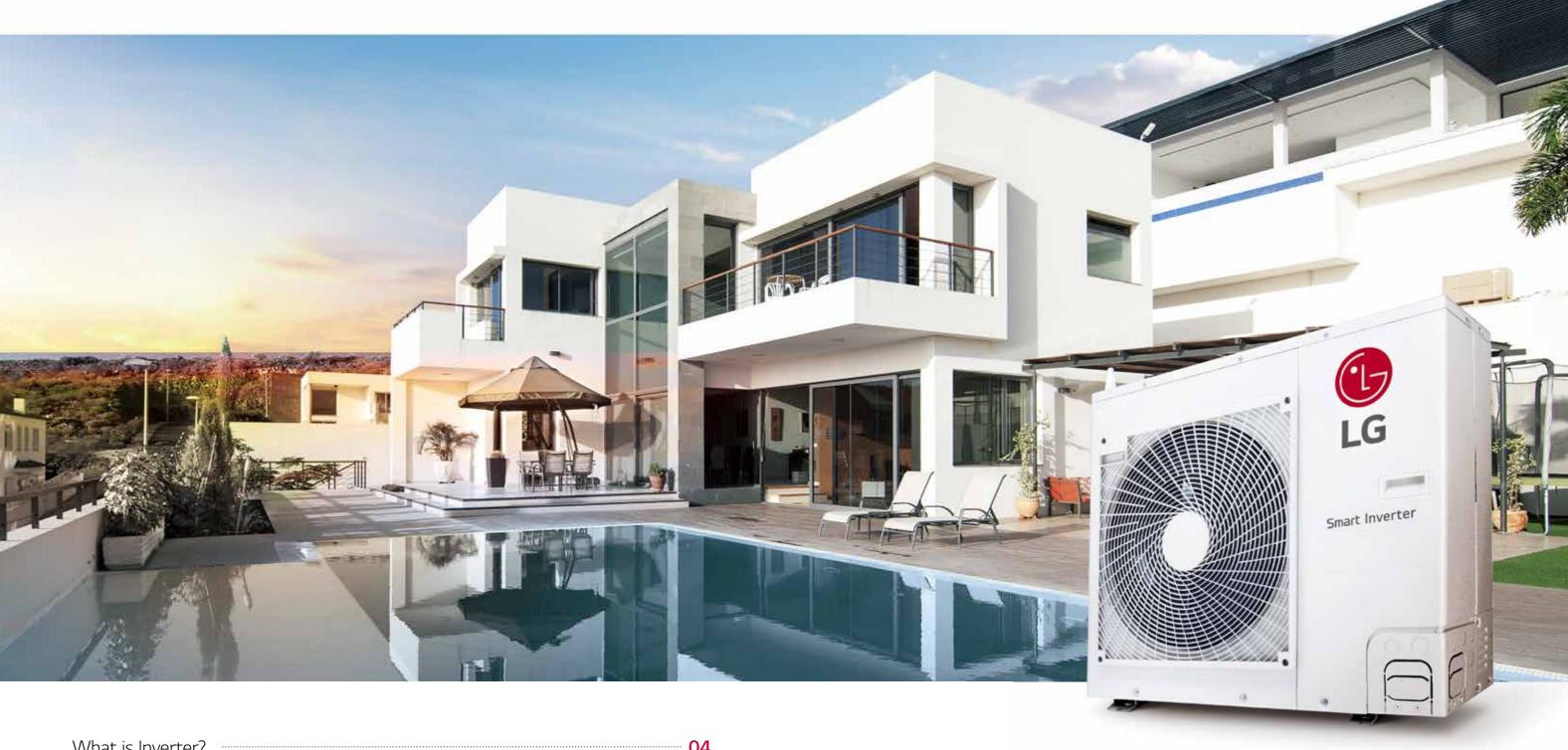
LG SMART INVERTER

COMMERCIAL AIR CONDITIONERS



CONTENTS



| VVhat is Inverter? | 04 |
|--|--------|
| Why LG Smart Inverter? | 05 |
| Line up | 80 |
| Core benefit of LG Smart Inverter Single Split | 12 |

- The Evolution of LG Technology
- Comfort

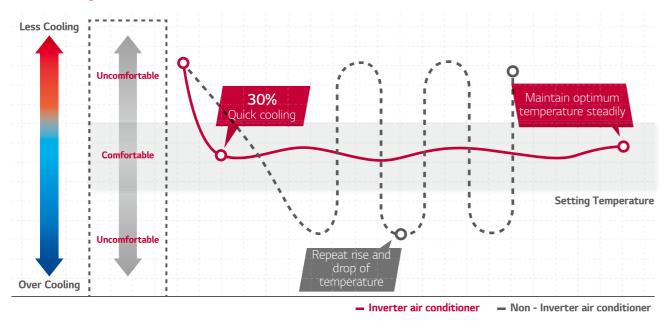
- LG Smart Technology
- Reliability
- Energy Saving
- Convenience

| LG Smart Inverter Single Split | | | 26 |
|--------------------------------|------------------------|--------------------------|----|
| Ceiling Mounted Cassette | Ceiling Concealed Duct | • Ceiling Suspended Unit | |
| Floor Standing Unit | Single Package | | |
| Control Solution | | | 66 |

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



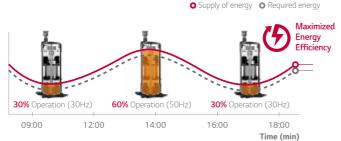
Benefit of Inverter compressor

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

Time (min)

Constant Speed Compressor Supply of energy Required energy 09:00 14.00 16:00 18:00

Inverter Compressor



Brain

Non inverter running at constant-speed has only two choices

Constant speed runs only On / Off operation, while variable ; 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.





Inverter Compressor

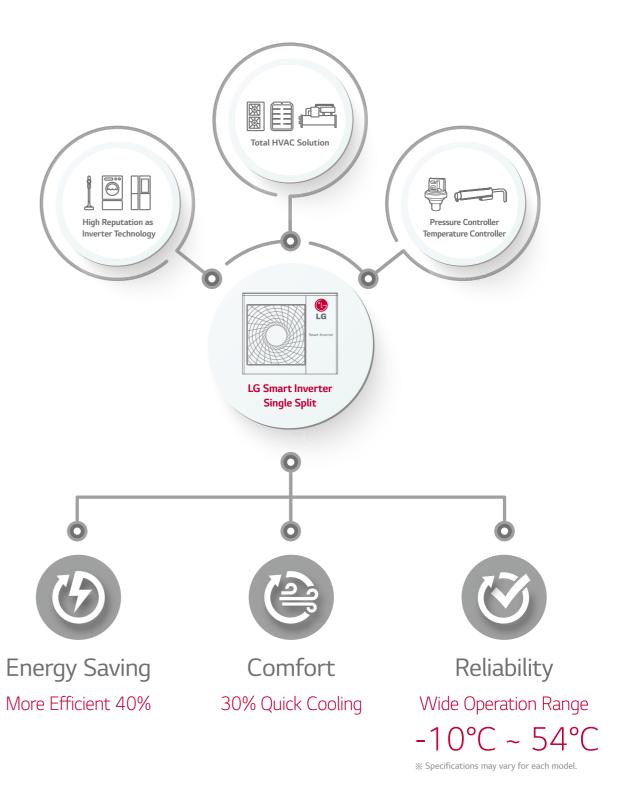
Dimmable lamp

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.





SMART INVERTER SINGLE SPLIT - HIGH EFFICIENCY

COOLING ONLY



| CEILING CONCEALED DUCT (MIDDLE STATIC) | | | | | | |
|--|--|-------------|-------------|-------------|-------------|-------------|
| | ************************************** | 0 | 0 | 0 | 0 | 0 |
| kBtu / kW | 18 / 5.3 | 24 / 7.0 | 30 / 8.8 | 36 / 10.6 | 48 / 14.1 | 54 / 15.8 |
| Indoor Model Name | ABNQ18GM1T1 | ABNQ24GM1T1 | ABNQ30GM1T1 | ABNQ36GM3T1 | ABNQ48GM3T1 | ABNQ54GM3T1 |
| Outdoor Model Name | ABUQ18GM1T1 | ABUQ24GM1T1 | ABUQ30GM1T1 | ABUQ36GM3T1 | ABUQ48GM3T1 | ABUQ54GM3T1 |

| CEILING SUSPENDED | | | | | | |
|--------------------|---------------------------------------|-------------|-------------|-------------|-------------|-------------|
| | • • • • • • • • • • • • • • • • • • • | 0 | 0 | 0 | 0 | 0 |
| kBtu / kW | 18 / 5.3 | 24 / 7.0 | 30 / 8.8 | 36 / 10.6 | 48 / 14.1 | 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 | * | | | U -M | | | |
| Model Name | AK-Q036GH50 AK-Q048GH50 AK-Q060GH50 | AK-Q0788C01 AK-Q0908C01 | AK-Q1208C01 AK-Q1508C01 | AK-Q1808C01 AK-Q2108C01 AK-Q2408C01 AK-Q3008C01 | | | |

| FLOOR STANDING | | | | | | |
|--------------------|--|--|--|--|--------------|-------------|
| | | | | | 0 | 0 |
| kBtu / kW | | | | | 48 / 14.1 | 96 / 28.2 |
| Indoor Model Name | | | | | APNQ50LT3E0* | APNQ100LFT0 |
| Outdoor Model Name | | | | | APUQ50LT3E0* | APUQ100LFT0 |

THE EVOLUTION OF LG TECHNOLOGY

REVOLUTIONARY SCROLL COMPRESSOR (ABOVE 3 TR MODELS)

R1 Compressor



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

INVERTER COMPRESSOR

High-efficiency inverter compressor developed for generations.

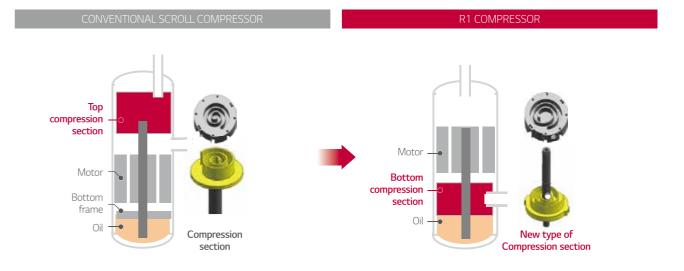


* All the contents in this material is based on LG single split model.

