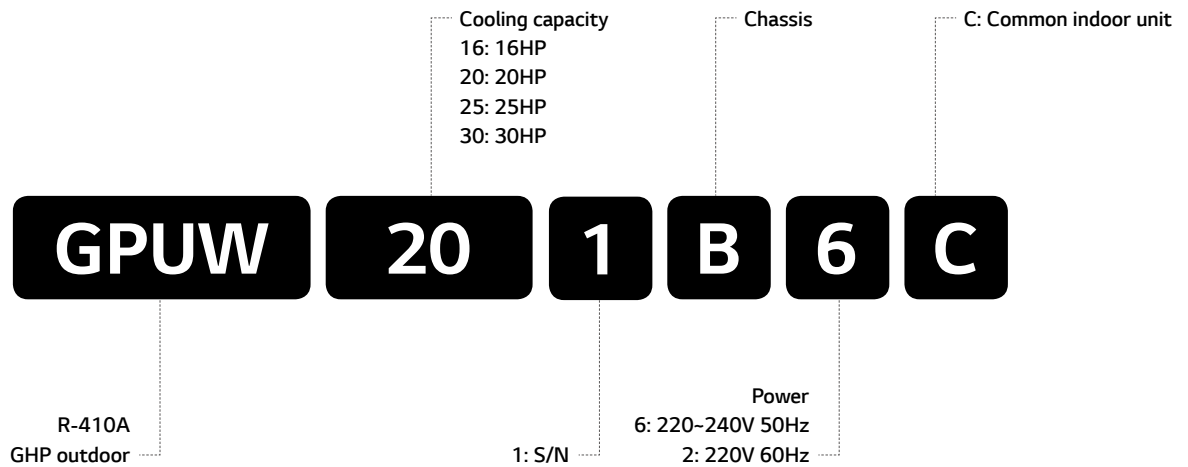


LG HVAC SOLUTION

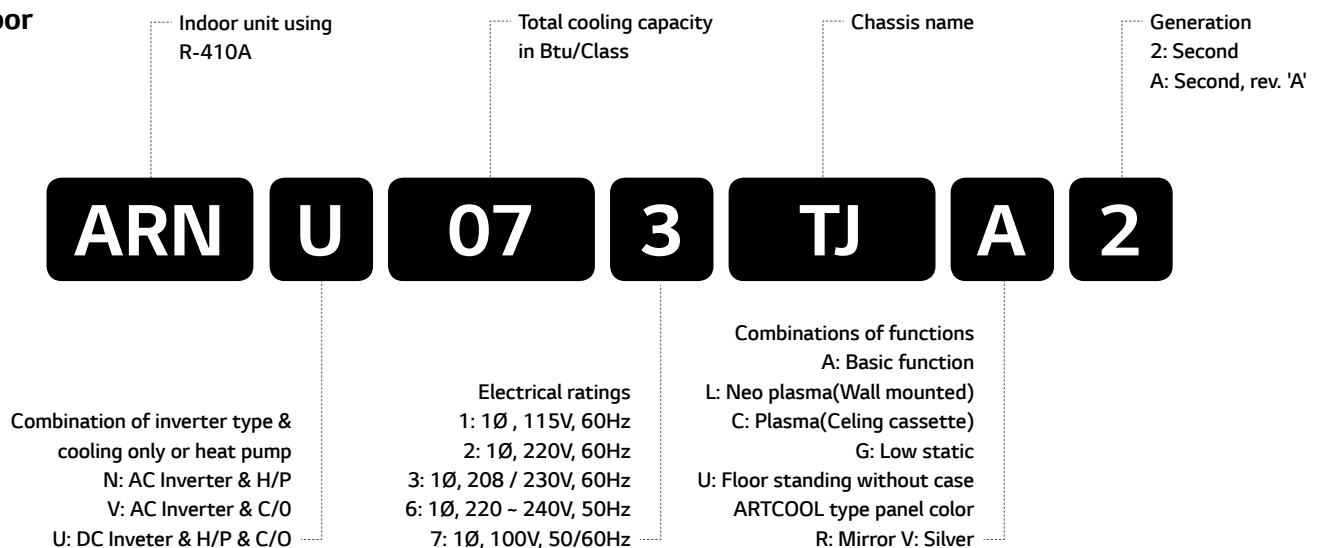
GHP SUPER II



Outdoor



Indoor



Contents

- 02. Nomenclature
- 03. Line-up
- 04. Features
 - Why is LG GHP
 - Supreme energy efficiency
 - High operation reliability
 - Comfortable surroundings
 - Flexible installation
 - convenient function
- 12. Specification(Outdoor)
- 16. Indoor Unit(Features & Specification)
- 51. Hydro kit
- 53. Accessories
- 93. Piping accessories



