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Warranty Brief

- All LG Electronics Air Conditioning Units are covered by a 5-Year Parts and Labour Warranty when used in Residential Applications. Commercial Applications attract a 2-Year Parts and Labour Warranty.*
- Air Conditioning units carry an on-site warranty.*

*Further conditions apply, see the Warranty Card for further information.

ISO 9001 ISO 14001

LG Electronics Changwon Facility Achieved ISO9001 Certification Under Series 9000 of International Standard Organization(ISO) Based on Quality Systems For Design & Manufacture of Air Conditioners, Hermetic Refrication Compressors.

Due to LG's policy of continuous improvement and innovation, some specifications may change without notice.
Please check with your retailer / AC specialist prior to purchase.

Disclaimer

The descriptions and specifications in this brochure are relevant as at the date of publication.
In the interest of product development, LG Electronics reserves the right to carry out alterations and improvements to products and specifications. Future releases of products, accessories and parts for them may differ from, and may not be compatible with current versions. As it may be difficult to determine the exact nature of a product from its depiction in this brochure, LG Electronics strongly recommends that you confirm with your retailer that the product shown or described in this brochure meets your requirements before you purchase the product.

AUS-DU111

LG AIR CONDITIONERS 2011
Ducted Systems
Enjoy Clean, Quiet, and Comfortable Air Conditioning with LG

LG
Life's Good

Enjoy Clean, Quiet, and Comfortable Air Conditioning with LG

Our Mission

To create an optimal environment for people to live, work, meet and relax
by providing energy efficient, quiet, simple to use and reliable air conditioning solutions.

Complete Solution

LG has a comprehensive range of domestic and commercial air conditioning systems that are designed to suit any sized building or space, from a small apartment to a multi story building, LG has the air conditioning solution.

World Leader

As a world leader in air conditioning technology and largest manufacturer of air conditioners in Korea, LG has invested millions of dollars in research and development to produce energy efficient, quiet, simple to use and reliable air conditioning products.

Why buy LG Air Conditioners?

Intelligent Design

Each LG Air Conditioner has been designed with the latest technologies to ensure optimum comfort. Advancements in inverter technology mean our air conditioners are more energy efficient than non inverter models as well as reliable and easy to install.

But air conditioners aren't just about technology. The air conditioner is a fixture in the home and its appearance is just as important as a piece of furniture. That's why our new Ducted System line up incorporates functionality with design. The optional Deluxe Wall Controller comes in a sleek, modern design to suit the walls of even the most stylish homes and it has a backlit touchscreen panel for user friendly operation.

Deluxe Controller Option

The beautiful design of the new Deluxe Controller adds a touch of elegance to any interior. It boasts several stand out features such as a backlit LCD touch screen, a large and easy to read display, optional easy wall control with optional integrated zone control feature.

Wide Range

Over many years of development, the range of LG Air Conditioners has continued to grow and we now have a range to suit almost all tastes, needs and budgets!

We have taken all that we have learnt in the residential market and applied it to our commercial products. So not only do we provide air conditioned comfort in homes, but we also have air conditioning systems to suit office blocks and other commercial structures. From small air conditioners for apartments to large systems for Multi-Storey buildings, LG has an air conditioner for everyone.

Enjoy Clean, Quiet, and Comfortable Air Conditioning with LG

Ducted Split System

LG has a ducted air conditioner to suit any type of home or office.

Model Line-up

Ducted Split System	Model Name		Min	Rating	Max
	Indoor_ B09AWYN6LS Outdoor_B09AWYU6LS	Cooling: Heating:	1.2 1.2	2.4 3.2	3.0 4.5
	Indoor_ B12AWYN6LS Outdoor_B12AWYU6LS	Cooling: Heating:	1.2 1.2	3.4 4.0	3.8 5.0
	Indoor_ B18AWYN6LS Outdoor_B18AWYU6LS	Cooling: Heating:	1.7 1.7	5 5.8	5.6 6.3
	Indoor_ B18AWYNGMH Outdoor_B18AWYUGMH	Cooling: Heating:	2.5 3.0	5.0 6.0	6.0 7.2
	Indoor_ B24AWYNGMH Outdoor_B24AWYUGMH	Cooling: Heating:	2.84 3.2	7.1 8.0	7.81 8.8

Outdoor Unit

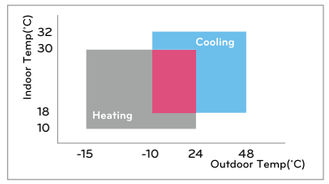
Inverter Technology

What is Inverter Technology?