REVOLUTIONARY SCROLL COMPRESSOR (ABOVE 3 TR MODELS)

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

- Scroll compressor with simple structure $% \left(1\right) =\left(1\right) \left(1$
- Low noise (high speed possible)
- 20% weight reduction (vs. conventional compressor)
- High efficiency (low load at low speed / total efficiency)
- Improved Tilting Motion of scroll



* Refer to each model PDB for applicable models.

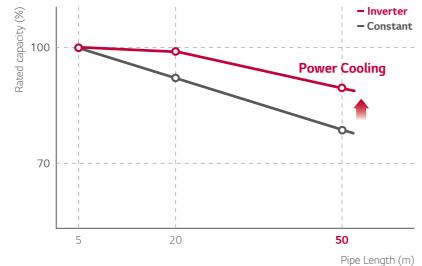
^{**} LG Internal test result, Based on conventional compressor (Rotary type GPT442M)

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.
- $\ensuremath{\%}$ Test condition (Temperature) : 27 / 35 °C (Indoor / Outdoor)

COMFORT COOLING WITH HUMIDITY SENSOR

LG Single Split

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

Conventional model



Temperature



Temperature

Humidity

Max. 18% **Energy Saving*** * Test condition :

한국산업기술시험뿐당

- 27 °C (DB) / 26.4°C (WB)
- Applied model : AT-*18GPLT1

Comfortable and power saving control based on indoor humidity**

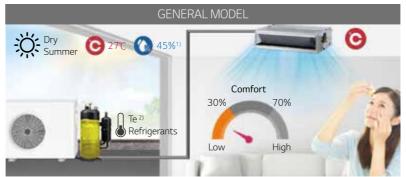


^{**} To apply humidity sensor, new remote controller, PREMTB100 or PREMTBB10 is needed

COMFORT COOLING WITH HUMIDITY SENSOR

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

Dual Sensing Control - Dry Summer



Uncomfortable Environment

Excessive latent heat elimination regardless of humidity

Waste Energy

Eliminate latent heat unnecessarily



Comfortable Environment

By making the room less dry

Increased Energy Efficiency

Provide optimized cooling and save energy considering humidity

- Humidity Condition: Low (<30%), Standard (30~70%)
- 1) Indoor Condition
- 2) Evaporation Temperature

Dual Sensing Control - Wet Summer



Uncomfortable Environment

General latent heat elimination regardless of

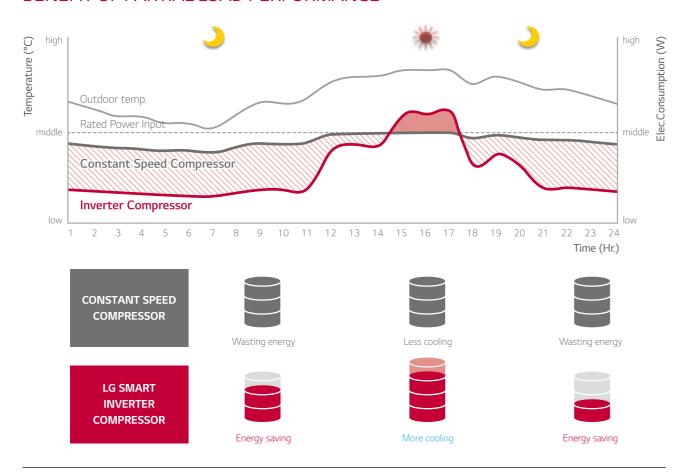


Comfortable Environment

With quick latent heat elimination by sensing

ENERGY SAVING

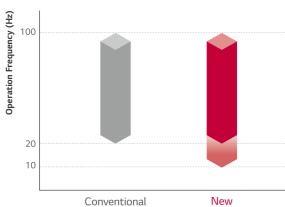
BENEFIT OF PARTIAL LOAD PERFORMANCE



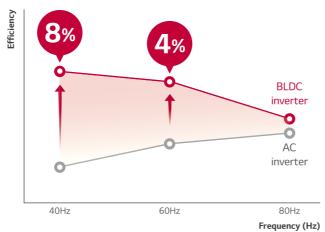
POWERFUL BLDC (BRUSHLESS DIRECT CURRENT MOTOR) COMPRESSOR

LG air conditioners are equipped with a BLDC Inverter Twin Rotary Compressor that uses a neodymium magnetic core. The compressor has high efficiency and superior reliability, because it is excellent in controlling the operating speed depending on the load. The compressor has improved efficiency compared to standard AC inverter products and optimized for changes of outdoor load. Especially it is optimized for seasonal efficiency.

Operation Range



Motor Efficiency



COMFORT

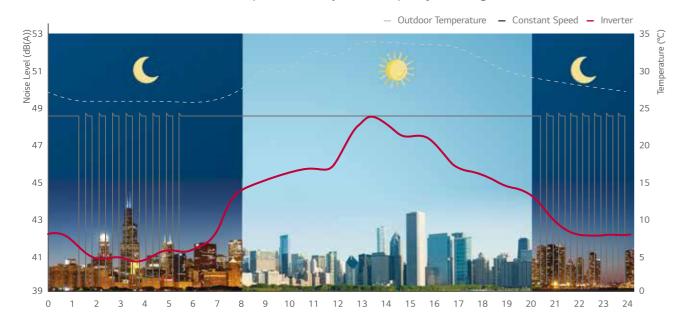
QUICK COOLING

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



LOW NOISE

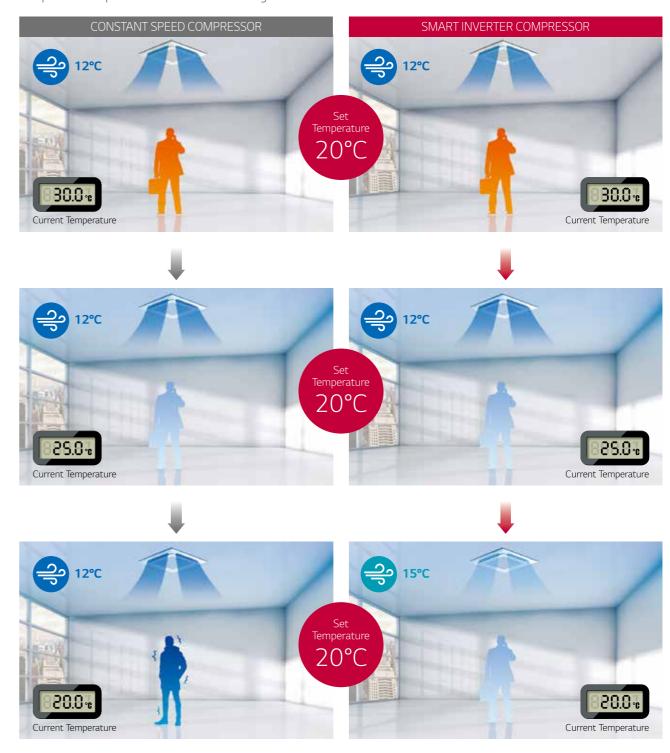
Inverter makes lower noise than constant speed due to adjustable frequency according to the load.



- $\label{eq:conversation} % \textbf{Noise level in residential environment: } \textbf{60dB(A): Normal conversation, } \textbf{50dB(A): office, } \textbf{40dB(A): Livingroom } \textbf{10dB(A): } \textbf{10dB(A):$
- * This result can be different depending on actual environment.
- $\ensuremath{\mbox{\%}}$ The value of noise level is based on "A*UW18G**T2"

OPTIMUM COOLING

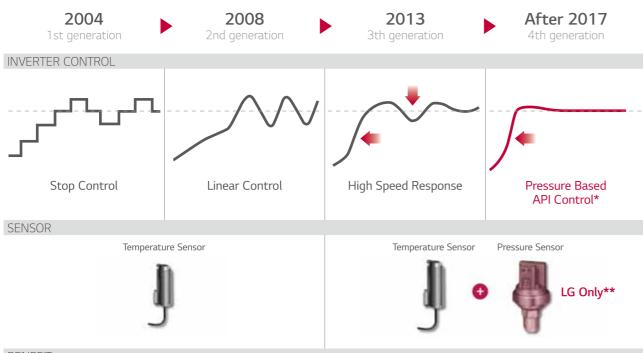
When indoor temperature reaches near to the target temperature, LG Smart Inverter adjusts its discharge air temperature to prevent the indoor from being overcooled.



RELIABILITY

INVERTER CONTROL

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



BENEFIT

- * API Control : Adaptive Propotional Intergrated control.
- ** Application status of pressure sensor

| | Competitors | LG |
|--------------------|-------------|----|
| Pressure sensor | X | 0 |



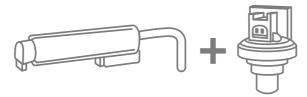
QUICK OPERATING RESPONSE



- **Step 1** Detect current temperature of the refrigerant, indoor and outdoor temperature
- **Step 2** Estimating Pressure Gauge target pressure to operate the compressor, based on the corresponding temperature data

This algorithm is more likely to be impacted by temperature change hence consumes more time to calculate proper operation range of compressor to reach target performance point.

STANDARD INVERTER



Step 1 Detect refrigerant pressure and temperature simultaneously to ensure that the compressor is available for target cooling operation

This ensures to reach the target performance point operating efficiently and reliably.

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

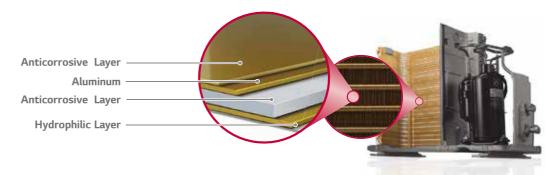
Below low voltage limit, inverter compressor reduces frequency(Hz) and boost DC voltage, over high voltage limit, cuts off the relay to prevent damage of DC capacitor.





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

Vane Control

- Mode Selection
- Reservation
- Current temperature
- Energy Monitoring
- Set temperature
- Filter Management

 $\ensuremath{\mbox{\%}}$ Search "LG Smart ThinQ" on Google market or Appstore then download the app. * Wi-Fi modem (PWFMDD200) is required by option.

SIMs MODULE

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



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.

