

LG SMART INVERTER

COMMERCIAL AIR CONDITIONERS



LG Electronics

<http://www.lg.com/global/business>
<http://partner.lge.com/global>
<http://blog.lghvacstory.com/>

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| • Comfort | • Reliability | • Convenience |

LG Smart Inverter Single Split 24

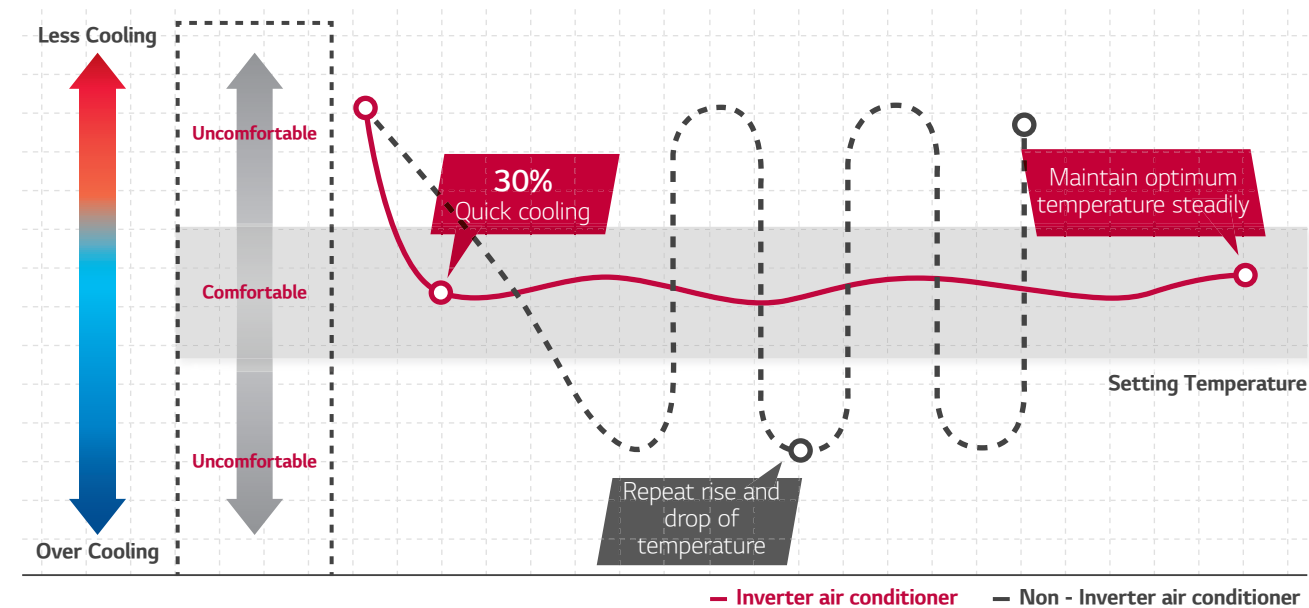
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| • Ceiling Mounted Cassette | • Ceiling Concealed Duct | • Ceiling Suspended Unit |
| • Floor Standing Unit | • Single Package | |

Control Solution 62

WHAT IS INVERTER?

Traditional compressors normally cease operation once the set temperature has been reached, then start again when the room gets warmer. This results in inefficient energy usage that increases energy bills. LG's Smart Inverter Single Split air conditioners on the other hand, operate much more efficiently, slowly decreasing and increasing output depending on the temperature outside and inside. This ultimately improves energy efficiency, as the air conditioner is able to control operational capacity.

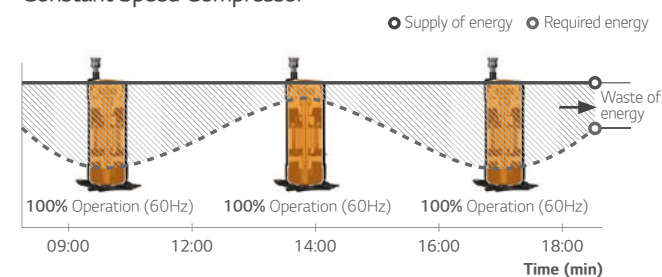
The Advantages of Inverter Control



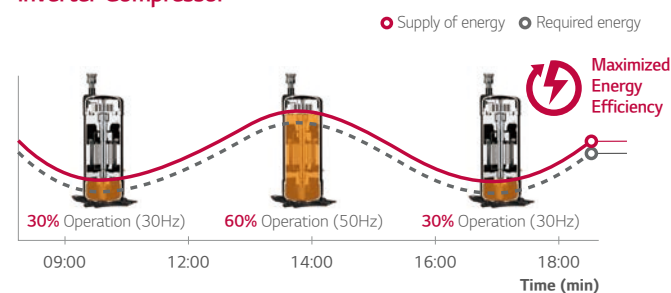
Benefit of Inverter compressor

Inverter compressor maximizes energy efficiency, by adjusting energy supply as required.

Constant Speed Compressor



Inverter Compressor



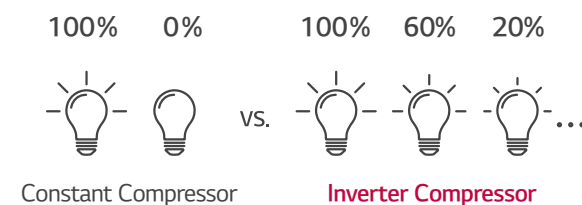
Brain

Non inverter running at constant-speed has only two choices ; RUN or STOP. It runs at single speed without judging the ambient conditions. In contrast, Inverter operating at variable speed, can adjust its pace in the most efficient way.



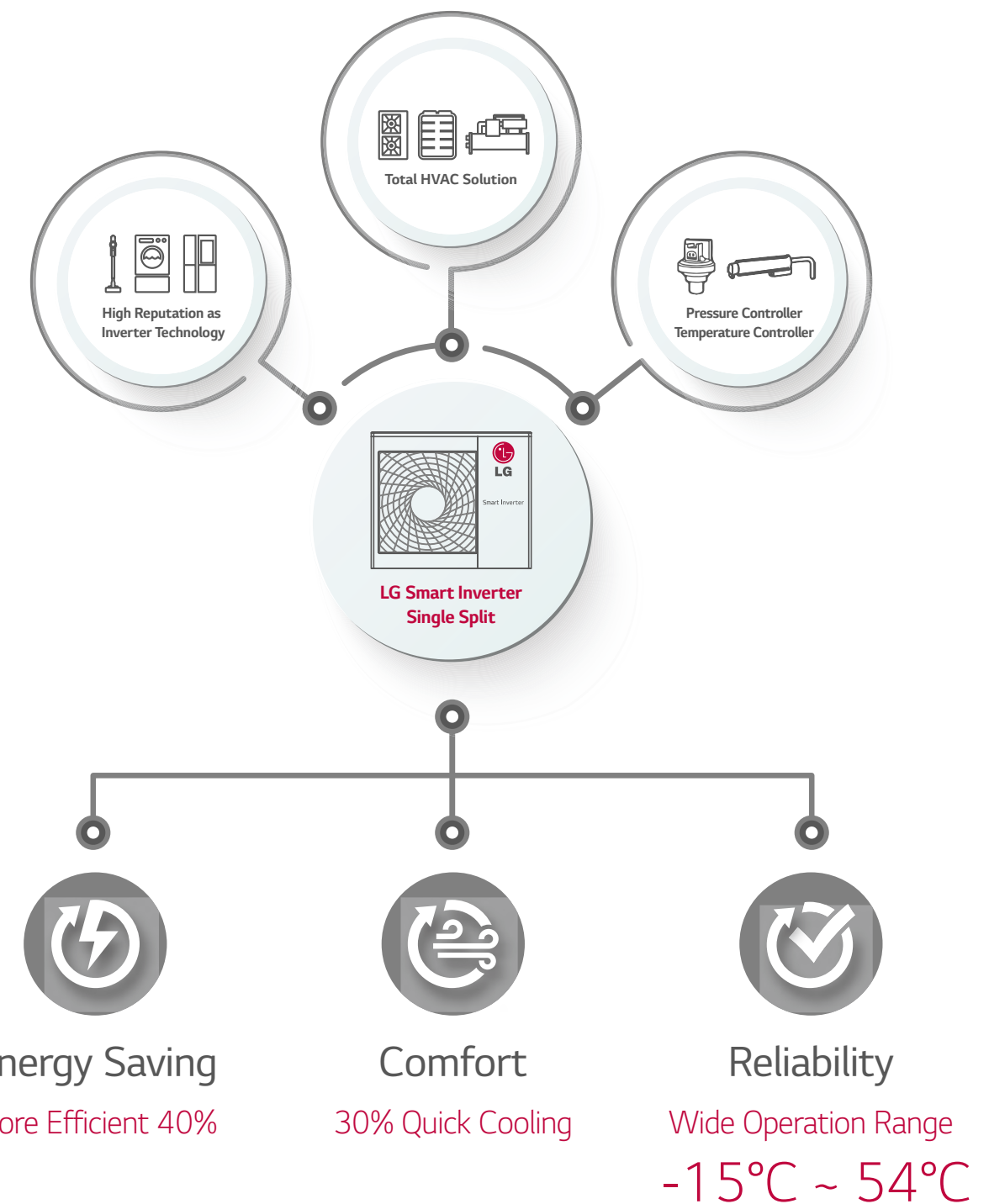
Dimmable lamp

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



WHY LG SMART INVERTER?

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



※ Different from the model

HIGH / STANDARD SMART INVERTER SINGLE SPLIT

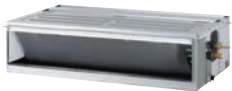
- Ceiling Mounted Cassette
- Ceiling Concealed Duct
- Ceiling Suspended Unit
- Floor Standing Unit
- Single Package



HIGH SMART INVERTER SINGLE SPLIT Line-Up

COOLING ONLY

CEILING CASSETTE						
						
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.0	48 / 13.5	54 / 15.8
Indoor Model Name	ATNQ18GPLT1	ATNQ24GPLT1	ATNQ30GPLT1	ATNQ36GNLT1	ATNQ48GMLT1	ATNQ54GMLT1
Outdoor Model Name	ATUQ18GPLT1	ATUQ24GPLT1	ATUQ30GPLT1	ATUQ36GNLT1	ATUQ48GMLT1	ATUQ54GMLT1

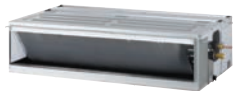
CEILING CONCEALED DUCT (MIDDLE STATIC)						
						
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.0	48 / 13.5	54 / 15.8
Indoor Model Name	ABNQ18GM1T1	ABNQ24GM1T1	ABNQ30GM1T1	ABNQ36GM3T1	ABNQ48GM3T1	ABNQ54GM3T1
Outdoor Model Name	ABUQ18GM1T1	ABUQ24GM1T1	ABUQ30GM1T1	ABUQ36GM3T1	ABUQ48GM3T1	ABUQ54GM3T1

CEILING SUSPENDED						
						
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.0	48 / 13.5	54 / 15.8
Indoor Model Name	AVNQ18GM1T1	AVNQ24GM1T1	AVNQ30GM1T1	AVNQ36GM2T1	AVNQ48GM2T1	AVNQ54GM2T1
Outdoor Model Name	AVUQ18GM1T1	AVUQ24GM1T1	AVUQ30GM1T1	AVUQ36GM2T1	AVUQ48GM2T1	AVUQ54GM2T1

SINGLE PACKAGE				
Capacity (RT)	3, 4, 5 RT	6.5, 7.5 RT	10, 12.5 RT	15, 17.5, 20, 25 RT
Single Package				
Model Name	AK-Q036GH50 AK-Q048GH50 AK-Q060GH50	AK-Q0788C01 AK-Q0908C01	AK-Q1208C01 AK-Q1508C01	AK-Q1808C01 AK-Q2108C01 AK-Q2408C01 AK-Q3008C01

HEAT PUMP

CEILING CASSETTE						
						
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.0	48 / 13.5	54 / 15.8
Indoor Model Name	ATNW18GPLT1	ATNW24GPLT1	ATNW30GPLT1	ATNW36GNLT1	ATNW48GMLT1	ATNW54GMLT1
Outdoor Model Name	ATUW18GPLT1	ATUW24GPLT1	ATUW30GPLT1	ATUW36GNLT1	ATUW48GMLT1	ATUW54GMLT1

CEILING CONCEALED DUCT (MIDDLE STATIC)						
						
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.0	48 / 13.5	54 / 15.8
Indoor Model Name	ABNW18GM1T1	ABNW24GM1T1	ABNW30GM1T1	ABNW36GM3T1	ABNW48GM3T1	ABNW54GM3T1
Outdoor Model Name	ABUW18GM1T1	ABUW24GM1T1	ABUW30GM1T1	ABUW36GM3T1	ABUW48GM3T1	ABUW54GM3T1

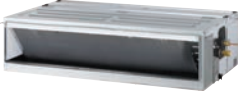
CEILING SUSPENDED						
						
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.0	48 / 13.5	54 / 15.8
Indoor Model Name	AVNW18GM1T1	AVNW24GM1T1	AVNW30GM1T1	AVNW36GM2T1	AVNW48GM2T1	AVNW54GM2T1
Outdoor Model Name	AVUW18GM1T1	AVUW24GM1T1	AVUW30GM1T1	AVUW36GM2T1	AVUW48GM2T1	AVUW54GM2T1

FLOOR STANDING					
					
kBtu / kW				36 / 10.0	48 / 13.5
Indoor Model Name				APNW36GT3S1	APNW50GT3E0 /APNW50LT3E0
Outdoor Model Name				APUW36GT3S1	APUW50GT3E0 /APUW50LT3E0

STANDARD SMART INVERTER SINGLE SPLIT Line-up

HEAT PUMP (1Phase, 220 - 240V / 50Hz)

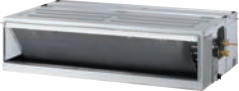
CEILING CASSETTE						
						
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.0	48 / 13.5	54 / 15.8
Indoor Model Name	ATNW18GPLS1	ATNW24GPLS1	ATNW30GPLS1	ATNW36GMLS1	ATNW48GMLS1	ATNW54GMLS1
Outdoor Model Name	ATUW18GPLS1	ATUW24GPLS1	ATUW30GPLS1	ATUW36GMLS1	ATUW48GMLS1	ATUW54GMLS1

CEILING CONCEALED DUCT (MIDDLE STATIC)						
						
kBtu / kW	18 / 5.3	24 / 7.0	30 / 8.8	36 / 10.0	48 / 13.5	54 / 15.8
Indoor Model Name	ABNW18GM1S1	ABNW24GM1S1	ABNW30GM1S1	ABNW36GM2S1	ABNW48GM3S1	ABNW54GM3S1
Outdoor Model Name	ABUW18GM1S1	ABUW24GM1S1	ABUW30GM1S1	ABUW36GM2S1	ABUW48GM3S1	ABUW54GM3S1

FLOOR STANDING						
						
kBtu / kW				36 / 10.0	48 / 13.5	
Indoor Model Name				APUW36GT3S1	APUW48GT3S1	
Outdoor Model Name				APNW36GT3S1	APNW48GT3S1	

HEAT PUMP (3Phase, 380 - 410V / 50Hz)

CEILING CASSETTE						
						
kBtu / kW					48 / 13.5	54 / 15.8
Indoor Model Name					ATNW48LMLS2	ATNW54LMLS2
Outdoor Model Name					ATUW48LMLS2	ATUW54LMLS2

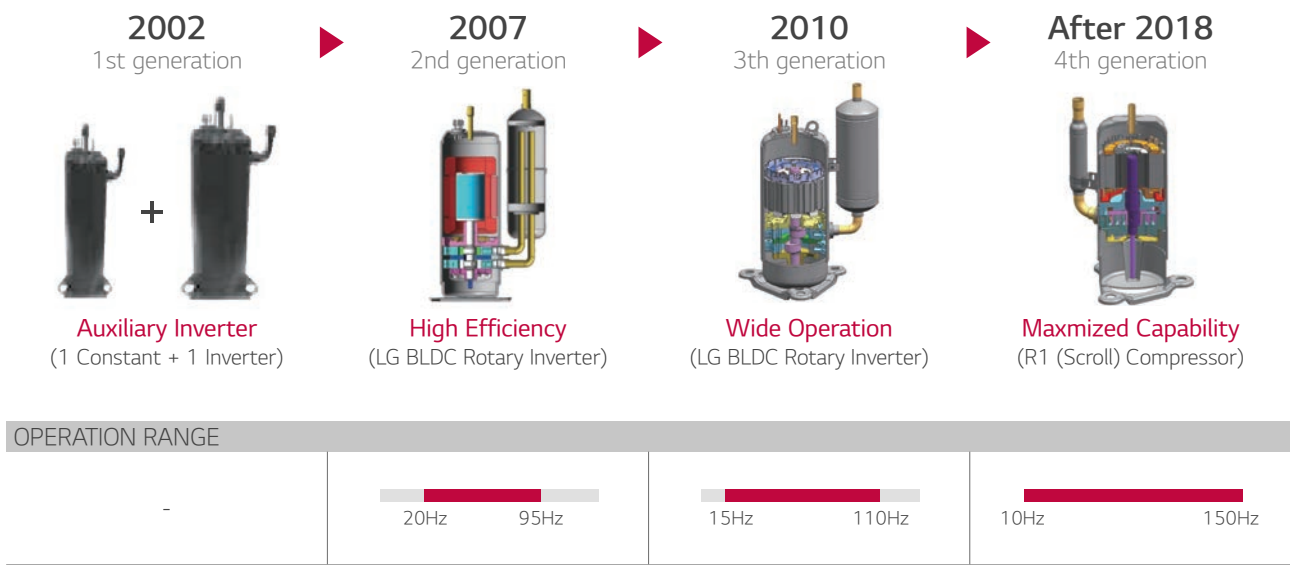
CEILING CONCEALED DUCT (MIDDLE STATIC)						
						
kBtu / kW						
Indoor Model Name					ABNW50LM3S1	ABNW60LM3S1
Outdoor Model Name					ABUW50LM3S1	ABUW60LM3S1

FLOOR STANDING						
						
kBtu / kW					48 / 13.5	
Indoor Model Name					APNW48LT3S1	
Outdoor Model Name					APUW48LT3S1	

The Evolution of LG Technology

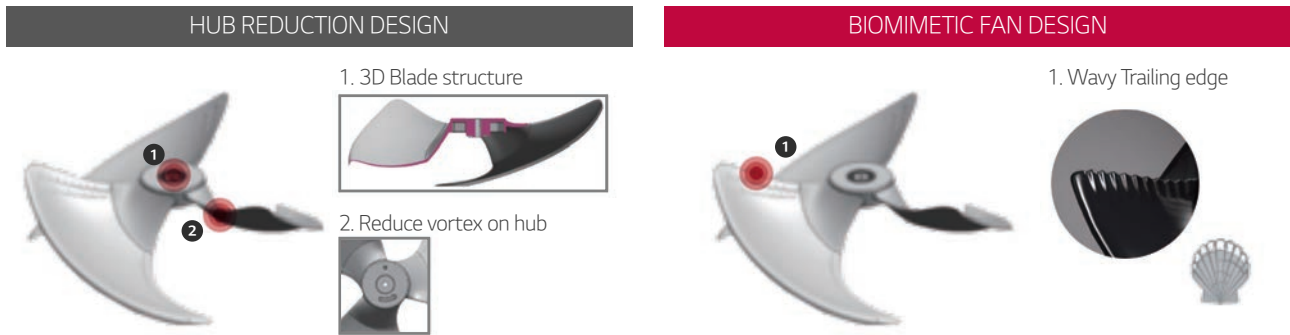
INVERTER COMPRESSOR

High-efficiency inverter compressor developed for generations



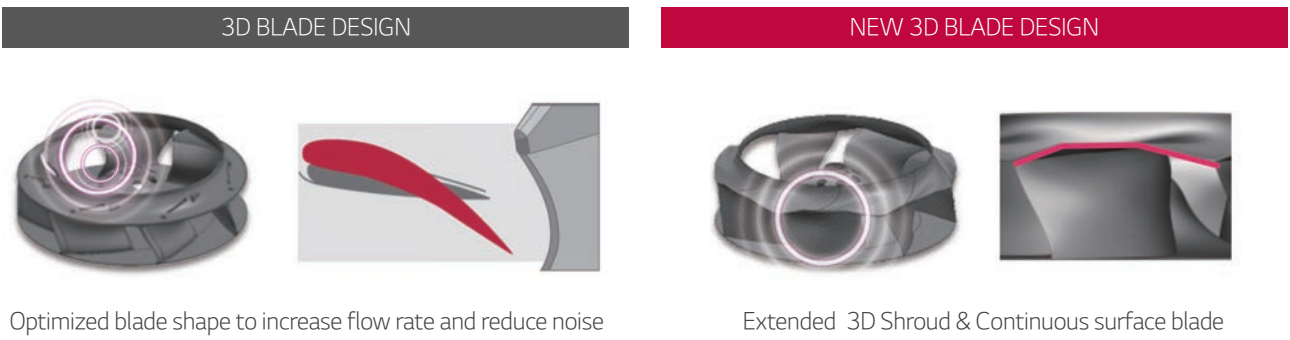
FAN (OUTDOOR)

Increased the air flow rate and reduced the noise of outdoor unit by the design to reduce vortex.



