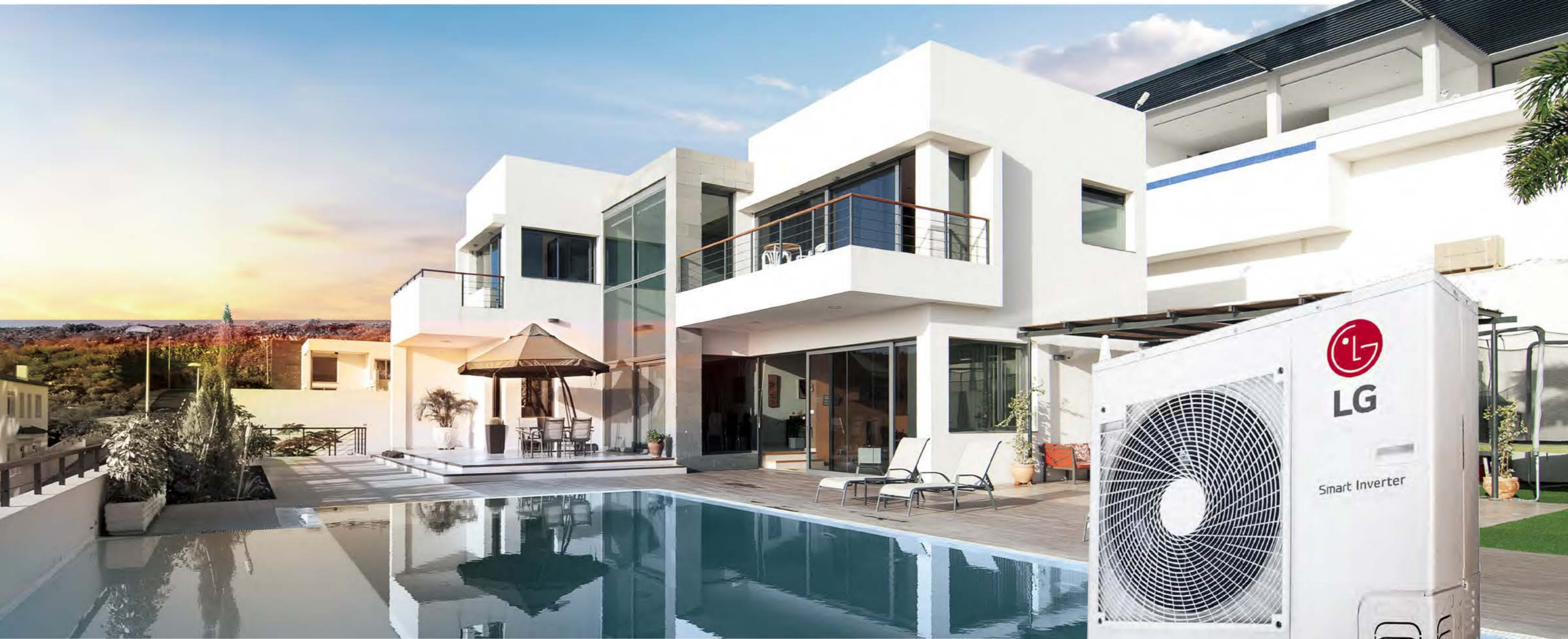FOR MIDDLE EAST & SAUDI ARABIA

YALLA GREEN

يلا أخضر.

Making the way for a more refreshing future with every breeze.
Enjoy the only GREEN-certified energy-efficient air conditioners in the kingdom.

نمهد الطريق لمستقبل أكثر انتعاشا مع كل نسمة. استمتع بأجهزة التكييف الوحيدة الحاصلة على تصنيف (أخضر) في كفاءة الطاقة في المملكة.

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LG Electronics

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CONTENTS

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.

Energy Saving

Comfort

Reliability

Convenience

LG Smart Inverter Single Split

Smart Inverter
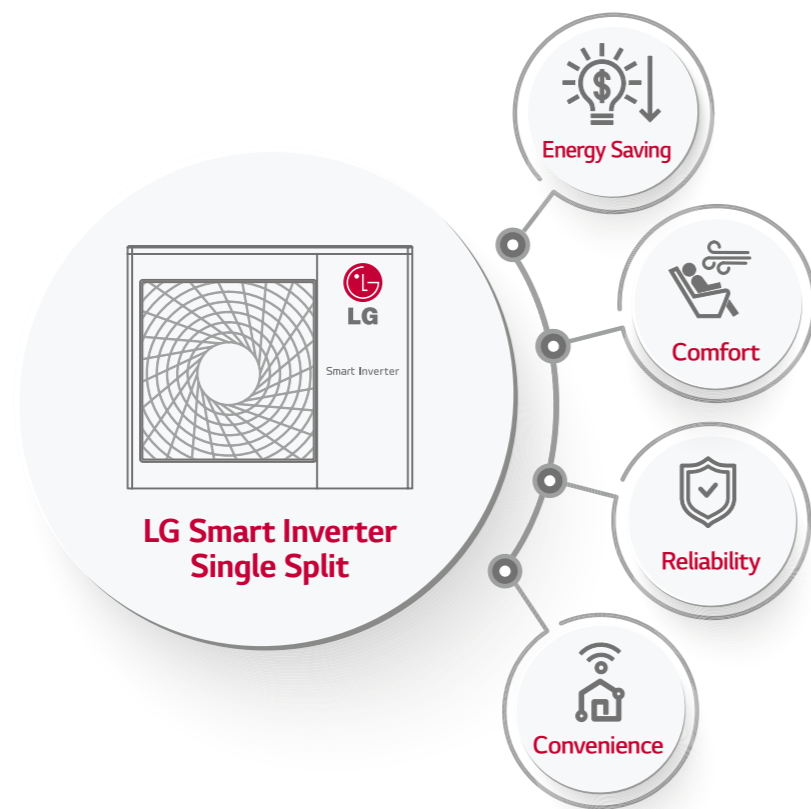
※ Specifications may vary for each model.

ENERGY SAVING

Comfort Cooling with Humidity Sensor
Comfort cooing 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.

COMFORT

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

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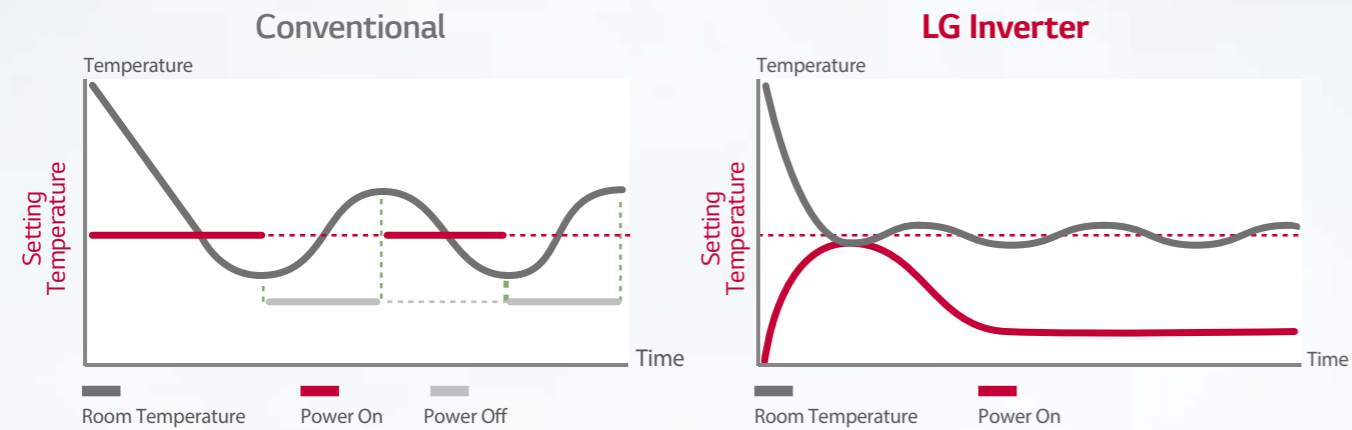
Simple Test Run Via LGMV
Fast and accurate auto test run can be executed and the professional installer running the test can receive test results via email, which shortens installation hours and increases overall efficiency in installation processes.

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.

Conventional

Temperature

Setting Temperature

Time

Room Temperature   Power On   Power Off

LG Inverter

Temperature

Setting Temperature

Time

Room Temperature   Power On

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.
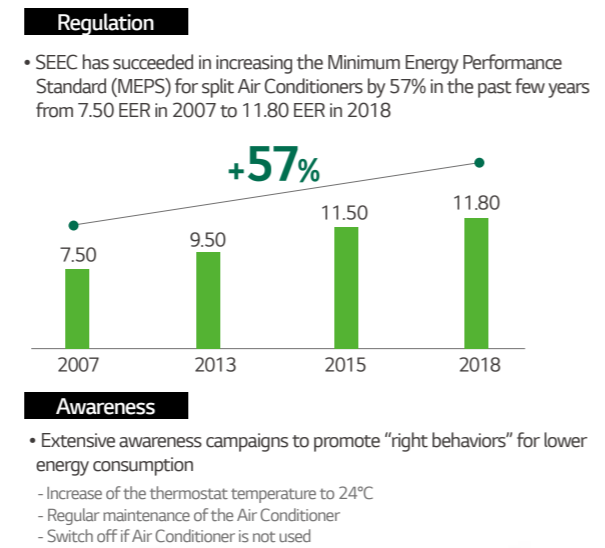
SAUDI ARABIA
NEW ENERGY EFFICIENCY REGULATION

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

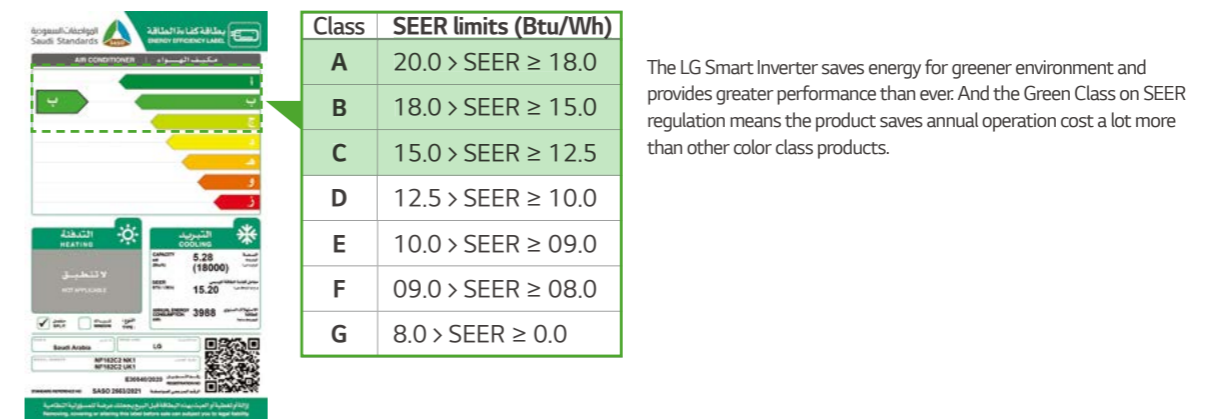### Cooling accounts for most of the electricity consumption in buildings

13%	Others
10%	White Goods
11%	Lighting
65%	Air Conditioning

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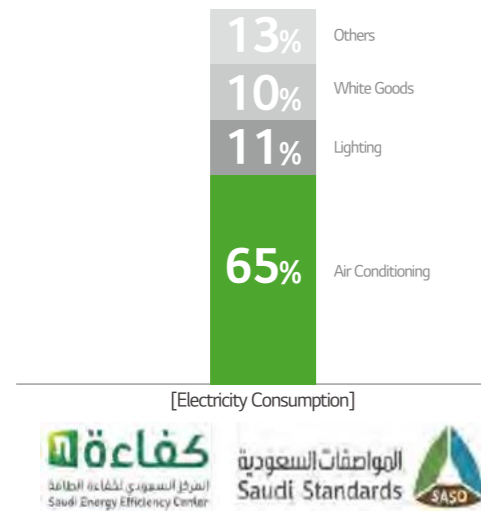
To reduce the energy consumption by Air Conditioning, SEEC has leveraged all the available levers, e.g. regulation, awareness

Regulation

• SEEC has succeeded in increasing the Minimum Energy Performance Standard (MEPS) for split Air Conditioners by 57% in the past few years from 7.50 EER in 2007 to 11.80 EER in 2018

+57%

Year	Value
2007	7.50
2013	9.50
2015	11.50
2018	11.80

Awareness

• Extensive awareness campaigns to promote "right behaviors" for lower energy consumption
- Increase of the thermostat temperature to 24℃
- Regular maintenance of the Air Conditioner
- Switch off if Air Conditioner is not used

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		

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

Class	SEER limits (Btu/Wh)
A	20.0 > SEER ≥ 18.0
B	18.0 > SEER ≥ 15.0
C	15.0 > SEER ≥ 12.5
D	12.5 > SEER ≥ 10.0
E	10.0 > SEER ≥ 09.0
F	09.0 > SEER ≥ 08.0
G	8.0 > SEER ≥ 0.0

The LG Smart Inverter saves energy for greener environment and provides greater performance than ever. And the Green Class on SEER regulation means the product saves annual operation cost a lot more than other color class products.