- 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

SIMPLE PUMP DOWN

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

Time consuming and inconvenience

Conduct the pump down by setting at outdoor unit and indoor unit respectively

Imprecise pump down

Assuming ref. amount empirically

| Action | Setting by |
|--|------------|
| Cooling operation start by Indoor remote controller | IDU |
| Vapor pipe valve closed assuming ref. amount in person | ODU |

SIMPLE PUMP DOWN (LG INVERTER)

Save time and simple maintenance

Start pump down simply by setting dip switch on PCB in outdoor unit

Precise pump down (LED signal)

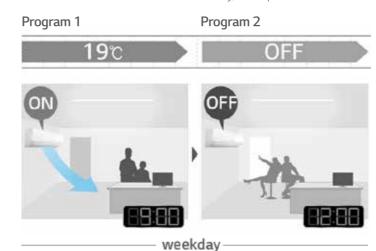
Measuring ref. amount by pressure sensor and alarm LED signal

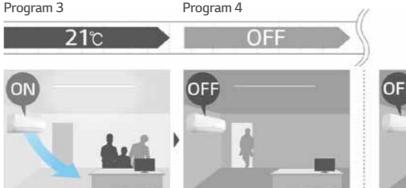
| Action | Setting by |
|---|------------|
| Dip switch On | ODU |
| Vapor Pipe valve closed after checking LED signal | ODU |

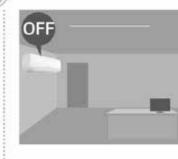
※ Pump down: When an outdoor or indoor unit malfunctions, this function collects its refrigerant inside outdoor unit before servicing.

WEEKLY PROGRAM

You can allot 2 reservations for one day, and up to 14 reservations for a week.







holiday-

21

weekday.

* Search "LG SIMs" on Google market or Appstore then download the app.

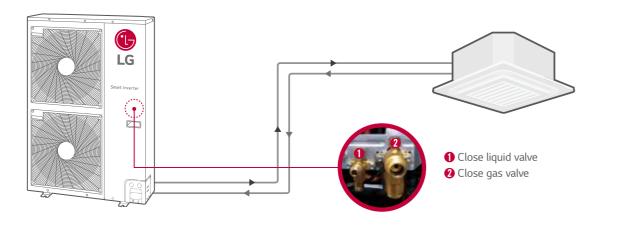
CONVENIENCE

FORCED COOLING OPERATION

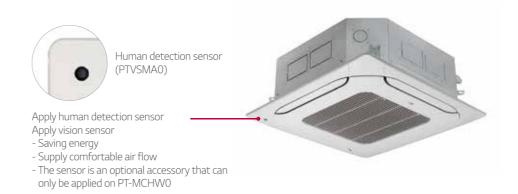
This function allows the refrigerant to be recharged or pumped down, regardless of the indoor temperature. Note that this function can be used when indoor units are being moved or repaired.

RECHARGING Shart lowrter

PUMP DOWN

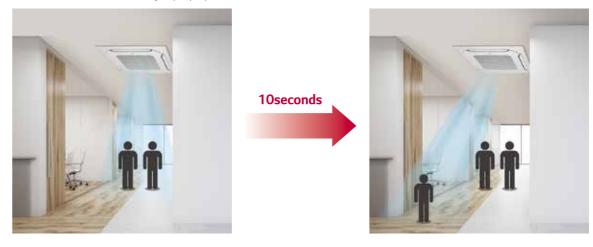


HUMAN DETECTION SENSOR & HUMIDITY SENSOR



Detection

Motion sensors detect the activity of people per 10seconds



Detection range





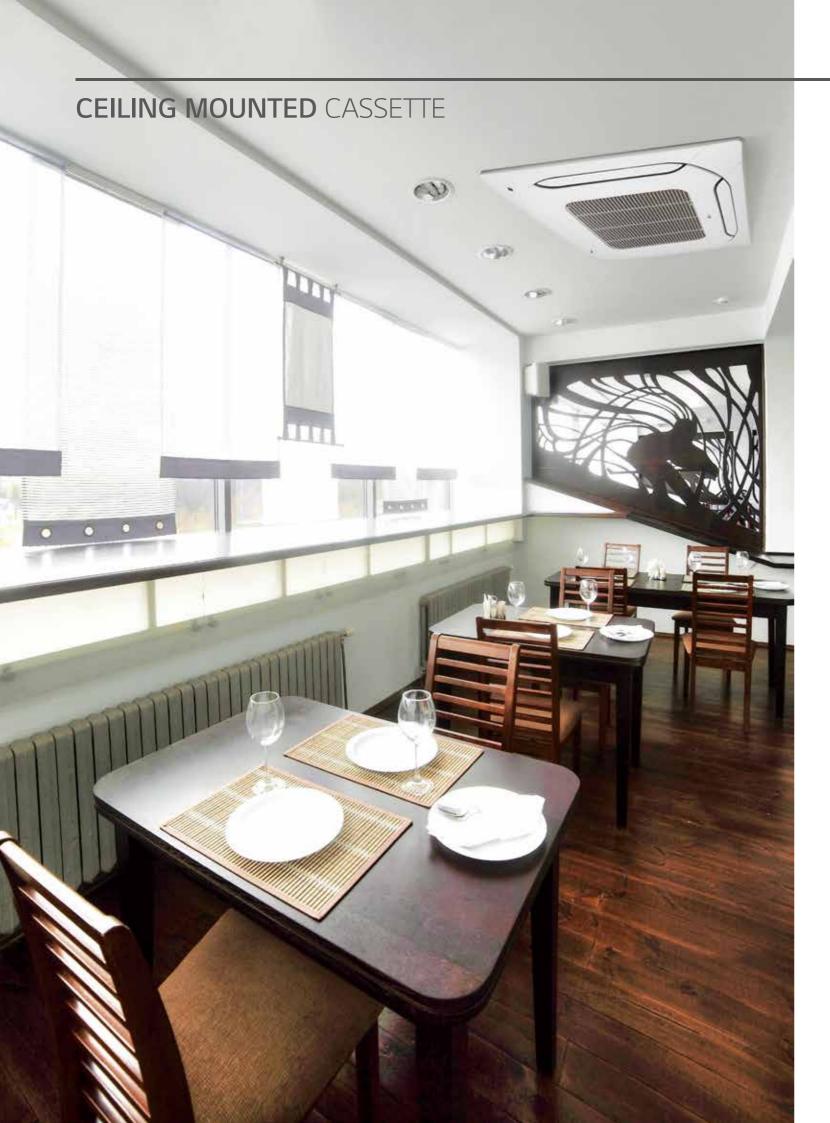


Height 3.5 (16 x 10m)



 $12 \times 6m \rightarrow 6 \times 12m$ detecting

23

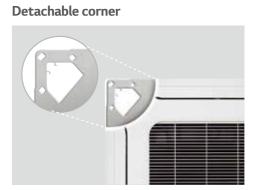


STYLISH DESIGN PANEL

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

Interior fit









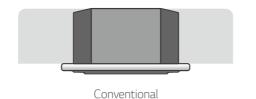
* Old Panel: PT-UMC1 / New Panel: PT-MCHW0

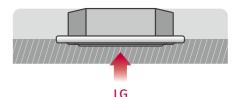
COMPACT SIZE

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.



Length Width: 840 x 840mm

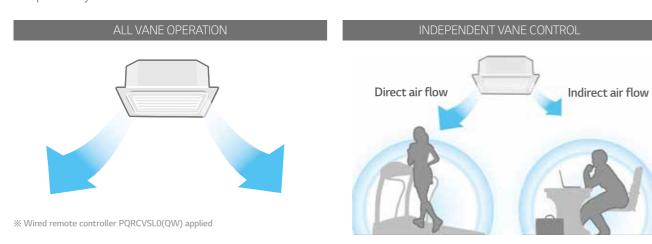




CEILING MOUNTED CASSETTE

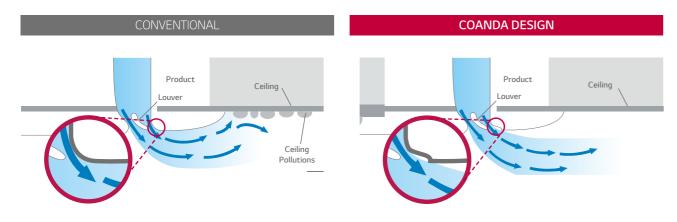
INDEPENDENT VANE OPERATION

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



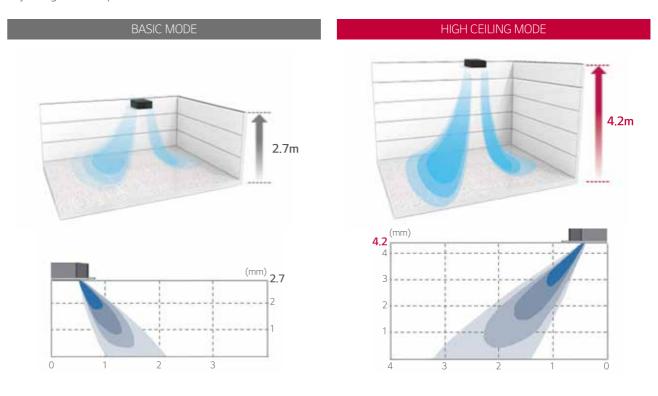
PREVENT CEILING POLLUTION

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.

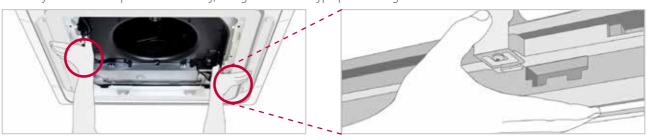


CONVENIENT PANEL INSTALLATION

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.