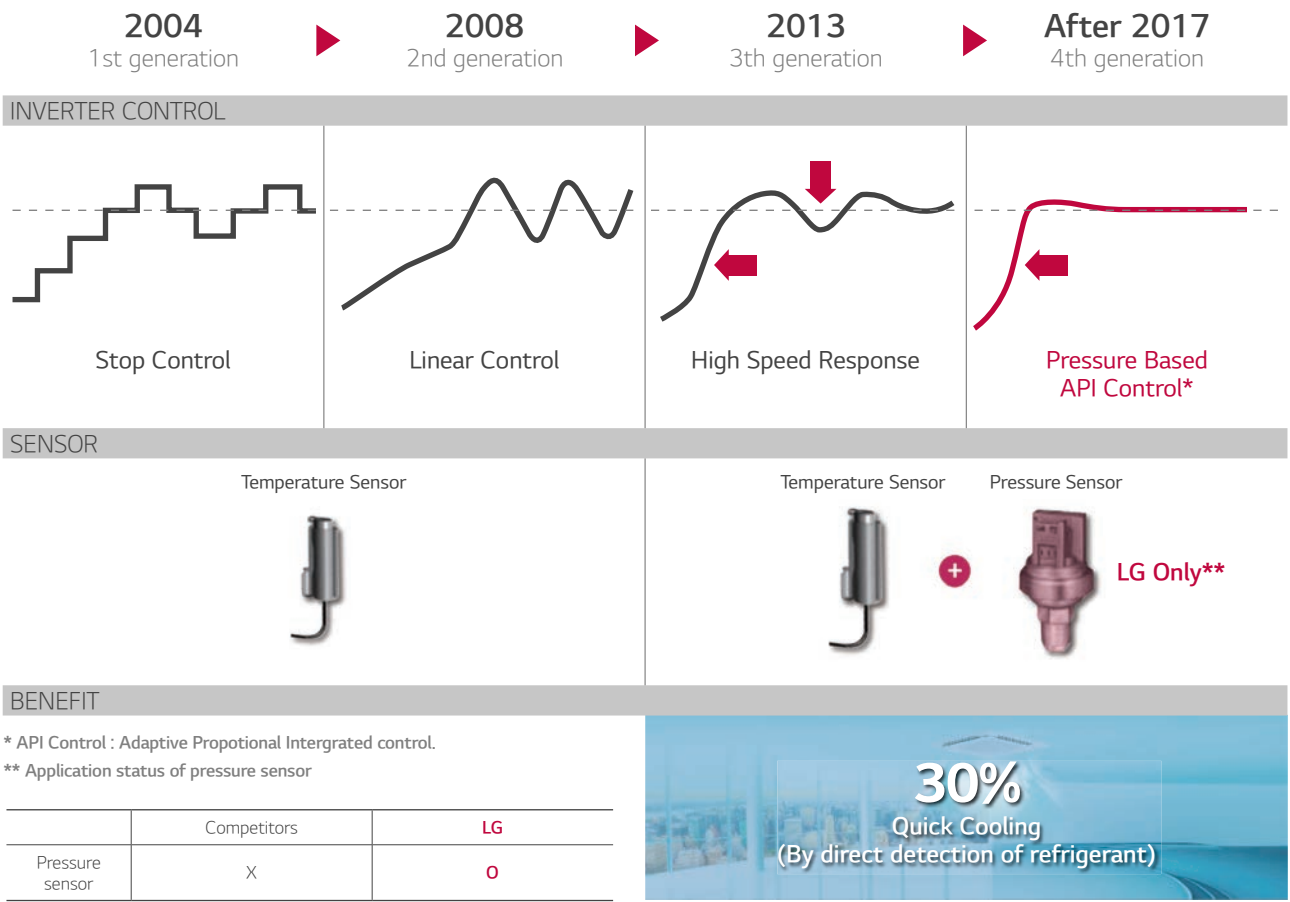
FAN (INDOOR)

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



INVERTER CONTROL

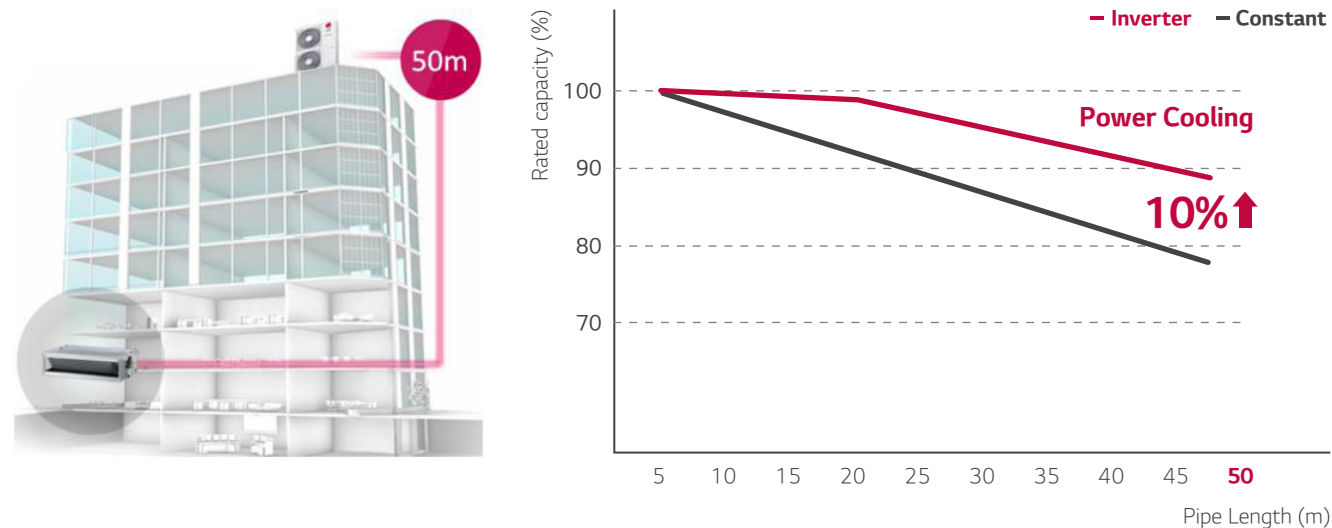
Smart sensors make quick and precise cooling possible. (Same sensor with Multi V)



LG Smart Technology

POWER COOLING AT THE LONG PIPE

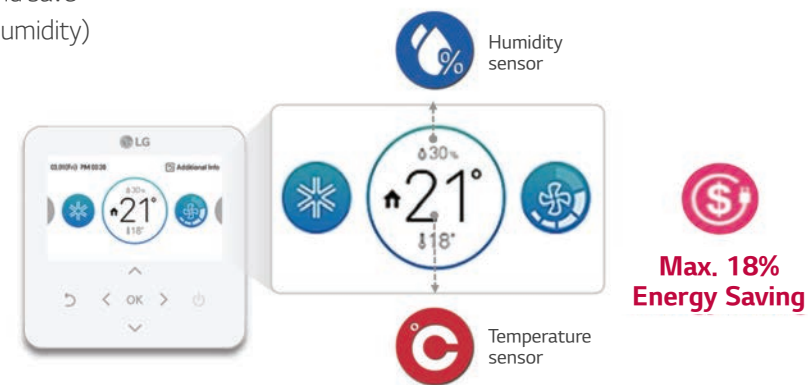
It has capacity of 10% higher more than constant model at the 50m pipe length.



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

COMFORT COOLING WITH HUMIDITY SENSOR

LG new model can provide better comfort and save energy with dual sensing. (Temperature + Humidity)



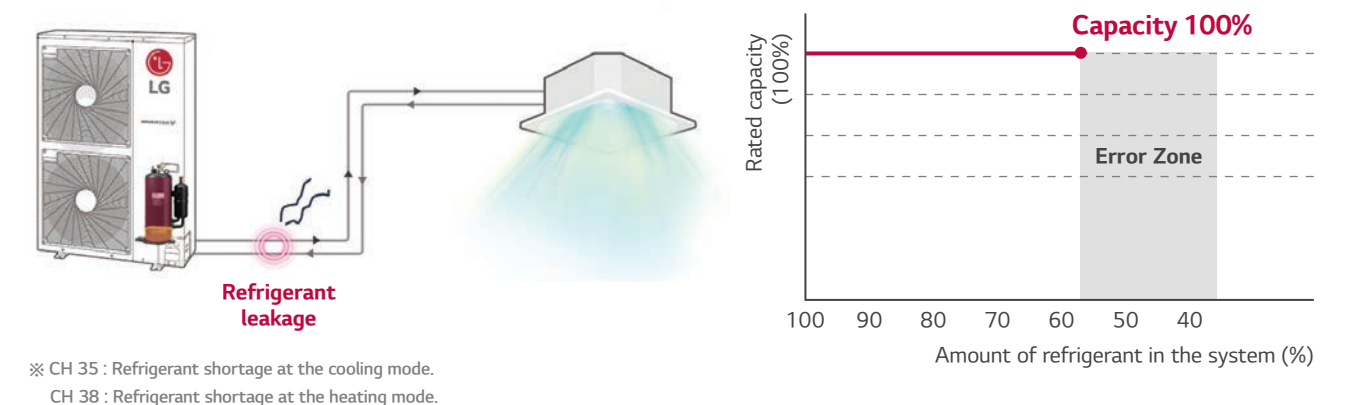
Comfort Cooling is a function that changes evaporation temperature according to temperature & humidity.



1) Evaporation Temperature
 ※ Comfort cooling is only applied to Cassette & Suspended unit

DETECTION OF REFRIGERANT SHORTAGE

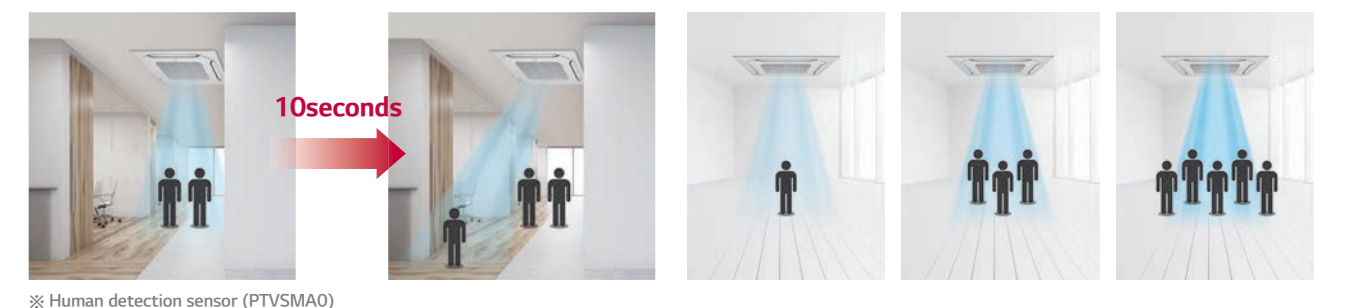
LG product detect the refrigerant level continuously and judge if the refrigerant is shortage. If the amount of refrigerant is about 60% in the system, We can check the error display of remote controller and running will be stopped.



HUMAN DETECTION

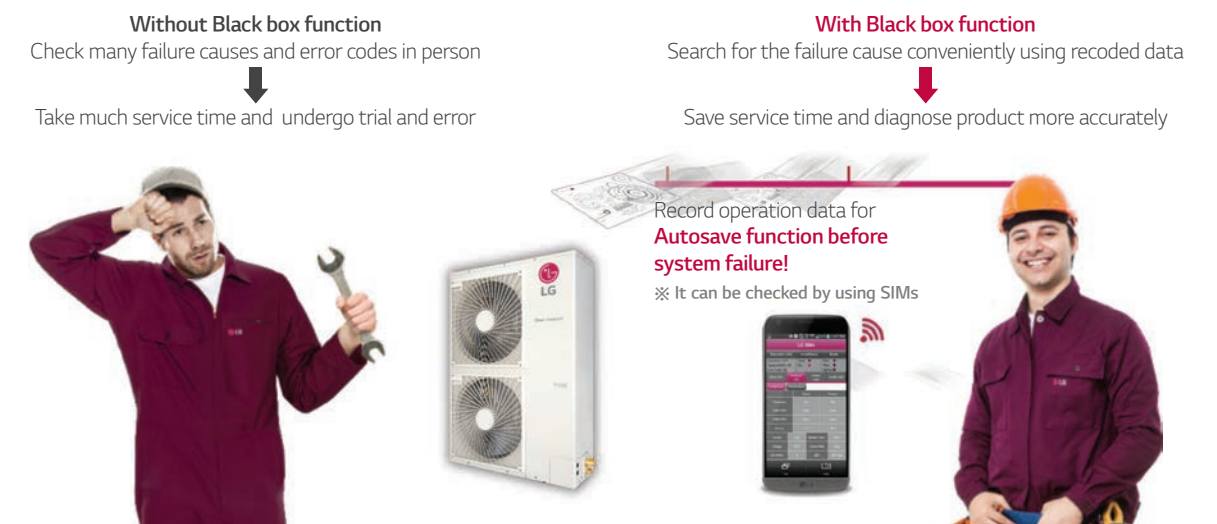
Direction control based on human motion

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



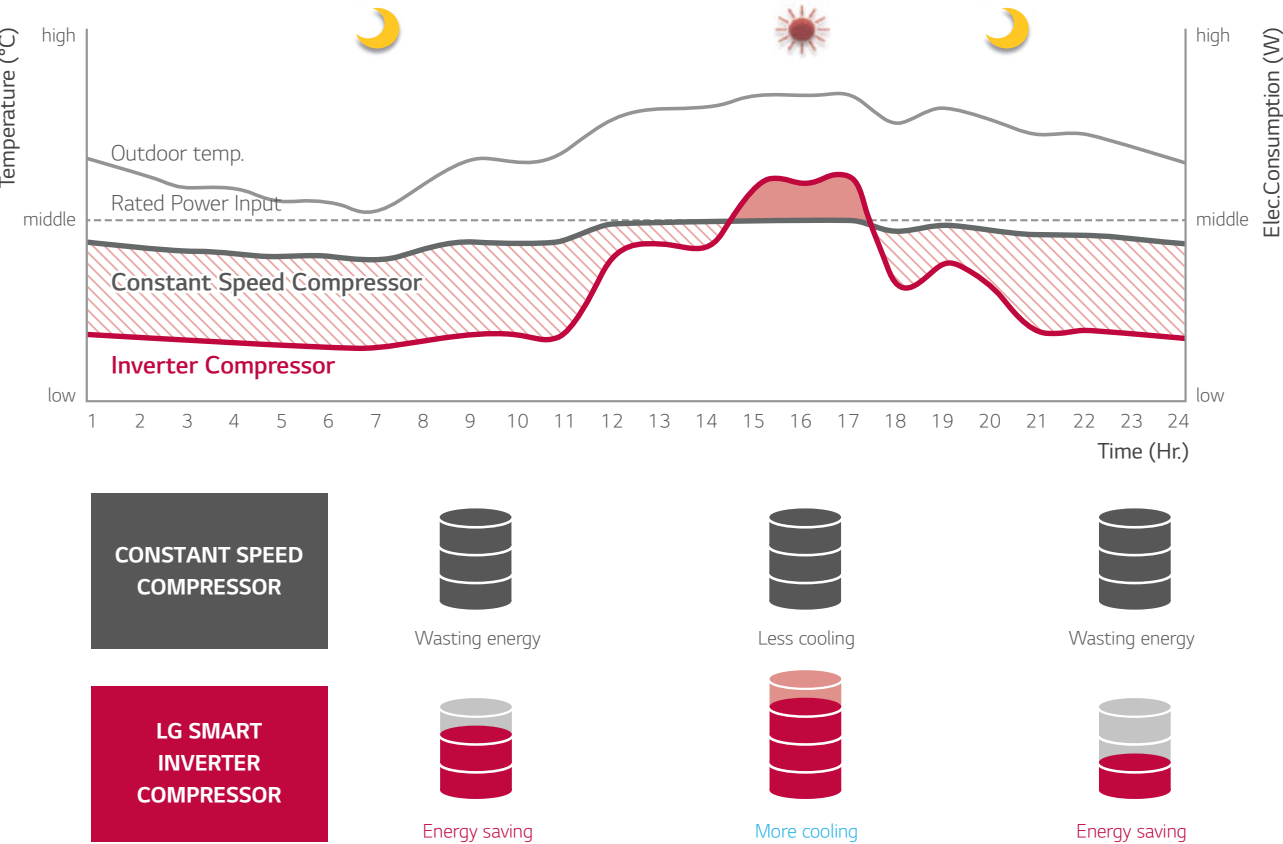
BLACK BOX FOR EMERGENCY

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



Energy Saving

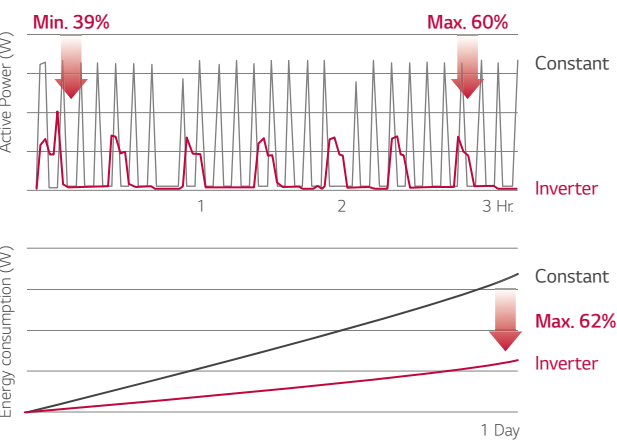
BENEFIT OF PARTIAL LOAD PERFORMANCE



BENEFIT OF PARTIAL LOAD PERFORMANCE

Energy consumption are expected to decline by 62% compared to constant speed.

Floor Standing 5HP (LG Constant vs LG Inverter)



[Conditions]
- Setting temperature : 24 °C
- Operating time : 24 hours (May 23th-24th 2018)
- Location : University Indonesia

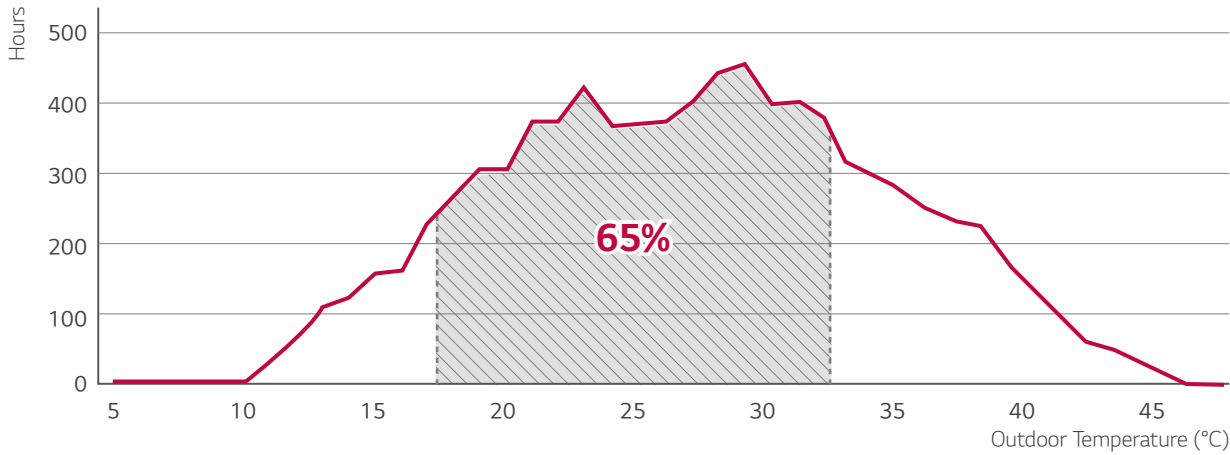
[Test result for a day]
- Floor Standing (48 kBTu/h) : Inverter : 12,700 W / Constant : 33,300 W
- Ceiling Cassette (36 kBTu/h) : Inverter : 8,200 W / Constant : 16,400 W

※ This result can be different depending on actual environment

EER VS SEER

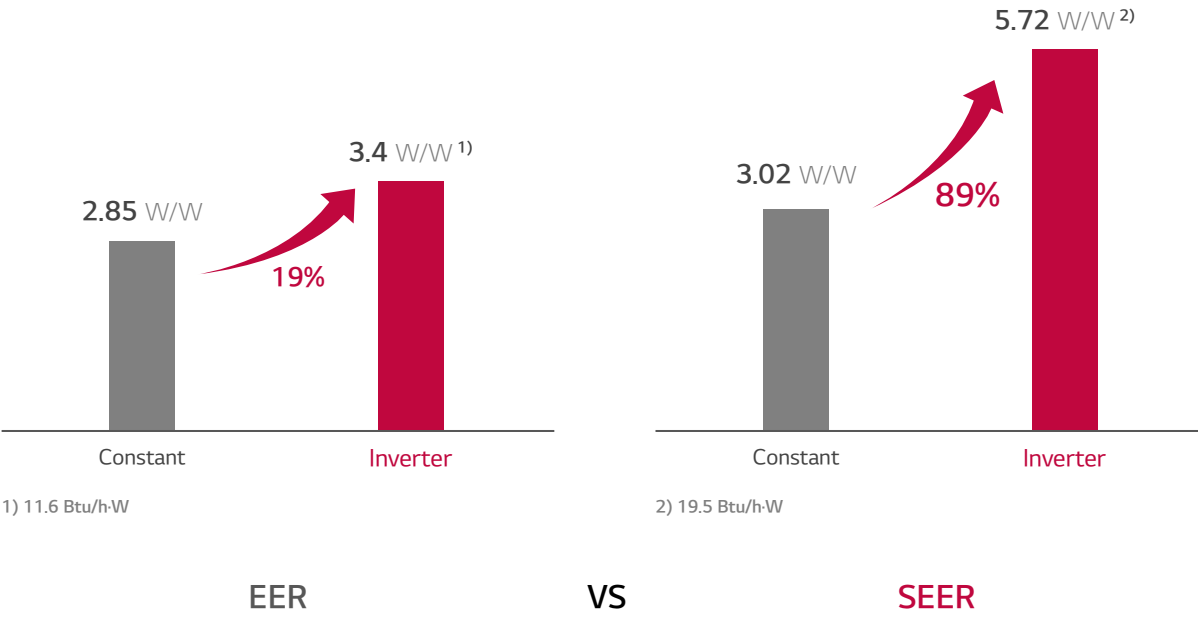
Performance and efficiency in partial load conditions are more representative parameter for the evaluation of system energy consumption per year than rated efficiency.