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

2019 May
Kickoff SEER meeting
• Assigning technical committee members to develop SEER standard for Saudi Arabia conditions
• Defining technical committee's scope and working mechanism

2019 Jul
2nd SEER meeting
• Benchmarking reference standards upon a set of established criteria
• Analysis of the Saudi Arabia weather Bin hours

2019 Oct
3rd SEER meeting
• Determining which reference standard / calculation tool to incorporate in the Saudi Arabia SEER standard

2020 Feb
4th SEER meeting
• Conducting additional testing to investigate SEER metrics
• Initial mapping of SEER label rating levels

2020 Jun
5th SEER meeting
• Finalizing Saudi Arabia weather Bin hours
• Proposing SEER rating levels

2020 Oct
6th SEER meeting
• Finalizing SEER Standard Draft with technical committee members
• Submitting draft standard to WTO (World Trade Organization) platform for public review

2020 Dec
7th SEER meeting
• SEER Standard Draft is available for the public's review at SASO website

2021 Feb
8th SEER meeting
• Final date for comments on SEER Standard Draft at WTO platform

2021 2Q
**SASO board's approval date**

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.

Cooling Power Input [W]

Energy saving 15%

Conventional   **New Model**
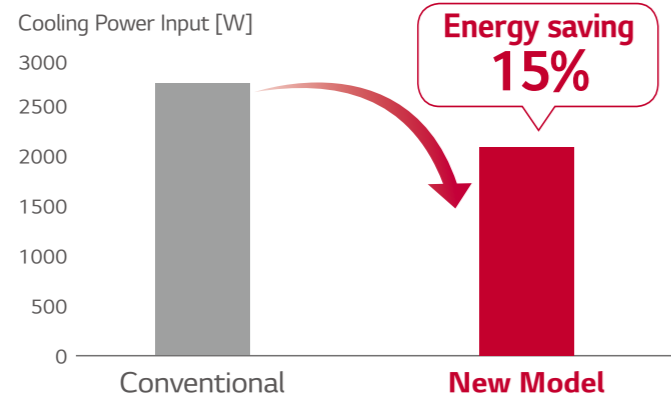
• **CEILING CONCEALED DUCT**

• **4 WAY CASSETTE**   • **ROUND CASSETTE**

※ New Panel : PT-MCHW0

• **FLOOR STANDING**

SINGLE SPLIT **LINE-UP**

Capacity	kW (Rated ~ Max)	5.2~5.9	6.5~8.2	7.9~9.4	9.4~11.1	13.5~15.5	18.2~20.2
Type	kBtu/h (Rated ~ Max)	18~20	22~28	27~32	32~38	46~53	54~60
Ceiling Mounted Cassette — 4 Way Cassette	COOL	●	●	●	●	●	-
	HEAT	●	●	●	●	●	-
Ceiling Mounted Cassette — Round Cassette	COOL	-	-	-	-	-	-
	HEAT	-	-	-	●	●	-

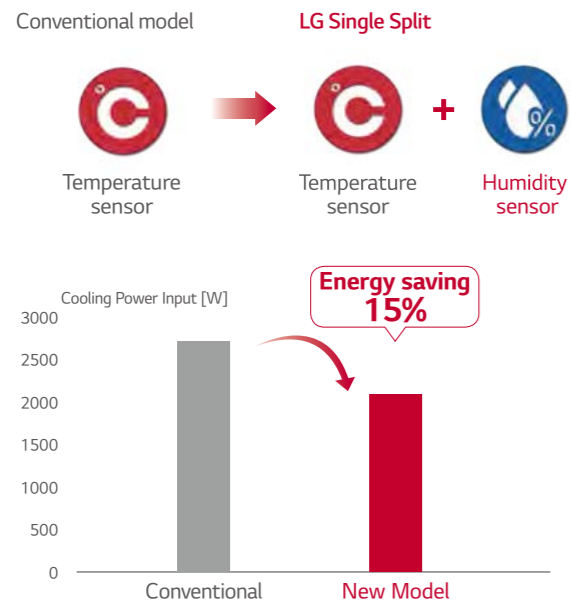# ENERGY SAVING

ENERGY SAVING

COMFORT COOLING WITH HUMIDITY SENSOR

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

Conventional model

LG Single Split

Temperature sensor

Temperature sensor + Humidity sensor

Comfortable and power saving control based on indoor humidity**

Cooling Power Input [W]

Energy saving 15%

Conventional   New Model

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

Display Humidity

12.21(Wed.) AM 11:33   Additional Info

27.0°   ↑27.0°

Display Temperature

Wired Remote Controller **Standard III** (Accessory)

** To apply humidity sensor, new remote controller, PREMTB100 or PREMTBB10 is needed

LG SINGLE SPLIT (Dry Summer)

Dry Summer   27℃   15%[1]

Comfort
Low   High

Te [2] + α Refrigerants

LG SINGLE SPLIT (Wet Summer)

Wet Summer   27℃   85%[1]

Comfort
Low   High

Te [2] - α Refrigerants

1) Indoor Condition
2) Evaporation Temperature

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℃
Humidity : 50 ±10%
Applied model : AT-*18GPLT1

ENERGY SAVING WITH HUMAN DETECTION SENSOR

Human detection sensor (PTVSMA0)

Humidity Sensor

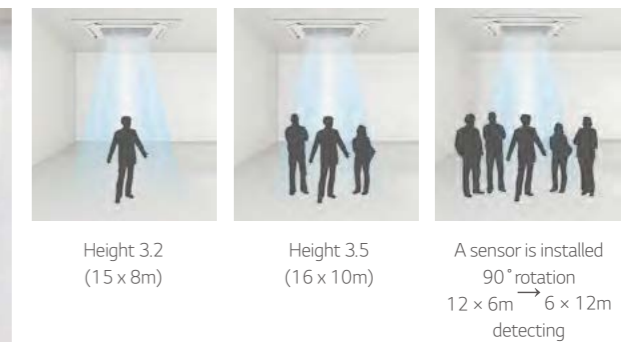Comfortable and Power Saving Control based on Humidity

Direction control based on human motion
Air flow direction is controlled automatically by motion sensor that detects the activity of people every 10seconds.

10 seconds

Compressor control based on real load
Discharge temperature is controlled by the number of occupancy.

Height 3.2 (15 x 8m)

Height 3.5 (16 x 10m)

A sensor is installed 90° rotation
12 × 6m → 6 × 12m detecting

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

Sensing human body   Undetected   Sensing human body   Undetected

Energy   Energy saving ↓   Energy saving ↓

ON   OFF   ON   OFF
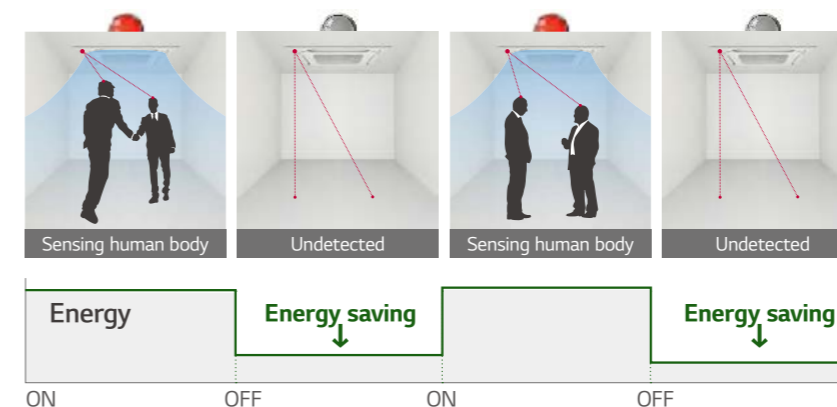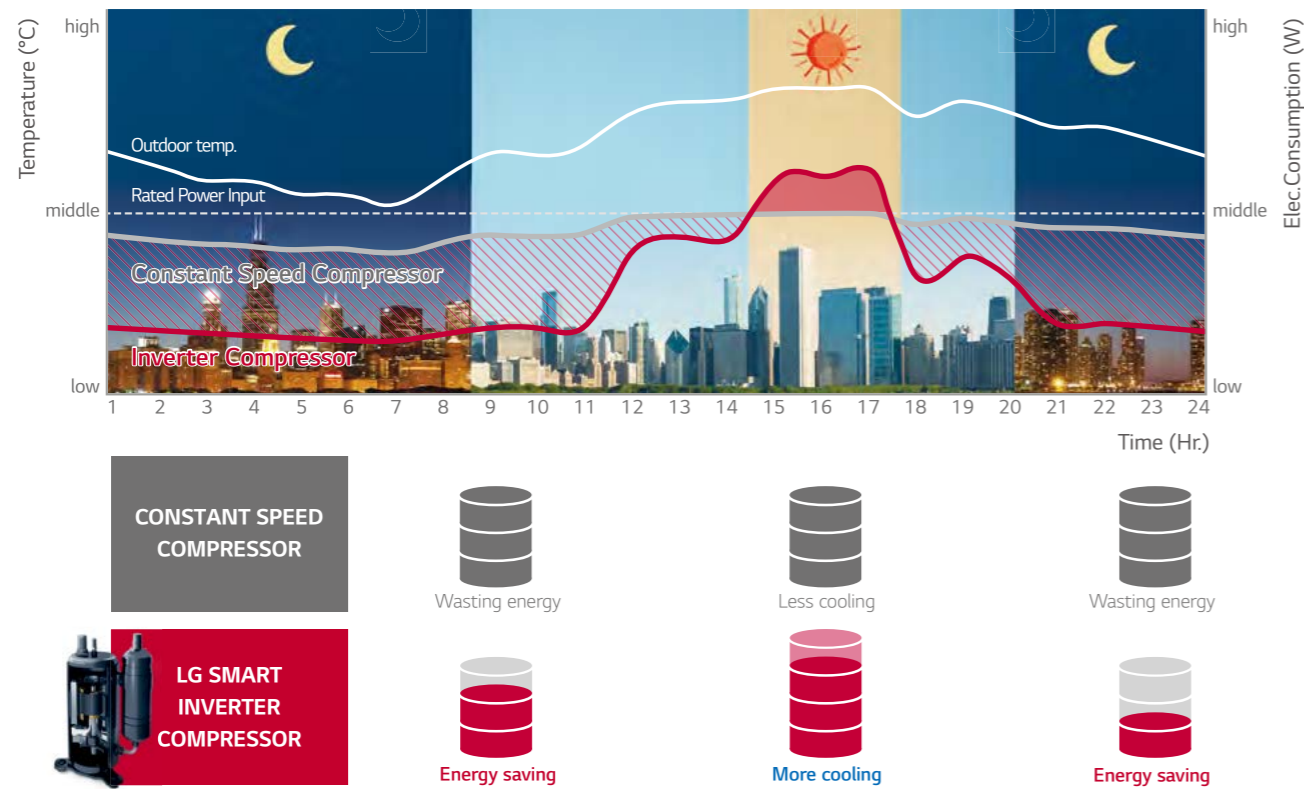
Max.35 % Energy Saving*

※ Sensor is optional accessary (PTVSMA0) : only can be applied to PT-MCHW0(CST Panel)   ※ This mode can be operated when you select "On/Off power saving"
※ To use this function, new remote controller, PREMTB100 or PREMTBB10 is needed

ENERGY SAVING

COMFORT

BENEFIT OF PARTIAL LOAD PERFORMANCE

| CONSTANT SPEED COMPRESSOR | Wasting energy | Less cooling | Wasting energy |
| LG SMART INVERTER COMPRESSOR | Energy saving | More cooling | Energy saving |

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.