CEILIING MOUNTED CASSETTE - **HIGH EFFICIENCY** (INVERTER / 1PHASE)

ATUQ18GPLT1 / ATUQ24GPLT1 / ATUQ30GPLT1 / ATUQ36GNLT1 / ATUQ48GMLT1 / ATUQ54GMLT1



COOLING ONLY

| Combination | Outdoor unit | | Unit | ATUQ18GPLT1 | ATUQ24GPLT1 |
|-------------------------------|----------------------|-----------------------|-----------|---------------------|---------------------|
| Combination | Indoor unit | | Unit | ATNQ18GPLT1 | ATNQ24GPLT1 |
| | | | kW | 2.1~5.27~5.86 | 2.81~7.03~8.2 |
| Cooling Capacity ¹ | | Min Rated - Max. | Btu/h | 7200~18000~20000 | 9600~24000~28000 |
| Carllian Caracita 3 | | Min David M | kW | 4.53 | 5.86 |
| Cooling Capacity ² | | Min. ~ Rated ~ Max. | Btu/h | 15,450 | 20,000 |
| Dower langet | Cooling ¹ | Rated | kW | 1.55 | 2.06 |
| Power Input | 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 (in | cluded Earth) | | No. × mm² | 3C × 2.5 | 3C × 2.5 |
| Casing Color | | | - | Warm Gray | Warm Gray |
| Dimensions | Net | $W \times H \times D$ | mm | 770 × 545 × 288 | 870 × 650 × 330 |
| Weight | Net | | kg | 34.3 | 43.3 |
| Compressor | npressor Type | | - | Twin Rotary | Twin Rotary |
| Refrigerant | Туре | | - | R410A | R410A |
| Fan Motor | Туре | | | 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) |
| riping Connections | Gas | Outer Dia. | mm (inch) | Ø 12.7 (1/2) | Ø 15.88 (5/8) |
| Piping Length | | Rated | m | 5 | 5 |
| riping Lengun | | Max. | m | 30 | 50 |
| Maximum Height Differ | rence (ODU ~ IDU) | Max. | m | 15 | 30 |
| Indoor | | | I I with | ATNQ18GPLT1 | ATNQ24GPLT1 |
| Panel Name | | | Unit | PT-UMC1 / PT-MCHW0* | PT-UMC1 / PT-MCHW0* |
| Power Supply | | | V,Ø,Hz | 220-240, 1, 50 | 220-240, 1, 50 |
| Dimensions | Net | $W \times H \times D$ | mm | 840 × 204 × 840 | 840 × 204 × 840 |
| Dimensions | Decoration Panel | $W \times H \times D$ | mm | 950 × 25 × 950 | 950 × 25 × 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 | Туре | | | BLDC | BLDC |
| Safety Device | | | | Fuse | Fuse |
| Sound Pressure Level | | H/M/L | dB(A) | 36 / 34 / 32 | 38 / 36 / 34 |

^{*} Old Panel: PT-UMC1 / New Panel: PT-MCHW0









32.0 / 30.0 / 28.0

BLDC

Fuse

44 / 42 / 40

ATUQ36GNLT1

ATUQ48GMLT1 ATUQ54GMLT1

32.0 / 30.0 / 28.0

BLDC

Fuse

44 / 42 / 40

29

COOLING ONLY

19.0 / 17.0 / 15.0

BLDC

Fuse

41 / 38 / 36

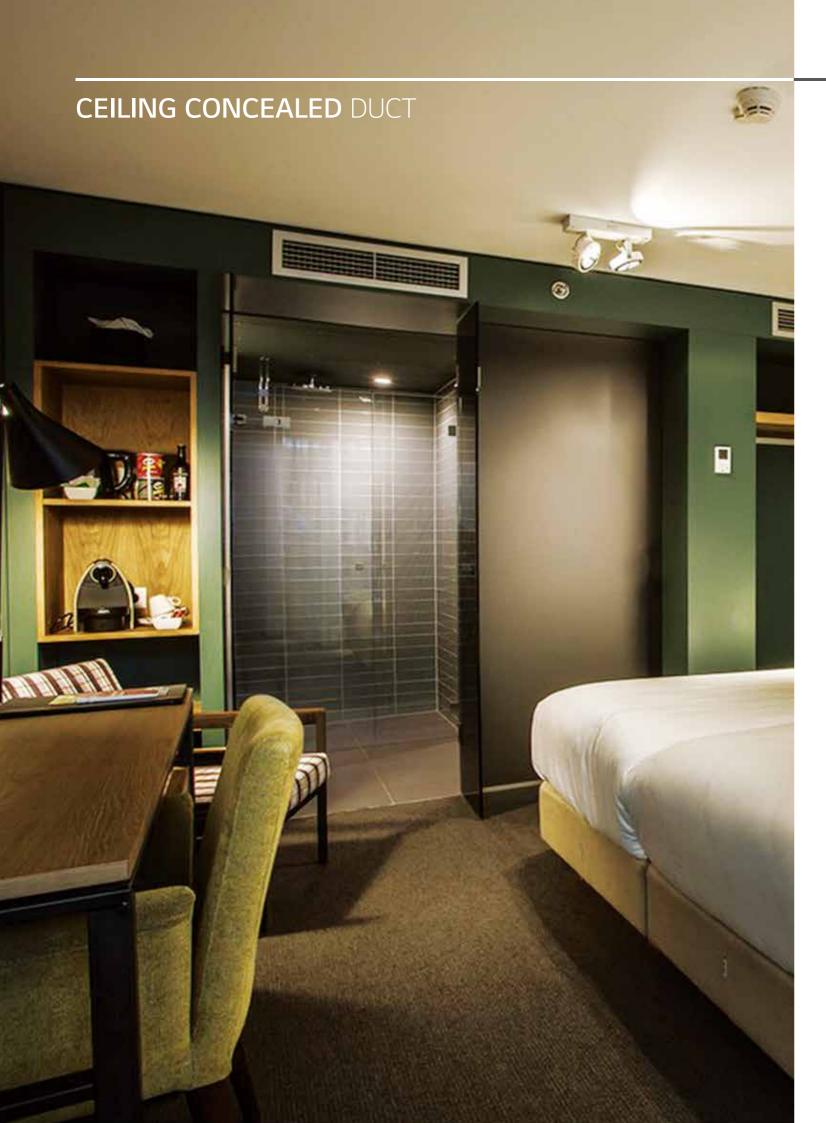
| ATUQ30GPLT1 | ATUQ36GNLT1 | ATUQ48GMLT1 | ATUQ54GMLT1 |
|--------------------|---------------------|---------------------|---------------------|
| | | | |
| ATNQ30GPLT1 | ATNQ36GNLT1 | ATNQ48GMLT1 | ATNQ54GMLT1 |
| 3.44~8.2~9.38 | 4.7~9.99~11.13 | 5.392~13.48~15.53 | 6.328~15.82~16.7 |
| 11760~28000~32000 | 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 × 834 × 330 | 950 × 834 × 330 | 950 × 1,380 × 330 | 950 × 1,380 × 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 |
| T-UMC1 / PT-MCHW0* | PT-UMC1 / PT-MCHW0* | PT-UMC1 / PT-MCHW0* | PT-UMC1 / PT-MCHW0* |
| 220-240, 1, 50 | 220-240, 1, 50 | 220-240, 1, 50 | 220-240, 1, 50 |
| 840 × 204 × 840 | 840 × 246 × 840 | 840 × 288 × 840 | 840 × 288 × 840 |
| 950 × 25 × 950 | 950 × 25 × 950 | 950 × 25 × 950 | 950 × 25 × 950 |
| 20.5 | 22.2 | DE E | 25.5 |

23.0 / 21.0 / 19.0

BLDC

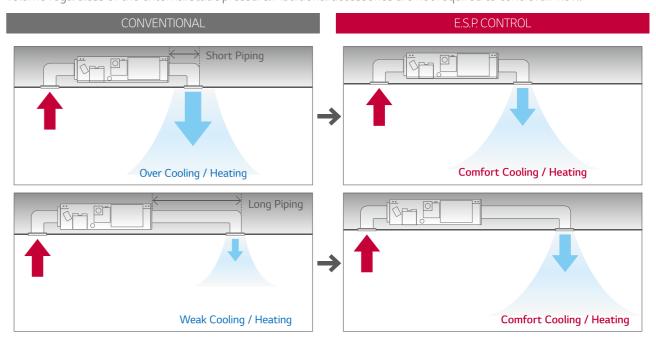
42 / 40 / 38

⁻ 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



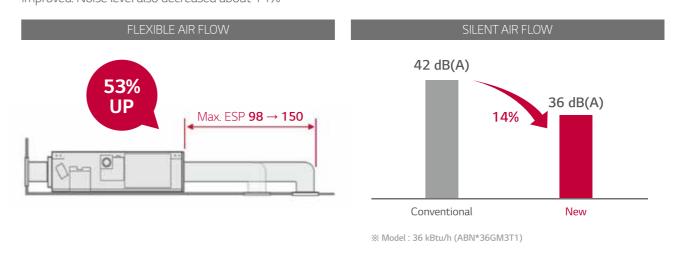
E.S.P. (EXTERNAL STATIC PRESSURE) CONTROL

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



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

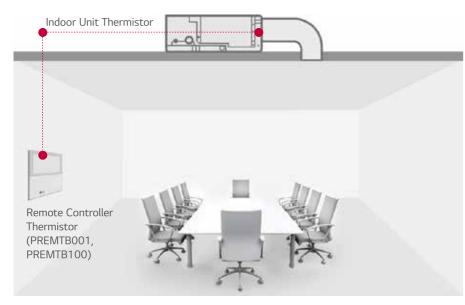
With new indoor tool, connectable duct length is more longer than current running unit due to the maximum E.S.P. is improved. Noise level also decreased about 14%



CEILING CONCEALED DUCT

TWO THERMISTORS CONTROL

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



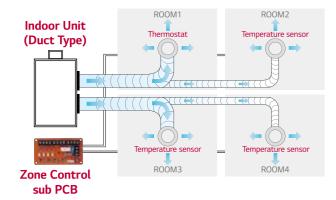
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users

OPERATION FOR MULTIPLE ROOMS

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

Zone control features

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



* This function is not applicable in all countries.