Line up

HP	16	20	25	30	32	36	40	45	50	55	60
Feature	 Single unit				 Series unit						
Cooling capacity (kW)	45	56	71	85	90	101	112	127	142	156	170
Heating capacity (kW)	50	63	80	95	100	113	126	143	160	175	190

Line-up

With single model & series model, GHP SUPER II can be apply to a diverse kinds of building like office, school, and etc. IDU of GHP SUPER II can be compatible with Multi V.

GHP SUPER II has 16, 20, 25, 30HP line-up as single unit. As series model, its line-up covers with 32~60HP.

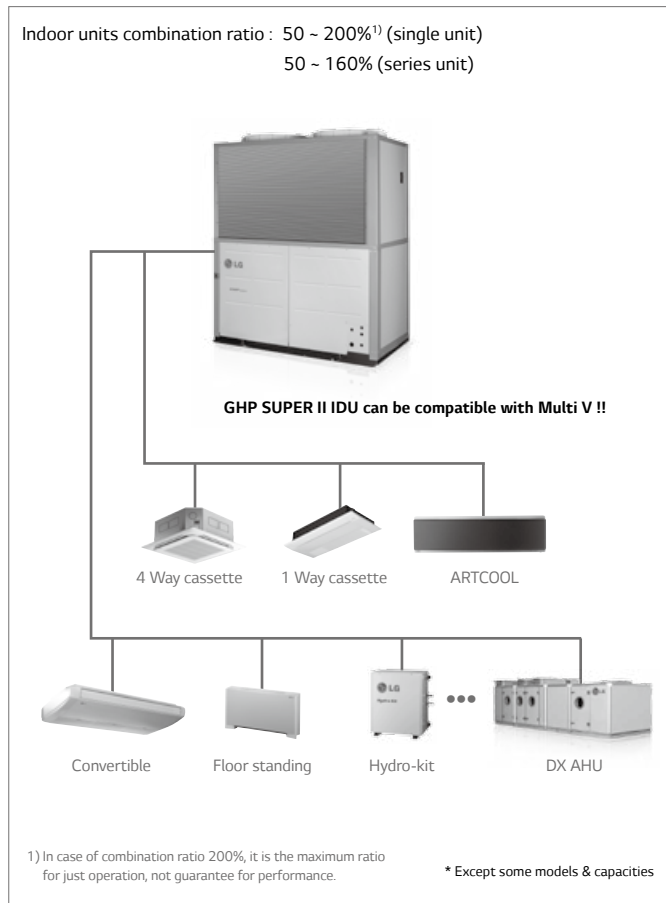
What is GHP(Gas-engine driven heat pump)?

GHP is a kind of VRF driven by gas engine, it is suitable for any buildings using gas conveniently as energy source or better heating needed. Most of system parts & IDU are almost same as EHP system.

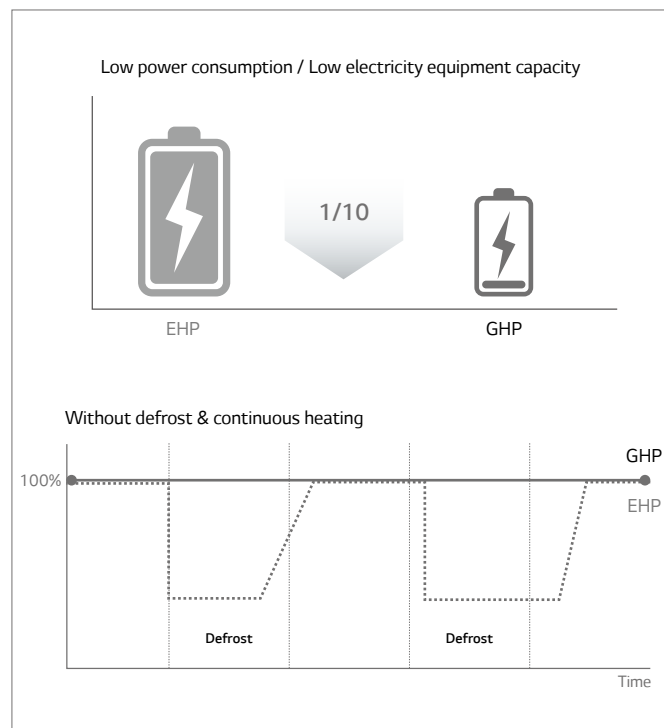
High efficiency operation & Heat recovery: Contented with stability and economic feasibility.