1) 11.6 Btu/hW
2) 21.2 Btu/hW
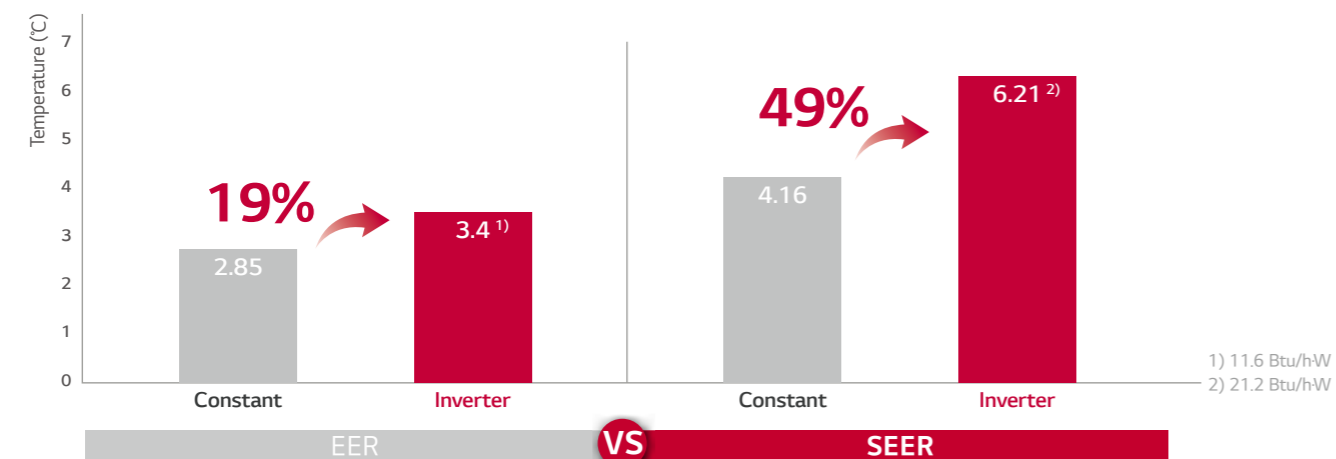
※ EER : Indoor Temp. 27°C (DB) / 19°C (WB), Outdoor Temp. 35°C (DB) / 24°C (WB)
※ SEER (seasonal energy efficiency ratio) :
 - Indoor Temp. 26.7 °C (DB) / 19.4°C (WB)
 - Outdoor Temp. 35 °C / 27.8 °C / 30.6 °C / 27.8 °C / 19.4 °C (DB)
 * LG internal simulated data

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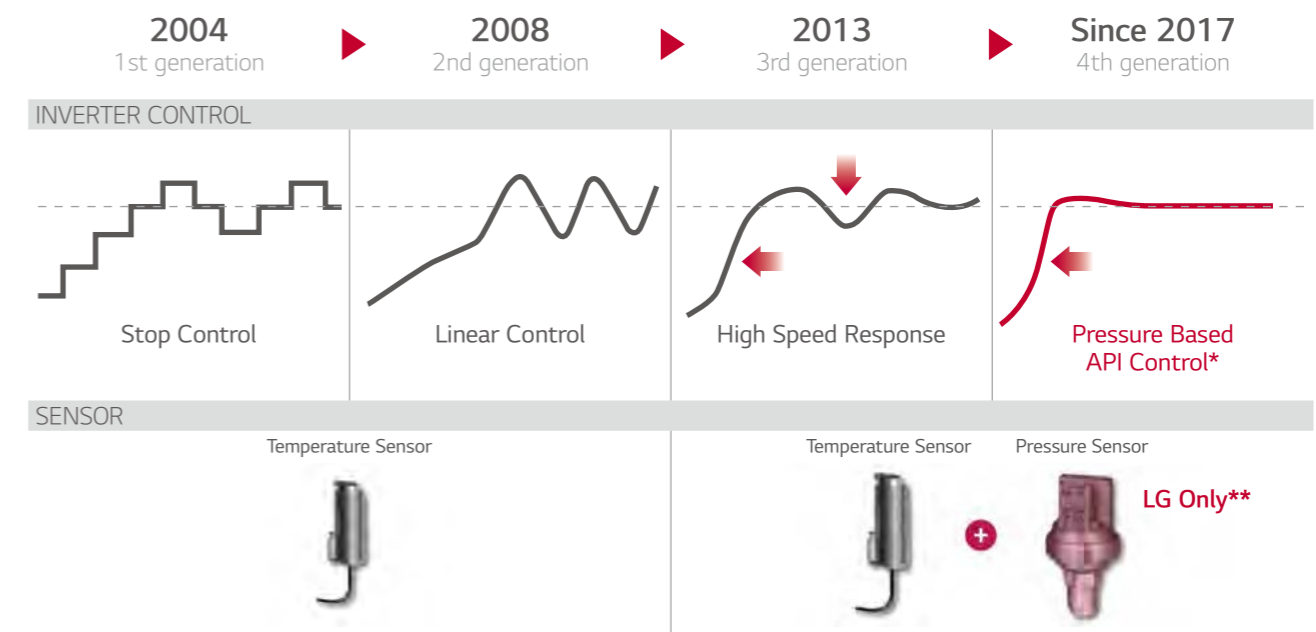※ This result can be different depending on actual environment.

QUICK COOLING WITH SMART SENSOR

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

* 30% faster than the constant speed

Inverter Control

Smart sensors make quick and precise cooling possible. (Same sensor with Multi V)
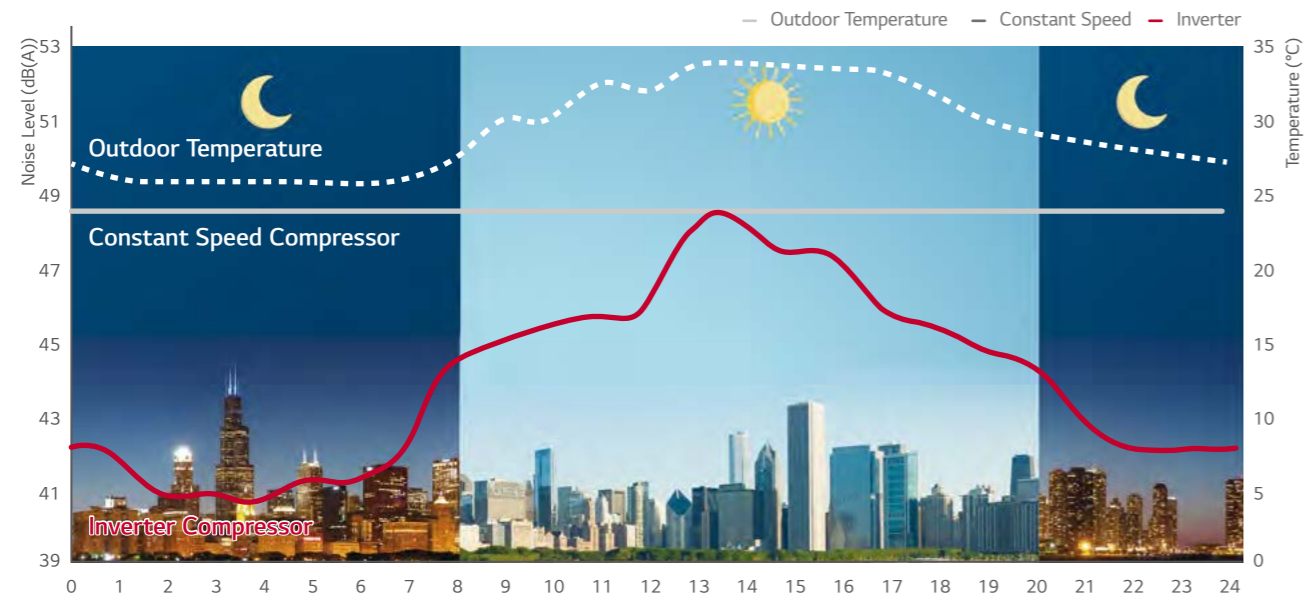
| 2004 1st generation | 2008 2nd generation | 2013 3rd generation | Since 2017 4th generation |
| Stop Control | Linear Control | High Speed Response | Pressure Based API Control* |

* API Control : Adaptive Propotional Intergrated control.

COMFORT

RELIABILITY

LOW NOISE

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

— Outdoor Temperature   — Constant Speed   — Inverter

Noise Level (dB(A))

Temperature (°C)

Outdoor Temperature

Constant Speed Compressor

Inverter Compressor

※ 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.

CONSTANT SPEED COMPRESSOR	SMART INVERTER COMPRESSOR
12°C	15°C

Set Temperature 20°C

Current Temperature 20.0℃

Current Temperature 20.0℃

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.

HIGH RISK OF COMPRESSOR FAILURE	COMPRESSOR PROTECTION
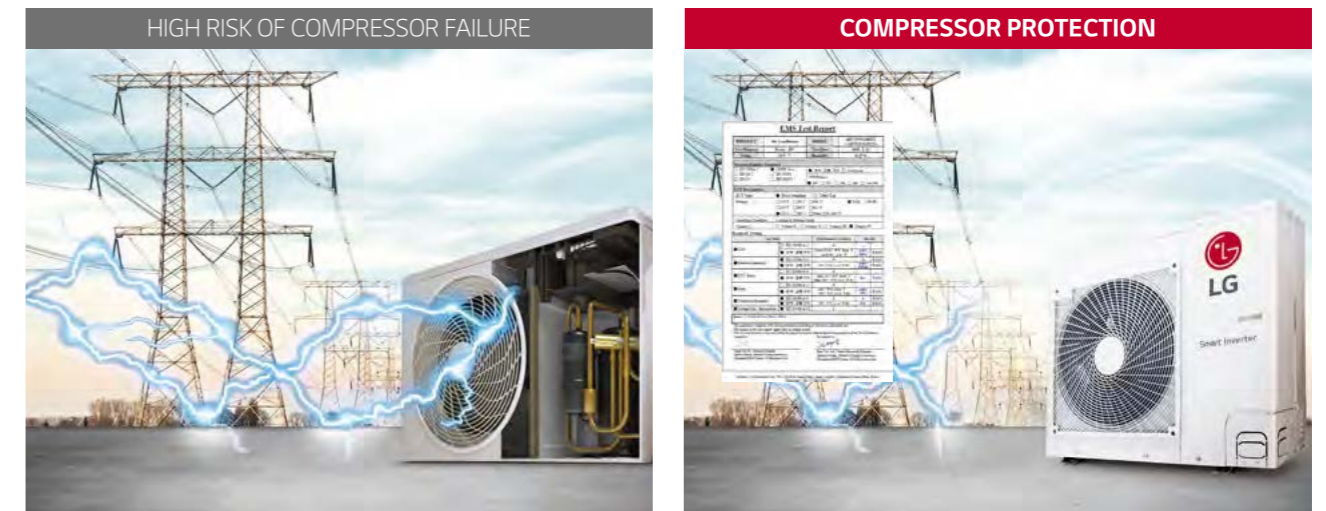
WIDE OPERATION RANGE

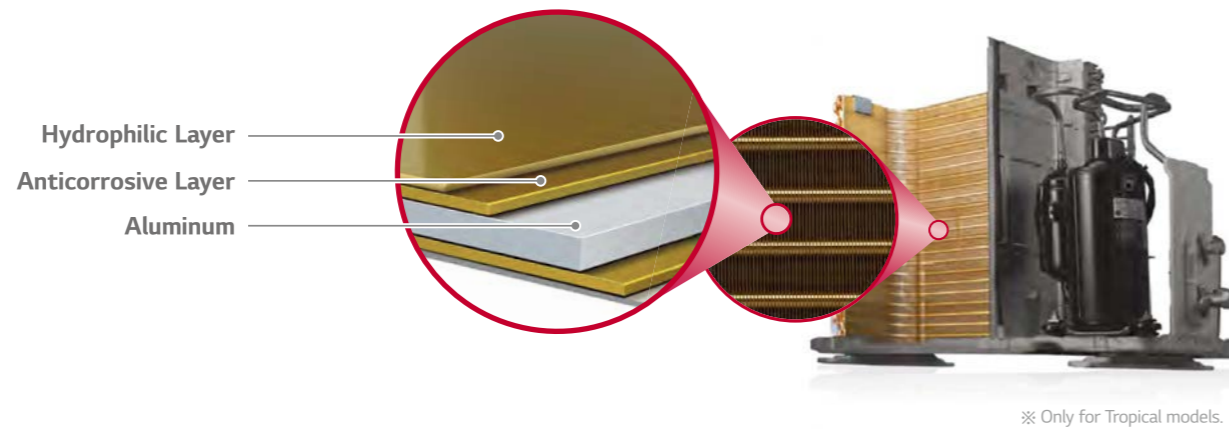Be able to operate at extreme conditions.