Weather Profile



※ Weather data source : EnergyPlus weather data, <https://energyplus.net/weather/source> (Abu Dhabi)

The difference of EER is around 19%, but the difference of SEER is much bigger. This means that inverter air conditioner saves a lot of annual operation cost comparing 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) : ANSI/AHRI STANDARD 210/240
- Indoor Temp. 26.7 °C (DB) / 19.4°C (WB)
- Outdoor Temp. 35 °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

QUICK COOLING

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

SMART SENSORS



Temperature Sensor

+



Pressure Sensor

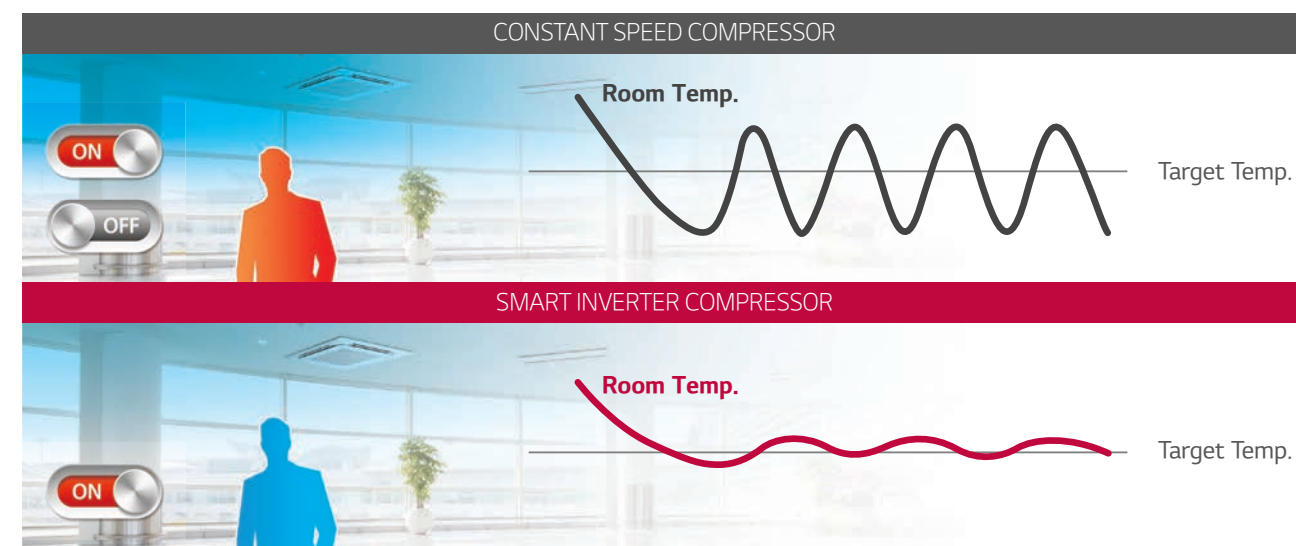
Sensing and ready for operation

Quick and reliable operation



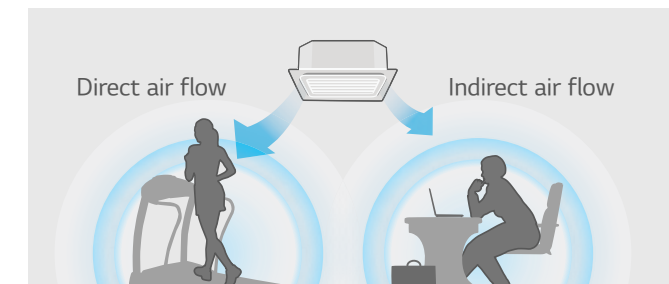
API CONTROL

The constant model has energy consumption due to on-off repetition and it causes discomfort. API control* automatically shorten the target arrival time according to the desired temperature difference



* API Control : Adaptive Proportional Intergrated control.

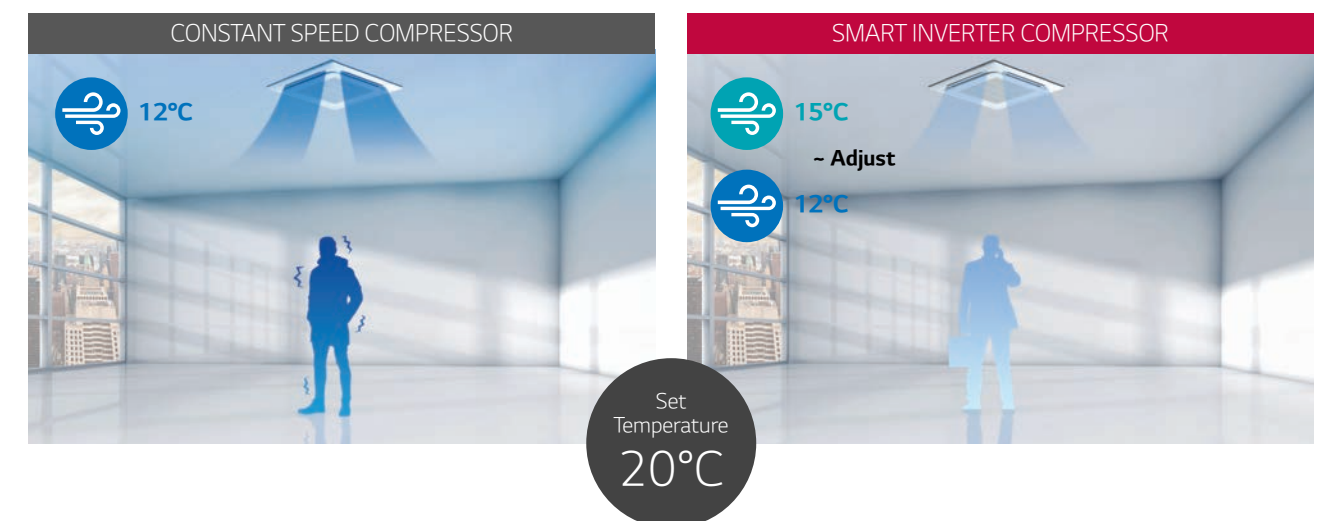
INDEPENDENT CONTROL OF AIRFLOW



The independent vane operation feature uses separate motors, making it possible to control all four vanes independently. If you use a human detection sensor, it make you more comfortable

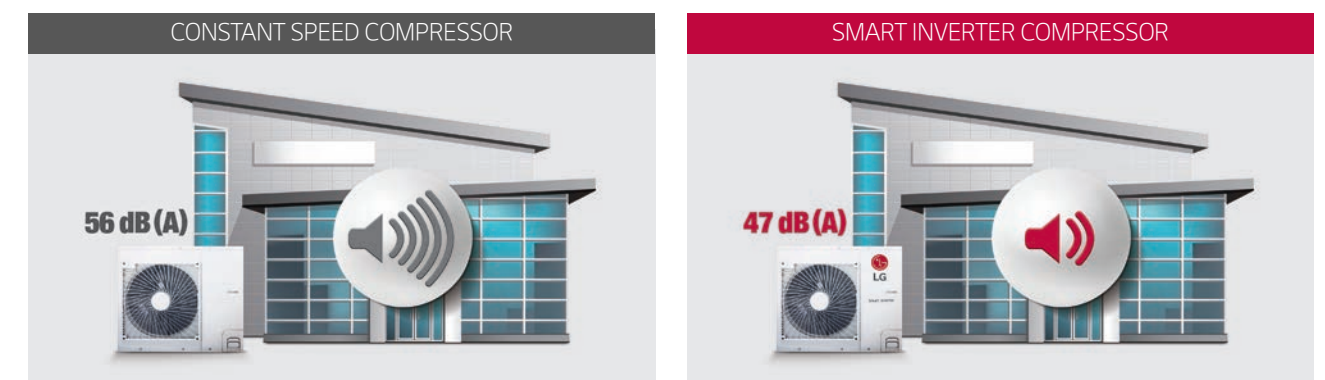
OPTIMUM COOLING

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



LOW NOISE

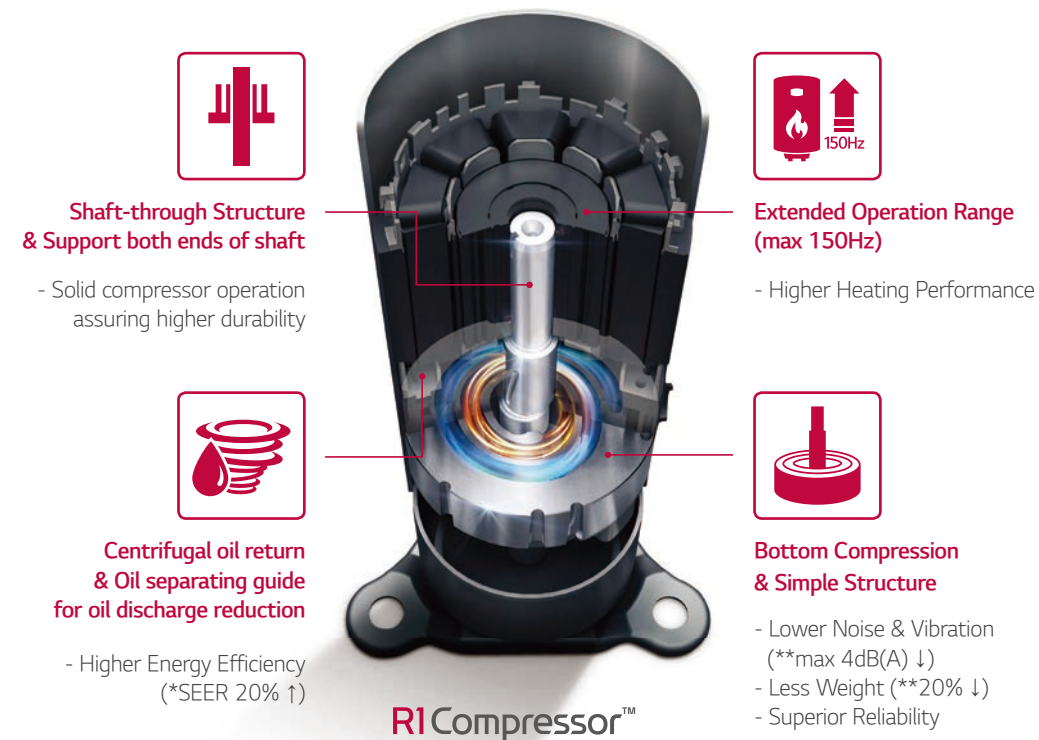
Inverter makes lower noise than constant speed due to adjustable frequency according to the load.



Reliability

REVOLUTIONARY SCROLL COMPRESSOR

R1 Compressor



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

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

WIDE OPERATION RANGE

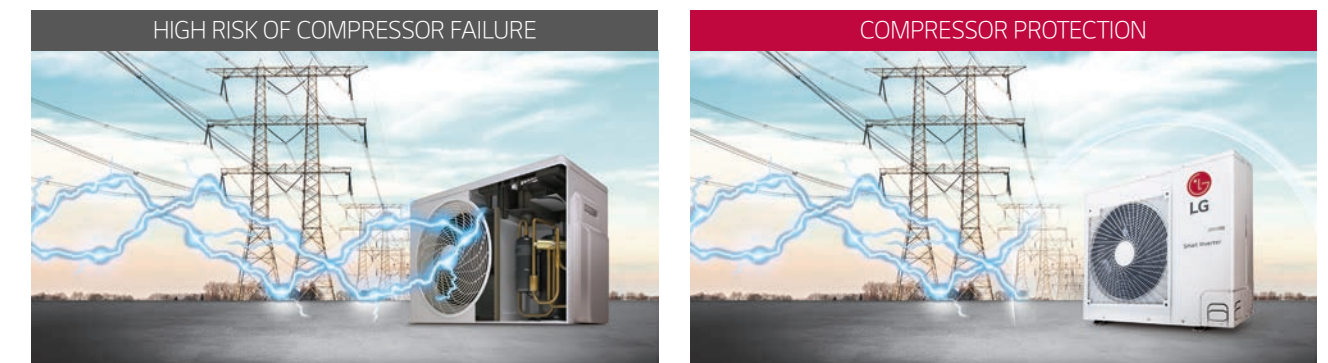
At the same condition, the inverter reaches the set temperature about 30% faster than the constant speed.



* Different from the model : The operation range of some model is from 0°C to 54°C.

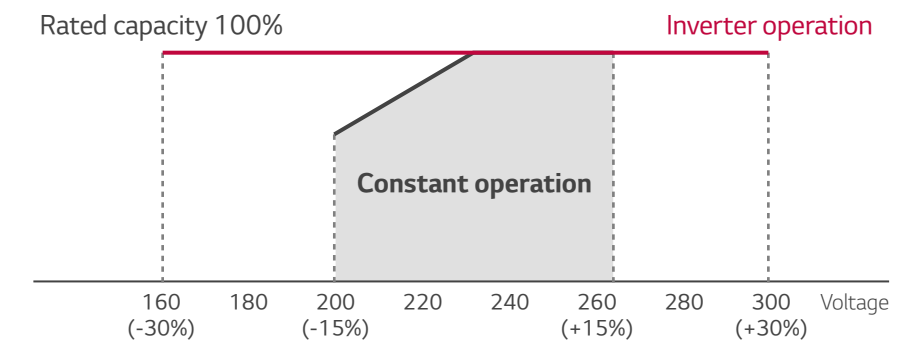
HIGH AND LOW VOLTAGE PROTECTION

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



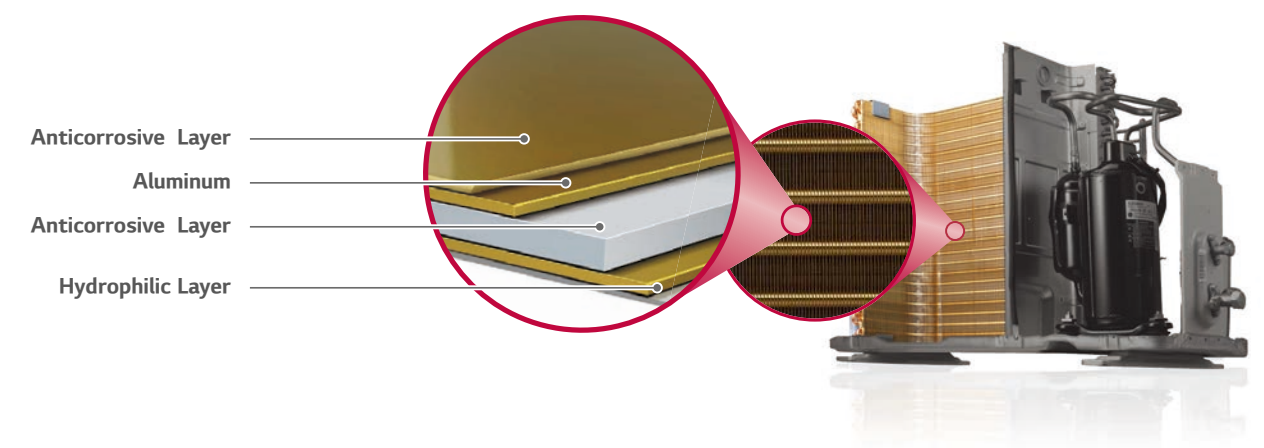
POWER COOLING AT THE LOW VOLTAGE

LG Smart inverter operate at a wider voltage range than constant speed model. At the low/high voltage, Inverter model keeps capacity of 100%



CORROSION RESISTANT HEAT EXCHANGER

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



Convenience

SMART ThinQ

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



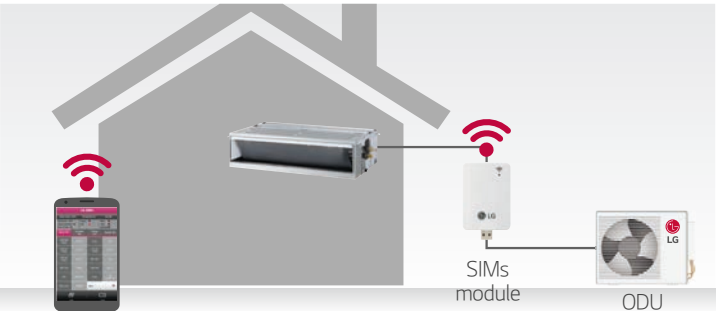
Simple operation for various functions

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

※ Search “LG Smart ThinQ” on Google market or Appstore then download the app.
※ Wi-Fi modem (PWFMDD200) is required by option.

SMART DIAGNOSIS

Monitor the status of your air conditioner and diagnose problems by conneting it to a smartphone via a SIMs chip.



Easy Monitoring

Diagnose problems anytime, anywhere with a SIMs Module.

Easy Diagnosis & Quick Response

Easily monitor IDU / ODU and diagnose problems. Save and review diagnostic data.

- #### Main
- Current outdoor temperature
 - Indoor temperature
 - Inverter comp frequency
 - Operating opening
 - Error code / Frequency limits Indoor
 - Outdoor fan speed

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

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

- #### Chart
- Room Temperature
 - Heat exchanger pipe temperature
 - Compressor discharge temperature
 - Frequency / Outdoor temperature
 - Compressor suction temperature
 - Electric current / Voltage

※ Search “LG SIMs” on Google market or Appstore then download the app.

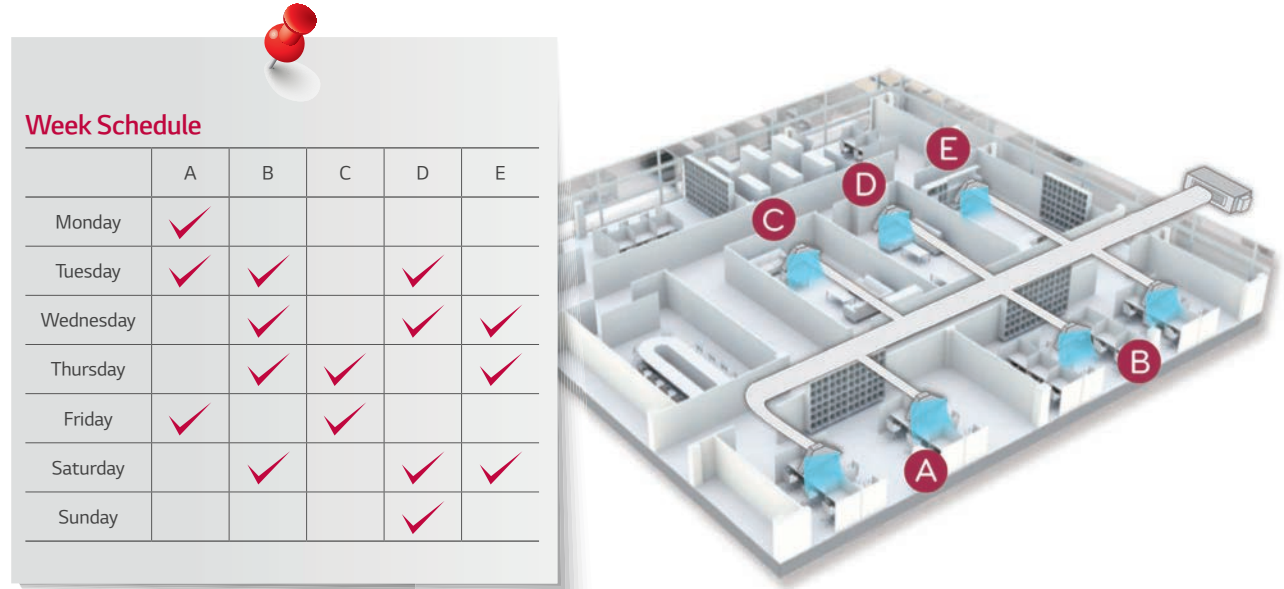
SIMPLE PUMP DOWN

Simple pump down provides easy maintenance and save the service time.

MANUAL PUMP DOWN		SIMPLE PUMP DOWN (LG INVERTER)	
Time consuming and inconvenience (Conduct the pump down by setting at outdoor unit and indoor unit respectively)		Save time and simple maintenance (Start pump down simply by setting dip switch on PCB in outdoor unit)	
Imprecise pump down (Assuming ref. amount empirically)		Precise pump down (LED signal) (Measuring ref. amount by pressure sensor and alarm LED signal)	
Action	Setting by	Action	Setting by
① Liquid pipe valve closed	ODU	① Liquid pipe valve closed	ODU
② Power On	ODU	② Dip switch On	ODU
③ Cooling operation start by Indoor remote controller	IDU	③ Power On	ODU
④ Collect refrigerant	ODU	④ Collect refrigerant	ODU
⑤ Vappor pipe valve closed assuming ref. amount in person	ODU	⑤ Vapor Pipe valve closed after checking LED signal	ODU
⑥ Power Off	ODU	⑥ Power Off	ODU

WEEKLY PROGRAM

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



※ Two weekly reservation Max. 14 schedule for a week

CEILING MOUNTED CASSETTE



STYLISH DESIGN PANEL

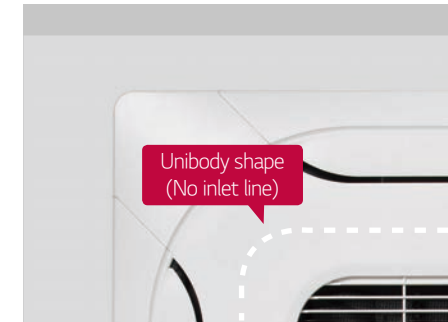
New 4 way cassette panel adapted a unibody shape that matches with the ceiling.