Target market

- Insufficient of electricity supply facilities (Remodeling)
- Low gas price and enough gas infrastructure
- Space need to stable heating operation
- Cold winter areas



Combination of IDU



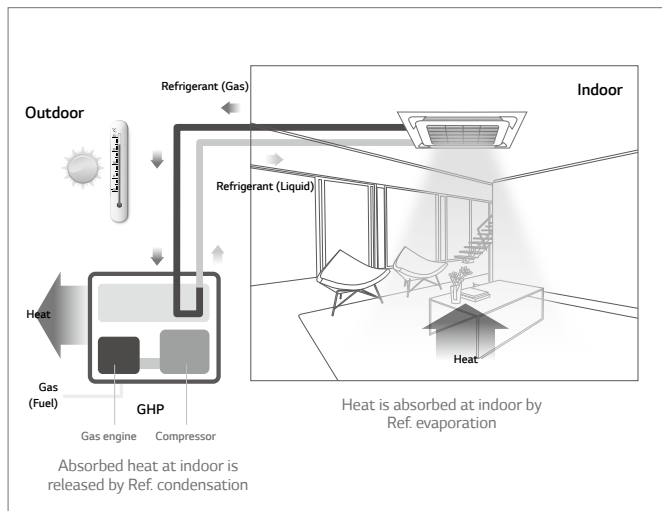
Key feature

Why is LG GHP?

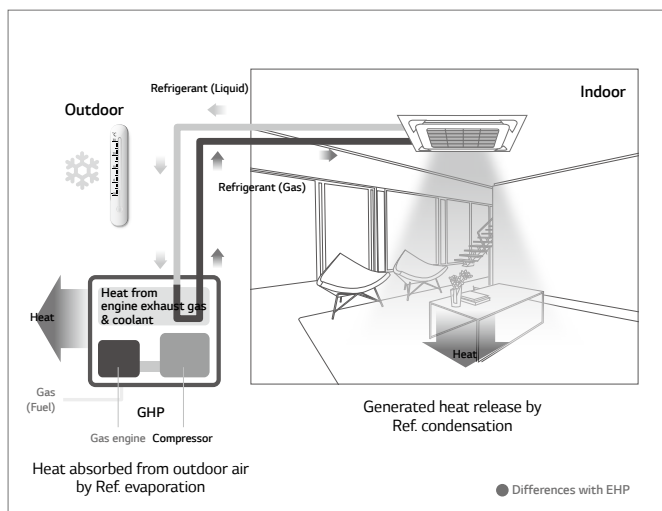
LG GHP is manufactured by LG EHP technology & knowhow of HVAC industry.

GHP history

- 2015 | All Line Up achieved World Best Level COP
- 2014 | Hyundai engine applied GHP SUPER II launching (3rd Generation GHP)
- 2012 | Multi V Tech applied GHP SUPER launching (2nd Generation GHP)
- 2011 | Upgraded 1st Generation. GHP
- 2009 | R-410A GHP (1st Generation GHP)
- 2005 | R-22 GHP