-5°C   54°C

※ 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.

Hydrophilic Layer

Anticorrosive Layer

Aluminum

※ 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.

50m

— Inverter
— Constant

Rated capacity (%)

Power Cooling

100

70

5   20   50

Pipe Length (m)

※ The data is based on the PDB of LG global model.
※ Test condition (Temperature) : 27 / 35 ℃ (Indoor / Outdoor)
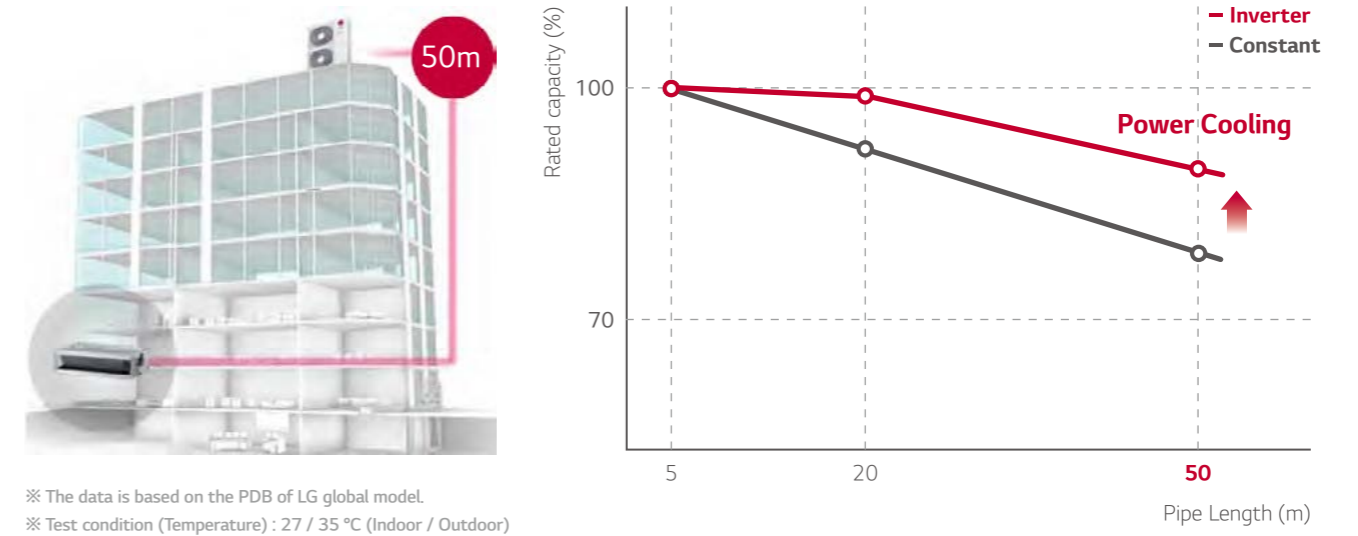
DETECTION OF REFRIGERANT SHORTAGE

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.

Capacity 100%

Rated capacity (100%)

Error Zone

100 90 80 70 60 50 40

Amount of refrigerant
in the system (%)

Refrigerant
leakage

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
	Record operation data for **Autosave function before system failure!**
Check many reasons of failure and error codes in person ▼ **Take much service time and undergo trial and error**	Search for a reason of failure easily by using recorded data ▼ **Save service time and diagnose product more accurately**

※ It can be checked by using SIMs or LG MV

CONVENIENCE

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.
Long Installation Time	Short Installation Time

Product Installation
Manual ESP Setting
Test Operation
Measure Air Volume Rate
Not proper
Proper Air Volume Rate
Finish

Complete

Click!

Not Performed

Automatically

Energy Wasting

Energy Saving

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

LG ThinQ Download on the App Store GET IT ON Google Play

Access your air conditioner anytime and from anywhere

• 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 (PWFMDD200) is required by option.

LG ThinQ-2

Easy Registration and Log-in

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

LG Account
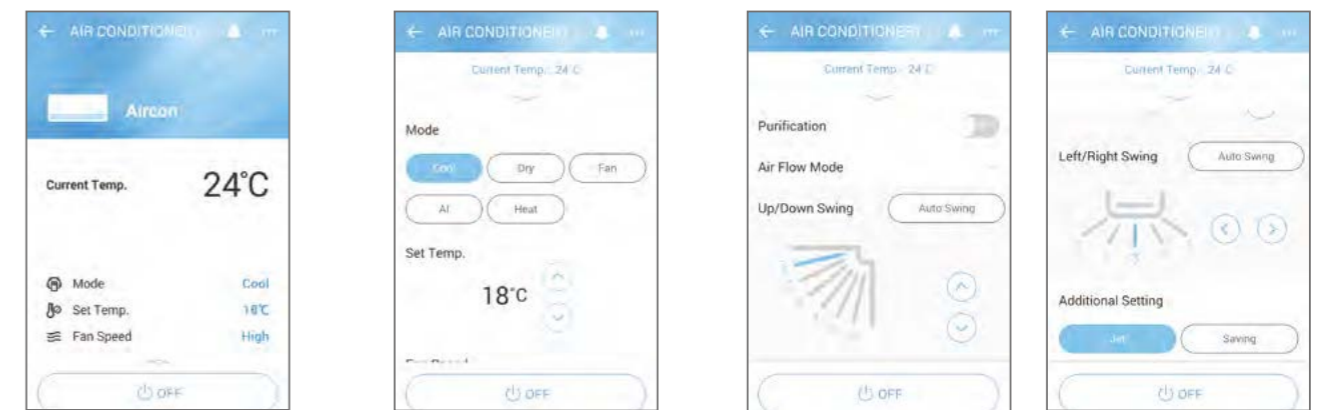
SIGN IN

SIGN IN WITH YOUR SNS ACCOUNTS

Wi-Fi Connectivity

Multiple Devices	Multi-Control

※ 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
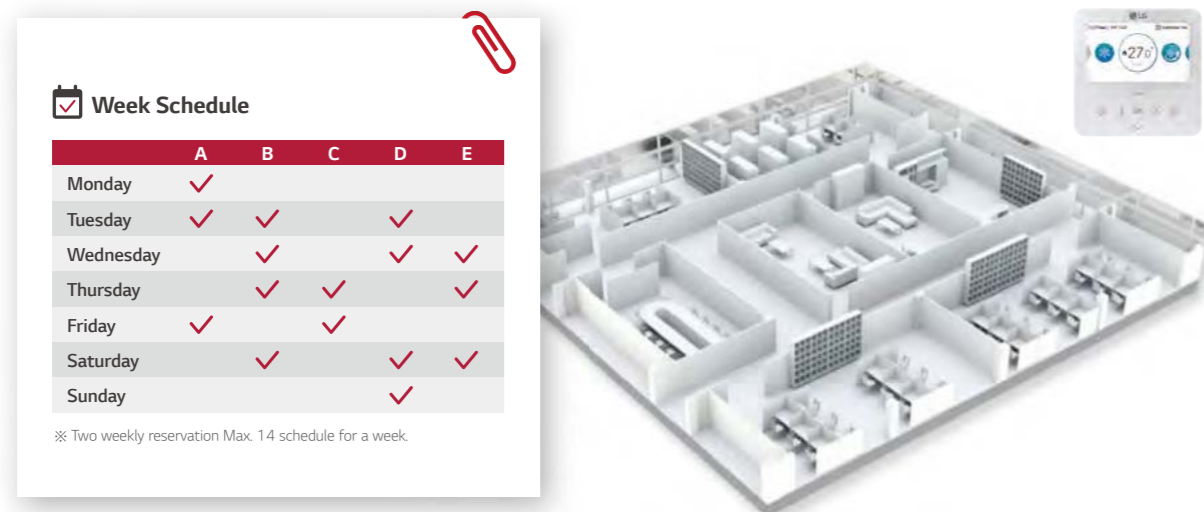
CONVENIENCE

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.

Previous

Wi-Fi MV Module

LGMV   Cycle Monitoring   Diagnosis   Installation   Smart Management
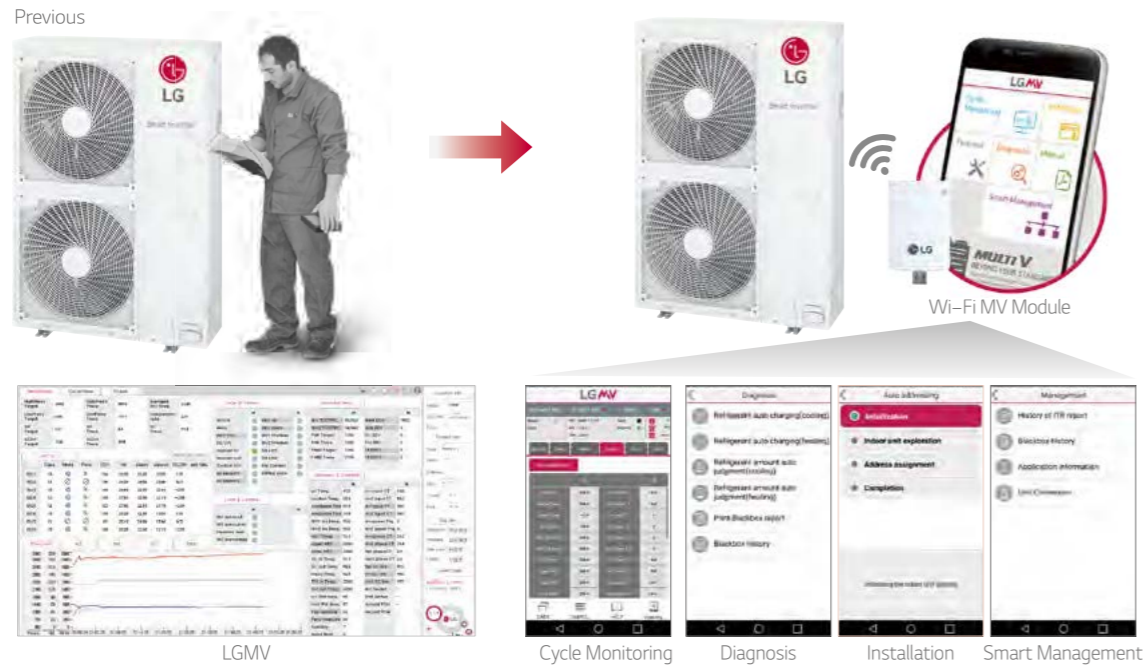
WEEKLY PROGRAM

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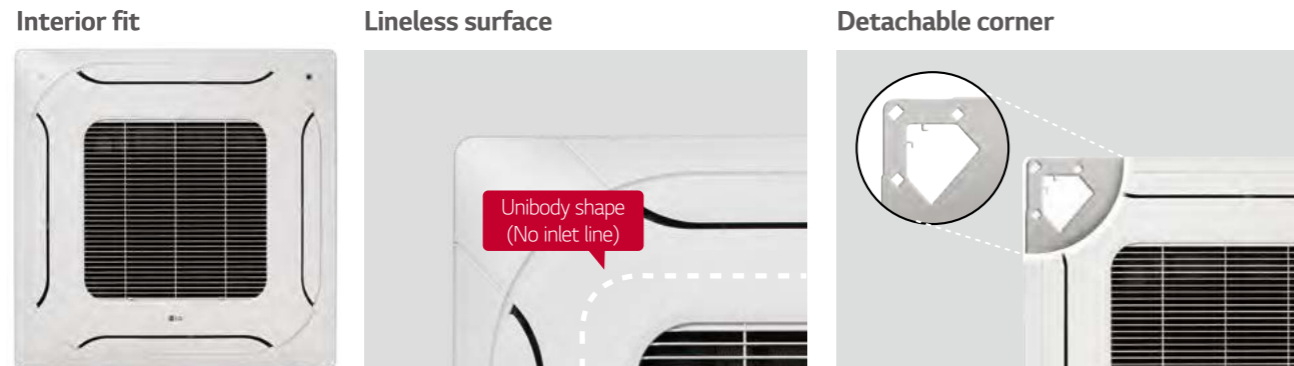It will keep running depending on that time before the user changes or cancels it.