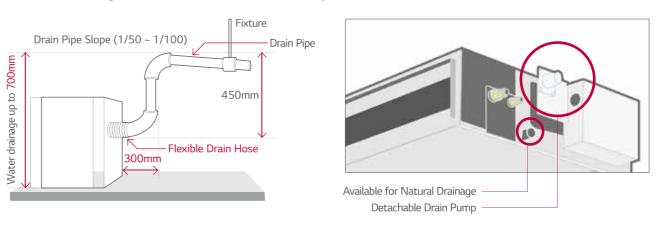
MINIMIZED HEIGHT

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



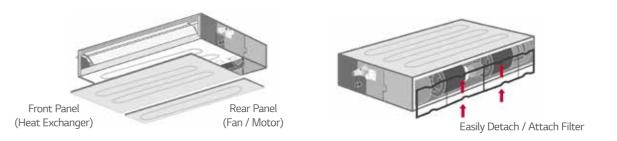
HIGH HEAD DRAIN PUMP

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



EASY SERVICE & MAINTENANCE

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



CEILING CONCEALED DUCT - **HIGH EFFICIENCY** (INVERTER / 1PHASE)

ABUQ18GM1T1 / ABUQ24GM1T1 / ABUQ30GM1T1 / ABUQ36GM3T1 / ABUQ48GM3T1 / ABUQ54GM3T1



COOLING ONLY

| Combination | Outdoor un | it | Unit | ABUQ18GM1T1 | ABUQ24GM1T1 | |
|--------------------------------|-----------------|-----------------------|-----------|---------------------|--------------------|--|
| Indoor un | | | Unit | ABNQ18GM1T1 | ABNQ24GM1T1 | |
| | | | kW | 2.1~5.27~5.86 | 2.81~7.03~7.91 | |
| Cooling Capacity 1) | | Min. ~ Rated ~ Max. | Btu/h | 7200~18000~20000 | 9600~24000~27000 | |
| Caaliaa Caaasit (2) | | Min Dated May | kW | 4.53 | 5.86 | |
| Cooling Capacity ²⁾ | | Min. ~ Rated ~ Max. | Btu/h | 15,480 | 20,000 | |
| Power Input | Cooling 1) | Rated | kVV | 1.55 | 2.06 | |
| -ower input | Cooling 2) | Rated | kVV | 1.72 | 2.32 | |
| ER / 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 (inc | luded Earth) | | No. × mm² | 3C × 2.5 | 3C × 2.5 | |
| Casing Color | | | - | Warm Gray | Warm Gray | |
| Dimensions | Net | $W \times H \times D$ | mm | 770 × 545 × 288 | 870 × 650 × 330 | |
| Veight | Net | | kg | 34.3 | 43.3 | |
| Compressor | Туре | | - | Twin Rotary | Twin Rotary | |
| Refrigerant | gerant Type | | - | R410A | R410A | |
| an Motor | Туре | | - | 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) | |
| aping connections | Gas | Outer Dia. | mm (inch) | Ø 12.7 (1/2) | Ø 15.88 (5/8) | |
| Piping Length | | Rated | m | 5 | 5 | |
| riping Lengun | | Max. | m | 30 | 50 | |
| Maximum Height Differe | ence (ODU ~ IDL | J) Max. | m | 15 | 30 | |
| ndoor | | | Unit | ABNQ18GM1T1 | ABNQ24GM1T1 | |
| Гуре | | | - | Ceiling Concealed D | Duct-Mid. Pressure | |
| Power Supply | | | V,Ø,Hz | 220-240, 1, 50 | 220-240, 1, 50 | |
| Dimensions | Net | $W \times H \times D$ | mm | 900 × 270 × 700 | 900 × 270 × 700 | |
| Veight | 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 | |
| All Flow Rate | | Max | m³/min | 23.8 | 23.8 | |
| External static pressure | High Mode_Fa | ctory Set | Pa (mmAq) | 6 | 6 | |
| an Motor | Туре | | - | BLDC | BLDC | |
| Safety Device | | | - | Fuse | Fuse | |
| Sound Pressure Level | | H/M/L | dB(A) | 34 / 32 / 30 | 37 / 35 / 32 | |

- 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











ABUQ36GM3T1

ABUQ48GM3T1

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 × 834 × 330 | 950 × 834 × 330 | 950 × 1,380 × 330 | 950 × 1,380 ×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 × 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 |



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.



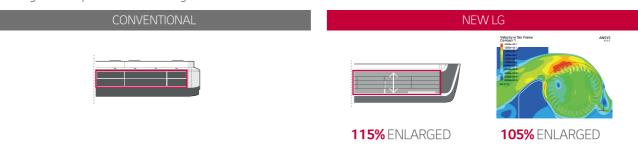


Black Vane

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.



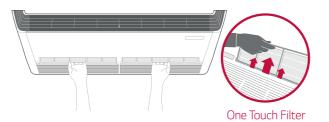
15M LONG AIR FLOW

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



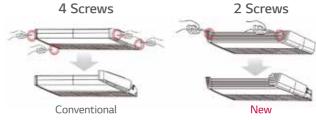
ONE TOUCH FILTER CHANGING

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



EASY INSTALLATION

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



CEILING SUSPENDED UNIT - **HIGH EFFICIENCY** (INVERTER / 1PHASE)

AVUQ18GM1T1 / AVUQ24GM1T1 / AVUQ30GM1T1 / AVUQ36GM2T1 / AVUQ48GM2T1 / AVUQ54GM2T1



COOLING ONLY

| Cambination | Outdoor unit Indoor unit | | Unit | AVUQ18GM1T1 | AVUQ24GM1T1 |
|--|--------------------------|-----------------------|----------------|------------------------|--------------------|
| Combination | | | Unit | AVNQ18GM1T1 | AVNQ24GM1T1 |
| | | I | kW | 2.1~5.27~5.86 | 2.81~7.03~7.91 |
| Cooling Capacity 1) | | Min. ~ Rated ~ Max. | Btu/h | 7200~18000~20000 | 9600~24000~27000 |
| 2 1: 6 : 3) | | 14: 5 - 1 14 | kW | 4.37 | 6.04 |
| Cooling Capacity 2) | | Min. ~ Rated ~ Max. | Btu/h | 14,900 | 20,610 |
| D | Cooling 1) | Rated | kW | 1.55 | 2.06 |
| Power Input | 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 (in | cluded Earth) | | No. × mm² | 3C × 2.5 | 3C × 2.5 |
| Dimensions | Net | $W \times H \times D$ | mm | 770 × 545 × 288 | 870 × 650 × 330 |
| Weight | Net | | kg | 34.3 | 43.3 |
| Compressor | Туре | | - | Twin Rotary | Twin Rotary |
| Refrigerant | Туре | | - | R410A | R410A |
| | Air Flaur Data | Rated | m³/min × No. | 28 × 1 | 50 × 1 |
| Fan | Air Flow Rate | Rated | ft³/min × No. | 989 × 1 | 1,766 × 1 |
| Fan Motor | Туре | | - | 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) |
| Piping Connections | Gas | Outer Dia. | mm (inch) | Ø 12.7 (1/2) | Ø 15.88 (5/8) |
| Piping Length | | Rated | m | 5 | 5 |
| riping Lengui | | Max. | m | 30 | 50 |
| Maximum Height Difference (ODU ~ IDU) Max. | | | m | 15 | 30 |
| Indoor | | Unit | AVNQ18GM1T1 | AVNQ24GM1T1 | |
| Туре | | | - | Ceiling Suspended Unit | |
| Power Supply | | V,Ø,Hz | 220-240, 1, 50 | 220-240, 1, 50 | |
| Dimensions | Net | $W \times H \times D$ | 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 | Туре | | - | BLDC | BLDC |
| Sound Pressure Level | | H/M/L | dB(A) | 40 / 38 / 37 | 44 / 43 / 41 |

- 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







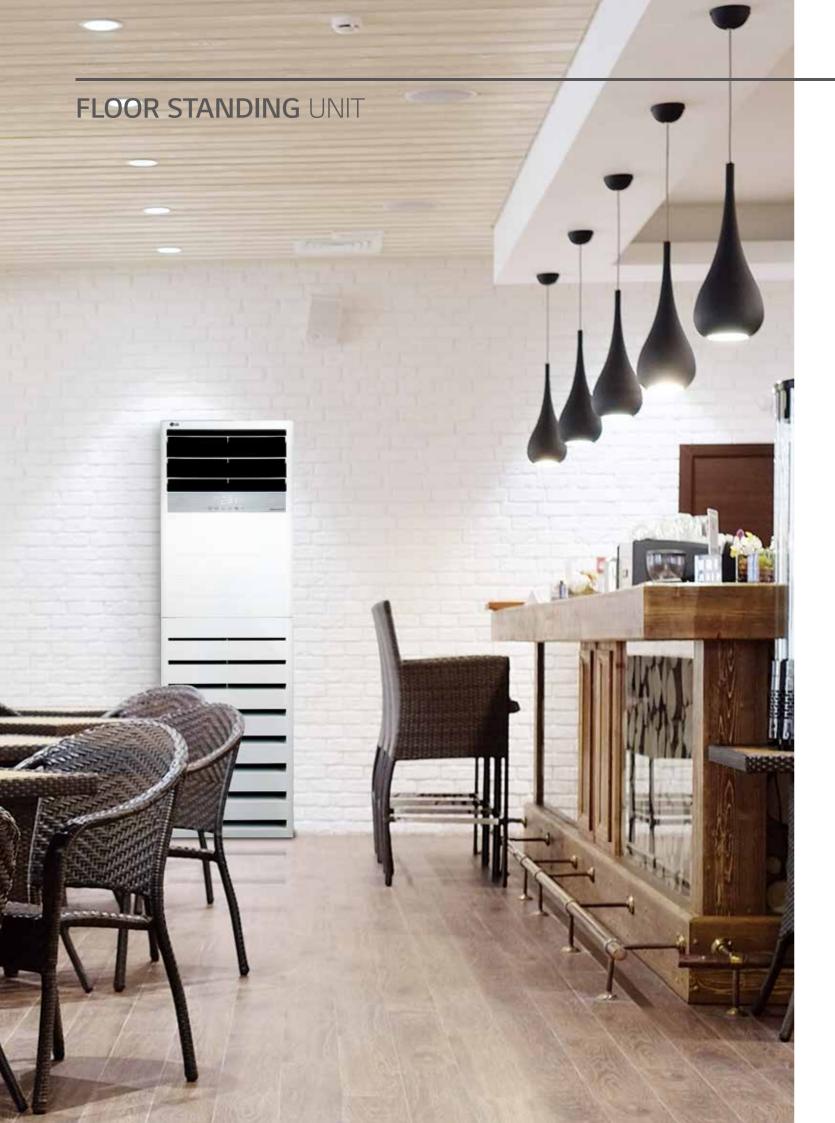


AVUQ36GM2T1

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 × 834 × 330 | 950 × 834 × 330 | 950 × 1,380 × 330 | 950 × 1,380 × 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 Susp | pended 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 |