Interior fit

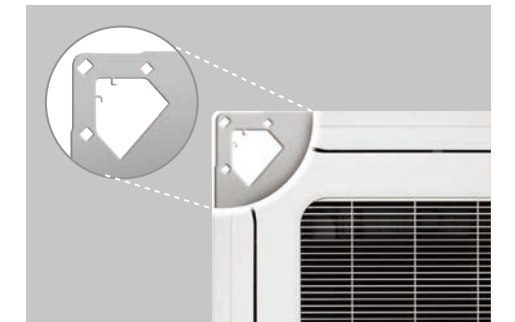


reddot design award

Lineless surface

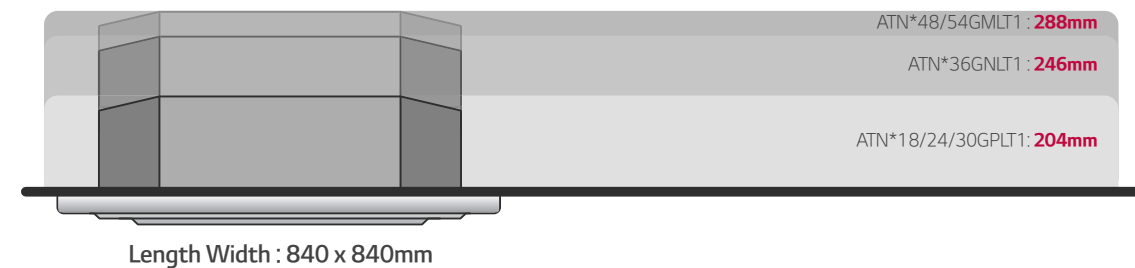


Detachable corner

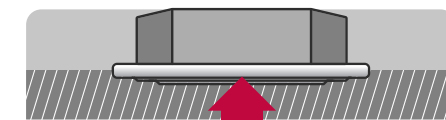


COMPACT SIZE

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



Conventional

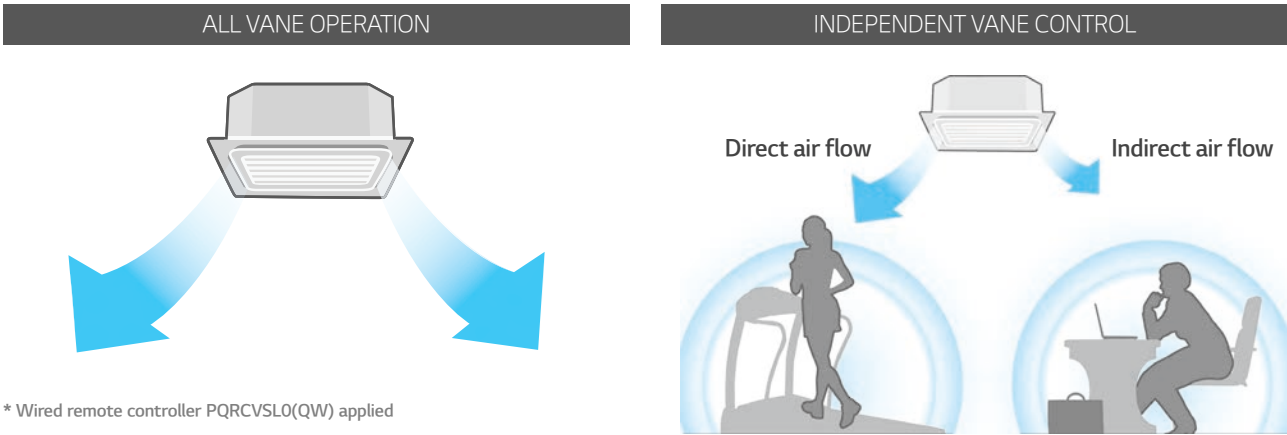


LG

CEILING MOUNTED CASSETTE

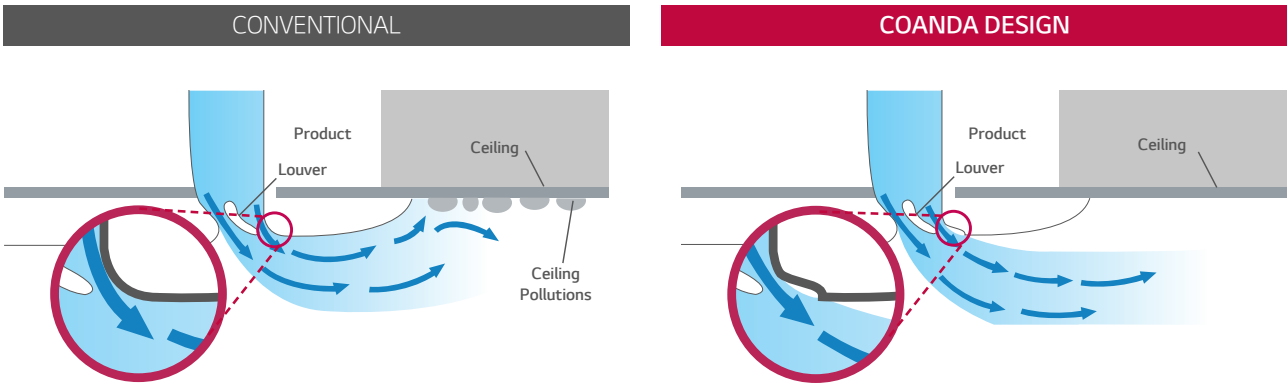
INDEPENDENT VANE OPERATION

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



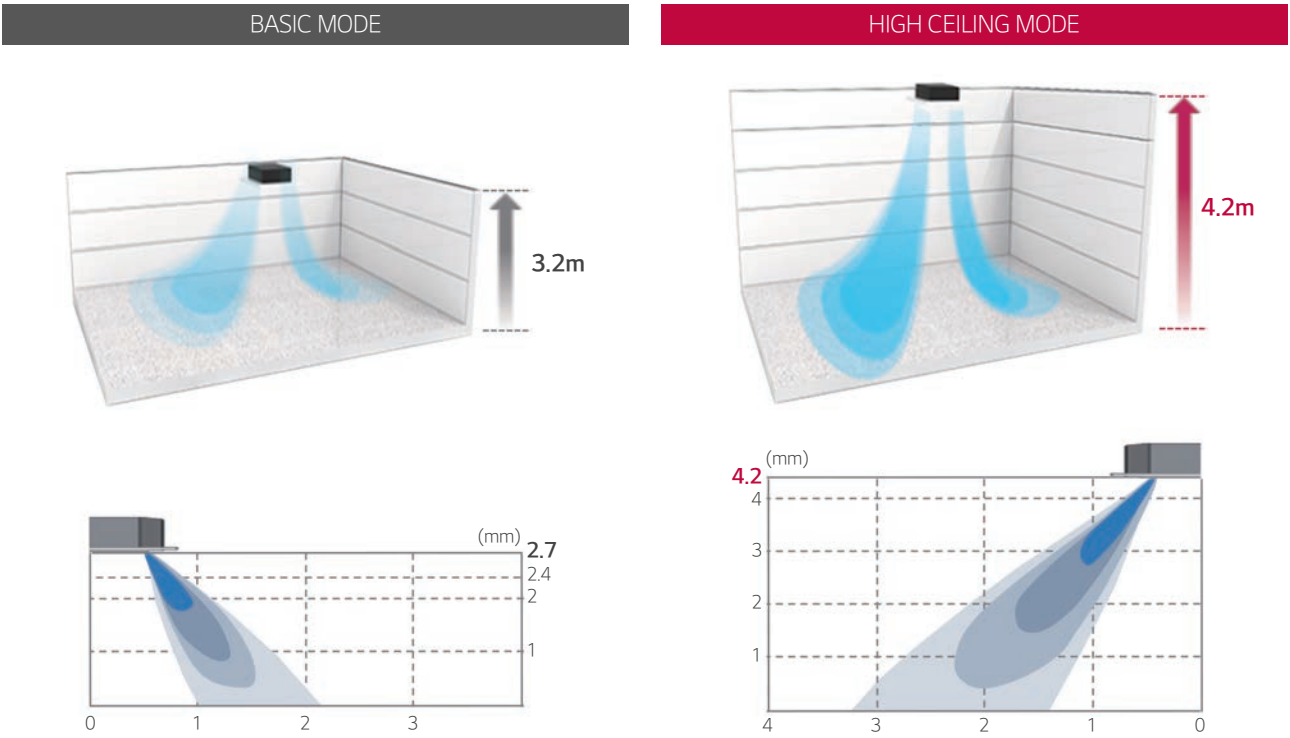
PREVENT CEILING POLLUTION

Coanda design of air outlet can prevent contamination of ceiling.



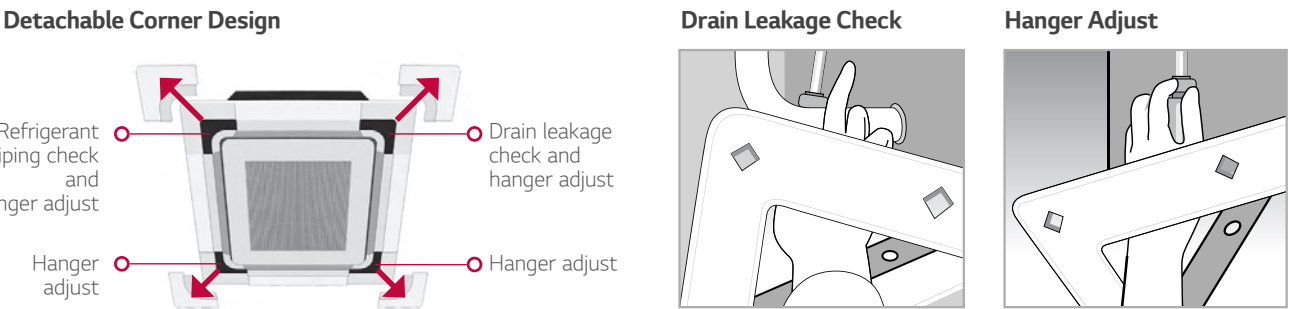
HIGH CEILING MODE

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

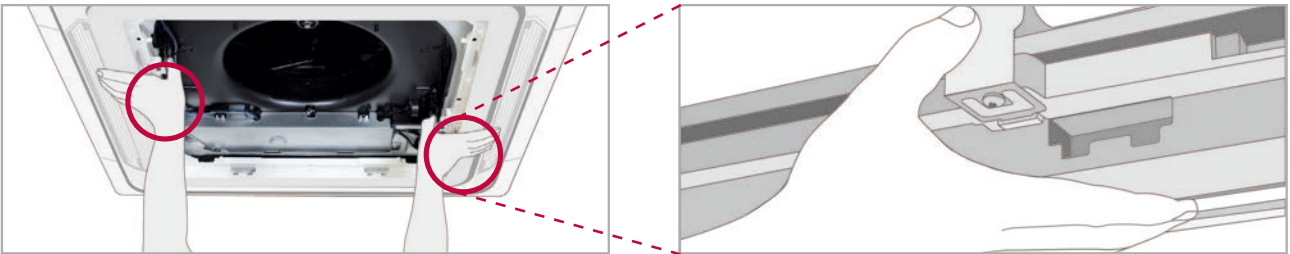


CONVENIENT PANEL INSTALLATION

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



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



SPECIFICATIONS

HIGH CEILING MOUNTED CASSETTE (INVERTER / 1PHASE)



COOLING ONLY

Combination			Outdoor unit	Unit	ATUQ18GPLT1	ATUQ24GPLT1
			Indoor unit		ATNQ18GPLT1	ATNQ24GPLT1
Cooling Capacity ¹			Min. ~ Rated ~ Max.	kW	2.1~5.27~5.86	2.81~7.03~8.2
				Btu/h	7200~18000~20000	9600~24000~28000
Cooling Capacity ²			Min. ~ Rated ~ Max.	kW	4.53	5.86
				Btu/h	15,450	20,000
Power Input	Cooling ¹	Rated		kW	1.55	2.06
	Cooling ²	Rated		kW	1.71	2.25
EER / COP				W/W	3.4	3.41
Outdoor				Unit	ATUQ18GPLT1	ATUQ24GPLT1
Power Supply				V , Ø , Hz	220 - 240,1,50	220 - 240,1,50
Power Supply Cable (included Earth)				No. × mm ²	3C × 2.5	3C × 2.5
Casing Color				-	Warm Gray	Warm Gray
Dimensions	Net	W × H × D	mm		770 x 545 x 288	870 x 650 x 330
Weight	Net		kg		34.3	43.3
Compressor	Type		-		Twin Rotary	Twin Rotary
Refrigerant	Type		-		R410A	R410A
Fan Motor	Type				BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)		49	50
	Liquid	Outer Dia.	mm (inch)		Ø 6.35(1/4)	Ø 9.52(3/8)
Piping Connections	Gas	Outer Dia.	mm (inch)		Ø 12.7(1/2)	Ø 15.88 (5/8)
		Rated	m		5	5
Piping Length		Max.	m		30	50
		Max.	m		15	30
Indoor				Unit	ATNQ18GPLT1	ATNQ24GPLT1
Panel Name					PT-UMC1 / PT-MCHWO	PT-UMC1 / PT-MCHWO
Power Supply				V , Ø , Hz	220~240 , 1 , 50	220~240 , 1 , 50
Dimensions	Net	W × H × D	mm		840 x 204 x 840	840 x 204 x 840
	Decoration Panel	W × H × D	mm		950 x 25 x 950	950 x 25 x 950
Weight	Net		kg		19.6	20.5
Air Flow Rate		H / M / L	m³/min		17.0 / 15.0 / 13.0	17.0 / 15.0 / 13.0
Fan Motor	Type				BLDC	BLDC
Safety Device					Fuse	Fuse
Sound Pressure Level		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

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

ATUQ18GPLT1 / ATUQ24GPLT1 / ATUQ30GPLT1 / ATUQ36GNLT1 / ATUQ48GMLT1 / ATUQ54GMLT1



COOLING ONLY

ATUQ30GPLT1	ATUQ36GNLT1	ATUQ48GMLT1	ATUQ54GMLT1
ATNQ30GPLT1	ATNQ36GNLT1	ATNQ48GMLT1	ATNQ54GMLT1
3.44~8.2~9.38	4.7~9.99~11.13	5.392~13.48~15.53	6.328~15.82~16.7
11760~28000~32000	16030~34100~38000	18400~46000~53000	21600~54000~57000
7.38	8.49	11.45	12.34
25,200	28,980	39,100	42,120
2.41	2.93	3.96	5.39
3.02	3.44	4.66	5.40
3.4	3.41	3.4	2.94
ATUQ30GPLT1	ATUQ36GNLT1	ATUQ48GMLT1	ATUQ54GMLT1
220 - 240,1,50	220 - 240,1,50	220 - 240,1,50	220 - 240,1,50
3C × 2.5	3C × 2.5	3C × 6.0	3C × 6.0
Warm Gray	Warm Gray	Warm Gray	Warm Gray
950 x 834 x 330	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
59.1	59.1	89.5	89.5
Twin Rotary	Twin Rotary	LG Inverter Scroll	LG Inverter Scroll
R410A	R410A	R410A	R410A
BLDC	BLDC	BLDC	BLDC
51	51	55	55
Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
5	5	5	5
50	50	50	50
30	30	30	30
ATNQ30GPLT1	ATNQ36GNLT1	ATNQ48GMLT1	ATNQ54GMLT1
PT-UMC1 / PT-MCHWO	PT-UMC1 / PT-MCHWO	PT-UMC1 / PT-MCHWO	PT-UMC1 / PT-MCHWO
220~240 , 1 , 50	220~240 , 1 , 50	220~240 , 1 , 50	220~240 , 1 , 50
840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
20.5	23.3	25.5	25.5
19.0 / 17.0 / 15.0	23.0 / 21.0 / 19.0	32.0 / 30.0 / 28.0	32.0 / 30.0 / 28.0
BLDC	BLDC	BLDC	BLDC
Fuse	Fuse	Fuse	Fuse
41 / 38 / 36	42 / 40 / 38	44 / 42 / 40	44 / 42 / 40

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

SPECIFICATIONS

HIGH CEILING MOUNTED CASSETTE (INVERTER / 1PHASE)



HEAT PUMP

Combination			Outdoor unit	Unit	ATUW18GPLT1	ATUW24GPLT1
			Indoor unit		ATNW18GPLT1	ATNW24GPLT1
Cooling Capacity ¹			Min. ~ Rated ~ Max.	kW	2.1-5.27-5.86	2.81-7.03-8.2
				Btu/h	7200-18000-20000	9600-24000-28000
Cooling Capacity ²			Min. ~ Rated ~ Max.	kW	4.53	5.86
				Btu/h	15450	20000
Heating Capacity ¹			Min. ~ Rated ~ Max.	kW	2.1-5.27-6.1	2.8-7.03-8.2
				Btu/h	7200-18000-21000	9600-24000-28000
Power Input	Cooling ¹	Rated	kW	1.55	2.06	
	Cooling ²	Rated	kW	1.71	2.25	
	Heating ¹	Rated	kW	1.50	2.05	
EER / COP				W/W	3.4/3.51	3.41/3.43
Outdoor				Unit	ATUW18GPLT1	ATUW24GPLT1
Power Supply				V , Ø , Hz	220 - 240,1,50	220 - 240,1,50
Power Supply Cable (included Earth)				No. × mm ²	3C × 2.5	3C × 2.5
Casing Color				-	Warm Gray	Warm Gray
Dimensions	Net	W × H × D	mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net		kg	35.2	45.5	
Compressor	Type		-	Twin Rotary	Twin Rotary	
Fan Motor	Type			BLDC	BLDC	
Sound Pressure Level	Cooling	Rated	dB(A)	49	50	
	Heating	Rated	dB(A)	52	52	
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 6.35(1/4)	Ø 9.52(3/8)	
	Gas	Outer Dia.	mm (inch)	Ø 12.7(1/2)	Ø 15.88 (5/8)	
Piping Length			Rated	m	5	
			Max.	m	30	
Maximum Height Difference (ODU ~ IDU)			Max.	m	15	30
Indoor				Unit	ATNW18GPLT1	ATNW24GPLT1
Panel Name					PT-UMC1 / PT-MCHWO	PT-UMC1 / PT-MCHWO
Power Supply				V , Ø , Hz	220 - 240,1,50	220 - 240,1,50
Dimensions	Net	W × H × D	mm	840 x 204 x 840	840 x 204 x 840	
	Decoration Panel	W × H × D	mm	950 x 25 x 950	950 x 25 x 950	
Weight	Net		kg	19.6	20.5	
Air Flow Rate		H / M / L	m³/min	17.0 / 15.0 / 13.0	17.0 / 15.0 / 13.0	
Fan Motor	Type			BLDC	BLDC	
Safety Device					Fuse	Fuse
Sound Pressure Level		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

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

ATUW18GPLT1 / ATUW24GPLT1 / ATUW30GPLT1 / ATUW36GNLT1 / ATUW48GMLT1 / ATUW54GMLT1



ATUW18GPLT1



ATUW24GPLT1



ATUW30GPLT1
ATUW36GNLT1



ATUW48GMLT1
ATUW54GMLT1

HEAT PUMP

ATUW30GPLT1	ATUW36GNLT1	ATUW48GMLT1	ATUW54GMLT1
ATNW30GPLT1	ATNW36GNLT1	ATNW48GMLT1	ATNW54GMLT1
3.44~8.2~9.38	4.7~9.99~11.13	5.39~13.48~15.53	6.33~15.82~16.7
11760~28000~32000	16030~34100~38000	18400~46000~53000	21600~54000~57000
7.38	8.49	11.45	12.34
25200	28980	39100	42120
3.28~8.2~9.09	4.0~9.99~10.84	5.62~14.06~15.8	6.56~16.41~17.6
11200~28000~31000	13640~34100~37000	19200~48000~54000	22400~56000~60000
2.41	2.93	3.96	5.39
3.02	3.44	4.66	5.40
2.33	2.84	4.00	5.09
3.4/3.52	3.41/3.52	3.4/3.52	2.94/3.22
ATUW30GPLT1	ATUW36GNLT1	ATUW48GMLT1	ATUW54GMLT1
220 - 240,1,50	220 - 240,1,50	220 - 240,1,50	220 - 240,1,50
3C x 2.5	3C x 2.5	3C x 6.0	3C x 6.0
Warm Gray	Warm Gray	Warm Gray	Warm Gray
950 x 834 x 330	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
60.8	60.8	90.2	90.2
Twin Rotary	Twin Rotary	LG Inverter Scroll	LG Inverter Scroll
BLDC	BLDC	BLDC	BLDC
51	51	55	55
53	53	57	57
Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
5	5	5	5
50	50	50	50
30	30	30	30
ATNW30GPLT1	ATNW36GNLT1	ATNW48GMLT1	ATNW54GMLT1
PT-UMC1 / PT-MCHWO	PT-UMC1 / PT-MCHWO	PT-UMC1 / PT-MCHWO	PT-UMC1 / PT-MCHWO
220 - 240,1,50	220 - 240,1,50	220 - 240,1,50	220 - 240,1,50
840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
20.5	23.3	25.5	25.5
19.0 / 17.0 / 15.0	23.0 / 21.0 / 19.0	32.0 / 30.0 / 28.0	32.0 / 30.0 / 28.0
BLDC	BLDC	BLDC	BLDC
Fuse	Fuse	Fuse	Fuse
41 / 38 / 36	42 / 40 / 38	44 / 42 / 40	44 / 42 / 40