☑ **Week Schedule**

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

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

CEILING MOUNTED CASSETTE

CEILING MOUNTED CASSETTE

STYLISH DESIGN PANEL

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

Interior fit   **Lineless surface**   **Detachable corner**

Unibody shape
(No inlet line)

※ New Panel : PT-MCHW0

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.

CONVENTIONAL	LG

Ceiling

Ceiling

Length Width : 840 x 840mm
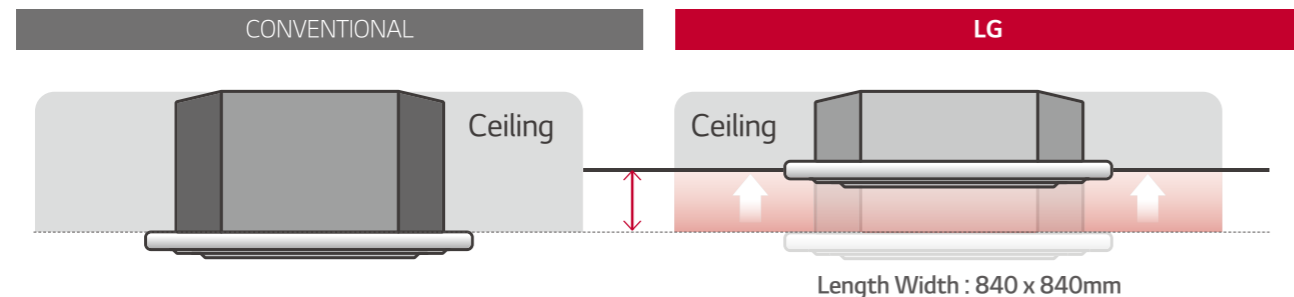
| Model Name	Height
ATN*21/28GPLT6	204mm
ATN*34/40GNLT6	246mm
ATN*55GMLT6	288mm

INDEPENDENT VANE OPERATION

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

ALL VANE OPERATION	INDEPENDENT VANE CONTROL

Direct air flow   Indirect air flow
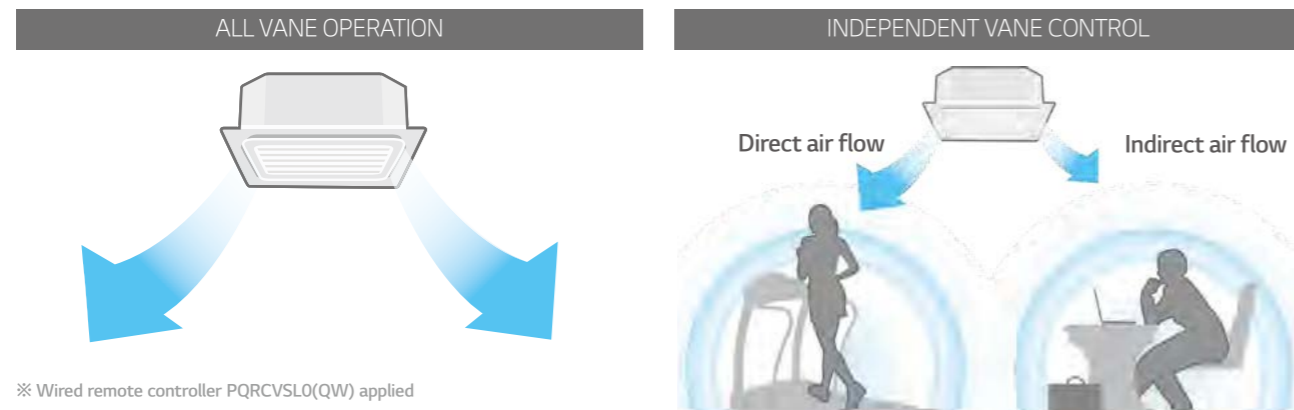
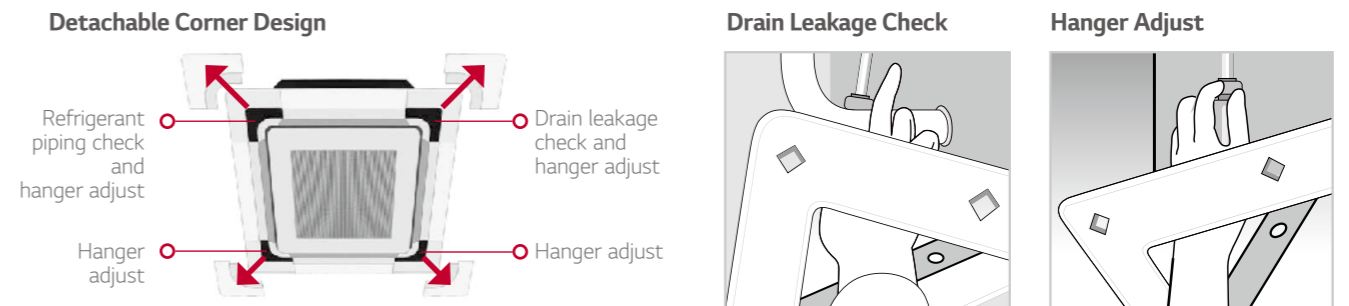※ Wired remote controller PQRCVSL0(QW) applied

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.