Inverter technology refers to the compressor within the outdoor unit of the air conditioner. The two most common types of compressors are the fixed speed compressor and the variable speed (inverter) compressor. The fixed speed will run at 100% of its capacity and will stop and start automatically to maintain the desired temperature.
An inverter compressor will vary its speed in order to maintain a consistent temperature.

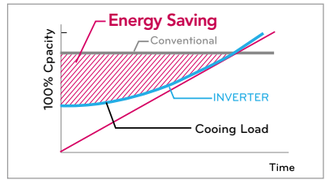
More Powerful

With a wider range of temperature modes for heating and cooling, the inverter is able to operate in even the most extreme outdoor temperatures. An inverter compressor can also operate faster than non-inverter air conditioners thus allowing the air conditioner to reach the set temperature faster and bring you comfort sooner.



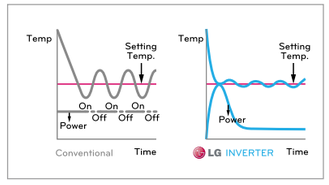
More Economical

An inverter's capacity will fluctuate in order to match the air conditioning requirements, so an inverter can be more energy efficient than a fixed speed compressor, as it does not stop and start its motor continually.



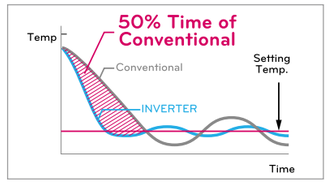
More Comfortable

When the air conditioner is initially activated to either heat or cool, the compressor will operate at maximum speed to reach the desired temperature quickly. Once the desired temperature is achieved, unlike non-inverter air conditioners that turn the compressor on and off, LG inverter units adjust and constantly vary the compressor speed to maintain the desired temperature with minimal fluctuation to ensure that your comfort is not compromised.



Quick Cooling & Heating

Inverter air conditioners can operate their compressors faster to give them more powerful performance. This results in being able to attain the desired temperature much faster in both heating and cooling modes than non-inverter air conditioners.



User Friendly Controller

Deluxe Wall Controller (optional)

LG's Deluxe Backlit Wall Controller is designed to suit even the most stylish interior. The touchscreen panel allows you to control the room's temperature with simplicity and style. It even has a backlit display so you can see it in the dark.
In homes with large floor areas, you can also have dual controls and can control up to 4 zone settings.

- Touch screen / LCD backlit • Room Temperature Display • Weekly program • Timer function • Child lock
- 24-Hour ON/ OFF Timer in 1 hour intervals • TEST RUN Mode • Self-Diagnosis function • 3-Step Fan Speed selection
- Operation Indication • Only 17mm thick • 2 Controllers can be connected to 1 indoor unit
- Group and central control at the same time

PDRCUDB0

LCD backlit display

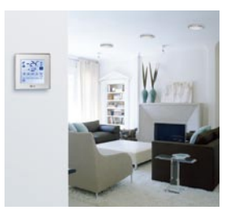
Enables you to easily see the control settings. The larger display allows you to program settings by simply touching the control.

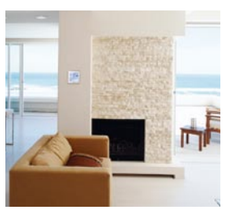
Zone Control

The new control allows you to control up to four different areas of your home. One touch of each zone will set the indicator on/off.

Modern Design

Todays homes demand elegance, state of the art technology and functionality. LG's new touch screen wall control delivers these features in a stylish and easy to use control unit.





Touch Screen Panel

Includes a variety of functions that allow you to control up to four zones. Program the controller to your desired comfort level with a touch of your finger. The new child lock setting prevents the settings from being tampered with.

Standard (WIDE) Wall Control (optional)

The operator can set the timing function of the air conditioner for a period of one week.

- Operating mode (On_Off/Fan speed/Mode/Temp.) • On / Off LED • Room temp. • Fan / Plasma / Swirl / Heater
- Vane control / Auto swing / Fan auto • E.S.P function • Reservation (Weekly / Simple) • Timer function
- Child lock • Electric failure compensation (Max 3 hours) • Wireless remocon receiver
- Main / Sub setting of indoor units (For override function) • 2 Controllers to 1 indoor units
- Group and central control at the same time • Ventilation mode setting • Rapid ventilation • Power saving ventilation
- Backlit Unit

PQRCVSL0QW

LCD backlit display

Enables you to easily see the control settings.