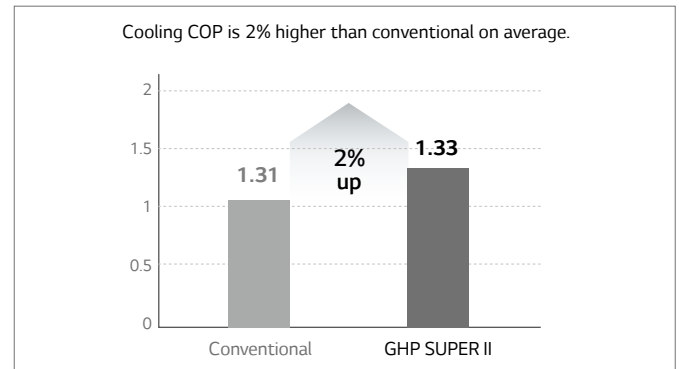
Cooling mode



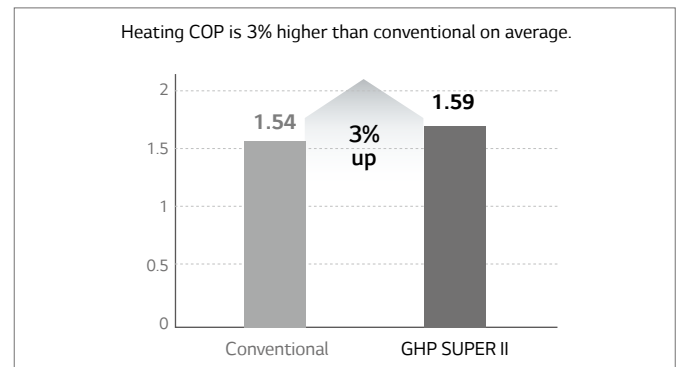
Heating mode

COP comparison

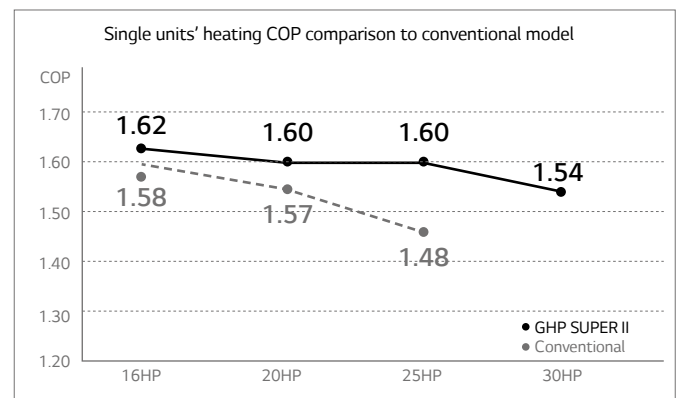
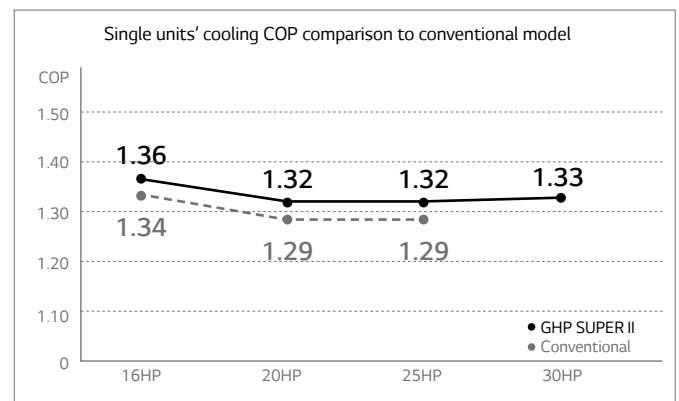
Superior efficiency saves operating cost more.
(Cooling COP 2% up and Heating COP 3% up)



Cooling mode



Heating mode



High performance engine

Adapting high efficiency and performance engine, powerful operation is possible with less gas consumption. It's also helpful to reduce CO₂emission.



Superior Engine Performance

Powerful Performance

- Engine displacement increase (2,311cc > 2,607cc)
- 4 times increase of engine control speed
- More precision RPM control compare to conventional engine

Comfortable surrounding

- Noise & vibration reduction through applying the balance shaft

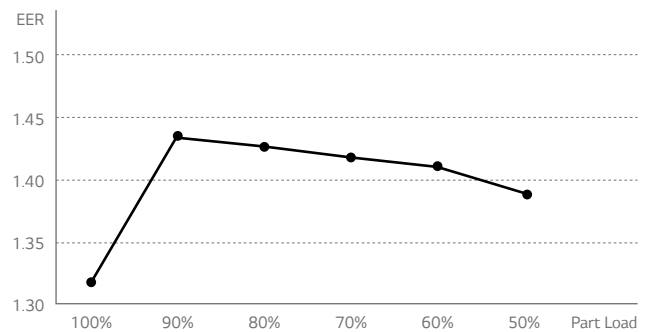
Operation Reliability

- Prevention of oil & water leak with the optimized gasket and oil pan design
- Part durability improvement through applying overhead cam
- Deletion / improvement of heavy-wear part such as tappet, etc.