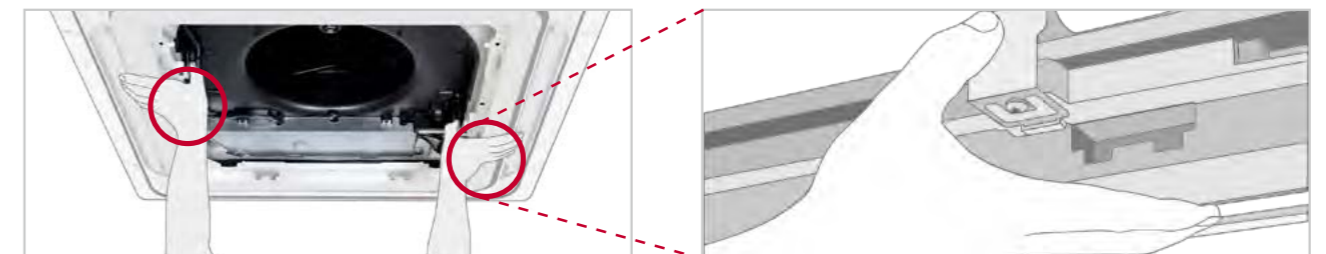| BASIC MODE	HIGH CEILING MODE

2.7m

4.2m

(m) 2.7

4.2 (m)
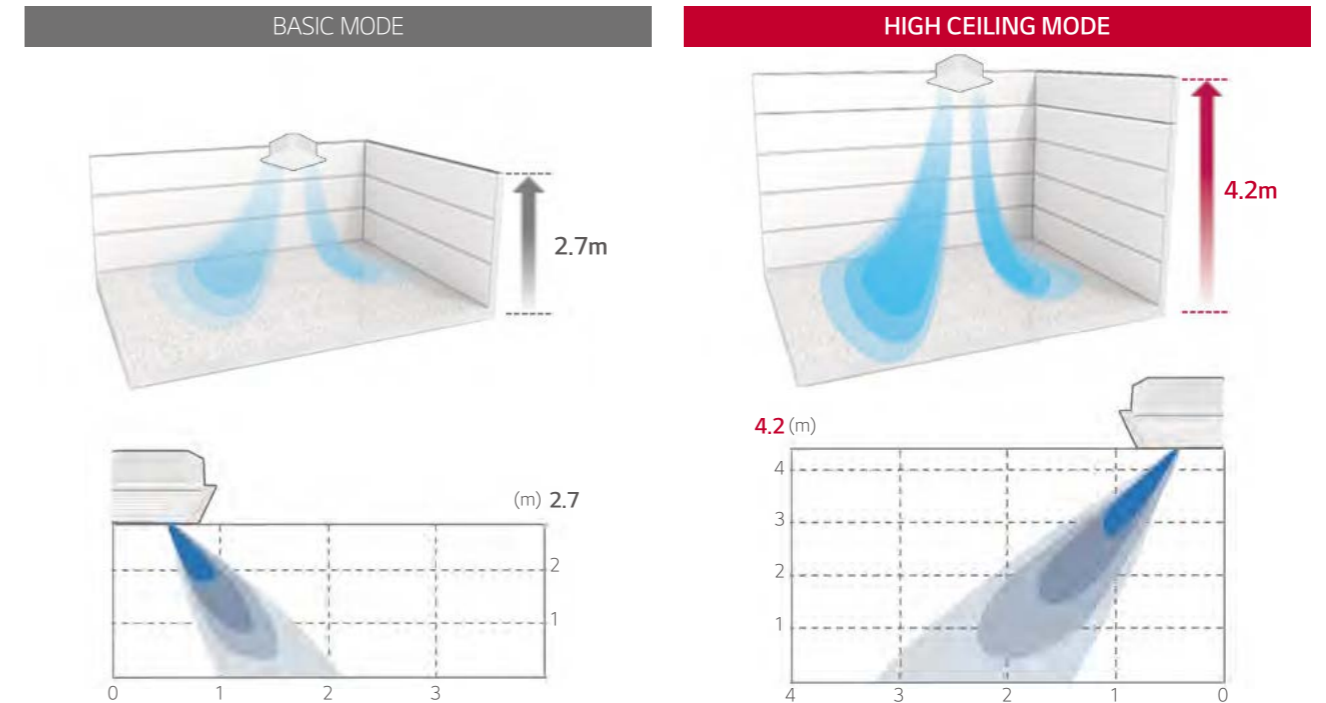
CONVENIENT PANEL INSTALLATION

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**

Refrigerant piping check and hanger adjust

Drain leakage check and hanger adjust

Hanger adjust

Hanger adjust

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

CEILING MOUNTED CASSETTE
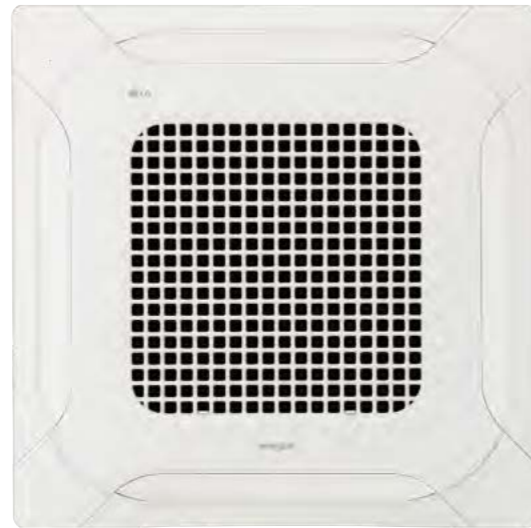
CASSETTE PANEL

Key Features

Stylish designed panels make more unique space by various applications.
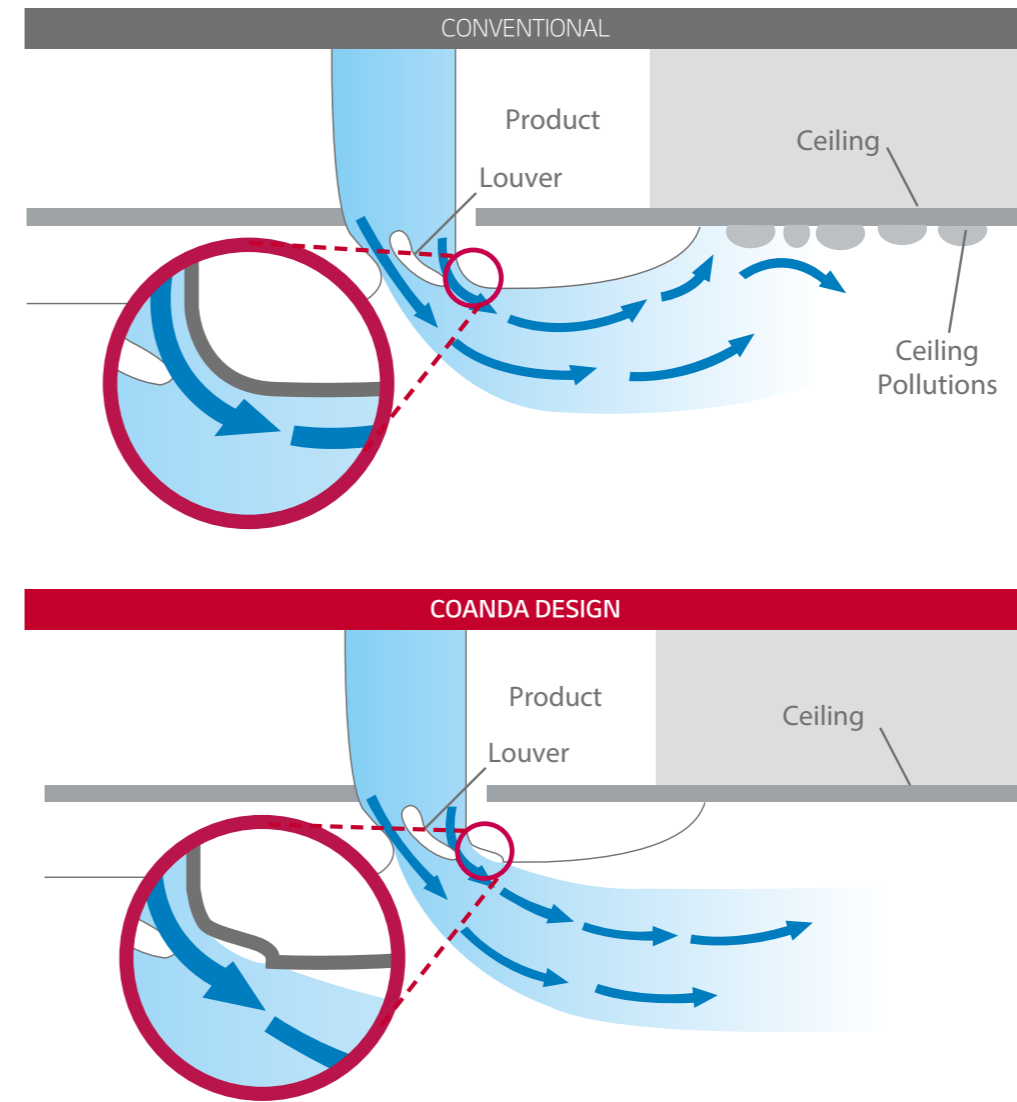
4 Way Cassette Panel

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	Single Split	Multi Split
									R410A	R410A	R410A
4 Way	PT-QCHW0	Grill	Morning Fog (RAL 9001)	-	3.0	620	35	620	1.6 ~ 6.2	2.5 ~ 5.0	1.5 ~ 5.3
	PT-MCHW0	Grill	Morning Fog (RAL 9001)	-	6.3	950	35	950	7.1 ~ 15.8	6.8 ~ 14.6	-
	PT-MCGW0	Grill	Morning Fog (RAL 9001)	-	5.0	950	35	950	7.1 ~ 15.8	6.8 ~ 14.6	6.7
	PT-MPGW0 (Air Purify)	Grill	Morning Fog (RAL 9001)	-	6.6	950	35	950	7.1 ~ 15.8	6.8 ~ 14.6	6.7

PREVENT CEILING POLLUTION

Coanda design of air outlet can prevent contamination of ceiling.

CONVENTIONAL

Product
Louver
Ceiling
Ceiling Pollutions

COANDA DESIGN

Product
Louver
Ceiling

CASSETTE

SPECIFICATIONS

CEILIING MOUNTED CASSETTE - **HIGH EFFICIENCY**

AUUW21GT6 | AUUW28GT6 / AUUW34GT6 | AUUW40GT6 | AUUW55GT6 / AUUW60GT6 / AUUW60LT6

TROPICAL **HEAT**

Combination	Outdoor unit / Indoor unit	Unit	AUUW21GT6 ATNW21GPLT6	AUUW28GT6 ATNW28GPLT6	AUUW34GT6 ATNW34GNLT6	AUUW40GT6 ATNW40GNLT6	AUUW55GT6 ATNW55GMLT6
Cooling Capacity (T1)[1]	Min. ~ Rated ~ Max.	kW	2.10 ~ 5.01 ~ 5.85	2.79 ~ 6.45 ~ 8.20	3.40 ~ 7.35 ~ 9.35	4.68 ~ 9.40 ~ 11.10	5.37 ~ 13.5 ~ 15.50
		Btu/h	7,200 ~ 17,100 ~ 20,000	9,600 ~ 22,000 ~ 28,000	11,760 ~ 25,000 ~ 32,000	16,030 ~ 32,000 ~ 38,000	18,400 ~ 46,000 ~ 53,000
Cooling Capacity (T3)[2]	Rated	kW	4.71	5.85	6.51	8.20	11.45
		Btu/h	16,100	20,000	22,200	28,000	39,000
Heating Capacity (H1)[3]	Min. ~ Rated ~ Max.	kW	2.10 ~ 5.30 ~ 6.15	2.79 ~ 7.05 ~ 8.20	3.27 ~ 7.65 ~ 9.05	3.99 ~ 9.95 ~ 10.80	5.61 ~ 14.05 ~ 15.80
		Btu/h	7,200 ~ 18,000 ~ 21,000	9,600 ~ 26,000 ~ 28,000	11,200 ~ 26,000 ~ 31,000	13,640 ~ 34,000 ~ 37,000	19,200 ~ 48,000 ~ 54,000
Power Input	Cooling (T1) Rated	kW	1.38	1.77	2.02	2.58	3.71
	Cooling (T3) Rated	kW	1.85	2.26	2.55	3.22	4.49
	Heating (H1) Rated	kW	1.28	2.07	2.13	2.85	4.01
Efficiency	EER(T1)	(Btu/h)/W	12.40	12.40	12.40	12.40	12.40
	EER(T3)	(Btu/h)/W	8.70	8.85	8.70	8.70	8.70
	COP(H1)	W/W	4.15	3.40	3.60	3.50	3.50

Outdoor		Unit	AUUW21GT6	AUUW28GT6	AUUW34GT6	AUUW40GT6	AUUW55GT6
Power Supply		V, Φ, Hz	230, 1, 60	230, 1, 60	230, 1, 60	230, 1, 60	230, 1, 60
Fan & Fan Motor	Air Flow Rate(Max)	m³/min x No.	28 x 1	50 x 1	50 x 1	60 x 1	60 x 2
	Type	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output	W x No.	43 x 1	85 x 1	85 x 1	124.2 x 1	124.2 x 2
Compressor	Type	-	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Dimensions	Net(W x H x D)	mm	770 x 545 x 288	870 x 650 x 330	870 x 650 x 330	950 x 1,380 x 330	950 x 1,380 x 330
	Shipping(W x H x D)	mm	920 x 585 x 388	1,026 x 693 x 446	1,026 x 693 x 446	1,140 x 918 x 461	1,140 x 1,462 x 461
Weight	Net	kg	32.7	44.7	44.7	56.6	91.3
	Shipping	kg	34.9	48.3	48.3	61.6	99.0
Exterior	Color	-	Warm Gray	Warm Gray	Warm Gray	Warm Gray	Warm Gray
Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A
Piping Connection	Liquid	mm(inch)	Φ6.35 (1/4)	Φ9.52 (3/8)	Φ9.52 (3/8)	Φ9.52 (3/8)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ12.7 (1/2)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ19.05 (3/4)
Piping Length	IDU - ODU(Min / Max)	m	5 / 30	5 / 50	5 / 50	5 / 50	5 / 50
Maximum Height Difference	IDU - ODU(Max)	m	20	30	30	30	30
Sound Pressure Level	Cooling	dB(A)	49	50	50	51	55
	Heating	dB(A)	52	52	52	53	57
Connecting Cable	Power Supply Cable	mm² x cores	2.5 x 3	2.5 x 3	2.5 x 3	2.5 x 3	6.0 x 3

Indoor		Unit	ATNW21GPLT6	ATNW28GPLT6	ATNW34GNLT6	ATNW40GNLT6	ATNW55GMLT6
Power Supply		V, Φ, Hz	230, 1, 60	230, 1, 60	230, 1, 60	230, 1, 60	230, 1, 60
Indoor Fan	Type	-	2D Turbo Fan	2D Turbo Fan	2D Turbo Fan	2D Turbo Fan	2D Turbo Fan
	Air Flow Rate(H/M/L)	m³/min	16.5 / 14.5 / 13.0	17.0 / 15.0 / 13.0	23.0 / 21.0 / 19.0	23.0 / 21.0 / 19.0	31.0 / 28.0 / 25.0
Dimensions	Net(W x H x D)	mm	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840
	Shipping(W x H x D)	mm	922 x 276 x 917	922 x 276 x 917	922 x 318 x 917	922 x 318 x 917	922 x 360 x 917
Weight	Net	kg	21.5	21.5	25.5	25.5	28.5
	Shipping	kg	26.0	26.0	29.7	29.7	33.0
Exterior	Color	-	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog
Protection Divice	Type	-	Fuse	Fuse	Fuse	Fuse	Fuse
Sound Pressure Level	Cooling(H/M/L)	dB(A)	36.0 / 34.0 / 32.0	38.0 / 36.0 / 34.0	40.0 / 38.0 / 36.0	40.0 / 38.0 / 36.0	47.0 / 45.0 / 42.0
	Heating(H/M/L)	dB(A)	36.0 / 34.0 / 32.0	38.0 / 36.0 / 34.0	40.0 / 38.0 / 36.0	40.0 / 38.0 / 36.0	47.0 / 45.0 / 42.0

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 [3] : 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
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* Due to our policy of innovation some specifications may be changed without notification