RF (Radio Frequency) Remote Control (optional)

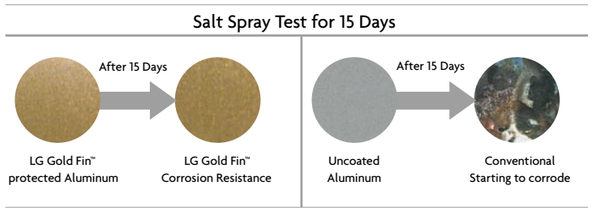
The RF Remote control provides complete freedom to operate the Ducted System from various locations. By using radio frequency, LG has eliminated the need for wires and has enabled communication of up to 20 metres away from the indoor unit, even through walls and floors. The controller allows you to conveniently turn the unit on/off and adjust the temperature and fan speed. It can easily be added to the system during installation and works in conjunction with wall and infra-red controllers.

PQRFA0

User Friendly Controller

Durable Coating (GoldFin™)

GoldFin™, is an anti corrosive treatment on the surface of the heat exchanger in the outdoor unit.
The treatment is designed to protect air conditioners from pollution and corrosive conditions and assists in the durability and longevity of the unit. This technology is the ideal solution for harsh Australian outdoor conditions.



[Test Standard : ASTM B-117, KS D9502]

Weekly Program

The operator can set the timer and program the air conditioner for a period of one week.

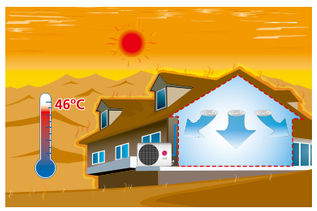
Child Lock Function

This function prevents little hands from tampering with the control buttons on the unit. All the buttons on the indoor display panel will be blocked.

Wide Operation Temperature (Inverter models only) *

With enhanced technology, LG developed inverter products that can operate across a wide outdoor temperature range. The air conditioners have an operational range of up to 48°C outdoor for cooling and down to -15°C outdoor for heating, so you can be comfortable whatever the temperature outside.*

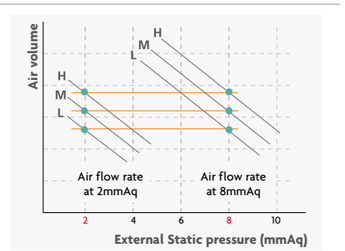
Cooling operation range **-10°C~48°C** outdoor
Heating operation range **-15°C~24°C** outdoor



* operational capacity varies depending on ambient temperature. Contact LG for more information.

E.S.P Control (E.S.P: External Static Pressure)

Air volume can be optimised to reduce noise and comply with the system design utilising E.S.P technology. This enables you to optimise duct work installation, by maintaining capacities and sound levels as required.



Quiet Operation & Easy Servicing

A lightweight polymer blower and housing makes air conditioning operation quieter and backup servicing more convenient.
The new fan housing can be easily dismantled for convenient servicing and maintenance.

Dual Thermistor Control

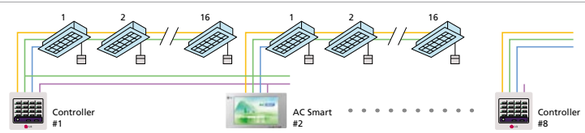
Dual thermistor control provides the option to control temperature by referring to either of the dual temperature sensors. With the help of the slide switch at the back of the LCD wired remote controller, selection of the desired thermistor for controlling the unit can be achieved. One thermistor is in the Indoor unit & the other one is in the LCD wired remote.

Group Control

This enables you to link several products together that can then be controlled by one control device. A connecting line is linked to each of the indoor units to enable communication. This control device can be used to control up to 16 indoor units.

Central Controller (optional)

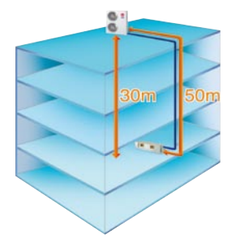
LG units come with advanced control options, such as the central controller, which is designed for commercial applications, where multiple units have been installed. This allows you control between 16-1024 air conditioning units, via 8 seperate controllers.



Long Distance, High Elevation Piping

Our LG Air Conditioners (Cassette and Concealed duct models) can be installed over a long distance(Max 50m) and a High Elevation(30m), between indoor and outdoor units.