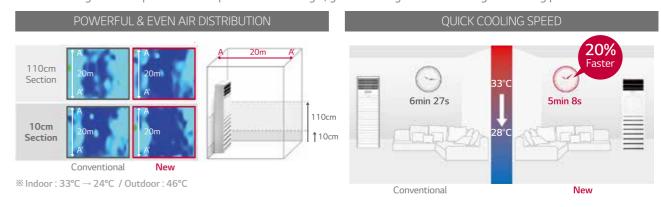
STYLISH DESIGN

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

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



FLOOR STANDING UNIT - HIGH EFFICIENCY





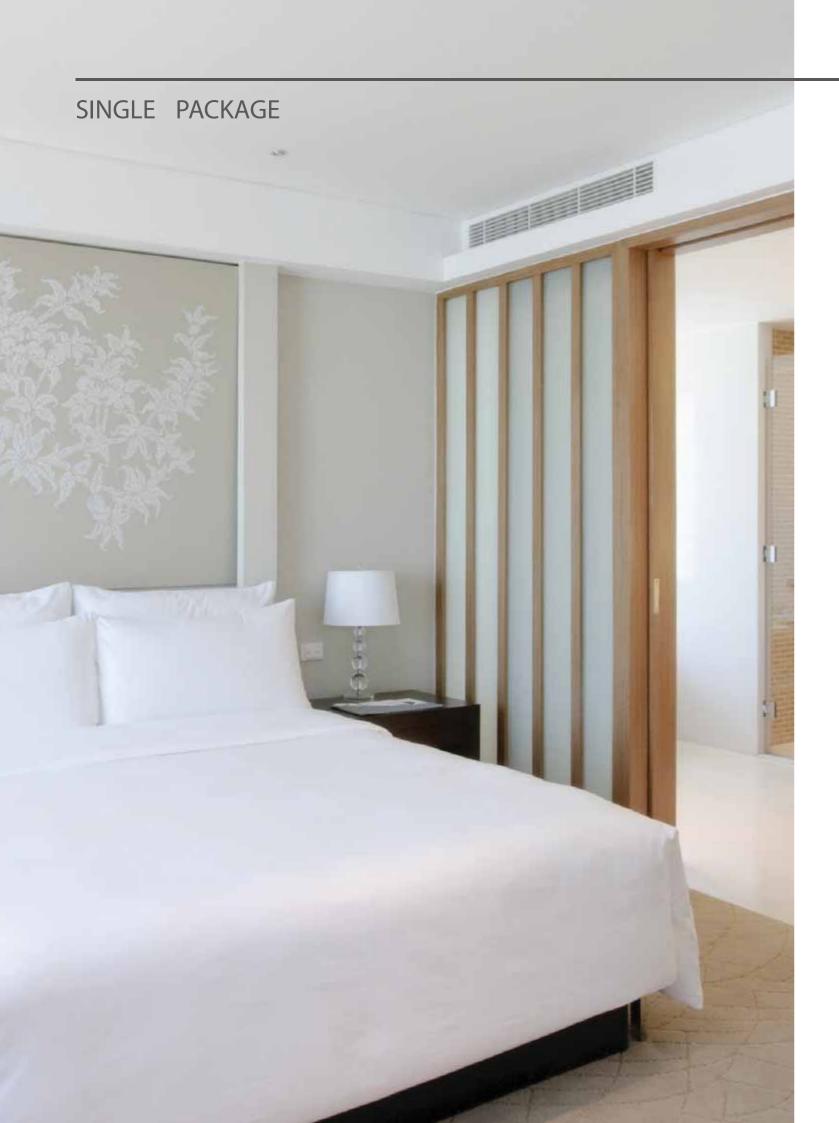
APUQ50LT3E0 (Cooling Only) APUQ100LFT0

COOLING ONLY

| | Outdoor unit Indoor unit | | | APUQ50LT3E0 | APNQ100LFT0 APUQ100LFT0 | |
|-------------------------------------|--------------------------|-----------------------|--------------|-----------------------------|---------------------------|--|
| Combination | | | Unit | APNQ50LT3E0 | | |
| | 6 1: 1) | Min. ~ Rated ~ Max. | kW | 13.51 | 28.43 | |
| | Cooling 1) | Min. ~ Rated ~ Max. | Btu/h | 46,100 | 97,000 | |
| ~ ·. | 6 11 2) | Rated | kW | 11.72 | 22.57 | |
| Capacity | Cooling 2) | Rated | Btu/h | 40,000 | 77,000 | |
| | 11 | Min. ~ Rated ~ Max. | kW | - | - | |
| | Heating | Min Rated - Max. | Btu/h | - | - | |
| | Cooling 1) | Rated | kW | 3.88 | 11.20 | |
| Power Input | Cooling 2) | Rated | kW | 4.65 | 10.80 | |
| | Heating 1) | Rated | kW | - | - | |
| EER / COP | Cooling 1) | | W/W | 3.48 | 2.54 | |
| Outdoor | | | Unit | APU 50LT3E0 | APUQ100LFT0 | |
| Power Supply | | | V,Ø,Hz | 380-415, 3, 50 | 380-415, 3, 50 | |
| Power Supply Cable (included Earth) | | | No. × mm² | 5C × 2.5 | 5C × 6.0 | |
| Casing Color | | | - | Warm Gray | = | |
| Dimensions | Net | $W \times H \times D$ | mm | 950 x 1,380 x 330 | 1,090 × 1,625 × 380 | |
| Net Weight Body | | kg | 89.0 (196.2) | 153 (337.3) | | |
| Compressor Type | | - | Twin Rotary | BLDC INV Scroll | | |
| Refrigerant | Type | | - | R410A | R410A | |
| an Motor | Туре | | - | BLDC | BLDC | |
| | Cooling | Rated | dB(A) | 62 | 60 | |
| Sound Pressure Level | Heating | Rated | dB(A) | - | - | |
| Naine Commentions | Liquid | Outer Dia. | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | |
| Piping Connections | Gas | Outer Dia. | mm (inch) | Ø19.05 (3/4) | Ø 22.2 (7/8) | |
| Piping Length | | Max. | m | 30 (98.4) | 50 (164.04) | |
| Лахітит Height Differ | ence (ODU ~ IDU) | Max. | m | 20 (65.6) | 30 (98.43) | |
| ndoor | | | Unit | APNQ50LT3E0 | APNQ100LFT0 | |
| Parties Cupply | | | V,Ø,Hz | 220-240, 1, 50 | 380-415, 3, 50 | |
| Power Supply | | | | 220,1,60 | 380-415, 3, 60 | |
| Dimensions | Podu | $W \times H \times D$ | mm | 590 × 1,840 × 440 | 1,050 × 1,880 × 495 | |
| | Body | $W \times H \times D$ | inch | 23-7/32 × 72-7/16 × 17-5/16 | 41-1/4 × 74-7/16 × 19-1/8 | |
| Net Weight | | kg (lbs) | 47 (103.6) | 113 (249) | | |
| an | Air Flow Rate | SH/H/M/L | m³/min | 37 / 33 / 28 / 24 | 68 / 61 / - / 50 | |
| an Motor | Туре | | - | BLDC | BLDC | |
| Savad Darasana I | Cooling | SH/H/M/L | dB(A) | 54 / 51 / 49 / 47 | 60 / 57 / - / 53 | |
| Sound Pressure Level | Heating | SH/H/M/L | dB(A) | - | = | |

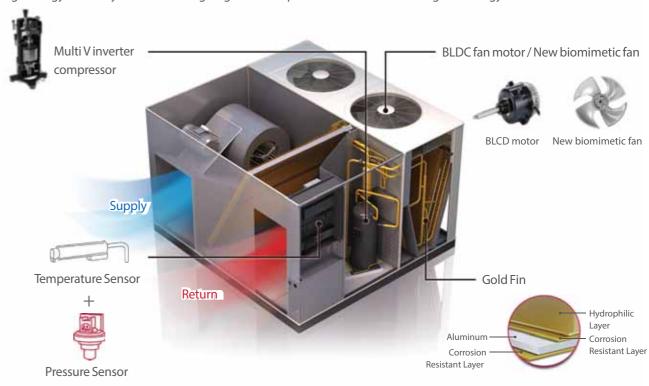
APUQ50LT3E0 (Cooling Only) / APUW36GT3S1 / APUW50GT3E0 / APUW50LT3E0 / APUW100LFT0

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
- 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



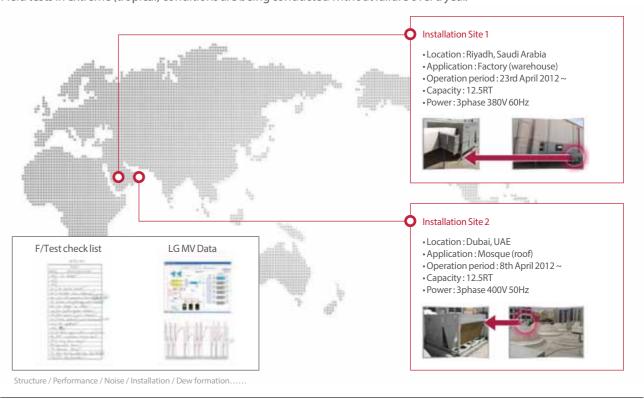
ADVANCED KEY COMPONENTS FOR HIGH ENERGY EFFICIENCY

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



RELIABLE PERFORMANCE

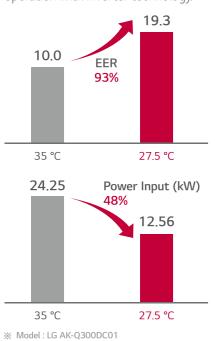
Field tests in extreme (tropical) conditions are being conducted without failure over a year.

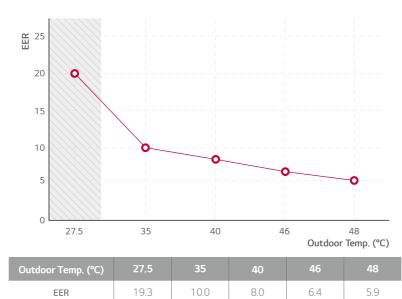


SINGLE PACKAGE

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.