Powerful Performance

GHP Super II can be operated stably regardless outdoor temperature variation and part load condition.

Part Load Efficiency**

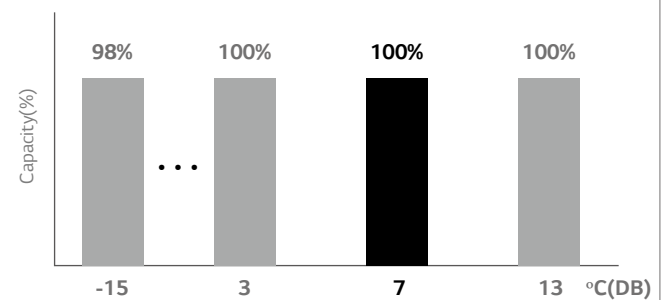


**Outdoor Temp. 35°C(DB) / Indoor Temp. 27°C(DB)

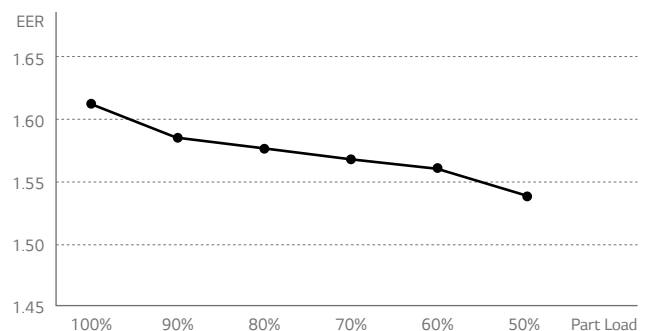
Heating mode

(Based on 25HP)

Capacity variation along to outdoor temperature***



Part Load Efficiency****



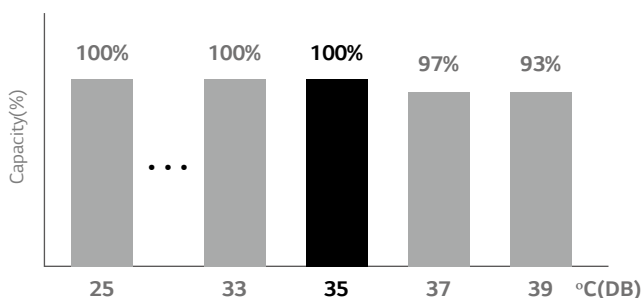
*** IDU 100% Combination / Indoor Temp. 20°C(DB),

****Outdoor Temp. 7°C(DB) / Indoor Temp. 20°C(DB)

Cooling mode

(Based on 25HP)

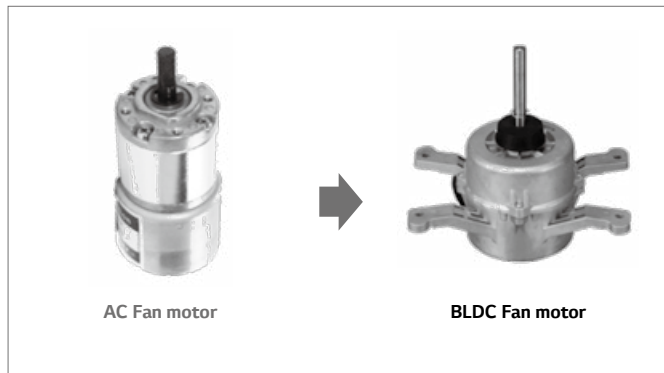
Capacity variation along to outdoor temperature*



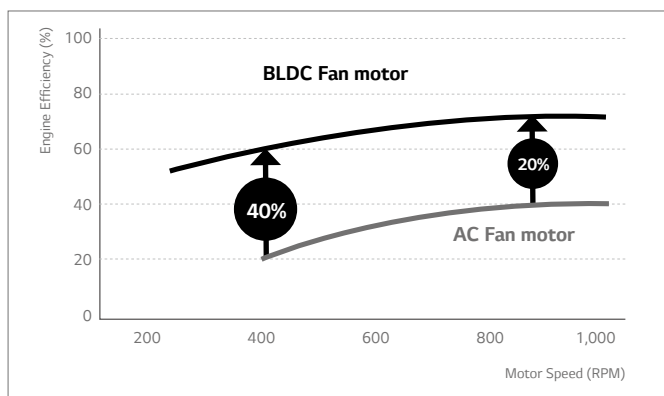
* IDU 100% Combination / Indoor Temp. 19°C(WB)

BLDC fan motor

The BLDC Fan motor is more efficient than a conventional AC motor, offering an additional 40% energy savings at low speeds and 20% at high speeds.