CASSETTE

SPECIFICATIONS

CEILIING MOUNTED CASSETTE - **HIGH EFFICIENCY**

CASSETTE

AUUQ21GT6   AUUQ28GT6   AUUQ34GT6 AUUQ40GT6   AUUQ55GT6

TROPICAL **COOL**

| Combination | Outdoor unit | Unit | AUUQ21GT6 | AUUQ28GT6 |
	Indoor unit		ATNQ21GPLT6	ATNQ28GPLT6
Cooling Capacity (T1)[1)]	Min. ~ Rated ~ Max.	kW	1.47 ~ 4.98 ~ 6.15	1.92 ~ 6.45 ~ 8.20
		Btu/h	5,000 ~ 17,000 ~ 21,000	6,600 ~ 22,000 ~ 28,000
Cooling Capacity (T3)[2)]	Rated	kW	4.38	5.85
		Btu/h	14,900	20,000
Power Input	Cooling (T1)	Rated	kW	1.370	1.772
	Cooling (T3)	Rated	kW	1.715	2.260
Efficiency	EER(T1)	(Btu/h)/W	12.40	12.40
	EER(T3)	(Btu/h)/W	8.70	8.85
Efficiency	SEER	(Btu/h)/W	14.25	15.00
	Grade	-	C	B
Outdoor		**Unit**	**AUUQ21GT6**	**AUUQ28GT6**
Power Supply		V, Φ, Hz	220-240, 1, 50/60	220-240, 1, 50/60
Fan & Fan Motor	Air Flow Rate(Max)	m³/min x No.	28 × 1	50 × 1
	Type	-	BLDC	BLDC
	Output	W x No.	43 x 1	85 x 1
Compressor	Type	-	Twin Rotary	Twin Rotary
Dimensions	Net(W x H x D)	mm	770 x 545 x 288	870 x 650 x 330
	Shipping(W x H x D)	mm	920 x 585 x 388	1,026 x 693 x 446
Weight	Net	kg	31.8	43.0
	Shipping	kg	34.3	47.0
Exterior	Color	-	Warm Gray	Warm Gray
Refrigerant	Type	-	R410A	R410A
Piping Connection	Liquid	mm(inch)	Φ6.35 (1/4)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ12.7 (1/2)	Φ15.88 (5/8)
Piping Length	IDU - ODU(Min / Max)	m	5 / 30	5 / 50
Maximum Height Difference	IDU - ODU(Max)	m	20	30
Sound Pressure Level	Cooling	dB(A)	49	50
Connecting Cable	Power Supply Cable	mm² × cores	2.5 x 3C	2.5 x 3C
Indoor		**Unit**	**ATNQ21GPLT6**	**ATNQ28GPLT6**
Power Supply		V, Φ, Hz	220-240, 1, 50/60	220-240, 1, 50/60
Indoor Fan	Type	-	2D Turbo Fan	2D Turbo Fan
	Air Flow Rate(H/M/L)	m³/min	16.5 / 14.5 / 13.0	17.0 / 15.0 / 13.0
Dimensions	Net(W x H x D)	mm	840 × 204 × 840	840 × 204 × 840
	Shipping(W x H x D)	mm	922 x 276 x 917	922 x 276 x 917
Weight	Net	kg	21.5	21.5
	Shipping	kg	26.0	26.0
Exterior	Color	-	Warm Gray	Warm Gray
Protection Divice	Type	-	Fuse	Fuse
Sound Pressure Level	Cooling(H/M/L)	dB(A)	36 / 34 / 32	38 / 36 / 34

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
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TROPICAL **COOL**

| | | AUUQ34GT6 | AUUQ40GT6 | AUUQ55GT6 |
		ATNQ34GNLT6	ATNQ40GNLT6	ATNQ55GMLT6
Cooling Capacity (T1)	Min. ~ Rated ~ Max. (kW)	2.16 ~ 7.35 ~ 9.38	2.76 ~ 9.40 ~ 10.56	4.11 ~ 13.50 ~ 15.24
	Btu/h	7,400 ~ 25,000 ~ 32,000	9,400 ~ 32,000 ~ 36,000	14,000 ~ 46,000 ~ 52,000
Cooling Capacity (T3)	Rated (kW)	6.5	8.2	11.45
	Btu/h	22200	28000	39,000
Power Input	Cooling (T1) Rated (kW)	2.016	2.580	3.710
	Cooling (T3) Rated (kW)	2.552	3.220	4.490
Efficiency	EER(T1) (Btu/h)/W	12.40	12.40	12.40
	EER(T3) (Btu/h)/W	8.70	8.70	8.70
Efficiency	SEER (Btu/h)/W	14.40	14.70	14.15
	Grade	C	C	C
Outdoor		**AUUQ34GT6**	**AUUQ40GT6**	**AUUQ55GT6**
Power Supply	V, Φ, Hz	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60
Fan & Fan Motor	Air Flow Rate(Max) m³/min x No.	50 × 1	60 × 1	60 × 2
	Type	BLDC	BLDC	BLDC
	Output W x No.	85 x 1	124 X 1	124 x 2
Compressor	Type	Twin Rotary	Twin Rotary	Twin Rotary
Dimensions	Net(W x H x D) mm	870 x 650 x 330	950 x 834 x 330	950 x 1380 x 330
	Shipping(W x H x D) mm	1,026 x 693 x 466	1,140 x 918 x 461	1,140 x 1462 x 461
Weight	Net kg	43	56.5	88.5
	Shipping kg	47	61.3	97.0
Exterior	Color	Warm Gray	Warm Gray	Warm Gray
Refrigerant	Type	R410A	R410A	R410A
Piping Connection	Liquid mm(inch)	Φ9.52 (3/8)	Φ9.52 (3/8)	Φ9.52 (3/8)
	Gas mm(inch)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ19.05 (3/4)
Piping Length	IDU - ODU(Min / Max) m	5 / 50	5 / 50	5 / 50
Maximum Height Difference	IDU - ODU(Max) m	30	30	30
Sound Pressure Level	Cooling dB(A)	50	51	55
Connecting Cable	Power Supply Cable mm² × cores	2.5 x 3C	2.5 x 3C	6.0 X 3C
Indoor		**ATNQ34GNLT6**	**ATNQ40GNLT6**	**ATNQ55GMLT6**
Power Supply	V, Φ, Hz	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60
Indoor Fan	Type	2D Turbo Fan	2D Turbo Fan	2D Turbo Fan
	Air Flow Rate(H/M/L) m³/min	23.0 / 21.0 / 19.0	23.0 / 21.0 / 19.0	31.0 / 28.0 / 25.0
Dimensions	Net(W x H x D) mm	840 × 246 × 840	840 × 246 × 840	840 × 288 × 840
	Shipping(W x H x D) mm	922 x 318 x 917	922 x 318 x 917	922 x 360 x 917
Weight	Net kg	25.5	25.5	28.5
	Shipping kg	29.7	29.7	33.0
Exterior	Color	Warm Gray	Warm Gray	Warm Gray
Protection Divice	Type	Fuse	Fuse	Fuse
Sound Pressure Level	Cooling(H/M/L) dB(A)	40 / 38 / 36	40 / 38 / 36	47 / 45 / 42

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ROUND CASSETTE

CASSETTE

PREMIUM DESIGN TO COMPLETE THE SPACE

Subtly revealed elegance. Sense that stands out in any interior. A body design that naturally fits your space, adding class to your style. Panels styled with clean whites and modern blacks, perfecting your interior.

COMFORT

Perfect Round Flow

Perfect round flow without blind spots. (This product can only be installed on an open ceiling)

	Other Brand	LG Round Cassette

Visible, Intuitive Airflow

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

Other Brand	LG Round Cassette

Crystal Vane

Airflow Control ❶ · · ❷ · · ❸   Airflow Control ❶ ❷ ❸ ❹ ❺ ❻

ROUND CASSETTE

COMFORT

30% Faster in Cooling

With greater airflow, it gets cooler 30% faster, spreading cool air evenly without missing a spot.

Other Brand	LG Round Cassette

18 minutes to reach the set temperature

12 minutes to reach the set temperature
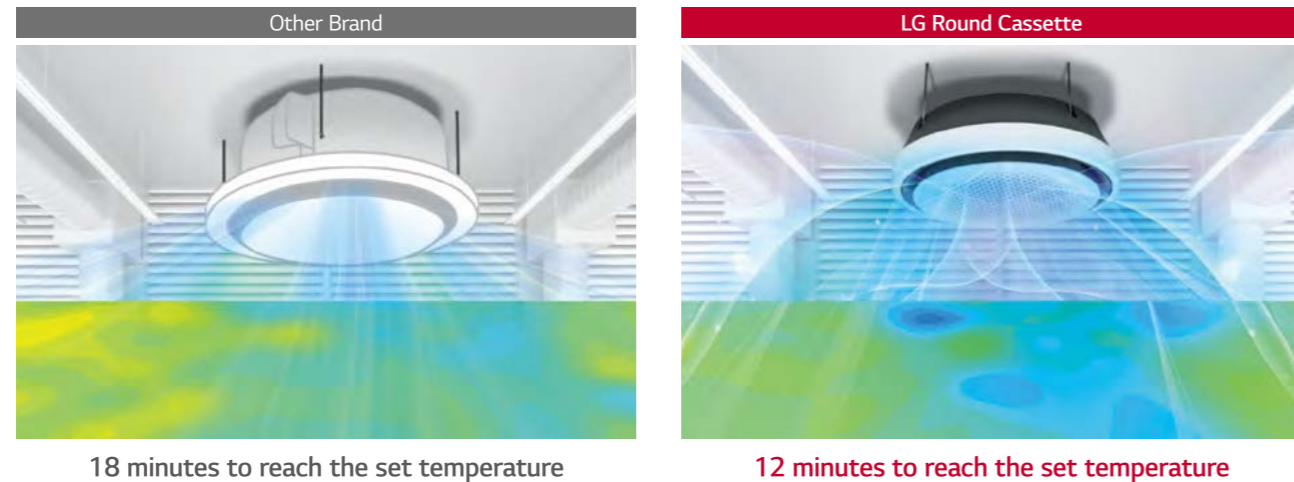
CLEAN AIR

Powerful and Convenient 5-step Air Purification

With the semi-permanent 5-step air filter, you don't have to worry about maintenance cost anymore.

Step 1 Pre-filter	Step 2 Ion Generator	Step 3 Ultrafine Particle Filter	Step 4 Photocatalytic Deodorizing Filter	Step 5 Antibacterial Ionizer

PM1.0 Particle Sensor	Panel	Air Purification Kit			
	Wash every 2 weeks	No need to clean	Wash every 6 months	Dry every 6 months	No need to clean

INSTALLATION

Minimal exposure of installations

Pipes are brought together in one place to minimize exposure. Hanger covers hide installations to add a clean, sophisticated look.(This product can only be installed on an open ceiling)

Other Brand	LG Round Cassette

❶ Drain Pipe
❷ Refrigerant Pipe
❸ Exposed Hanger
❶ Piping in One Direction Only
❷ Hanger Cover
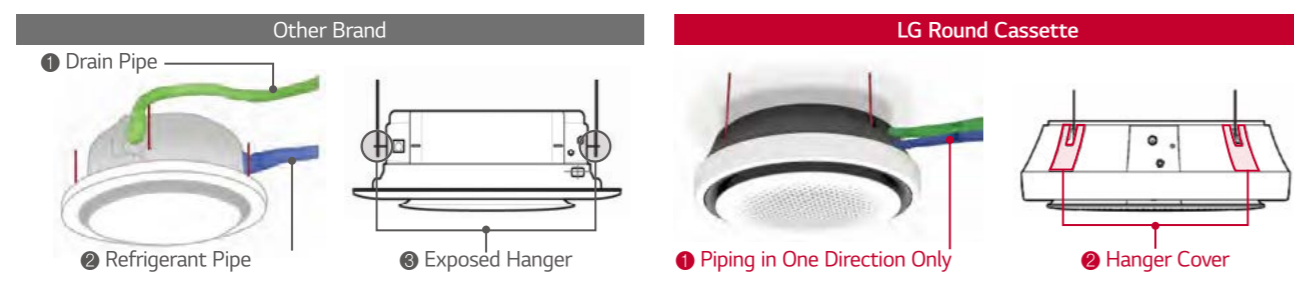
SPECIFICATIONS