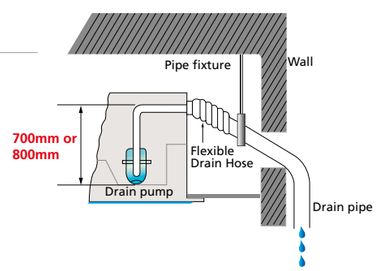
* B09AWYN6LS, B12AWYN6LS, B18AWYN6LS : a long distance(Max 30m) and a High Elevation(20m)



Drain Pump

Auxiliary Drain Pump automatically drains water. A standard drain-head height of up to 800mm is possible, which helps create the ideal solution for water drainage.

* 700mm: 18/21kW, 800mm: 8.0-15.5kW
Refer to each model PDB for the height.



Indoor Unit

- B09AWYN6LS
- B12AWYN6LS
- B18AWYN6LS

Feature

• Prefilter(washable /anti-fungus) • Drain pump
• E.S.P. control • Hot start • Self diagnosis
• Soft dry operation • Auto changeover
• Auto restart operation • Child lock
• Sleep mode (Night Quiet Mode) • Timer(on/off)
• Timer(weekly) • Two thermistor control
• Fan Continuous • Fan Auto Function
• Skip Over Evaporator Sensing

Option

• Group control • Network Soluation(LGAP)
• PDI(power distribution indicator) • PI 485
• Zone control • Dry Contact Error State Output

Individual Control

• New Wide wired remote controller - PQRCVSLOQW
• Deluxe wired remote controller - PQRCUDB0
• Wireless LCD remote control - PQWRHSF0

B09AWYU6LS

B12AWYU6LS

B18AWYU6LS

Specifications

Model		Indoor	B09AWYN6LS	B12AWYN6LS	B18AWYN6LS
		Outdoor	B09AWYU6LS	B12AWYU6LS	B18AWYU6LS
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Cooling Capacity		kW	1.2 - 2.4 - 3.0	1.2 - 3.4 - 3.8	1.7 - 5.0 - 5.6
		Btu/h	4,100 - 8,200 - 10,250	4,100 - 11,600 - 13,000	5,800 - 17,100 - 19,100
Heating Capacity		kW	1.2 - 3.2 - 4.5	1.2 - 4.0 - 5.0	1.7 - 5.8 - 6.3
		Btu/h	4,100 - 10,930 - 15,375	4,100 - 13,700 - 17,000	5,800 - 19,800 - 21,500
Current	Nominal Running Current	A	1.6	1.6	1.6
	Fan Motor Type		BLDC	BLDC	BLDC
	Fan Type		Sirocco	Sirocco	Sirocco
	Motor Output(W) x No. of Unit		20 x 2	20 x 2	20 x 2
	Air Flow Rate	CMM	12 / 10 / 8	12 / 10 / 8	14 / 12 / 10
	(H / M / L) l/s		200 / 167 / 133	200 / 167 / 133	233 / 200 / 167
	External Static Pressure	Pa	40	40	40
	Capacitor	μF / Vac	-	-	-
	Drive		Direct Drive	Direct Drive	Direct Drive
Coil	Row x Column x FPI		3R x 10C x 18FPI	3Rx10Cx18FPI	3Rx10Cx18FPI
Dimensions	Body	mm (inch)	1,100 x 190 x 575(43.3 x 7.5 x 22.6)	1,100 x 190 x 575(43.3 x 7.5 x 22.6)	1,100 x 190 x 575(43.3 x 7.5 x 22.6)
(W x H x D)	Decorative Panel	mm (inch)	-	-	-
Net Weight	Body	kg (lbs)	25(55)	25(55)	25(55)
	Decorative Panel	kg (lbs)	-	-	-
Air Filter (W x H)		mm (inch)	1032 x 166 (40.6 x 6.5)	1032 x 166 (40.6 x 6.5)	1032 x 166 (40.6 x 6.5)
Sound Level (H / M / L)		dB(A)+3	35 / 34 / 33	35 / 34 / 33	37 / 36 / 35
Piping	Liquid	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Connections	Gas	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)
	Drain(OD/ID)	mm	25.4 / 22.6	25.4 / 22.6	25.4 / 22.6
Dehumidification Rate		l/h	1.1	1.1	1.1
Safety Devices			FUSE,Thermal Protector	FUSE,Thermal Protector	FUSE,Thermal Protector
Temperature Sensor			Thermistor	Thermistor	Thermistor
Referigerant			R410A	R410A	R410A
Referigerant Control			EEV(Outdoor Unit)	EEV(Outdoor Unit)	EEV(Outdoor Unit)
Connectable Outdoor Unit			B09AWYU6LS	B12AWYU6LS	B18AWYU6LS
Power and Transmission Interunit Cable		No. x mm²	4 x 0.75(Including Earth)	4 x 0.75(Including Earth)	4 x 0.75(Including Earth)

Note :
1. Capacities are based on the following conditions:
   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: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
   - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
   Piping Length: - Interconnecting Piping Length 5m
   - Level Difference of Zero
2. Wiring cable size must comply with the applicable local and national code.
3. The specification may be subject to change without notic for purpose of improvement.