24.25

30.12

35.98

37.1

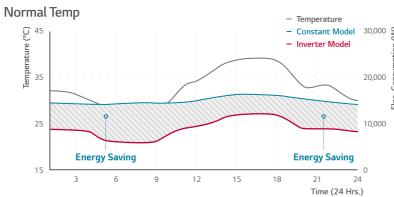
BENEFITS FOR CUSTOMER

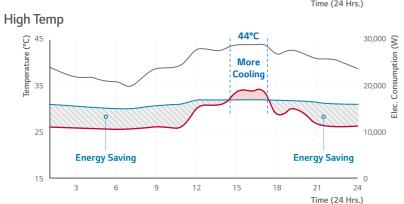
Daily Energy Saving ratio compared to constant model (April 40%, Aug 20%)

→ KSA, Madinah, real temperature based, LG DUAL Inverter elec. consumption simulation

Power Input (kW)

12.56



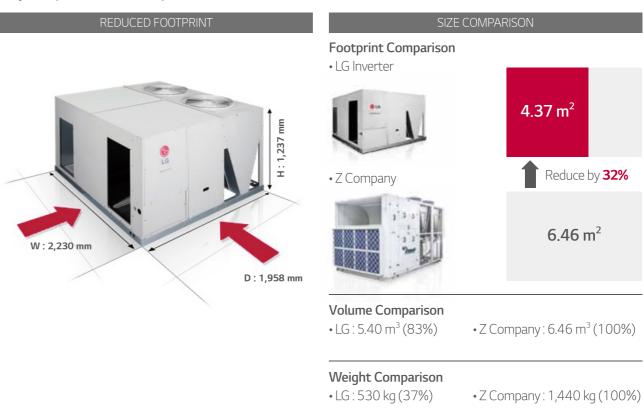


Energy Efficiency

| | | Apr | | Aug | | | |
|-------------|-------------------------------|----------|----------|------------------|----------|----------|--|
| Time | Outside Elec. Consumption (W) | | Outside | Elec. Con: (V | | | |
| | Temp (°C) | Constant | Inverter | Temp (°C) | Constant | Inverter | |
| 3:00 AM | 31 | 1429 | 847 | 37 | 1563 | 1091 | |
| 6:00 AM | 28 | 1412 | 609 | 36 | 1540 | 1075 | |
| 9:00 AM | 28 | 1412 | 609 | 39 | 1607 | 1122 | |
| 12:00 PM | 34 | 1496 | 935 | 43 | 1699 | 1545 | |
| 3:00 PM | 39 | 1607 | 1181 | 44 | 1723 | 1896 | |
| 6:00 PM | 39 | 1607 | 1201 | 42 | 1674 | 1374 | |
| 9:00 PM | 33 | 1473 | 906 | 41 | 1652 | 1153 | |
| 12:00 AM | 30 | 1406 818 | | 39 | 1607 | 1122 | |

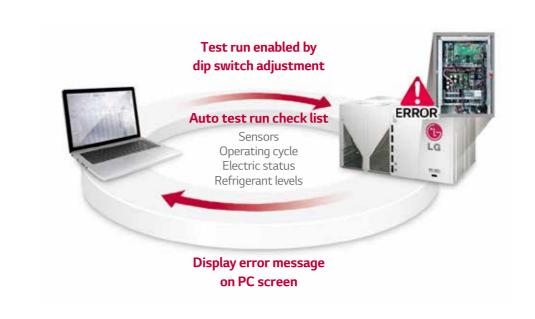
COMPACT SIZE

Easy transportation and less space for installation.



AUTOMATIC TEST RUN

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



SINGLE PACKAGE



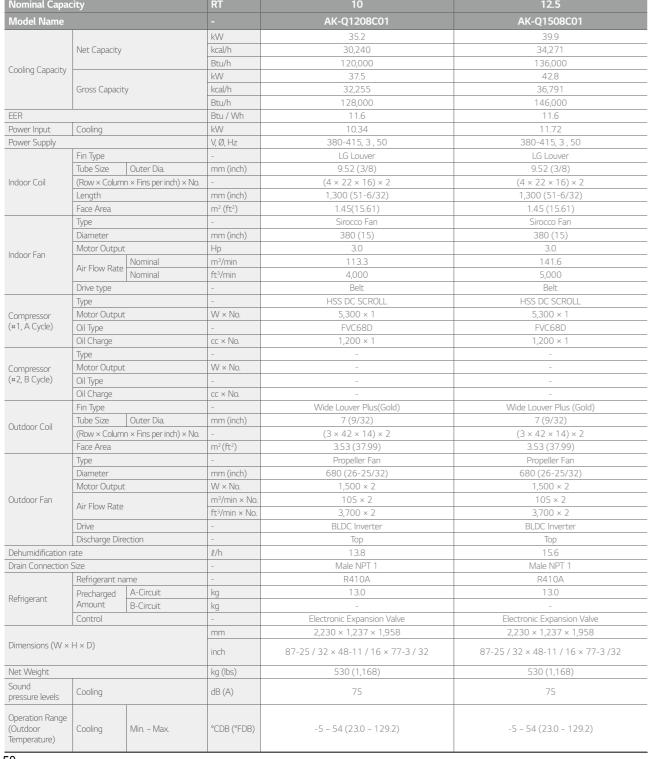
| Nominal Capad | city | | RT | | 4 | |
|--------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|------------------------|------------------------|------------------------|
| Model Name | | | - | AK-Q036GH50 | AK-Q048GH50 | AK-Q060GH50 |
| | | | kW | 10.26 | 13.63 | 17.35 |
| | Net Capacity | | kcal/h | 8,820 | 11,718 | 14,918 |
| | | | Btu/h | 35,000 | 46,500 | 59,200 |
| Cooling Capacity | | | kW | 10.6 | 14.1 | 17.6 |
| | Gross Capacity | | 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 |
| orrer input | 1 00019 | | V, Ø, Hz | 220-240, 1, 50 | 220-240, 1, 50 | 220-240, 1, 50 |
| Power Supply | | | V, Ø, Hz | 220, 1, 60 | 220, 1, 60 | 220, 1, 60 |
| | 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) |
| Indoor Coil | | n × Fins per inch) × No. | - | (3 × 46 × 17) × 1 | (3 × 46 × 17) × 1 | (3 × 46 × 17) × 1 |
| | Face Area | iii x i iis per ii eriy x i vo. | m² (ft²) | 0.53 (5.71) | 0.53 (5.71) | 0.53 (5.71) |
| | Type | | - | Centrifugal Blower Fan | Centrifugal Blower Fan | Centrifugal Blower Fan |
| | Diameter | | mm (inch) | 285 (11.2) | 285 (11.2) | 285 (11.2) |
| | Motor Output | + | W × No. | 257W × 1 | 339W × 1 | 350W × 1 |
| Indoor Fan | ινιστοι σατρα | Nominal | m³/min | 34 | 45.3 | 49.8 |
| | Air Flow Rate | Nominal | ft³/min | 1,200 | 1,600 | 1,760 |
| | Dei sa te sa a | NOMINAL | 113/111111 | Direct | Direct | 7,760 Direct |
| | Drive type | | - | | BLDC INV Twin Rotary | |
| _ | Туре | | - NA/ NI- | BLDC INV Twin Rotary | J | BLDC INV Twin Rotary |
| Compressor | Motor Output | | W × No. | 4,000 × 1 | 4,000 × 1 | 4,000 × 1 |
| (#1, A Cycle) | Oil Type | | - | FVC68D | FVC68D | FVC68D |
| | Oil Charge | | cc × No. | 1,300 × 1 | 1,300 × 1 | 1,300 × 1 |
| | Туре | | - | - | - | - |
| Compressor | Motor Output | | W × No. | - | - | - |
| (#2, B Cycle) | Oil Type | | - | - | - | - |
| | Oil Charge | | cc × No. | - | - | - |
| | Fin Type | | - | - | - | - |
| Outdoor Coil | Tube Size Outer Dia. | | mm (inch) | 7 (9/32) | 7 (9/32) | 7 (9/32) |
| Jaca | (Row × Column × Fins per inch) × No. | | - | (2 × 44 × 17) × 1 | (2 × 44 × 17) × 1 | (2 × 44 × 17) × 1 |
| | Face Area | | m ² (ft ²) | 1.33 (14.28) | 1.33 (14.28) | 1.33 (14.28) |
| | Туре | | - | 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 |
| Outdoor Fan | Air Flow Rate | | m³/min × No. | - | - | - |
| | | | ft³/min × No. | - | - | - |
| | Drive | | - | BLDC Inverter | BLDC Inverter | BLDC Inverter |
| | Discharge Direction | | - | Тор | Тор | Тор |
| Dehumidification r | ate | | ℓ/h | 2.23 | 3.47 | 5.58 |
| Orain Connection | Size | | - | Male NPT 3/4 | Male NPT 3/4 | Male NPT 3/4 |
| | Refrigerant na | ame | - | R410A | R410A | R410A |
| Defriegen | Precharged | A-Circuit | kg | 3.6 | 3.6 | 3.6 |
| Refrigerant | Amount | B-Circuit | kg | - | - | - |
| | Control | | - | EEV | EEV | EEV |
| | | mm | 1,280 × 1,065 × 1,110 | 1,280 × 1,065 × 1,110 | 1,280 × 1,065 × 1,110 | |
| Dimensions (W \times H \times D) | | | 50-13 / 32 x 41-29 / | 50-13 / 32 x 41-29 / | 50-13 / 32 × 41-29 / | |
| · | | | inch | 32 x 43-23 / 32 | 32 x 43-23 / 32 | 32 × 43-23 / 32 |
| Net Weight | | | kg (lbs) | 174 | 174 | 174 |
| Sound pressure levels | Cooling | | dB(A) | 75 | 75 | 75 |
| Operation Range Outdoor | Cooling | Min. ~ Max. | °CDB (°FDB) | -5 ~ 54 (23.0 ~ 129.2) | -5 ~ 54 (23.0 ~ 129.2) | -5 ~ 54 (23.0 ~ 129.2) |
| Femperature) | Cooling | IVIII IVIAX | (100) | J - J4 (25.0 ~ 127.2) | J - J4 (23.0 ~ 123.2) | J - J4 (ZJ.U ~ 129.2) |