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

SPECIFICATIONS

STANDARD CEILING MOUNTED CASSETTE



HEAT PUMP

Combination		Outdoor unit		ATUW18GPLS1		ATUW24GPLS1		ATUW30GPLS1	
		Indoor unit		ATNW18GPLS1		ATNW24GPLS1		ATNW30GPLS1	
Capacity	Cooling ¹	Min. ~ Rated ~ Max.	kW	1.8 ~ 5.2 ~ 5.5		2.8 ~ 7.0 ~ 8.1		3.0 ~ 7.8 ~ 8.4	
		Min. ~ Rated ~ Max.	Btu/h	6,100 ~ 17,700 ~ 18,800		9,600 ~ 23,900 ~ 27,600		10,200 ~ 26,600 ~ 28,700	
	Cooling ²	Rated	kW	4.20		5.75		6.40	
		Rated	Btu/h	14,300		19,600		21,800	
	Heating	Min. ~ Rated ~ Max.	kW	1.9 ~ 5.3 ~ 5.8		3.0 ~ 7.6 ~ 8.6		3.2 ~ 8.4 ~ 8.8	
		Min. ~ Rated ~ Max.	Btu/h	6,500 ~ 18,100 ~ 19,800		10,200 ~ 25,900 ~ 29,300		10,900 ~ 28,700 ~ 30,000	
Power Input	Cooling ¹	Rated	kW	1.62		2.33		2.59	
	Cooling ²	Rated	kW	1.75		2.60		3.15	
	Heating	Rated	kW	1.56		2.24		2.77	
EER / COP	Cooling ¹ / Heating		W / W	3.21 / 3.41		3.01 / 3.40		3.01 / 3.01	
Outdoor				ATUW18GPLS1		ATUW24GPLS1		ATUW30GPLS1	
Power Supply			V , Ø , Hz	220-240 , 1 , 50		220-240 , 1 , 50		220-240 , 1 , 50	
Power Supply Cable (included Earth)			Noxmm2 (AWG)	3C x 2.5 (12)		3C x 2.5 (12)		3C x 2.5 (12)	
Casing Color			-	Warm Gray		Warm Gray		Warm Gray	
Dimensions		W x H x D	mm	770 x 545 x 288		870 x 650 x 330		870 x 650 x 330	
Net Weight		Body	kg (lbs)	35.5 (78.3)		44.8 (98.8)		44.8 (98.8)	
Compressor	Type	-		Twin Rotary		Twin Rotary		Twin Rotary	
Refrigerant	Type	-		R410A		R410A		R410A	
Fan Motor	Type	-		BLDC		BLDC		BLDC	
Sound Pressure Level	Cooling	Rated	dB(A)	53		55		55	
	Heating	Rated	dB(A)	54		56		56	
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 6.35 (1/4)		Ø 9.52 (3/8)		Ø 9.52 (3/8)	
	Gas	Outer Dia.	mm(inch)	Ø 12.7 (1/2)		Ø 15.88 (5/8)		Ø 15.88 (5/8)	
Piping Length		Max.	m (ft)	25 (82.0)		30 (98.4)		30 (98.4)	
Maximum Height Difference	Outdoor Unit - Indoor Unit	Max.	m (ft)	15 (49.2)		30 (98.4)		30 (98.4)	
Indoor				ATNW18GPLS1		ATNW24GPLS1		ATNW30GPLS1	
Panel Name				PT-UMC1		PT-UMC1		PT-UMC1	
Power Supply			V, Ø, Hz	220-240 , 1 , 50		220-240 , 1 , 50		220-240 , 1 , 50	
Dimensions	Body	W x H x D	mm	840 x 204 x 840		840 x 204 x 840		840 x 204 x 840	
Net Weight			kg (lbs)	21 (46.3)		21 (46.3)		21 (46.3)	
Air Flow Rate		H / M / L	m3/min	16.5 / 14.5 / 13.0		17.0 / 15.0 / 13.0		19.0 / 17.0 / 15.0	
Fan Motor	Type	-		BLDC		BLDC		BLDC	
Sound Pressure Level	Cooling	H / M / L	dB(A)	38 / 36 / 34		40 / 38 / 36		42 / 39 / 37	
	Heating	H / M / L	dB(A)	38 / 36 / 34		40 / 38 / 36		42 / 39 / 37	
Safety Devices			-	Fuse		Fuse		Fuse	

Notes

- Cooling¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

ATUW18GMLS1 / ATUW24GMLS1 / ATUW30GMLS1 / ATUW36GMLS1 / ATUW48GMLS1 / ATUW54GMLS1 / ATUW48LMLS2 / ATUW54LMLS2



HEAT PUMP

ATUW36GMLS1	ATUW48GMLS1	ATUW54GMLS1	ATUW48LMLS2	ATUW54LMLS2
ATNW36GMLS1	ATNW48GMLS1	ATNW54GMLS1	ATNW48LMLS2	ATNW54LMLS2
4.0 ~ 10.5 ~ 11.0	5.6 ~ 14.0 ~ 15.0	6.0 ~ 15.0 ~ 16.0	5.6 ~ 14.0 ~ 15.0	6.0 ~ 15.0 ~ 16.0
13,600 ~ 35,800 ~ 37,500	19,100 ~ 47,800 ~ 51,200	20,500 ~ 51,200 ~ 54,600	19,100 ~ 47,800 ~ 51,200	20,500 ~ 51,200 ~ 54,600
8.70	12.10	12.40	12.10	12.40
29,700	41,300	42,300	41,300	42,300
4.3 ~ 11.2 ~ 11.7	6.1 ~ 15.3 ~ 16.5	6.8 ~ 16.9 ~ 18.2	6.1 ~ 15.3 ~ 16.5	6.8 ~ 16.9 ~ 18.2
14,700 ~ 38,200 ~ 39,900	20,800 ~ 52,200 ~ 56,300	23,200 ~ 57,700 ~ 62,100	20,800 ~ 52,200 ~ 56,300	23,200 ~ 57,700 ~ 62,100
3.49	4.38	4.95	4.38	4.95
3.50	5.14	5.25	5.14	5.25
3.19	4.49	5.45	4.49	5.45
3.00 / 3.51	3.20 / 3.41	3.03 / 3.10	3.20 / 3.41	3.03 / 3.10
ATUW36GMLS1	ATUW48GMLS1	ATUW54GMLS1	ATUW48LMLS2	ATUW54LMLS2
220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50	380-415 , 3 , 50	380-415 , 3 , 50
3C x 2.5 (12)	3C x 6.0 (10)	3C x 6.0 (10)	5C x 2.5 (12)	5C x 2.5 (12)
Warm Gray	Warm Gray	Warm Gray	Warm Gray	Warm Gray
950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
58.0 (127.9)	90.0 (198.4)	90.0 (198.4)	90.0 (198.4)	90.0 (198.4)
Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
R410A	R410A	R410A	R410A	R410A
BLDC	BLDC	BLDC	BLDC	BLDC
56	55	55	55	55
58	57	57	57	57
Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
40 (131.2)	50 (164.0)	50 (164.0)	50 (164.0)	50 (164.0)
30 (98.4)	30 (98.4)	30 (98.4)	30 (98.4)	30 (98.4)
ATNW36GMLS1	ATNW48GMLS1	ATNW54GMLS1	ATNW48LMLS2	ATNW54LMLS2
PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50
840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
28 (61.7)	28 (61.7)	28 (61.7)	28 (61.7)	28 (61.7)
28.5 / 24.5 / 21.0	32.0 / 30.0 / 27.5	32.0 / 30.0 / 27.5	32.0 / 30.0 / 27.5	32.0 / 30.0 / 27.5
BLDC	BLDC	BLDC	BLDC	BLDC
48 / 46 / 44	52 / 51 / 48	52 / 51 / 48	52 / 51 / 48	52 / 51 / 48
48 / 46 / 44	52 / 51 / 48	52 / 51 / 48	52 / 51 / 48	52 / 51 / 48
Fuse	Fuse	Fuse	Fuse	Fuse

Notes

- Cooling¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

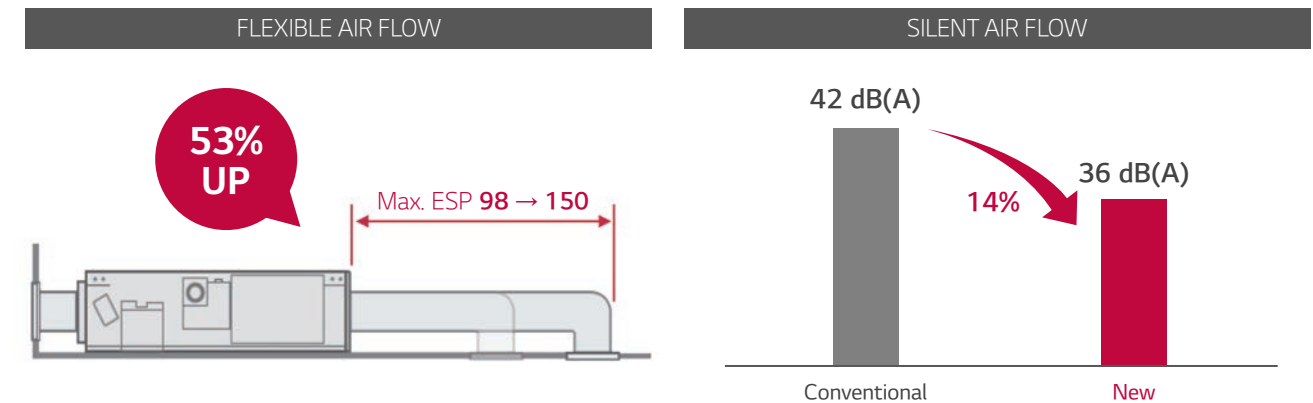
- Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

CEILING CONCEALED DUCT



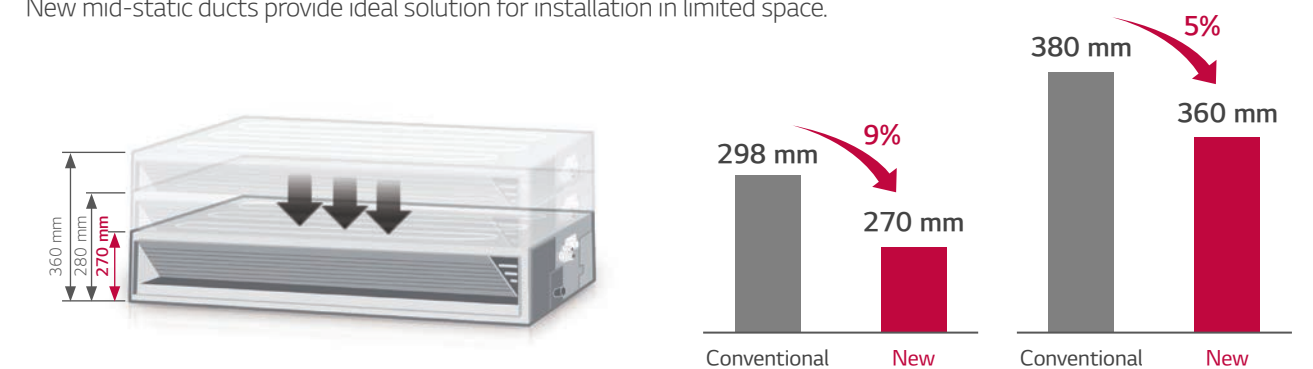
MAXIMIZED E.S.P. (EXTERNAL STATIC PRESSURE)

With new indoor tool, connectable duct length is more longer than current running unit due to the maximum E.S.P. is improved. Noise level also decreased about 12%



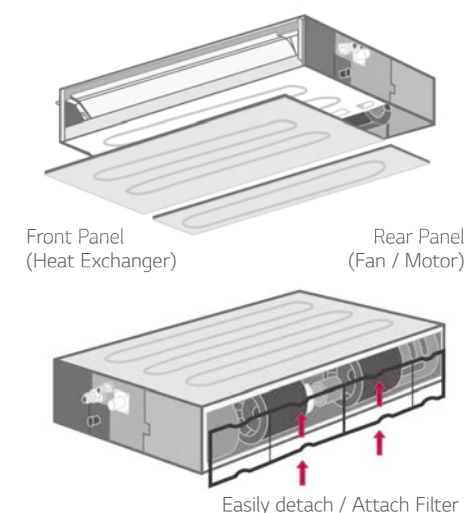
MINIMIZED HEIGHT

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



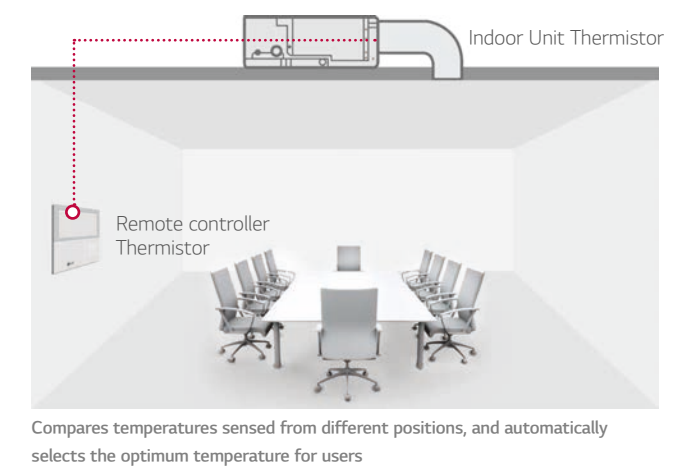
EASY SERVICE & MAINTENANCE

Users don't need to open whole panel for maintenance, since panel is divided into one for heat exchanger and one for fan/motor. Easily detach and attach the filter even in limited space.



TWO THERMISTORS CONTROL

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



SPECIFICATIONS

HIGH CEILING CONCEALED DUCT (INVERTER / 1 PHASE)



COOLING ONLY

Combination		Outdoor unit		Unit	ABUQ18GM1T1	ABUQ24GM1T1
		Indoor unit			ABNQ18GM1T1	ABNQ24GM1T1
Cooling Capacity ¹⁾		Min. ~ Rated ~ Max.	kW	2.1-5.27-5.86	2.81-7.03-7.91	
			Btu/h	7200-18000-20000	9600-24000-27000	
Cooling Capacity ²⁾		Min. ~ Rated ~ Max.	kW	4.53	5.86	
			Btu/h	15,480	20,000	
Power Input	Cooling ¹⁾	Rated	kW	1.55	2.06	
	Cooling ²⁾	Rated	kW	1.72	2.32	
EER / COP			W/W	3.4	3.41	
Outdoor			Unit	ABUQ18GM1T1	ABUQ24GM1T1	
Power Supply			V, Ø, Hz	220 - 240,1,50	220 - 240,1,50	
Power Supply Cable (included Earth)			No. × mm²	3C × 2.5	3C × 2.5	
Casing Color			-	Warm Gray	Warm Gray	
Dimensions	Net	W × H × D	mm	770 x 545 x 288	870 x 650 x 330	
Weight	Net		kg	34.3	43.3	
Compressor	Type		-	Twin Rotary	Twin Rotary	
Refrigerant	Type		-	R410A	R410A	
Fan Motor	Type		-	BLDC	BLDC	
Sound Pressure Level	Cooling	Rated	dB(A)	49	50	
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 6.35(1/4)	Ø 9.52(3/8)	
	Gas	Outer Dia.	mm (inch)	Ø 12.7(1/2)	Ø 15.88 (5/8)	
Piping Length		Rated	m	5	5	
		Max.	m	30	50	
Maximum Height Difference (ODU ~ IDU)		Max.	m	15	30	
Indoor			Unit	ABNQ18GM1T1	ABNQ24GM1T1	
Type			-	Ceiling Concealed Duct-Mid. Pressure		
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	
Dimensions	Net	W × H × D	mm	900 × 270 × 700	900 × 270 × 700	
Weight	Net		kg	23.8	25.3	
Air Flow Rate		H / M / L	m³/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5	
		Max	m³/min	23.8	23.8	
External static pressure	High Mode_Factory Set		Pa (mmAq)	6	6	
Fan Motor	Type		-	BLDC	BLDC	
Safety Device			-	Fuse	Fuse	
Sound Pressure Level		H / M / L	dB(A)	34 / 32 / 30	37 / 35 / 32	

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

ABUQ18GM1T1 / ABUQ24GM1T1 / ABUQ30GM1T1 / ABUQ36GM3T1 / ABUQ48GM3T1 / ABUQ54GM3T1



COOLING ONLY

ABUQ30GM1T1	ABUQ36GM3T1	ABUQ48GM3T1	ABUQ54GM3T1
ABNQ30GM1T1	ABNQ36GM3T1	ABNQ48GM3T1	ABNQ54GM3T1
3.36~8.2~9.96	4.7~9.99~11.13	5.392~13.48~15.53	6.328~15.82~16.7
11480~28000~34000	16030~34100~38000	18400~46000~53000	21600~54000~57000
7.05	8.49	11.59	12.66
24,080	28,980	39,560	43,200
2.41	2.93	3.96	5.39
2.74	3.24	4.27	5.07
3.4	3.41	3.4	2.94
ABUQ30GM1T1	ABUQ36GM3T1	ABUQ48GM3T1	ABUQ54GM3T1
220 - 240,1,50	220 - 240,1,50	220 - 240,1,50	220 - 240,1,50
3C × 2.5	3C × 2.5	3C × 6.0	3C × 6.0
Warm Gray	Warm Gray	Warm Gray	Warm Gray
950 x 834 x 330	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
59.1	59.1	89.5	89.5
Twin Rotary	Twin Rotary	LG Inverter Scroll	LG Inverter Scroll
R410A	R410A	R410A	R410A
BLDC	BLDC	BLDC	BLDC
51	51	55	55
Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
5	5	5	5
50	50	50	50
30	30	30	30
ABNQ30GM1T1	ABNQ36GM3T1	ABNQ48GM3T1	ABNQ54GM3T1
Ceiling Concealed Duct-Mid. Pressure			
220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50
900 x 270 x 700	1,250 x 360 x 700	1,250 × 360 × 700	1,250 × 360 × 700
25.3	37.5	43.5	43.5
22.0 / 20.0 / 18.0	30.0 / 25.0 / 20.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
25.9	41.0	58.8	58.8
6	6	6	6
BLDC	BLDC	BLDC	BLDC
Fuse	Fuse	Fuse	Fuse
37 / 35 / 34	36 / 33 / 31	38 / 36 / 34	46 / 44 / 42

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

SPECIFICATIONS

HIGH CEILING CONCEALED DUCT (INVERTER / 1 PHASE)



HEAT PUMP

Combination			Outdoor unit		Unit	ABUW18GM1T1	ABUW24GM1T1
			Indoor unit			ABNW18GM1T1	ABNW24GM1T1
Cooling Capacity ¹⁾			Min. ~ Rated ~ Max.	kW	2.1-5.27-5.86	2.81-7.03-7.91	
				Btu/h	7200~18000~20000	9600~24000~27000	
Cooling Capacity ²⁾			Min. ~ Rated ~ Max.	kW	4.53	5.86	
				Btu/h	15480	20000	
Heating Capacity ¹⁾			Min. ~ Rated ~ Max.	kW	2.1-5.27-6.1	2.8-7.03-8.2	
				Btu/h	7200~18000~21000	9600~24000~28000	
Power Input	Cooling ¹⁾	Rated	kW	1.55	2.06		
	Cooling ²⁾	Rated	kW	1.72	2.32		
	Heating ¹⁾	Rated	kW	1.50	2.05		
EER / COP				W/W	3.4/3.51	3.41/3.43	
Outdoor				Unit	ABUW18GM1T1	ABUW24GM1T1	
Power Supply				V , Ø , Hz	220 - 240,1,50	220 - 240,1,50	
Power Supply Cable (included Earth)				No. × mm²	3C × 2.5	3C × 2.5	
Casing Color				-	Warm Gray	Warm Gray	
Dimensions	Net	W × H × D	mm	770 x 545 x 288	870 x 650 x 330		
Weight	Net		kg	35.2	45.5		
Compressor	Type		-	Twin Rotary	Twin Rotary		
Refrigerant	Type		-	R410A	R410A		
Fan	Air Flow Rate	Rated	m³/min × No.	28 × 1	50 × 1		
Fan Motor	Type		-	BLDC	BLDC		
Sound Pressure Level	Cooling	Rated	dB(A)	49	50		
	Heating	Rated	dB(A)	52	52		
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 6.35(1/4)	Ø 9.52(3/8)		
	Gas	Outer Dia.	mm (inch)	Ø 12.7(1/2)	Ø 15.88 (5/8)		
Piping Length		Rated	m	5	5		
		Max.	m	30	50		
Maximum Height Difference (ODU ~ IDU)		Max.	m	15	30		
Indoor				Unit	ABNW18GM1T1	ABNW24GM1T1	
Type				-	Ceiling Concealed Duct-Mid. Pressure		
Power Supply				V , Ø , Hz	220-240 , 1 , 50	220-240 , 1 , 50	
Dimensions	Net	W × H × D	mm	900 × 270 × 700	900 × 270 × 700		
Weight	Net		kg	23.8	25.3		
Air Flow Rate		H / M / L	m³/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5		
		Max	m³/min	23.8	23.8		
Fan Motor	Type		-	6	6		
External static pressure	High Mode_Factory Set		Pa (mmAq)	BLDC	BLDC		
Safety Device			-	Fuse	Fuse		
Sound Pressure Level		H / M / L	dB(A)	34 / 32 / 30	37 / 35 / 32		