Indoor Unit

- B18AWYNGMH
- B24AWYNGMH

Feature

• Prefilter(washable /anti-fungus) • Drain pump
• E.S.P. control • Hot start • Self diagnosis
• Soft dry operation • Auto changeover
• Auto restart operation • Child lock
• Sleep mode (Night Quiet Mode) • Timer(on/off)
• Timer(weekly) • Two thermistor control
• Fan Continuous • Fan Auto Function
• Skip Over Evaporator Sensing

Option

• Group control • Network Soluation(LGAP)
• PDI(power distribution indicator) • PI 485
• Zone control • Dry Contact Error State Output

Individual Control

• New Wide wired remote controller - PQRCVSLOQW
• Deluxe wired remote controller - PQRCUDB0
• Wireless LCD remote control - PQWRHSF0

B18AWYUGMH

B24AWYUGMH

Specifications

Model		Indoor	B18AWYNGMH	B24AWYNGMH
		Outdoor	B18AWYUGMH	B24AWYUGMH
Power Supply		Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Cooling Capacity		kW	2.5 - 5.0 - 6.0	2.84 - 7.1 - 7.81
		Btu/h	8,530 - 17,061 - 20,473	9,690 - 24,226 - 26,649
Heating Capacity		kW	3.0 - 6.0 - 7.2	3.2 - 8.0 - 8.8
		Btu/h	10,236 - 20,473 - 24,567	10,919 - 27,297 - 30,027
Current	Nominal Running Current	A	0.5	0.9
	Fan Motor Type		BLDC	BLDC
	Fan Type		Sirocco	Sirocco
	Motor Output(W) x No. of Unit		154 x 1	154 x 1
	Air Flow Rate	CMM	17 / 15 / 13	25 / 20 / 14
	(H / M / L) l/s		283 / 250 / 217	417 / 333 / 233
	External Static Pressure	Pa	80	80
	Capacitor	μF / Vac	-	-
	Drive		Direct Drive	Direct Drive
Coil	Row x Column x FPI		3R x 12C x 21FPI	3R x 10C x 19FPI
Dimensions	Body	mm (inch)	1,182 x 298 x 450 (46.5 x 11.7 x 17.7)	1,182 x 298 x 450 (46.5 x 11.7 x 17.7)
(W x H x D)	Decorative Panel	mm (inch)	-	-
Net Weight	Body	kg (lbs)	34(75)	35(77)
	Decorative Panel	kg (lbs)	-	-
Air Filter (W x H)		mm (inch)	1072 x 275 (42.4 x 10.8)	1072 x 275 (42.4 x 10.8)
Sound Level (H / M / L)		dB(A)+3	30 / 28 / 27	37 / 33 / 29
Piping	Liquid	mm (inch)	6.35 (1/4)	9.52 (3/8)
Connections	Gas	mm (inch)	12.70 (1/2)	15.88 (5/8)
	Drain(OD/ID)	mm	32 / 26	32 / 26
Dehumidification Rate		l/h	1.2	1.36
Safety Devices			FUSE,Thermal Protector	FUSE,Thermal Protector
Temperature Sensor			Thermistor	Thermistor
Referigerant			R410A	R410A
Referigerant Control			EEV(Outdoor Unit)	EEV(Outdoor Unit)
Connectable Outdoor Unit			B18AWYUGMH	B24AWYUGMH
Power and Transmission Interunit Cable		No. x mm²	4 x 0.75(Including Earth)	4 x 0.75(Including Earth)

Note :
1. Capacities are based on the following conditions:
   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: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
   - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
   Piping Length: - Interconnecting Piping Length 5m
   - Level Difference of Zero
2. Wiring cable size must comply with the applicable local and national code.
3. The specification may be subject to change without notic for purpose of improvement.

outdoor Unit

- B09AWYU6LS
- B12AWYU6LS
- B18AWYU6LS

Feature

• Defrost ⁄ Deicing • Restart Delay (3-minutes)
• Self Diagnosis • Soft start • Test Function
• Auto changeover • Night Mode • Auto Restart Operation
• Central control (LGAP) • PDI (Power Distribution Indicator)
• Low Ambient Kit (program logic)