| Nominal Capacity | | RT | 6.5 | 7.5 | | |
|---|---------------------|--------------------------|------------------------------------|------------------------------------|----------------------------|--|
| Model Name | | - | AK-Q0788C01 | AK-Q0908C01 | | |
| | Net Capacity | | kW | 22.9 | 26.4 | |
| | | | kcal/h | 19,700 | 22,700 | |
| Cooling Capacity | | | Btu/h | 78,000 | 90,000 | |
| | | | kW | 24.0 | 27.5 | |
| | Gross Capacit | у | 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 | Power Supply | | V, Ø, Hz | 380-415, 3 , 50 | 380-415, 3 , 50 | |
| | Fin Type | | - | LG Louver | LG Louver | |
| | Tube Size | Outer Dia. | mm (inch) | 9.52 (3/8) | 9.52 (3/8) | |
| Indoor Coil | (Row × Colum | n × Fins per inch) × No. | - | (4 × 36 × 16) | (4 × 36 × 16) | |
| | Length | | mm (inch) | 916 (36-1/8) | 916 (36-1/8) | |
| | Face Area | | m ² (ft ²) | 0.84 (9.02) | 0.84 (9.02) | |
| | Туре | | - | Sirocco Fan | Sirocco Fan | |
| | Diameter | | mm (inch) | 331.6 (13.1) | 331.6 (13.1) | |
| Indoor Fan | Motor Output | | Нр | 1.5 | 1.5 | |
| IIIUUUI I ai i | Air Flow Rate | Nominal | m³/min | 73.6 | 85.0 | |
| | All Flow Rate | Nominal | ft³/min | 2,600 | 3,000 | |
| | Drive type | | - | Belt | Belt | |
| | Туре | | - | HSS DC SCROLL | HSS DC SCROLL | |
| Compressor | Motor Output | | W × No. | 5,300 × 1 | 5,300 × 1 | |
| (#1, A Cycle) | Oil Type | | - | FVC68D | FVC68D | |
| | Oil Charge | | cc × No. | 1,200 × 1 | 1,200 × 1 | |
| | Туре | | - | - | - | |
| Compressor | Motor Output | | W × No. | - | - | |
| (#2, B Cycle) | Oil Type | | - | - | - | |
| | Oil Charge | | cc × No. | - | - | |
| | Fin Type | | - | Wide Louver Plus(Gold) | Wide Louver Plus(Gold) | |
| Outdoor Cail | Tube Size | Outer Dia. | mm (inch) | 7.0 (9/32) | 7.0 (9/32) | |
| Outdoor Coil | (Row × Colum | n × Fins per inch) × No. | - | (3 × 44 × 14) | (3 × 44 × 14) | |
| | Face Area | | m ² (ft ²) | 2.08 (22.38) | 2.08 (22.38) | |
| | Туре | | - | 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 | |
| Outdoor Fan | Air Flaux Date | | m³/min × No. | 105 × 1 | 105 × 1 | |
| | Air Flow Rate | | ft³/min × No. | 3,700 × 1 | 3,700 × 1 | |
| | Drive | | - | BLDC Inverter | BLDC Inverter | |
| | Discharge Direction | | - | Тор | Тор | |
| Dehumidification i | rate | | ℓ/h | 8.5 | 9.9 | |
| Drain Connection | Size | | - | Male NPT 3/4 | Male NPT 3/4 | |
| | Refrigerant na | ame | - | R410A | R410A | |
| Defriesment | Precharged | A-Circuit | kg | 6.9 | 6.9 | |
| Refrigerant | Amount | 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 | 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) | |

SINGLE PACKAGE







| Nominal Capacity | | RT | 15 | 17.5 | 20 | 25 | |
|---|---------------------|--------------------------|--|--|--|--|----------------------------|
| Model Name | | | - | AK-Q1808C01 | AK-Q2108C01 | AK-Q2408C01 | AK-Q3008C01 |
| | | | kW | 52.8 | 61.5 | 70.6 | 80.9 |
| | Net Capacity | | kcal/h | 45,359 | 52,919 | 60,700 | 69,600 |
| | | | Btu/h | 180,000 | 210,000 | 241,000 | 276,000 |
| Cooling Capacity | | | kW | 54.2 | 64.2 | 73.6 | 85.0 |
| | Gross Capacit | V | kcal/h | 46,619 | 55,187 | 63,300 | 73,100 |
| | Gross capacit | y | Btu/h | 185,000 | 219,000 | 251,000 | 290,000 |
| EER | I | | Btu / Wh | 11.6 | 12.8 | 11.2 | 10.5 |
| Power Input | Cooling | | kW | 15.50 | 16.40 | 21.50 | 26.20 |
| Power Supply | Cooling | | V, Ø, Hz | 380-415, 3 , 50 | 380-415, 3 , 50 | 380-415, 3 , 50 | 380-415, 3 , 50 |
| rower supply | Ein Timo | | V, W, 1 1Z | LG Louver | LG Louver | LG Louver | LG Louver |
| | Fin Type | Outer Dia. | - (in ala) | | | | |
| Landaran Caril | Tube Size | | mm (inch) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) |
| Indoor Coil | - | n × Fins per inch) × No. | - (: 1) | (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 | | m ² (ft ²) | 2.18 (23.47) | 2.18 (23.47) | 2.18 (23.47) | 2.18 (23.47) |
| | Туре | | - | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Diameter | | mm (inch) | 457.2 (18) | 457.2 (18) | 457.2 (18) | 457.2 (18) |
| Indoor Fan | Motor Output | | Нр | 5.0 | 5.0 | 5.0 | 7.5 |
| | Air Flow Rate | Nominal | m³/min | 169.9 | 198.2 | 226.5 | 283.2 |
| | , III I IOW Hate | Nominal | ft³/min | 6,000 | 7,000 | 8,000 | 10,000 |
| | Drive type | | - | Belt | Belt | Belt | Belt |
| Тур | Туре | | - | HSS DC SCROLL | HSS DC SCROLL | HSS DC SCROLL | HSS DC SCROLL |
| Compressor | Motor Output | | W × No. | 4,200 × 1 | 5,300 × 1 | 5,300 × 1 | 5,300 × 1 |
| (#1, A Cycle) | Oil Type | | - | FVC68D | FVC68D | FVC68D | FVC68D |
| | Oil Charge | | cc × No. | 1,200 × 1 | 1,400 × 1 | 1,400 × 1 | 1,400 × 1 |
| | Туре | | - | HSS DC SCROLL | HSS DC SCROLL | HSS DC SCROLL | HSS DC SCROLL |
| Compressor | Motor Output | | W × No. | 4,200 × 1 | 5,300 × 1 | 5,300 × 1 | 5,300 × 1 |
| (#2, B Cycle) | Oil Type | | - | FVC68D | FVC68D | FVC68D | FVC68D |
| | Oil Charge | | cc × No. | 1,200 × 1 | 1,400 × 1 | 1,400 × 1 | 1,400 × 1 |
| | 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) |
| Outdoor Coil | (Row × Column | n × Fins per inch) × No. | - | (2 × 42 × 14) × 4 | (3 × 42 × 14) × 4 | $(3 \times 42 \times 14) \times 4$ | (3 × 42 × 14) × 4 |
| | Face Area | | m ² (ft ²) | 7.06 (75.99) | 7.06 (75.99) | 7.06 (75.99) | 7.06 (75.99) |
| | Туре | | - | 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 |
| Outdoor Fan | Motor Output | | m³/min × No. | 105 × 4 | 105 × 4 | 105 × 4 | 105 × 4 |
| Outdoor Fari | Air Flow Rate | | ft³/min × No. | 3.700 × 4 | 3,700 × 4 | 3,700 × 4 | 3.700 × 4 |
| | Drivo | | 10 /111111 × 140. | BLDC Inverter | BLDC Inverter | BLDC Inverter | BLDC Inverter |
| | Drive | | - | | Top | Top | Top |
| Dala maidification a | Discharge Direction | | | Top | ' | | ' |
| Dehumidification r | | | ℓ/h | 20.7 Male NPT 1 | 24.2 Male NPT 1 | 26.18 Male NPT 1 | 29.82 Male NPT 1 |
| Dialil Colliection | | ımo. | | | | | |
| | Refrigerant na | | - | R410A | R410A | R410A | R410A |
| Refrigerant | Precharged | A-Circuit | kg | 9.0 | 12.0 | 12.0 | 12.0 |
| . terrigeran | Amount | 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 | 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) |



DUCT Control **Solution**

CENTRAL CONTROL SOLUTION



- 5" Touch controller
- PI485GW required • Max 64 Indoor unit

Yearly schedule

• Individual controller Lock

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



ACP 5

- Max. 256 unit
- Individual controller Lock
- PC, Smartphone, Tablet Control Operation log
- Yearly schedule • BACnet / Modbus Gateway
- Floor map view



AC Smart 5

- Max. 128 unit
- 10.2" touch
- Yearly schedule
- BACnet / Modbus Gateway
- Premium





Standard II



Standard III (4.3" color)



INDIVIDUAL CONTROLLER

Wireless



LG Wi-Fi MODEM

AC Ez touch

- Max. 64 unit
- Individual controller Lock Operation log

0

• Floor map view

- 5" touch Yearly schedule

BMS PROTOCOL GATEWAY



LonWorks

ETC. ACCESSORIES



Dry Contact



PI485GW



LG Electronics

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

Distributed by



FORTUNE
INTERNATIONAL
TRDG. CO. L.L.C

website: www.fortune.ae

Head Office - Sharjah, P.O. Box: 25818, U.A.E
T.:+9716 555 36 77 F.:+971 6 559 46 77
Branch Office - Dubai, P.O. Box: 92807, U.A.E
T.:+9714 258 74 77 F.:+9714 258 74 78
Branch Office - Abu Dhabi, P.O. Box 133666,U.A.E
T:+9712-5500127, F:+9712-5500129

website: www.fortune.ae

Head Office - Sharjah, P.O. Box: 25818, U.A.E
T.:+9716 555 36 77 F.:+9716 4559 46 77

Branch Office - Dubai, P.O. Box: 2580, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25818, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25818, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25818, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25818, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25818, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25807, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25807, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25807, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25807, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25807, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25807, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25807, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77

Branch Office - Dubai, P.O. Box: 25807, U.A.E
T.:+9716 555 36 77 F.:+9716 559 46 77