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

ABUW18GM1T1 / ABUW24GM1T1 / ABUW30GM1T1 / ABUW36GM3T1 / ABUW48GM3T1 / ABUW54GM3T1



HEAT PUMP

ABUW30GM1T1	ABUW36GM3T1	ABUW48GM3T1	ABUW54GM3T1
ABNW30GM1T1	ABNW36GM3T1	ABNW48GM3T1	ABNW54GM3T1
3.36~8.2~9.96	4.7~9.99~11.13	5.39~13.48~15.53	6.33~15.82~16.7
11480~28000~34000	16030~34100~38000	18400~46000~53000	21600~54000~57000
7.05	8.49	11.59	12.66
24080	28980	39560	43200
3.28~8.2~9.09	3.75~9.38~10.26	5.62~14.06~15.8	6.56~16.41~17.6
11200~28000~31000	12800~32000~35000	19200~48000~54000	22400~56000~60000
2.41	2.93	3.96	5.39
2.74	3.24	4.27	5.07
2.55	2.46	4.00	4.61
3.4/3.22	3.41/3.81	3.4/3.52	2.94/3.56
ABUW30GM1T1	ABUW36GM3T1	ABUW48GM3T1	ABUW54GM3T1
220 - 240,1,50	220 - 240,1,50	220 - 240,1,50	220 - 240,1,50
3C × 2.5	3C × 2.5	3C × 6.0	3C × 6.0
Warm Gray	Warm Gray	Warm Gray	Warm Gray
950 × 834 × 330	950 × 834 × 330	950 × 1,380 × 330	950 × 1,380 × 330
60.8	60.8	90.2	90.2
Twin Rotary	Twin Rotary	LG Inverter Scroll	LG Inverter Scroll
R410A	R410A	R410A	R410A
60 × 1	60 × 1	60 × 2	60 × 2
BLDC	BLDC	BLDC	BLDC
51	51	55	55
53	53	57	57
Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
5	5	5	5
50	50	50	50
30	30	30	30
ABNW30GM1T1	ABNW36GM3T1	ABNW48GM3T1	ABNW54GM3T1
Ceiling Concealed Duct-Mid. Pressure			
220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50
900 × 270 × 700	1,250 × 360 × 700	1,250 × 360 × 700	1,250 × 360 × 700
25.3	37.5	43.5	43.5
22.0 / 20.0 / 18.0	30.0 / 25.0 / 20.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
25.9	41.0	58.8	58.8
6	6	6	6
BLDC	BLDC	BLDC	BLDC
Fuse	Fuse	Fuse	Fuse
37 / 35 / 34	36 / 33 / 31	38 / 36 / 34	46 / 44 / 42

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

SPECIFICATIONS

STANDARD CEILING CONCEALED DUCT



HEAT PUMP

Combination	Outdoor unit		Unit	ABUW18GM1S1	ABUW24GM1S1	ABUW30GM1S1
	Indoor unit			ABNW18GM1S1	ABNW24GM1S1	ABNW30GM1S1
Capacity	Cooling ¹⁾	Min. ~ Rated ~ Max.	kW	1.8 ~ 5.2 ~ 5.5	2.8 ~ 7.0 ~ 8.1	3.0 ~ 7.8 ~ 8.5
		Min. ~ Rated ~ Max.	Btu/h	6,100 ~ 17,700 ~ 18,800	9,600 ~ 23,900 ~ 27,600	10,200 ~ 26,600 ~ 29,000
	Cooling ²⁾	Rated	kW	4.20	5.75	6.50
		Rated	Btu/h	14,300	19,600	22,200
	Heating	Min. ~ Rated ~ Max.	kW	1.9 ~ 5.3 ~ 6.1	3.0 ~ 7.6 ~ 8.7	3.2 ~ 8.0 ~ 9.0
		Min. ~ Rated ~ Max.	Btu/h	6,500 ~ 18,100 ~ 20,800	10,200 ~ 25,900 ~ 29,700	10,900 ~ 28,700 ~ 30,700
Power Input	Cooling ¹⁾	Rated	kW	1.70	2.33	2.59
	Cooling ²⁾	Rated	kW	1.75	2.65	3.15
	Heating ¹⁾	Rated	kW	1.65	2.30	2.65
EER / COP	Cooling ¹⁾ / Heating		W/W	3.06 / 3.21	3.01 / 3.30	3.01 / 3.01
Outdoor			Unit	ABUW18GM1S1	ABUW24GM1S1	ABUW30GM1S1
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Power Supply Cable (included Earth)			No. x mm²	3C x 2.5 (12)	3C x 2.5 (12)	3C x 2.5 (12)
Casing Color			-	Warm Gray	Warm Gray	Warm Gray
Dimensions	Net	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	870 x 650 x 330
Net Weight			kg	35.5 (78.3)	44.8 (98.8)	44.8 (98.8)
Compressor	Type		-	Twin Rotary	Twin Rotary	Twin Rotary
Refrigerant	Type		-	R410A	R410A	R410A
Fan	Air Flow Rate	Rated	m3/min x No.	28 x 1	50 x 1	50 x 1
Fan Motor	Type		-	BLDC	BLDC	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	53	55	55
	Heating	Rated	dB(A)	54	56	56
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
Piping Length	Max.		m	25 (82.0)	30 (98.4)	30 (98.4)
Maximum Height Difference (ODU ~ IDU)	Max.		m	15 (49.2)	30 (98.4)	30 (98.4)
Indoor			Unit	ABNW18GM1S1	ABNW24GM1S1	ABNW30GM1S1
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Dimensions	Net	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
Net Weight			kg	23.8 (52.5)	24.2 (53.4)	25.3 (55.8)
Fan	Air Flow Rate	H / M / L	m³/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5	22.0 / 20.0 / 18.0
Fan Motor	Type		-	BLDC	BLDC	BLDC
External static pressure	High Mode_Factory Set		-	58.8 (6)	58.8 (6)	58.8 (6)
Sound Pressure Level	Cooling	Rated	dB(A)	36 / 34 / 32	37 / 36 / 34	39 / 37 / 36
	Heating	Rated	dB(A)	36 / 34 / 32	37 / 36 / 34	39 / 37 / 36

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

ABUW18GM1S1 / ABUW24GM1S1 / ABUW30GM1S1 / ABUW36GM2S1 / ABUW48GM3S1 /
ABUW54GM3S1 / ABUW50LM3S1 / ABUW60LM3S1



HEAT PUMP

ABUW36GM2S1	ABUW48GM3S1	ABUW54GM3S1	ABUW50LM3S1	ABUW60LM3S1
ABNW36GM2S1	ABNW48GM3S1	ABNW54GM3S1	ABNW50LM3S1	ABNW60LM3S1
3.6 ~ 9.5 ~ 10.5	5.6 ~ 14.1 ~ 15.1	6.3 ~ 15.6 ~ 16.8	5.6 ~ 14.1 ~ 15.1	6.3 ~ 15.8 ~ 16.8
12,300 ~ 32,400 ~ 35,800	19,100 ~ 48,100 ~ 51,500	21,500 ~ 53,200 ~ 57,300	19,100 ~ 48,100 ~ 51,500	21,500 ~ 53,900 ~ 57,300
7.80	12.00	13.40	12.00	13.40
26,600	40,900	45,700	40,900	45,700
4.0 ~ 10.5 ~ 11.5	6.3 ~ 15.8 ~ 16.8	6.8 ~ 17 ~ 18.2	6.3 ~ 15.8 ~ 16.8	6.8 ~ 17 ~ 18.2
13,600 ~ 35,800 ~ 39,200	21,500 ~ 53,900 ~ 57,300	23,200 ~ 58,000 ~ 62,100	21,500 ~ 53,900 ~ 57,300	23,200 ~ 58,000 ~ 62,100
3155.00	4390.00	5190.00	4390.00	5210.00
3160.00	4850.00	5690.00	4850.00	5690.00
3080.00	4630.00	4860.00	4630.00	4860.00
3.01 / 3.41	3.21 / 3.41	3.01 / 3.50	3.21 / 3.41	3.03 / 3.50
ABUW36GM2S1	ABUW48GM3S1	ABUW54GM3S1	ABUW50LM3S1	ABUW60LM3S1
220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	380-415, 3, 50	380-415, 3, 50
3C × 2.5 (12)	3C × 6.0 (10)	3C × 6.0 (10)	5C × 2.5 (12)	5C × 2.5 (12)
Warm Gray	Warm Gray	Warm Gray	Warm Gray	Warm Gray
950 × 834 × 330	950 × 1,380 × 330	950 × 1,380 × 330	950 × 1,380 × 330	950 × 1,380 × 330
58.0 (127.9)	90.0 (198.4)	90.0 (198.4)	90.0 (198.4)	90.0 (198.4)
Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
R410A	R410A	R410A	R410A	R410A
58 × 1	58 × 2	58 × 2	58 × 2	58 × 2
BLDC	BLDC	BLDC	BLDC	BLDC
56	55	55	55	55
58	57	57	57	57
Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
40 (131.2)	50 (164.0)	50 (164.0)	50 (164.0)	50 (164.0)
30 (98.4)	30 (98.4)	30 (98.4)	30 (98.4)	30 (98.4)
ABNW36GM2S1	ABNW48GM3S1	ABNW54GM3S1	ABNW50LM3S1	ABNW60LM3S1
220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
1,250 × 270 × 700	1,250 × 360 × 700	1,250 × 360 × 700	1,250 × 360 × 700	1,250 × 360 × 700
36.0 (79.4)	42.3 (93.3)	42.3 (93.3)	42.3 (93.3)	42.3 (93.3)
32.0 / 28.0 / 24.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
BLDC	BLDC	BLDC	BLDC	BLDC
58.8 (6)	58.8 (6)	58.8 (6)	58.8 (6)	58.8 (6)
38 / 36 / 35	41 / 39 / 37	44 / 42 / 41	41 / 39 / 37	44 / 42 / 41
38 / 36 / 35	41 / 39 / 37	44 / 42 / 41	41 / 39 / 37	44 / 42 / 41

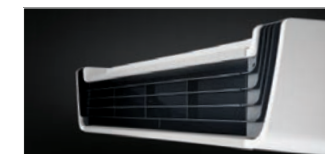
Notes
- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB
- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB
- Heating Temperature : Indoor 20°C (68°F)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

CEILING SUSPENDED UNIT



IF WINNING DESIGN

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



Black Vane



V-Shaped Design

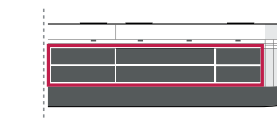
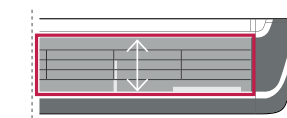
LARGE CAPACITY

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

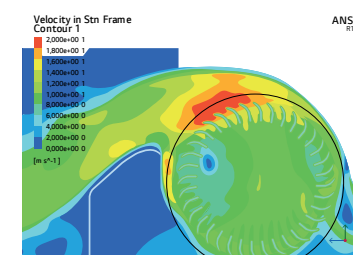


New LG

Conventional



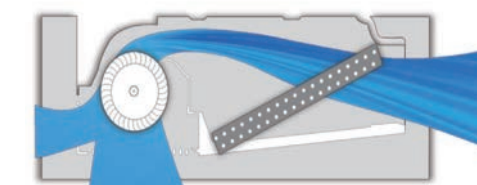
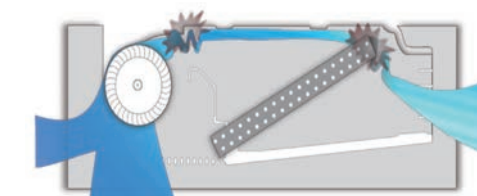
115% ENLARGED



115% ENLARGED

15M LONG AIR FLOW

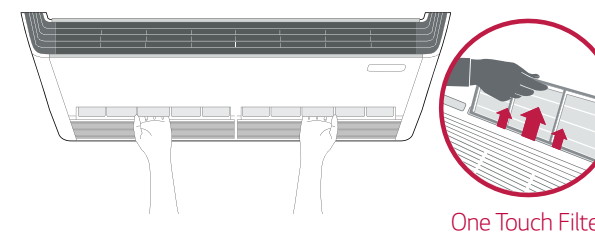
When operating at 15kW, LG's new air conditioner's technology minimizes air flow resistance by 20%, increasing cool air coverage to 15 meters.



Air flow Resistance **20% Decrease**
Air flow Distance **15M**

ONE TOUCH FILTER CHANGING

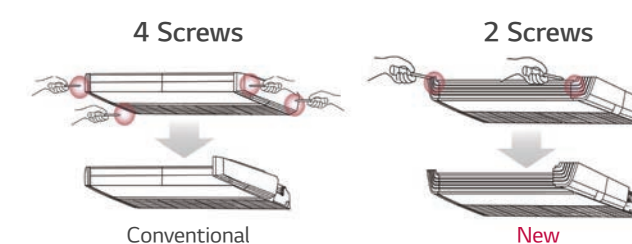
An easy in/out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.



One Touch Filter

EASY INSTALLATION

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



Conventional

New

SPECIFICATIONS

HIGH CEILING SUSPENDED UNIT (INVERTER / 1 PHASE)



COOLING ONLY

Combination			Outdoor unit	Unit	AVUQ18GM1T1	AVUQ24GM1T1
			Indoor unit		AVNQ18GM1T1	AVNQ24GM1T1
Cooling Capacity ¹⁾		Min. ~ Rated ~ Max.		kW	2.1~5.27~5.86	2.81~7.03~7.91
				Btu/h	7200~18000~20000	9600~24000~27000
Cooling Capacity ²⁾		Min. ~ Rated ~ Max.		kW	4.37	6.04
				Btu/h	14,900	20,610
Power Input	Cooling ¹⁾	Rated		kW	1.55	2.06
	Cooling ²⁾	Rated		kW	1.73	2.38
EER / COP				W/W	3.4	3.41
Outdoor				Unit	AVUQ18GM1T1	AVUQ24GM1T1
Power Supply				V , Ø , Hz	220 - 240,1,50	220 - 240,1,50
Power Supply Cable (included Earth)				No. × mm ²	3C × 2.5	3C × 2.5
Dimensions	Net	W × H × D		mm	34.3	43.3
Weight	Net			kg	Twin Rotary	Twin Rotary
Compressor	Type			-	R410A	R410A
Refrigerant	Type			-	28 × 1	50 × 1
Fan	Air Flow Rate	Rated		m ³ /min × No.	989 × 1	1,766 × 1
		Rated		ft ³ /min × No.	BLDC	BLDC
Fan Motor	Type			-	49	50
Sound Pressure Level	Cooling	Rated		dB(A)		
	Heating	Rated		dB(A)	Ø 6.35(1/4)	Ø 9.52(3/8)
Piping Connections	Liquid	Outer Dia.		mm (inch)	Ø 12.7(1/2)	Ø 15.88 (5/8)
	Gas	Outer Dia.		mm (inch)	5	5
Piping Length		Rated		m	30	50
		Max.		m	15	30
Maximum Height Difference (ODU ~ IDU)		Max.		m	15	30
Indoor				Unit	AVNQ18GM1T1	AVNQ24GM1T1
Type				-	Ceiling Suspended Unit	
Power Supply				V , Ø , Hz	220-240 , 1 , 50	220-240 , 1 , 50
Dimensions	Net	W × H × D		mm	1,200 × 235 × 690	1,200 × 235 × 690
Weight	Net			kg	27.3	28.0
Air Flow Rate		H / M / L		m ³ /min	13.0 / 12.0 / 11.0	16.5 / 15.0 / 14.0
Fan Motor	Type			-	BLDC	BLDC
Sound Pressure Level		H / M / L		dB(A)	40 / 38 / 37	44 / 43 / 41

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

AVUQ18GM1T1 / AVUQ24GM1T1 / AVUQ30GM1T1 / AVUQ36GM2T1 / AVUQ48GM2T1 / AVUQ54GM2T1



COOLING ONLY

AVUQ30GM1T1	AVUQ36GM2T1	AVUQ48GM2T1	AVUQ54GM2T1
AVNQ30GM1T1	AVNQ36GM2T1	AVNQ48GM2T1	AVNQ54GM2T1
3.36~8.2~10.26	4.46~9.49~11.13	5.392~13.48~15.53	6.328~15.82~16.7
11480~28000~35000	15230~32400~38000	18400~46000~53000	21600~54000~57000
7.05	8.16	10.51	12.66
24,080	27,860	35,880	43,200
2.41	2.79	3.96	5.39
2.85	3.23	4.10	5.00
3.4	3.4	3.4	2.94
AVUQ30GM1T1	AVUQ36GM2T1	AVUQ48GM2T1	AVUQ54GM2T1
220 - 240,1,50	220 - 240,1,50	220 - 240,1,50	220 - 240,1,50
3C × 2.5	3C × 2.5	3C × 6.0	3C × 6.0
950 x 834 x 330	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
59.1	59.1	89.5	89.5
Twin Rotary	Twin Rotary	LG Inverter Scroll	LG Inverter Scroll
R410A	R410A	R410A	R410A
60 × 1	60 × 1	60 × 2	60 × 2
2,119 × 1	2,119 × 1	2,119 × 2	2,119 × 2
BLDC	BLDC	BLDC	BLDC
51	51	55	55
Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
5	5	5	5
50	50	50	50
30	30	30	30
AVNQ30GM1T1	AVNQ36GM2T1	AVNQ48GM2T1	AVNQ54GM2T1
Ceiling Suspended Unit			
220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50	220-240 , 1 , 50
1,200 × 235 × 690	1,600 × 235 × 690	1,600 × 235 × 690	1,600 × 235 × 690
28.0	36.5	36.5	36.5
20.0 / 18.0 / 16.0	28.0 / 24.0 / 20.0	30.0 / 25.0 / 20.0	30.0 / 25.0 / 20.0
BLDC	BLDC	BLDC	BLDC
47 / 45 / 42	44 / 41 / 38	46 / 42 / 38	46 / 42 / 38

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

SPECIFICATIONS

HIGH CEILING SUSPENDED UNIT (INVERTER / 1 PHASE)



HEAT PUMP

Combination			Outdoor unit	Unit	AVUW18GM1T1	AVUW24GM1T1
			Indoor unit		AVNW18GM1T1	AVNW24GM1T1
Cooling Capacity ¹⁾			Min. ~ Rated ~ Max.	kW	2.1~5.27~5.86	2.81~7.03~7.91
				Btu/h	7200~18000~20000	9600~24000~27000
Cooling Capacity ²⁾			Min. ~ Rated ~ Max.	kW	4.37	6.04
				Btu/h	14900	20610
Heating Capacity ¹⁾			Min. ~ Rated ~ Max.	kW	2.22~5.56~6.1	2.8~7.03~8.2
				Btu/h	7600~19000~21000	9600~24000~28000
Power Input	Cooling ¹⁾	Rated		kW	1.55	2.06
	Cooling ²⁾	Rated		kW	1.73	2.38
	Heating ¹⁾	Rated		kW	1.62	2.05
EER / COP				W/W	3.4/3.43	3.41/3.43
Outdoor				Unit	ATUW18GPLT1 / ABUW18GM1T1 / AVUW18GM1T1	ATUW24GPLT1 / ABUW24GM1T1 / AVUW24GM1T1
Power Supply				V , Ø , Hz	220 - 240,1,50	220 - 240,1,50
Power Supply Cable (included Earth)				No. × mm²	3C × 2.5	3C × 2.5
Dimensions	Net	W × H × D		mm	770 x 545 x 288	870 x 650 x 330
Weight	Net			kg	35.2	45.5
Compressor	Type			-	Twin Rotary	Twin Rotary
Refrigerant	Type			-	R410A	R410A
Fan Motor	Type			-	BLDC	BLDC
Sound Pressure Level	Cooling	Rated		dB(A)	49	50
	Heating	Rated		dB(A)	52	52
Piping Connections	Liquid	Outer Dia.		mm (inch)	Ø 6.35(1/4)	Ø 9.52(3/8)
	Gas	Outer Dia.		mm (inch)	Ø 12.7(1/2)	Ø 15.88 (5/8)
Piping Length		Rated		m	5	5
		Max.		m	30	50
Maximum Height Difference (ODU ~ IDU)		Max.		m	15	30
Indoor				Unit	ABNW18GM1T1	ABNW24GM1T1
Type				-	Ceiling Suspended Unit	
Power Supply				V , Ø , Hz	220~240 , 1 , 50	220~240 , 1 , 50
Dimensions	Net	W × H × D		mm	1,200 × 235 × 690	1,200 × 235 × 690
Weight	Net			kg	27.3	28.0
Air Flow Rate		H / M / L		m³/min	13.0 / 12.0 / 11.0	16.5 / 15.0 / 14.0
Fan Motor	Type			-	BLDC	BLDC
Sound Pressure Level		H / M / L		dB(A)	40 / 38 / 37	44 / 43 / 41