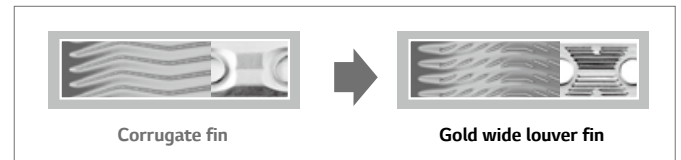
Adopting the BLDC Fan motor



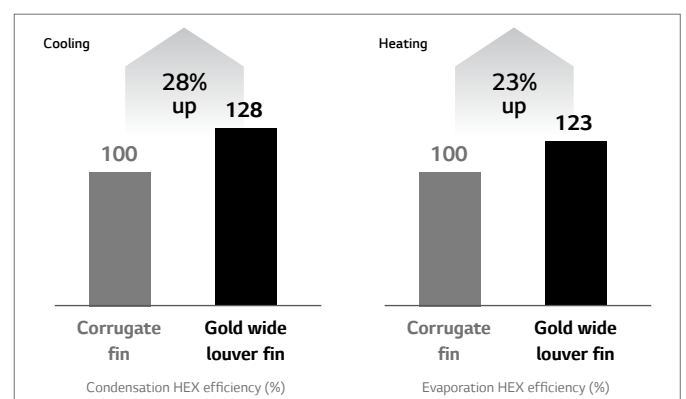
Fan efficiency improvement

Gold wide louver fin

Heat exchange rate is 28% in cooling and 23% in heating increased by Gold Wide Louver Fin-tube HEX.



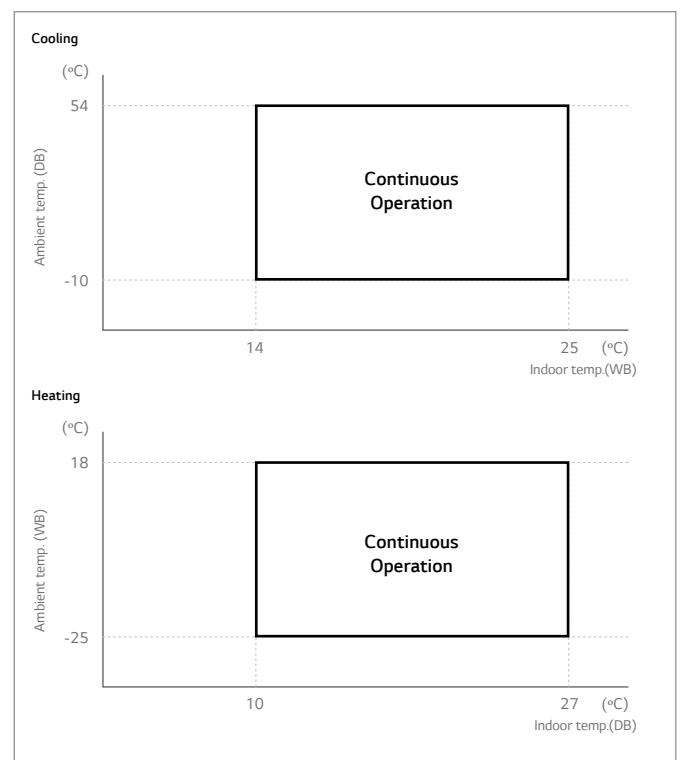
Adopting the gold wide louver fin



Heat exchange efficiency improvement

Operation range

GHP SUPER II has Wide Operation Range with cooling - 10°C ~ 54°C and heating - 25°C ~ 18°C