ROUND CASSETTE - HIGH EFFICIENCY

TROPICAL **HEAT**

Combination	Outdoor unit Indoor unit		Unit	AUUW40GT6 ATNW40GYLT6	AUUW55GT6 ATNW55GYLT6
Cooling Capacity (T1)[1]		Min. ~ Rated ~ Max.	kW	2.88 ~ 8.25 ~ 10.55	4.23 ~ 12.35 ~ 15.53
			Btu/h	9,800 ~ 28,200 ~ 36,000	14,400 ~ 42,200 ~ 53,000
Cooling Capacity (T3)[2]		Rated	kW	7.20	10.55
			Btu/h	24,600	36,000
Heating Capacity (H1)[3]		Min. ~ Rated ~ Max.	kW	4.19 ~ 8.80 ~ 10.55	5.89 ~ 14.60 ~ 15.50
			Btu/h	14,300 ~ 30,000 ~ 36,000	20,100 ~ 49,800 ~ 53,000
Power Input	Cooling (T1)	Rated	kW	2.27	3.41
	Cooling (T3)	Rated	kW	2.83	4.14
	Heating (H1)	Rated	kW	2.30	4.10
Efficiency	EER (T1)		(Btu/h)/W	12.40	12.40
	EER (T3)		(Btu/h)/W	8.70	8.70
	COP (H1)		W/W	3.85	3.55
Outdoor			**Unit**	**AUUW40GT6**	**AUUW55GT6**
Power Supply			V, Φ, Hz	230, 1, 60	230, 1, 60
Fan & Fan Motor	Air Flow Rate(Max)		m³/min x No.	60 x 1	60 x 2
	Type		-	BLDC	BLDC
	Output		W x No.	124.2 x 1	124.2 x 2
Compressor	Type		-	Twin Rotary	Twin Rotary
Dimensions	Net(W x H x D)		mm	950 x 834 x 330	950 x 1,380 x 330
	Shipping(W x H x D)		mm	1,140 x 918 x 461	1,140 x 1,462 x 461
Weight	Net		kg	56.6	91.3
	Shipping		kg	61.6	99.0
Exterior	Color		-	Warm Gray	Warm Gray
Refrigerant	Type		-	R410A	R410A
Piping Connection	Liquid		mm(inch)	Φ9.52 (3/8)	Φ9.52 (3/8)
	Gas		mm(inch)	Φ15.88 (5/8)	Φ19.05 (3/4)
Piping Length	IDU - ODU(Min / Max)		m	5 / 50	5 / 50
Maximum Height Difference	IDU - ODU(Max)		m	30	30
Sound Pressure Level	Cooling		dB(A)	51	55
	Heating			53	57
Connecting Cable	Power Supply Cable		mm² × cores	2.5 x 3	6.0 x 3
Indoor			**Unit**	**ATNW40GYLT6**	**ATNW55GYLT6**
Power Supply			V, Φ, Hz	230, 1, 60	230, 1, 60
Indoor Fan	Type		-	3D Turbo Fan	3D Turbo Fan
	Air Flow Rate(H/M/L)		m³/min	25.0 / 25.0 / 19.0	29.0 / 25.0 / 21.0
Dimensions	Net(W x H x D)		mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050
	Shipping(W x H x D)		mm	1,137 x 395 x 1,132	1,137 x 395 x 1,132
Weight	Net		kg	30.0	30.0
	Shipping		kg	38.0	38.0
Exterior	Color		-	White	White
Protection Divice	Type		-	Fuse	Fuse
Sound Pressure Level	Cooling(H/M/L)		dB(A)	44.0 / 40.0 / 38.0	47.0 / 44.0 / 40.0
	Heating(H/M/L)		dB(A)	47.0 / 43.0 / 40.0	49.0 / 46.0 / 42.0

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 [3] : 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
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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
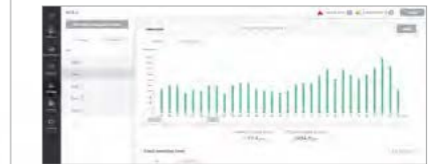and smart individual controller for optimized controlling conditions and smart building management.

OFFICE

Central Control Solution

3rd Party BMS

Cloud System

• Energy Management

• External Device

Lighting   Pump   Fan CO_2 Sensor   Temp. Sensor

HOTEL

Hotel Room Solution

reddot award
User Interface Design

Integration Solution

APARTMENT

Power Distribution Solution

RESIDENTIAL

Smart Individual Control Solution

SMALL BUILDING

Small Central Control Solution

LG CONTROL SOLUTIONS

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	PWLSSB21H (H/P) PWLSSB21C (C/O)	PWFMDD200
Basic On / Off	○	○	○	○	○	○	○
Fan Speed Control	○	○	○	○	○	○	○
Temperature Setting	○	○	○	○	○	○	○
Mode Change	○	○	○	○	-	○	○
Auto Swing	○	○	○	○	○	○	
Vane Control (Louver Angle)	○	○	○	○	○	○	○
E.S.P (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 / 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.
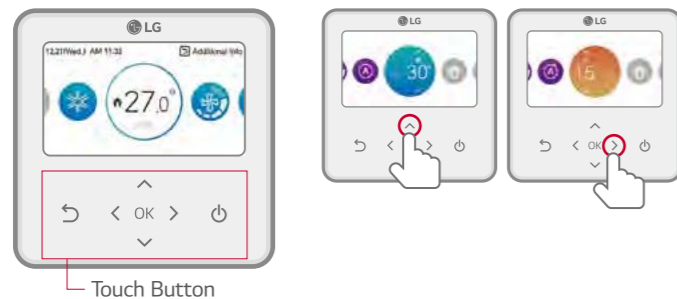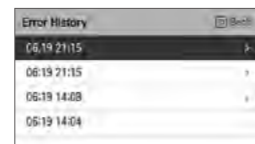
Touch Button
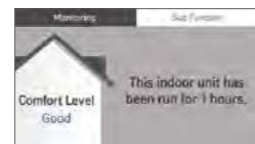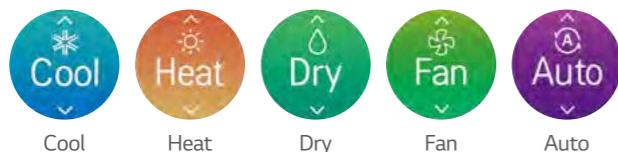
Comfort Level
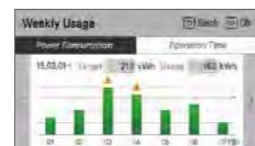
Energy Contents

Error History

Cool Heat Dry Fan Auto

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.
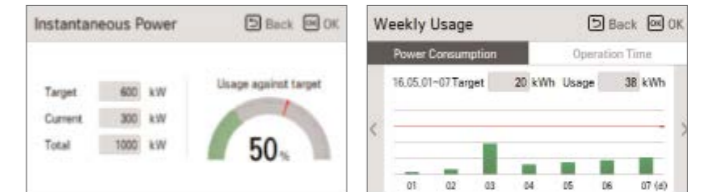
Instantaneous Power Check   Energy Usage Target Setting

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.
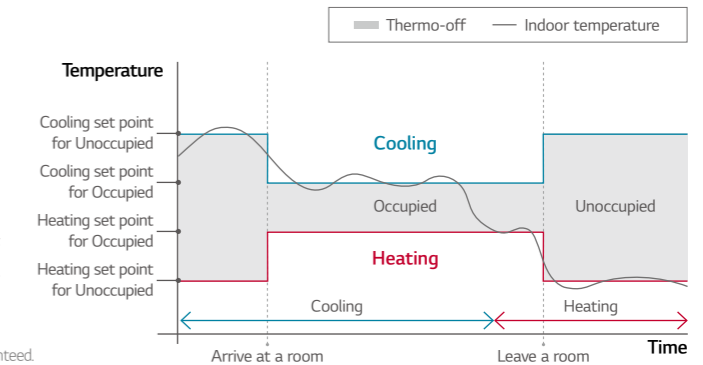
2 Set Points Control

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.

Thermo-off — Indoor temperature

Temperature

Cooling set point for Unoccupied
Cooling set point for Occupied
Heating set point for Occupied
Heating set point for Unoccupied

Cooling Occupied Unoccupied
Heating

Cooling Heating

Arrive at a room   Leave a room   Time

External Device On / Off

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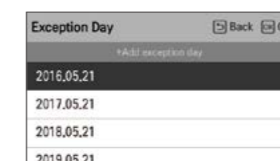User can turn on or off the external equipment through contact point output.

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.

LG CONTROL SOLUTIONS

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 MULT 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
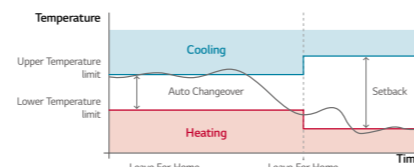

Easy Scheduling
- Daily, Weekly, Yearly schedule function
- Schedule pattern setting
- Schedule copy
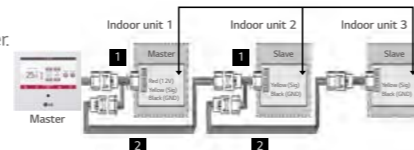

2 Set points Control
- Auto changeover switching the operation mode automatically
- Setback (Home Leave) Changing status by occupied / unoccupied
※ This function is only for Heat Recovery system and Single heat pump.

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

PQRCVCL0QW (White) / PQRCVCL0Q (Black)

PQRCHCA0QW (White) / PQRCHCA0Q (Black)

Model Name	PQRCVCL0QW / PQRCVCL0Q	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 CONTROL SOLUTIONS

LG HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL

Wired Remote Controller

Standard	Simple
Standard III (White)	
PREMTB100	PQRCVCL0QW
Standard III (Black)	
PREMTBB10	PQRCVCL0Q
Standard II (White)	
PREMTB001	PQRCHCA0QW (Simple for Hotel)
Standard II (Black)	
PREMTBB01	PQRCHCA0Q (Simple for Hotel)
Premium	
PREMTA000 PREMTA000A PREMTA000B	

Wireless Remote Controller

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

Wi-Fi Controller

LG Wi-Fi Modem
For Indoor Unit
PWFMDD200

CENTRALIZED CONTROL

Display	Platform	Gateway
AC Ez	**ACP 5**	**ACP LonWorks**
PQCSZ250S0 (Indoor Unit ~32)	PACP5A000 (Indoor Unit ~256) BACnet IP/Modbus TCP Gateway	PLNWKB000 (Indoor Unit ~64)
AC Ez Touch	**AC Manager 5**	**Modbus RTU Gateway**
PACEZA000 (Indoor Unit ~64)	PACM5A000 (Indoor Unit ~8,192)	PMBUSB00A
AC Smart 5		**PI-485**
PACS5A000 (Indoor Unit ~128) BACnet IP/Modbus TCP Gateway		For Indoor Unit (ERV) PHNFP14A0

CENTRALIZED CONTROL

Facility Integrator

PDI (Power Distribution Indicator)
Premium (8 port) PQNUD1S40
Standard (2 port) PPWRDB000

ACS IO Module (Input / Output Module)
PEXPMB000

Chiller Option Kit
PCHLLN000

ACU IO Module
UIO PEXPMB300

UO PEXPMB200

UI PEXPMB100

INTEGRATION DEVICE

Indoor Units

Dry Contact	Control Accessory
Simple Dry Contact PDRYCB000	**Group Control Wire** PZCWRCG3
Dry Contact for Thermostat PDRYCB300	**Remote Temperature Sensor** PQRSTA0
Dry contact for Thermostat (For using universal input) NEW PDRYCB320	**Low Profile Remote Temperature Button Sensor** ZRTBS01
2 Points Dry Contact (For Setback) PDRYCB400	**Zone Controller** 4 Zones by thermostat ABZCA
For Modbus PDRYCB500	

Outdoor Units

IO Module (Input / Output Module)
For MULTI V 5 PVDSMN000

Variable Water Flow Control kit
For MULTI V WATER IV PWFCKN000

Low Ambient Kit
For MULTI V IV, 5 PRVC2

Cool / Heat Selector
PRDSBM

Water Communication Module
NEW PAHCMW000

AHU Kit

Communication Kit
Return / Room Air control PAHCMR000

Discharge / Supply Air control PAHCMS000

Controller Module
Main Module NEW PAHCMM000

Communication Module NEW PAHCMC000

Control kit
NEW PAHCNM000 (Max. 3 Outdoor Units)

EEV Kit
PRLK048A0 (~ 28 kW)
PRLK096A0 (~ 56 kW)

NEW PRLK396A0 (~ 112 kW)

NEW PRLK594A0 (~ 168 kW)