Specifications

Model		Outdoor	B09AWYU6LS	B12AWYU6LS	B18AWYU6LS
Nominal Capacity	Cooling	kW	1.2 - 2.4 - 3.0	1.2 - 3.4 - 3.8	1.7 - 5.0 - 5.6
		Btu/h	4,100 - 8,200 - 10,250	4,100 - 11,600 - 13,000	5,800 - 17,100 - 19,100
	Heating	kW	1.2 - 3.2 - 4.5	1.2 - 4.0 - 5.0	1.7 - 5.8 - 6.3
		Btu/h	4,100 - 10,930 - 15,375	4,100 - 13,700 - 17,000	5,800 - 19,800 - 21,500
Nominal Input	Cooling	kW	0.61	0.99	1.46
	Heating	kW	0.8	1.03	1.73
Testing Combination			-	-	-
Running Current	Cooling	A	2.8	4.4	6.2
(Rating)	Heating	A	3.6	4.5	7.2
Starting Current	Cooling ⁄ Heating	A	-	-	-
Power Supply		Ø ⁄ V ⁄ Hz	1 ⁄ 220-240 ⁄ 50	1 ⁄ 220-240 ⁄ 50	1 ⁄ 220-240 ⁄ 50
Power Supply Cable(Outdoor)		No. x mm²	3 x 2.5 (Including Earth)	3 x 2.5 (Including Earth)	3 x2.5 (Including Earth)
Power and Transmission Cable(ODU to IDU or ODU to BD)		No. x mm²	4 x 0.75 (Including Earth)	4 x 0.75 (Including Earth)	4 x 0.75 (Including Earth)
Dimensions W x H x D		mm(inch)	870 x 655 x 320 (34.3 x 25.8 x 12.6)	870 x 655 x 320 (34.3 x 25.8 x 12.6)	870 x 808 x 320 (34.3 x 31.8 x 12.6)
Net Weight		kg(lbs)	46(101)	46(101)	58(128)
Max. Number of Connectable Indoor Units			1	1	1
Compressor	Type		Rotary	Rotary	Rotary
	Qty x Model		1 x GKT141D	1 x GKT141D	1 x GJT240DAA
	Capacity	kW	4.25	4.25	7.5
	Motor type		BLDC	BLDC	BLDC
	Oil charge volume	cc	570	570	900
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Refrigerant	Charge (at 5m)	g(oz)	1250(44.1)	1250(44.1)	2000(70.5)
	Type		R410A	R410A	R410A
	Control		EEV	EEV	EEV
Additional Refrigerant Charge		g/m(oz/ft)	20	20	20
Heat Exchanger	(Rows x Column x FPI) x No.		2R x 28C x 18FPI	2R x 28C x 18FPI	2R x 36C x 18FPI
	Defrosting Method		Reversing Cycle	Reversing Cycle	Reversing Cycle
Fan	Capacitor	μF/Vac	-	-	-
	Drive		Direct Drive	Direct Drive	Direct Drive
	Discharge Direction(Side/Top)		Side	Side	Side
	Air Flow Rate x No. of Fan	CMM(l/s)	50(833)	50(833)	58(967)
Sound Level (Cooling ⁄ Heating)	Sound Pressure	dB(A)+3	49 ⁄ 49	49 ⁄ 49	48 ⁄ 44
Piping Connections	Liquid	mm(inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	mm(inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
Max. Interunit Piping Length	Total Piping	m	30	30	30
	Main Piping	m	-	-	-
	Total Branch Piping	m	-	-	-
	Each Branch Piping	m	-	-	-
Max. Elevation Difference	Outdoor Unit-Indoor Unit	m	20	20	20
	Indoor Unit-Indoor Unit	m	-	-	-
Operation Range (Outdoor)	Cooling	°C(°F)	-10-48	-10-48	-10-48
	Heating	°C(°F)	-15-24	-15-24	-15-24
Outside Sound Power Level		dBA	62	61	62

Note :
1. Capacities are based on the following conditions:
   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: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
   - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
   Piping Length: - Interconnecting Piping Length 5m
   - Level Difference of Zero
2. Wiring cable size must comply with the applicable local and national code.
3. The specification may be subject to change without notic for purpose of improvement.