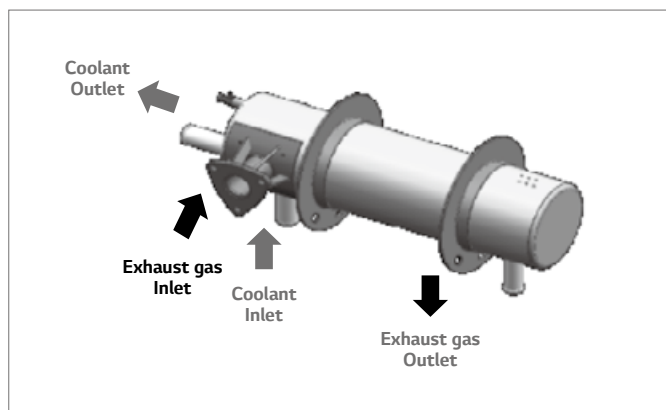
GHP SUPER II

High operation reliability

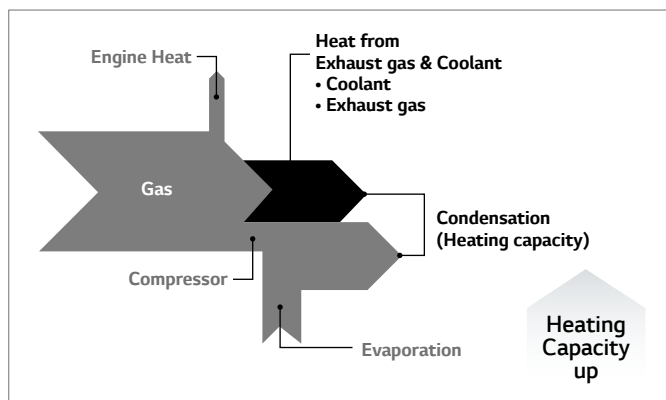
Heating performance improvement technology – Exhaust gas heat exchanger

In heating mode, heating performance can be increased 15% by heat from exhaust gas.

- In heating Mode, using heat from exhaust gas
 - Engine warming-up time reduced as engine turn on
 - Supply heat to coolant used as a heat source for evaporation
 - ➔ Evaporation heat exchange efficiency and heating performance is increased



Exhaust gas heat exchanger



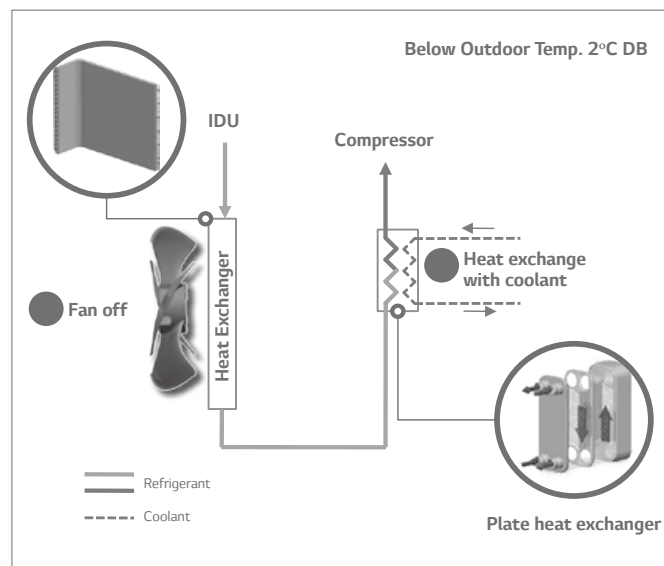
Detail of heat equivalent diagram for HEX

Heating performance improvement technology – Plate heat exchanger

Heating performance is increased by using plate heat exchanger that linked with coolant cycle of engine. Using additional heat from Engine's coolant, better heating performance has been achieved.

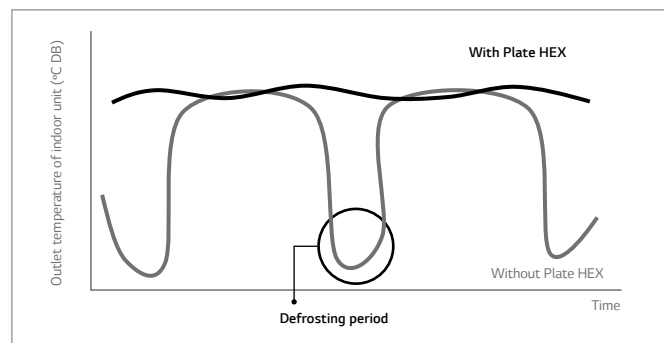
Plate Heat Exchanger

- In heating mode, if outdoor temperature is at the low temperature.
 - Fan of outdoor unit is off
 - Exchange heat with coolant(70°C~ 80°C) for evaporation