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

AVUQ18GM1T1 / AVUQ24GM1T1 / AVUQ30GM1T1 / AVUQ36GM2T1 / AVUQ48GM2T1 / AVUQ54GM2T1



HEAT PUMP

AVUW30GM1T1	AVUW36GM2T1	AVUW48GM2T1	AVUW54GM2T1
AVNW30GM1T1	AVNW36GM2T1	AVNW48GM2T1	AVNW54GM2T1
3.36~8.2~10.26	4.46~9.49~11.13	5.39~13.48~15.53	6.33~15.82~16.7
11480~28000~35000	15230~32400~38000	18400~46000~53000	21600~54000~57000
7.05	8.16	10.51	12.66
24080	27860	35880	43200
3.28~8.2~9.09	3.8~9.49~10.84	5.62~14.06~15.8	6.56~16.41~17.6
11200~28000~31000	12960~32400~37000	19200~48000~54000	22400~56000~60000
2.41	2.79	3.96	5.39
2.85	3.23	4.10	5.00
2.33	2.70	4.00	5.09
3.4/3.52	3.4/3.51	3.4/3.52	2.94/3.22
ATUW30GPLT1 / ABUW30GM1T1 / AVUW30GM1T1	ATUW36GNLT1 / ABUW36GM3T1 / AVUW36GM2T1	ATUW48GMLT1 / ABUW48GM3T1 / AVUW48GM2T1	ATUW54GMLT1 / ABUW54GM3T1 / AVUW54GM2T1
220 - 240,1,50	220 - 240,1,50	220 - 240,1,50	220 - 240,1,50
3C × 2.5	3C × 2.5	3C × 6.0	3C × 6.0
950 x 834 x 330	950 x 834 x 330	950 x 1,380 x 330	950 x 1,380 x 330
60.8	60.8	90.2	90.2
Twin Rotary	Twin Rotary	LG Inverter Scroll	LG Inverter Scroll
R410A	R410A	R410A	R410A
BLDC	BLDC	BLDC	BLDC
51	51	55	55
53	53	57	57
Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
5	5	5	5
50	50	50	50
30	30	30	30
AVNW30GM1T1	AVNW36GM2T1	AVNW48GM2T1	AVNW54GM2T1
Ceiling Suspended Unit			
220~240 , 1 , 50	220~240 , 1 , 50	220~240 , 1 , 50	220~240 , 1 , 50
1,200 × 235 × 690	1,600 × 235 × 690	1,600 × 235 × 690	1,600 × 235 × 690
28.0	36.5	36.5	36.5
20.0 / 18.0 / 16.0	28.0 / 24.0 / 20.0	30.0 / 25.0 / 20.0	30.0 / 25.0 / 20.0
BLDC	BLDC	BLDC	BLDC
47 / 45 / 42	44 / 41 / 38	46 / 42 / 38	46 / 42 / 38

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

FLOOR STANDING UNIT

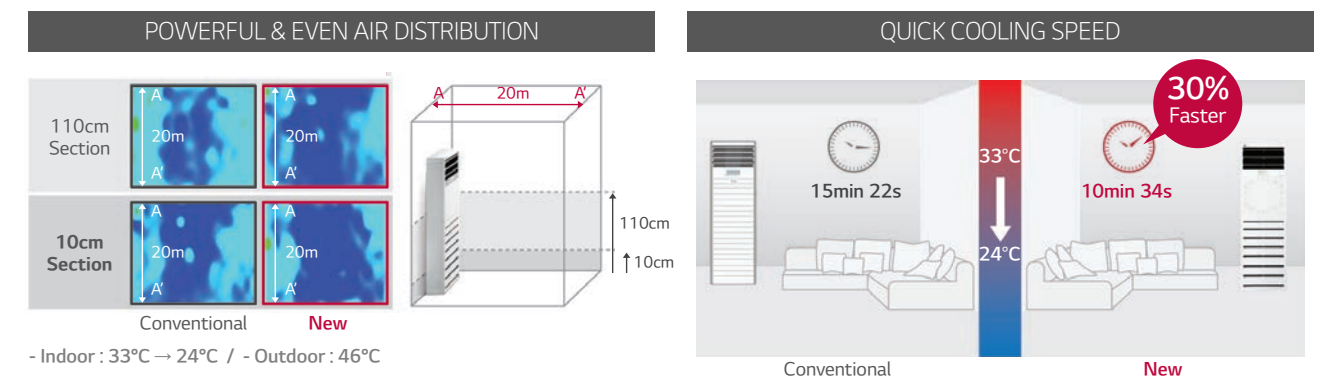
STYLISH DESIGN

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



EXCELLENT COOLING PERFORMANCE

Power cooling function provides the optimal airflow angle, guaranteeing a faster and higher cooling performance



POWERFUL AIRFLOW

Power Cooling function provides the optimal airflow angle, guaranteeing a faster and higher cooling performance.



SPECIFICATIONS

HIGH FLOOR STANDING UNIT



HEAT PUMP

Combination	Outdoor unit		Unit	APUW36GT3S1
	Indoor unit			APNW36GT3S1
Capacity	Cooling	Min. ~ Rated ~ Max. @T1	kW	3.8 ~ 10.1 ~ 10.6
		Min. ~ Rated ~ Max. @T1	Btu/h	13,000 ~ 34,500 ~ 36,200
		Rated @T3	kW	8.1
		Rated @T3	Btu/h	27,600
	Heating	Min. ~ Rated ~ Max.	kW	4.1 ~ 10.8 ~ 11.5
		Min. ~ Rated ~ Max.	Btu/h	14,000 ~ 36,800 ~ 39,200
Power Input	Cooling	Rated @T1	kW	3.34
		Rated @T3	kW	3.27
	Heating	Rated	kW	3.17
EER / COP			W/W	3.03 / 3.41
Piping Connections	Liquid Side		mm (inch)	9.52 (3/8)
	Gas Side		mm (inch)	15.88 (5/8)
	Drain Pipe	O.D. / I.D.	mm	21 / 17
Outdoor				APUW36GT3S1
Compressor			V , Ø , Hz	LG Twin Rotary Inverter
Power Supply			V , Ø , Hz	220-240 , 1 , 50
Wiring Connections			No. × mm ² (AWG)	3C × 2.5 (12)
Running Current	Cooling	Rated	A	14.5
	Heating	Rated	A	13.8
Dimensions		W × H × D	mm	950 × 834 × 330
Weight		Body	kg (lbs)	58.0 (127.9)
Refrigerant	Type		-	R410A
Fan	Motor Type		-	BLDC
	Air Flow Rate		m ³ /min × No.	58 × 1
Fan Motor	Type			BLDC
	Output		W × No.	124.2 × 1
Sound Pressure Level	Cooling	Rated	dB (A)	56
	Heating	Rated	dB (A)	58
Piping Length		Max.	m (ft)	40 (131.2)
Maximum Height Difference (ODU ~ IDU)		Max.	m (ft)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°CDB (°FDB)	-10 ~ 54
Indoor				APNW36GT3S1
Power Supply			V , Ø , Hz	220-240 , 1 , 50
Dimensions		W × H × D	mm	590 × 1,840 × 440
Weight		Body	kg (lbs)	47 (103.6)
Fan	Air Flow Rate	SH / H / M / L	m ³ /min	37.0 / 33.0 / 30.0 / 26.0
	Motor Type			BLDC
Sound Pressure Level	Cooling	SH / H / M / L	dB(A)	55 / 52 / 49 / 47
	Heating	SH / H / M / L	dB(A)	55 / 52 / 49 / 47
Safety Device			m (ft)	Fuse
Power and Communication Cable (included Earth)			No. × mm ² (AWG)	4C × 0.75 (18)

Notes

- Cooling : 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

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

APUW36GT3S1 / APUW50GT3E0 / APUW50LT3E0



APUW50GT3E0	APUW50LT3E0
APNW50GT3E0	APNW50LT3E0
5.6-13.5 ~15.5	5.6-13.5 ~15.5
19,100 ~46,100 ~52,900	19,100 ~46,100 ~52,900
11.7	11.7
40,000	40,000
6.2-14.65-16.7	6.2-14.65-16.7
21,200-50,000 ~57,000	21,200-50,000 ~57,000
3.88	3.88
4.65	4.65
4.15	4.15
3.48 / 3.53	3.48 / 3.53
Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 19.05 (3/4)	Ø 19.05 (3/4)
Ø 21 / 17	Ø 21 / 17
APUW50GT3E0	APUW50LT3E0
LG Twin Rotary Inverter	LG Twin Rotary Inverter
220-240, 1, 50	380-415, 3, 50
3C x 6.0 (10)	5C x 2.5 (12)
17.0	6.0
18.2	6.4
950 x 1,380 x 330	950 x 1,380 x 330
93.5 (206.1)	93.5 (206.1)
R410A	R410A
BLDC	BLDC
120 x 2	120 x 2
BLDC	BLDC
124.2 x 2	124.2 x 2
62	62
62	62
30 (98.4)	30 (98.4)
20 (65.6)	20 (65.6)
-10 ~ 54	-10 ~ 54
APNW50GT3E0	APNW50LT3E0
220-240, 1, 50	220-240, 1, 50
590 x 1,840 x 440	590 x 1,840 x 440
47 (103.6)	47 (103.6)
38.0 / 33.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0 / 24.0
BLDC	BLDC
55 / 52 / 49 / 47	55 / 52 / 49 / 47
54 / 51 / 49 / 47	54 / 51 / 49 / 47
Fuse	Fuse
4C x 0.75 (18)	4C x 0.75 (18)

SPECIFICATIONS

STANDARD FLOOR STANDING



HEAT PUMP

Combination	Outdoor unit		Unit	APUW36GT3S1
	Indoor unit			APNW36GT3S1
Capacity	Cooling ¹⁾	Min. ~ Rated ~ Max.	kW	3.8 ~ 10.0 ~ 10.6
		Min. ~ Rated ~ Max.	Btu/h	13,000 ~ 34,100 ~ 36,200
	Cooling ²⁾	Rated	kW	8.10
		Rated	Btu/h	27,600
	Heating	Min. ~ Rated ~ Max.	kW	4.1 ~ 10.8 ~ 11.5
		Min. ~ Rated ~ Max.	Btu/h	14,000 ~ 36,800 ~ 39,200
Power Input	Cooling ¹⁾	Rated	kW	3.32
	Cooling ²⁾	Rated	kW	3.27
	Heating ¹⁾	Rated	kW	3.17
EER / COP	Cooling ¹⁾ / Heating		W/W	3.01 / 3.41
Outdoor			Unit	APUW36GT3S1
Power Supply			V , Ø , Hz	220-240 , 1 , 50
Power Supply Cable (included Earth)			No. × mm²	3C × 2.5 (12)
Casing Color			-	Warm Gray
Dimensions	Net	W × H × D	mm	950 × 834 × 330
Net Weight		Body	kg	58.0 (127.9)
Compressor	Type		-	Twin Rotary
Refrigerant	Type		-	R410A
Fan Motor	Type		-	BLDC
Sound Pressure Level	Cooling	Rated	dB(A)	56
	Heating	Rated	dB(A)	58
Piping Connections	Liquid	Outer Dia.	mm (inch)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm (inch)	Ø 15.88 (5/8)
Piping Length		Max.	m	40 (131.2)
Maximum Height Difference (ODU ~ IDU)		Max.	m	30 (98.4)
Indoor			Unit	APNW36GT3S1
Power Supply			V , Ø , Hz	220-240 , 1 , 50
				220 , 1 , 60
Dimensions	Body	W × H × D	mm	590 × 1,840 × 440
		W × H × D	inch	23-7/32 x 72-7/16 x 18-1/8
Net Weight			kg (lbs)	47 (103.6)
Fan	Air Flow Rate	SH / H / M / L	m³/min	37.0 / 33.0 / 30.0 / 26.0
Fan Motor	Type		-	BLDC
Sound Pressure Level	Cooling	SH / H / M / L	dB(A)	55 / 52 / 49 / 47
	Heating	SH / H / M / L	dB(A)	55 / 52 / 49 / 47

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

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

APUW36GT3S1 / APUW48GT3S1 / APUW48LT3S1



APUW48GT3S1	APUW48LT3S1
APNW48GT3S1	APNW48LT3S1
5.6 ~ 14.1 ~ 15.5	5.6 ~ 14.1 ~ 15.5
19,100 ~ 48,100 ~ 52,900	19,100 ~ 48,100 ~ 52,900
12.20	12.20
41,600	41,600
6.2 ~ 15.5 ~ 16.5	6.2 ~ 15.5 ~ 16.5
21,200 ~ 52,900 ~ 56,300	21,200 ~ 52,900 ~ 56,300
4650.00	4650.00
5100.00	5100.00
4550.00	4550.00
3.03 / 3.41	3.03 / 3.41
APUW48GT3S1	APUW48LT3S1
220-240 , 1 , 50	220-240 , 1 , 50
3C × 6.0 (10)	3C × 6.0 (10)
Warm Gray	Warm Gray
950 × 1,380 × 330	950 × 1,380 × 330
90.0 (198.4)	90.0 (198.4)
Twin Rotary	Twin Rotary
R410A	R410A
BLDC	BLDC
55	55
57	57
Ø 9.52 (3/8)	Ø 9.52 (3/8)
Ø 19.05 (3/4)	Ø 19.05 (3/4)
50 (164.0)	50 (164.0)
30 (98.4)	30 (98.4)
APNW48GT3S1	APNW48LT3S1
220-240 , 1 , 50	220-240 , 1 , 50
220 , 1 , 60	220 , 1 , 60
590 × 1,840 × 440	590 × 1,840 × 440
23-7/32 x 72-7/16 x 18-1/8	23-7/32 x 72-7/16 x 18-1/8
47 (103.6)	47 (103.6)
38.0 / 33.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0 / 24.0
BLDC	BLDC
55 / 52 / 49 / 47	55 / 52 / 49 / 47
55 / 52 / 49 / 47	55 / 52 / 49 / 47

Notes

- Cooling ¹⁾ : Indoor Temperature 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 35°C (95°F) DB / 24°C (75.2°F) WB

- Cooling ²⁾ : Indoor Temperature 29°C (84.2°F) DB / 19°C (66.2°F) WB, Outdoor Temperature 46°C (114.8°F) DB / 24°C (75.2°F) WB

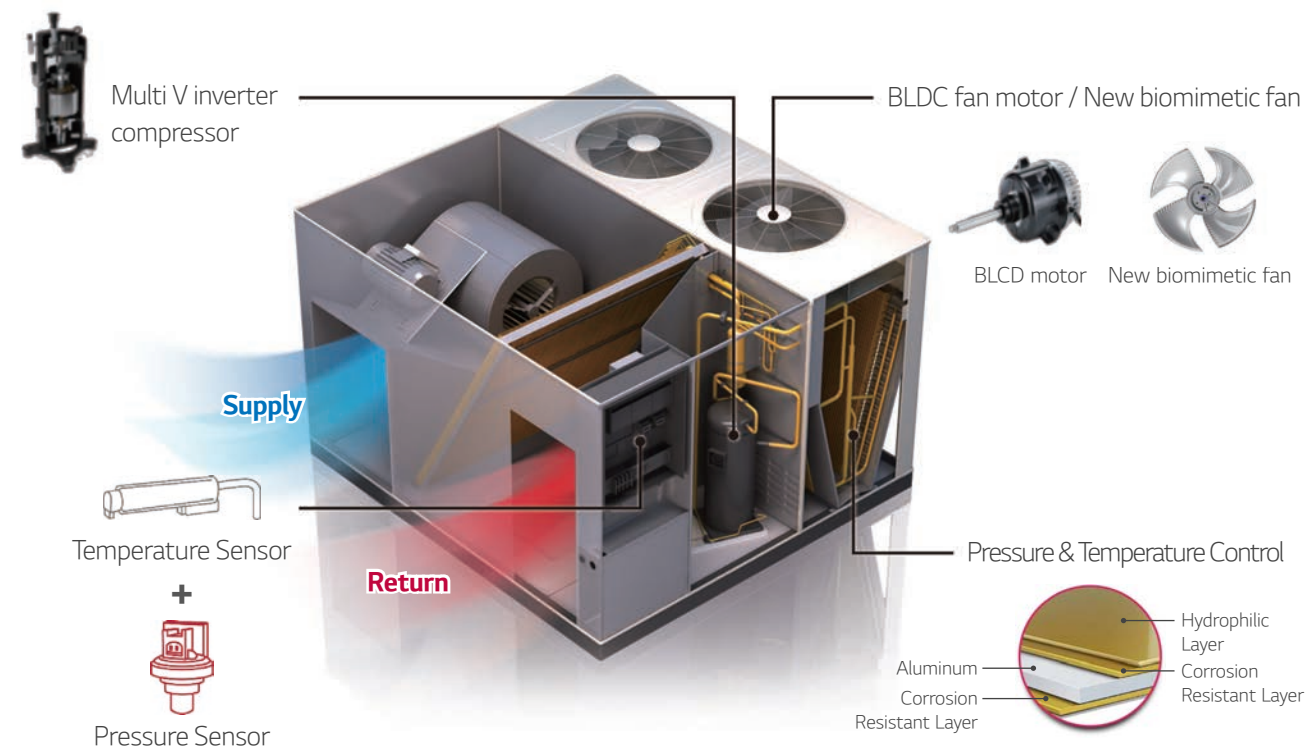
- Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

SINGLE PACKAGE



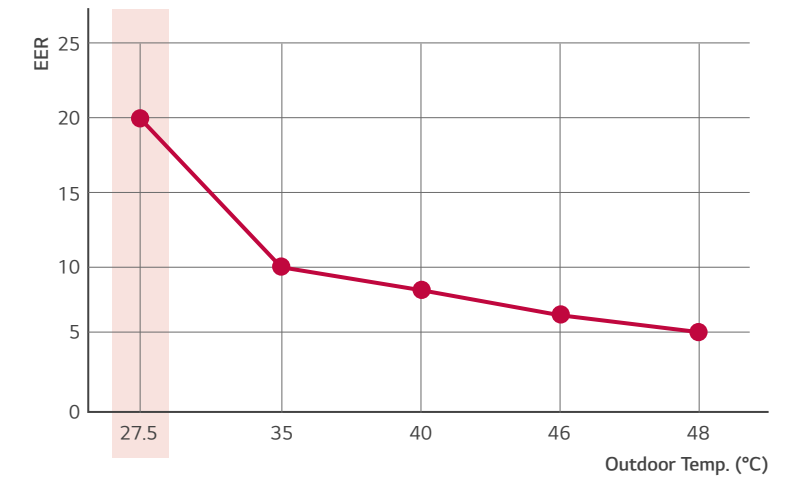
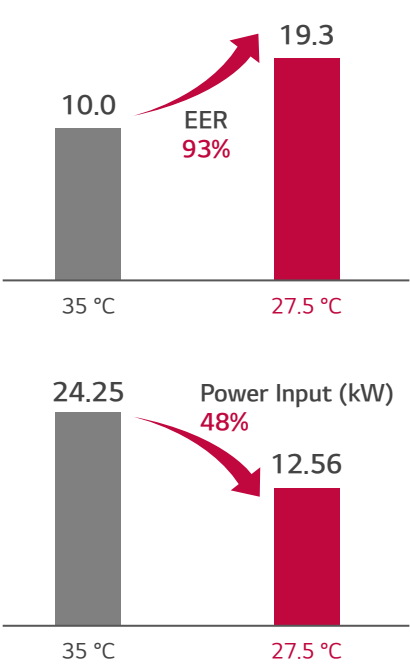
ADVANCED KEY COMPONENTS FOR HIGH ENERGY EFFICIENCY

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



ANNUAL ENERGY SAVINGS

Target low pressure will be adjusted according to cooling load. LG provide energy saving by preventing On / Off operation with inverter technology.



Outdoor Temp. (°C)	27.5	35	40	46	48
EER	19.3	10.0	8.0	6.4	5.9
Power Input (kW)	12.56	24.25	30.12	35.98	37.1

* Model : LG AK-Q300DC01 / C Company 50HC*28

SINGLE PACKAGE

RELIABLE PERFORMANCE

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

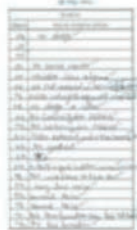


Installation Site 1

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



F/Test check list



LG MV Data



Installation Site 2

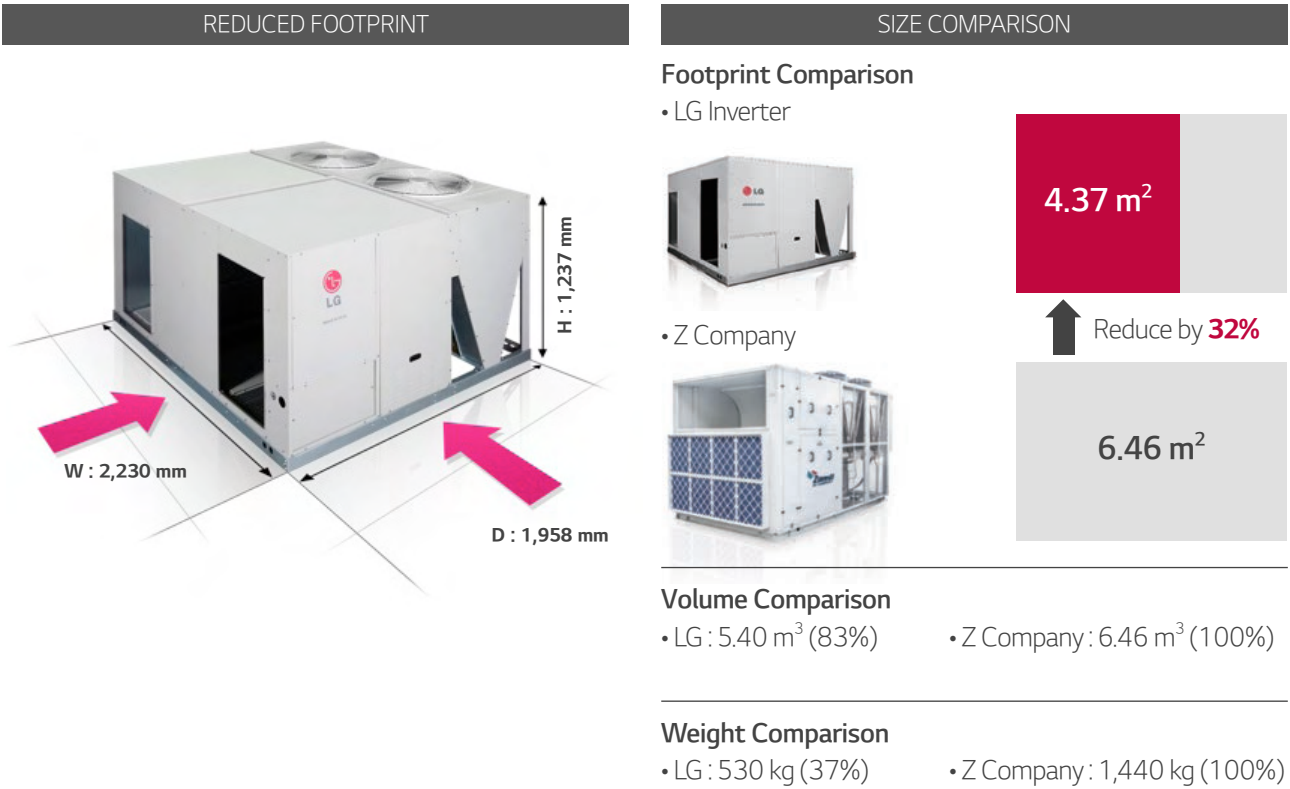
- Location : Dubai, UAE
- Application : Mosque (roof)
- Operation period : 8th April 2012 ~
- Capacity : 12.5RT
- Power : 3phase 400V 50Hz



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

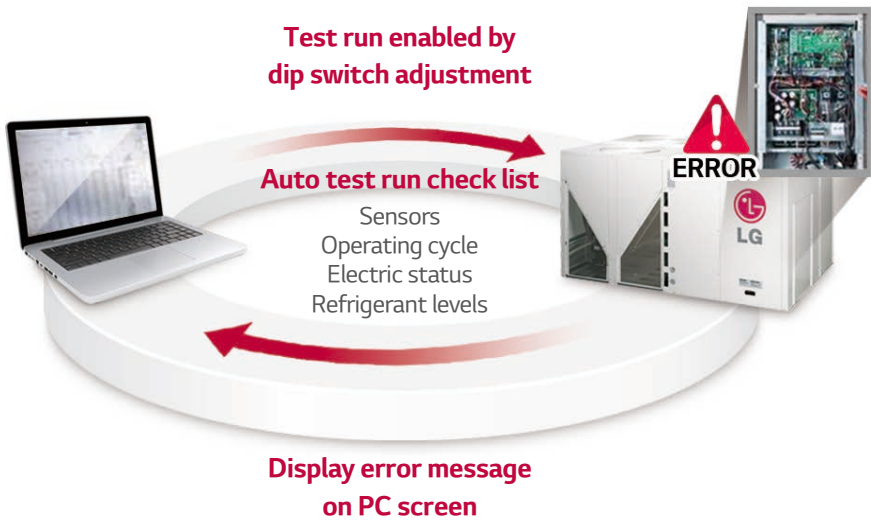
COMPACT SIZE

Easy transportation and less space for installation.