outdoor Unit

- B18AWYUGMH
- B24AWYUGMH

Feature

• Defrost ⁄ Deicing • Restart Delay (3-minutes)
• Self Diagnosis • Soft start • Test Function
• Auto changeover • Night Mode • Auto Restart Operation
• Central control (LGAP) • PDI (Power Distribution Indicator)
• Low Ambient Kit (program logic)

Specifications

Model		Outdoor	B18AWYUGMH	B24AWYUGMH
Nominal Capacity	Cooling	kW	2.5 - 5.0 - 6.0	2.84 - 7.1 - 7.81
		Btu/h	8,530 - 17,061 - 20,473	9,690 - 24,226 - 26,649
	Heating	kW	3.0 - 6.0 - 7.2	3.2 - 8.0 - 8.8
		Btu/h	10,236 - 20,473 - 24,567	10,919 - 27,297 - 30,027
Nominal Input	Cooling	kW	1.45	2.12
	Heating	kW	1.60	2.05
Testing Combination			-	-
Running Current	Cooling	A	6.0	9.5
(Rating)	Heating	A	6.7	9.0
Starting Current	Cooling ⁄ Heating	A	-	-
Power Supply		Ø ⁄ V ⁄ Hz	1 ⁄ 220-240 ⁄ 50	1 ⁄ 220-240 ⁄ 50
Power Supply Cable(Outdoor)		No. x mm²	3 x2.5 (Including Earth)	3 x2.5 (Including Earth)
Power and Transmission Cable(ODU to IDU or ODU to BD)		No. x mm²	4 x 0.75 (Including Earth)	4 x 0.75 (Including Earth)
Dimensions W x H x D		mm(inch)	870 x 808 x 320 (34.3 x 31.8 x 12.6)	950 x 834 x 330 (37.4 x 32.8 x 13.0)
Net Weight		kg(lbs)	58(128)	63(139)
Max. Number of Connectable Indoor Units			1	1
Compressor	Type		Twin Rotary	Twin Rotary
	Qty x Model		1 x GJT240DAA	1 x GJT240DAA
	Capacity	kW	7.5	7.5
	Motor type		BLDC	BLDC
	Oil charge volume	cc	900	900
	Oil Type		FVC68D(PVE)	FVC68D(PVE)
Refrigerant	Charge (at 5m)	g(oz)	2000(70.5)	2,200(77.6)
	Type		R410A	R410A
	Control		EEV	EEV
Additional Refrigerant Charge		g/m(oz/ft)	20	40
Heat Exchanger	(Rows x Column x FPI) x No.		2R x 36C x 18FPI	2R x 38C x 17FPI
	Defrosting Method		Reversing Cycle	Reversing Cycle
Fan	Capacitor	μF/Vac	-	-
	Drive		Direct Drive	Direct Drive
	Discharge Direction(Side/Top)		Side	Side
	Air Flow Rate x No. of Fan	CMM(l/s)	58(967)	58(967)
Sound Level (Cooling ⁄ Heating)	Sound Pressure	dB(A)+3	48 ⁄ 51	51 ⁄ 51
Piping Connections	Liquid	mm(inch)	6.35(1/4)	9.52(3/8)
	Gas	mm(inch)	12.7(1/2)	15.88(5/8)
Max. Interunit Piping Length	Total Piping	m	50	50
	Main Piping	m	-	-
	Total Branch Piping	m	-	-
	Each Branch Piping	m	-	-
Max. Elevation Difference	Outdoor Unit-Indoor Unit	m	30	30
	Indoor Unit-Indoor Unit	m	-	-
Operation Range (Outdoor)	Cooling	°C(°F)	-10-48	-10-48
	Heating	°C(°F)	-15-24	-15-24
Outside Sound Power Level		dBA	62	65

Note :
1. Capacities are based on the following conditions:
   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: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB
   - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
   Piping Length: - Interconnecting Piping Length 5m
   - Level Difference of Zero
2. Wiring cable size must comply with the applicable local and national code.
3. The specification may be subject to change without notic for purpose of improvement.