AUTOMATIC TEST RUN

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



SPECIFICATIONS

SINGLE PACKAGE



Nominal Capacity			RT	3	4	5
Model Name			-	AK-Q036GH50	AK-Q048GH50	AK-Q060GH50
Cooling Capacity	Net Capacity		kW	10.26	13.63	17.35
			kcal/h	8,820	11,718	14,918
			Btu/h	35,000	46,500	59,200
	Gross Capacity		kW	10.6	14.1	17.6
			kcal/h	9,072	12,096	15,120
			Btu/h	36,000	48,000	60,000
EER		Btu / Wh	13.01	12.05	11.61	
Power Input	Cooling	kW	2.69	3.86	5.1	
Power Supply			V, Ø, Hz	220, 1, 50/60	220, 1, 50/60	220, 1, 50/60
Indoor Coil	Fin Type		-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Tube Size	Outer Dia.	mm (inch)	7.0 (9/32)	7.0 (9/32)	7.0 (9/32)
	(Row × Column × Fins per inch) × No.		-	(3 × 46 × 17) × 1	(3 × 46 × 17) × 1	(3 × 46 × 17) × 1
	Face Area		m² (ft²)	0.53 (5.71)	0.53 (5.71)	0.53 (5.71)
Indoor Fan	Type		-	Centrifugal Blower Fan	Centrifugal Blower Fan	Centrifugal Blower Fan
	Diameter		mm (inch)	285 (11.2)	285 (11.2)	285 (11.2)
	Motor Output		Hp	257W × 1	339W × 1	350W × 1
	Air Flow Rate	Nominal	m³/min	34	45.3	49.8
		Nominal	ft³/min	1,200	1,600	1,760
	Drive type		-	Direct	Direct	Direct
Compressor (#1, A Cycle)	Type		-	BLDC INV Twin Rotary	BLDC INV Twin Rotary	BLDC INV Twin Rotary
	Motor Output		W × No.	4,000 × 1	4,000 × 1	4,000 × 1
	Oil Type		-	FVC68D	FVC68D	FVC68D
	Oil Charge		cc × No.	1,300 × 1	1,300 × 1	1,300 × 1
Compressor (#2, B Cycle)	Type		-	-	-	-
	Motor Output		W × No.	-	-	-
	Oil Type		-	-	-	-
	Oil Charge		cc × No.	-	-	-
Outdoor Coil	Fin Type		-	Wide Louver Plus (Gold)	Wide Louver Plus (Gold)	Wide Louver Plus (Gold)
	Tube Size	Outer Dia.	mm (inch)	7 (9/32)	7 (9/32)	7 (9/32)
	(Row × Column × Fins per inch) × No.		-	(2 × 44 × 17) × 1	(2 × 44 × 17) × 1	(2 × 44 × 17) × 1
	Face Area		m² (ft²)	1.33 (14.28)	1.33 (14.28)	1.33 (14.28)
Outdoor Fan	Type		-	Propeller	Propeller	Propeller
	Diameter		mm (inch)	460 (18.11)	460 (18.11)	460 (18.11)
	Motor Output		W × No.	124.2 × 2	124.2 × 2	124.2 × 2
	Air Flow Rate		m³/min × No.	-	-	-
			ft³/min × No.	-	-	-
	Drive		-	BLDC Inverter	BLDC Inverter	BLDC Inverter
Discharge Direction			-	Top	Top	Top
Dehumidification rate			ℓ/h	2.23	3.47	5.58
Drain Connection Size			-	Male NPT 3/4	Male NPT 3/4	Male NPT 3/4
Refrigerant	Refrigerant name		-	R410A	R410A	R410A
	Precharged Amount	A-Circuit	kg	3.6	3.6	3.6
		B-Circuit	kg	-	-	-
	Control		-	EEV	EEV	EEV
Dimensions (W × H × D)			mm	1,280 × 1,065 × 1,110	1,280 × 1,065 × 1,110	1,280 × 1,065 × 1,110
			inch	50-13 / 32 × 41-29 / 32 × 43-23 / 32	50-13 / 32 × 41-29 / 32 × 43-23 / 32	50-13 / 32 × 41-29 / 32 × 43-23 / 32
Net Weight			kg(lbs)	174	174	174
Sound pressure levels	Cooling		dB(A)	75	75	75
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°CDB (°FDB)	-5 ~ 54 (23.0 ~ 129.2)	-5 ~ 54 (23.0 ~ 129.2)	-5 ~ 54 (23.0 ~ 129.2)



Nominal Capacity			RT	6.5	7.5	
Model Name			-	AK-Q0788C01	AK-Q0908C01	
Cooling Capacity	Net Capacity		kW	22.9	26.4	
			kcal/h	19,700	22,700	
			Btu/h	78,000	90,000	
	Gross Capacity		kW	24.0	27.5	
			kcal/h	20,700	23,700	
			Btu/h	82,000	94,000	
EER			Btu / Wh	12.8	11.8	
Power Input	Cooling		kW	6.09	7.62	
Power Supply			V, Ø, Hz	380-415, 3 , 50	380-415, 3 , 50	
Indoor Coil	Fin Type		-	LG Louver	LG Louver	
	Tube Size	Outer Dia.	mm (inch)	9.52 (3/8)	9.52 (3/8)	
	(Row × Column × Fins per inch) × No.		-	(4 × 36 × 16)	(4 × 36 × 16)	
	Length		mm (inch)	916 (36-1/8)	916 (36-1/8)	
	Face Area		m² (ft²)	0.84 (9.02)	0.84 (9.02)	
Indoor Fan	Type		-	Sirocco Fan	Sirocco Fan	
	Diameter		mm (inch)	331.6 (13.1)	331.6 (13.1)	
	Motor Output		Hp	1.5	1.5	
	Air Flow Rate	Nominal	m³/min	73.6	85.0	
		Nominal	ft³/min	2,600	3,000	
	Drive type		-	Belt	Belt	
Compressor (#1, A Cycle)	Type		-	HSS DC SCROLL	HSS DC SCROLL	
	Motor Output		W × No.	5,300 × 1	5,300 × 1	
	Oil Type		-	FVC68D	FVC68D	
	Oil Charge		cc × No.	1,200 × 1	1,200 × 1	
Compressor (#2, B Cycle)	Type		-	-	-	
	Motor Output		W × No.	-	-	
	Oil Type		-	-	-	
	Oil Charge		cc × No.	-	-	
Outdoor Coil	Fin Type		-	Wide Louver Plus(Gold)	Wide Louver Plus(Gold)	
	Tube Size	Outer Dia.	mm (inch)	7.0 (9/32)	7.0 (9/32)	
	(Row × Column × Fins per inch) × No.		-	(3 × 44 × 14)	(3 × 44 × 14)	
	Face Area		m² (ft²)	2.08 (22.38)	2.08 (22.38)	
Outdoor Fan	Type		-	Propeller Fan	Propeller Fan	
	Diameter		mm (inch)	680 (26-25/32)	680 (26-25/32)	
	Motor Output		W × No.	1,200 × 1	1,200 × 1	
	Air Flow Rate		m³/min × No.	105 × 1	105 × 1	
			ft³/min × No.	3,700 × 1	3,700 × 1	
	Drive		-	BLDC Inverter	BLDC Inverter	
Discharge Direction			-	Top	Top	
Dehumidification rate			ℓ/h	8.5	9.9	
Drain Connection Size			-	Male NPT 3/4	Male NPT 3/4	
Refrigerant	Refrigerant name		-	R410A	R410A	
	Precharged Amount	A-Circuit	kg	6.9	6.9	
		B-Circuit	kg	-	-	
	Control		-	Electronic Expansion Valve	Electronic Expansion Valve	
Dimensions (W × H × D)			mm	2,250 × 1,106 × 1,130	2,250 × 1,106 × 1,130	
			inch	88-19 / 32 × 43-17 / 32 × 44-1 / 2	88-19 / 32 × 43-17 / 32 × 44-1 / 2	
Net Weight			kg (lbs)	340 (750)	340 (750)	
Sound pressure levels	Cooling		dB (A)	70	70	
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°CDB (°FDB)	-5 ~ 54 (23.0 ~ 129.2)	-5 ~ 54 (23.0 ~ 129.2)	

SPECIFICATIONS

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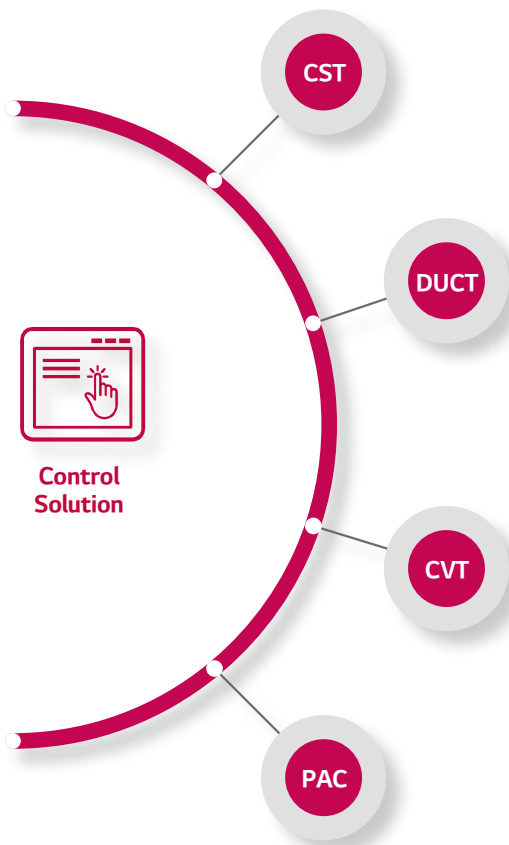


Nominal Capacity			RT	10	12.5
Model Name			-	AK-Q1208C01	AK-Q1508C01
Cooling Capacity	Net Capacity		kW	35.2	39.9
			kcal/h	30,240	34,271
			Btu/h	120,000	136,000
	Gross Capacity		kW	37.5	42.8
			kcal/h	32,255	36,791
			Btu/h	128,000	146,000
EER		Btu / Wh	11.6	11.6	
Power Input	Cooling	kW	10.34	11.72	
Power Supply			V, Ø, Hz	380-415, 3 , 50	380-415, 3 , 50
Indoor Coil	Fin Type		-	LG Louver	LG Louver
	Tube Size	Outer Dia.	mm (inch)	9.52 (3/8)	9.52 (3/8)
	(Row × Column × Fins per inch) × No.		-	(4 × 22 × 16) × 2	(4 × 22 × 16) × 2
	Length		mm (inch)	1,300 (51-6/32)	1,300 (51-6/32)
	Face Area		m² (ft²)	1.45(15.61)	1.45 (15.61)
Indoor Fan	Type		-	Sirocco Fan	Sirocco Fan
	Diameter		mm (inch)	380 (15)	380 (15)
	Motor Output		Hp	3.0	3.0
	Air Flow Rate	Nominal	m³/min	113.3	141.6
		Nominal	ft³/min	4,000	5,000
	Drive type		-	Belt	Belt
Compressor (#1, A Cycle)	Type		-	HSS DC SCROLL	HSS DC SCROLL
	Motor Output		W × No.	5,300 × 1	5,300 × 1
	Oil Type		-	FVC68D	FVC68D
	Oil Charge		cc × No.	1,200 × 1	1,200 × 1
Compressor (#2, B Cycle)	Type		-	-	-
	Motor Output		W × No.	-	-
	Oil Type		-	-	-
	Oil Charge		cc × No.	-	-
Outdoor Coil	Fin Type		-	Wide Louver Plus(Gold)	Wide Louver Plus (Gold)
	Tube Size	Outer Dia.	mm (inch)	7 (9/32)	7 (9/32)
	(Row × Column × Fins per inch) × No.		-	(3 × 42 × 14) × 2	(3 × 42 × 14) × 2
	Face Area		m² (ft²)	3.53 (37.99)	3.53 (37.99)
Outdoor Fan	Type		-	Propeller Fan	Propeller Fan
	Diameter		mm (inch)	680 (26-25/32)	680 (26-25/32)
	Motor Output		W × No.	1,500 × 2	1,500 × 2
	Air Flow Rate		m³/min × No.	105 × 2	105 × 2
			ft³/min × No.	3,700 × 2	3,700 × 2
	Drive		-	BLDC Inverter	BLDC Inverter
Discharge Direction			-	Top	Top
Dehumidification rate			ℓ/h	13.8	15.6
Drain Connection Size			-	Male NPT 1	Male NPT 1
Refrigerant	Refrigerant name		-	R410A	R410A
	Precharged Amount	A-Circuit	kg	13.0	13.0
		B-Circuit	kg	-	-
	Control		-	Electronic Expansion Valve	Electronic Expansion Valve
Dimensions (W × H × D)			mm	2,230 × 1,237 × 1,958	2,230 × 1,237 × 1,958
			inch	87-25 / 32 × 48-11 / 16 × 77-3 / 32	87-25 / 32 × 48-11 / 16 × 77-3 / 32
Net Weight			kg (lbs)	530 (1,168)	530 (1,168)
Sound pressure levels	Cooling		dB (A)	75	75
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°CDB (°FDB)	-5 ~ 54 (23.0 ~ 129.2)	-5 ~ 54 (23.0 ~ 129.2)



Nominal Capacity			RT	15	17.5	20	25
Model Name			-	AK-Q1808C01	AK-Q2108C01	AK-Q2408C01	AK-Q3008C01
Cooling Capacity	Net Capacity		kW	52.8	61.5	70.6	80.9
			kcal/h	45,359	52,919	60,700	69,600
			Btu/h	180,000	210,000	241,000	276,000
	Gross Capacity		kW	54.2	64.2	73.6	85.0
			kcal/h	46,619	55,187	63,300	73,100
			Btu/h	185,000	219,000	251,000	290,000
EER		Btu / Wh	11.6	12.8	11.2	10.5	
Power Input	Cooling	kW	15.50	16.40	21.50	26.20	
Power Supply			V, Ø, Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
Indoor Coil	Fin Type		-	LG Louver	LG Louver	LG Louver	LG Louver
	Tube Size	Outer Dia.	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	(Row × Column × Fins per inch) × No.		-	(3 × 24 × 16) × 2	(3 × 24 × 16) × 2	(3 × 24 × 16) × 2	(3 × 24 × 16) × 2
	Length		mm (inch)	1,785 (70-9/32)	1,785 (70-9/32)	1,785 (70-9/32)	1,785 (70-9/32)
	Face Area		m² (ft²)	2.18 (23.47)	2.18 (23.47)	2.18 (23.47)	2.18 (23.47)
Indoor Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Diameter		mm (inch)	457.2 (18)	457.2 (18)	457.2 (18)	457.2 (18)
	Motor Output		Hp	5.0	5.0	5.0	7.5
	Air Flow Rate	Nominal	m³/min	169.9	198.2	226.5	283.2
		Nominal	ft³/min	6,000	7,000	8,000	10,000
	Drive type		-	Belt	Belt	Belt	Belt
Compressor (#1, A Cycle)	Type		-	HSS DC SCROLL	HSS DC SCROLL	HSS DC SCROLL	HSS DC SCROLL
	Motor Output		W × No.	4,200 × 1	5,300 × 1	5,300 × 1	5,300 × 1
	Oil Type		-	FVC68D	FVC68D	FVC68D	FVC68D
	Oil Charge		cc × No.	1,200 × 1	1,400 × 1	1,400 × 1	1,400 × 1
Compressor (#2, B Cycle)	Type		-	HSS DC SCROLL	HSS DC SCROLL	HSS DC SCROLL	HSS DC SCROLL
	Motor Output		W × No.	4,200 × 1	5,300 × 1	5,300 × 1	5,300 × 1
	Oil Type		-	FVC68D	FVC68D	FVC68D	FVC68D
	Oil Charge		cc × No.	1,200 × 1	1,400 × 1	1,400 × 1	1,400 × 1
Outdoor Coil	Fin Type		-	Wide Louver Plus (Gold)	Wide Louver Plus (Gold)	Wide Louver Plus (Gold)	Wide Louver Plus (Gold)
	Tube Size	Outer Dia.	mm (inch)	7.0 (9/32)	7.0 (9/32)	7.0 (9/32)	7.0 (9/32)
	(Row × Column × Fins per inch) × No.		-	(2 × 42 × 14) × 4	(3 × 42 × 14) × 4	(3 × 42 × 14) × 4	(3 × 42 × 14) × 4
	Face Area		m² (ft²)	7.06 (75.99)	7.06 (75.99)	7.06 (75.99)	7.06 (75.99)
Outdoor Fan	Type		-	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Diameter		mm (inch)	680 (26-25/32)	680 (26-25/32)	680 (26-25/32)	680 (26-25/32)
	Motor Output		W × No.	900 × 4	900 × 4	900 × 4	900 × 4
	Air Flow Rate		m³/min × No.	105 × 4	105 × 4	105 × 4	105 × 4
			ft³/min × No.	3,700 × 4	3,700 × 4	3,700 × 4	3,700 × 4
	Drive		-	BLDC Inverter	BLDC Inverter	BLDC Inverter	BLDC Inverter
Discharge Direction			-	Top	Top	Top	Top
Dehumidification rate			ℓ/h	20.7	24.2	26.18	29.82
Drain Connection Size			-	Male NPT 1	Male NPT 1	Male NPT 1	Male NPT 1
Refrigerant	Refrigerant name		-	R410A	R410A	R410A	R410A
	Precharged Amount	A-Circuit	kg	9.0	12.0	12.0	12.0
		B-Circuit	kg	9.0	12.0	12.0	12.0
	Control		-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Dimensions (W × H × D)			mm	2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520
			inch	87-25 / 32 × 48-29 / 32 × 138-19 / 32	87-25 / 32 × 48-29 / 32 × 138-19 / 32	87-25 / 32 × 48-29 / 32 × 138-19 / 32	87-25 / 32 × 48-29 / 32 × 138-19 / 32
Net Weight			kg (lbs)	850 (2,094)	900 (1,984)	950 (2,094)	950 (2,094)
Sound pressure levels	Cooling		dB (A)	85	85	85	85
Operation Range (Outdoor Temperature)	Cooling	Min. - Max.	°CDB (°FDB)	-5 ~ 54 (23.0 ~ 129.2)	-5 ~ 54 (23.0 ~ 129.2)	-5 ~ 54 (23.0 ~ 129.2)	-5 ~ 54 (23.0 ~ 129.2)

CONTROL SOLUTION



CENTRAL CONTROL SOLUTION



- 5" Touch controller
- PI485GW required
- Individual controller Lock
- Yearly schedule
- Max 64 Indoor unit

INDIVIDUAL CONTROLLER



- 4.3" color display with a modern design
- Soft touch button
- Yearly schedule

DRY CONTACT SOLUTION



- 1 or 2 contact input
- With 3rd Party Thermostat
- With Automation system

CONTROLLER LINE-UP

Smart management for a variety of usages.

CENTRAL CONTROLLER



AC Smart 5

- Max. 128 unit
- 10.2" touch
- Yearly schedule
- Individual controller Lock
- Operation log
- Floor map view



AC Ez touch

- Max. 64 unit
- 5" touch
- Yearly schedule
- Individual controller Lock
- Operation log

INDIVIDUAL CONTROLLER



Standard II



Standard III (4.3" color)



Premium (5" touch color)



Wireless



LG Wifi MODEM

BMS PROTOCOL GATEWAY



ACP 5



LonWorks



Dry Contact



PI485GW

ETC. ACCESSORIES