Accessory

Central Control

Control Method	Objective/Use	Unit Name and Model	Function	Parts	Features
Simple Central Controller PQCSB101S0	ON/OFF operation of all indoor units just like remote controller		• Remote Control • Monitoring • Indoor unit 16 / 1 Simple Controller	• Controller • Manual • Screw 4EA	• 16 Indoor Units On/Off Control • Max 16 Central Controller expansion • Connectable with Function Controller
Function Controller PQCSC101S0	Function control joint With Simple central controller (PQCSB101S0)		• Fan Speed • Mode • Set Temp • Search	• Controller • manual • Screw 6EA • Install • supporter	• joint with Max 8 simple central controller 8*16 = 128 indoors
Function Scheduler PQCSD130A0	Function control including Schedule Function With Simple central controller (PQCSB101S0 from V-nET applied)		• Fan Speed • Operation Mode • Temp Setting • Searching • Weekly schedule Reservation	• Controller • Manual • Screw 4EA	• Connect with Maximum 8 Simple Central Controllers 8*16=128 indoors • Schedule Automatic Operation
AC Smart PQCSW320A0E	To Control all indoor unit just like remote controller		• Control/Monitoring • Schedule • History • Auto control (Auto Changeover, temperature limit control) • Setting • Other setting Multi Language Emergency Stop Max 64 Indoor units	• AC Smart controller • Power cord • Manual	• Touch screen • Zone/Group/Unit control Function Lock & Set Temp range restriction Icon/List View • Easy upgrade by using USB

Control Method	Objective/Use	Unit Name and Model	Function	Parts	Features
128 unit Expansion Kit PQCSE440U0	To expand Control unit of AC Smart		• To expand form 64 unit to 128 unit of AC Smart	• Expansion Kit • Manual	• Shortly connect communication line to AC Smart, expand maximum control unit from 64 to 128 of AC Smart
ACP PQCPA11A0E PQCPB11A0E	To Control all indoor unit just like remote controller		• Control/Monitoring • Schedule • History Peak Power Control PDI Monitoring • Setting Max 256 Indoor units Without IO (Install with AC Manager, Interlocking is impossible)	• ACP • Power cord • Manual	• Embedded web server (Can connected internet) • Include Central Program in the ACP Web Server Directly IP Setting by using key & LCD Without DI/DO Port
AC Manager PQCSS520A0E	To Control all indoor unit just like remote controller		• Control/Monitoring • Schedule • History Peak Power Control • Auto control (Auto Changeover, temperature limit control) Interlocking PDI data Manage • Setting Max 4,096 Indoor units	• PC S/W(CD) • Lock key • Manual	• Install with several ACP supply more detail control & upgraded function Print & down with excel of all data Function Lock &Set Temp range restriction Icon/List View individual unit operating time manage • Max 16 ACP connectable (Max 4.096 Indoors)

Accessory

Interface Device

Control Method	Objective/Use	Unit Name and Model	Function	Parts	Features
PI485 PMNFP14A0	To Connect Outdoor unit to CNU or Simple Central Controller		• RS485 Converter with software • For Max.16 Indoor	• PCB Assembly • Bracket • Lead wire: 3ea • Screw 4EA • Tie wrap • Clamp • Manual	• 1set/1 Outdoor
Dry Contact PQDSA1/PQDSB1	For Connect Indoor unit to other Forced on/off Controller	 	• RS485 Converter with software	• PCB Assembly • Top case • Bottom case • Screw • Lead wire 3 • Sub PCB set (1leadwire+1sub PCB) • Manual	• 1set/1 Indoor unit • PQDSB1 (24V) • PQDSA1 (24V)
Dry Contact PQDSBC*	For Connect Indoor unit to other Forced on/off Controller	 	• Contact signal to air-con signal converter	• PCB Assembly • Top/Bottom case • Screw • Lead wire 3ea • Sub PCB set (1LEAD wire+ 1Sub PCB) • Manual	• 1set/1 indoor unit • 2 Contact points • No need AC input • Expected temperature setting is possible
BNU-LW PQNFB16A1	To Connect PI485 to LONWORKS BMS system		• RS485 To LONWORKS Protocol Converter	• Interface Assembly • 12V DC adaptor • Manual	• 64 Indoor units / 1BNU-LW commission with Web Access can be install with simple central controller
BNU-BAC PQNFB17B0	To connect PI485 to BACnet BMS system		• RS485 to BACnet protocol converter	• Interface Assembly 12V DC adaptor Manual	• 256 Indoor units/ 1 BNU-BAC commission with Web Access can be install with simple central controller Directly IP Setting by using key & LCD
PDI PQNUD1S00	To Power consumption Distribution of each indoor unit		• Accumulation of total power consumption • Indication of current power in use • Indication of accumulated power for period • Indication of standby power (option setting) • PC Central controller(PQCSS513 A0) connection is possible	• PDI Assembly Manual	• 1 PDI / 1 OUTDOOR

1) PI485 : Product Interface unit for RS 485 transmission

Memo