Effect of Plate Heat Exchanger

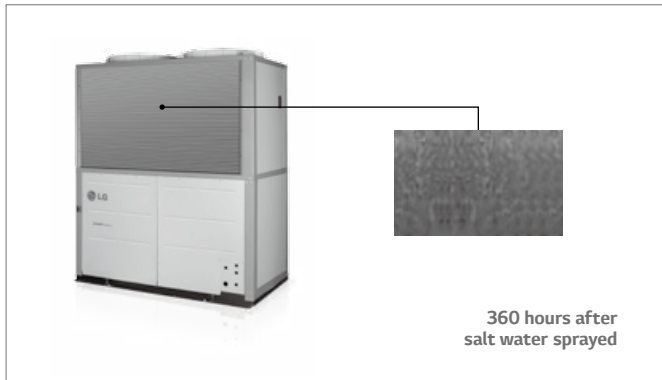
- Applying the plate HEX(Heat Exchanger)
 - Not need to defrost
 - Able to the continuous heating



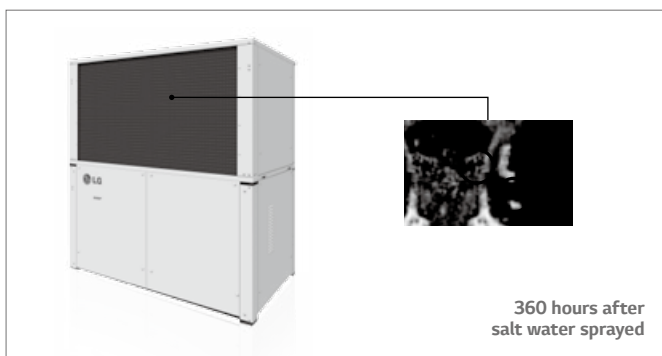
Double coated Goldfin™

Adapting double coated gold fin, hydrophile property and anti corrosion performance is increased.

This performance is proved by LG self test that checking conditions for 360 hours after salt water sprayed.



GHP SUPER II

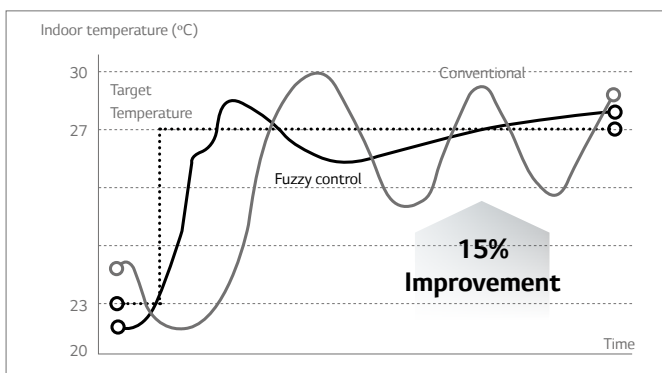


Conventional

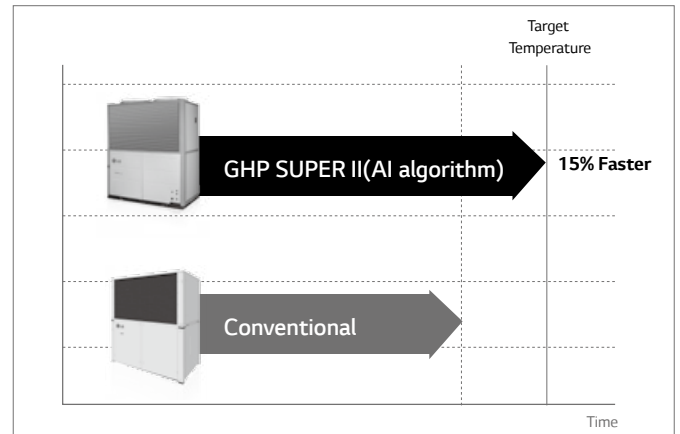
- Adapting a double coated gold fin
- Hydrophilic property - Anti Corrosion

AI(Artificial Intelligence) algorithm

Through AI control (FLC : Fuzzy Logic Control) algorithm, the reaching time to the target temperature is 15% faster than before. We can present more comfortable and satisfied environment to our customer.



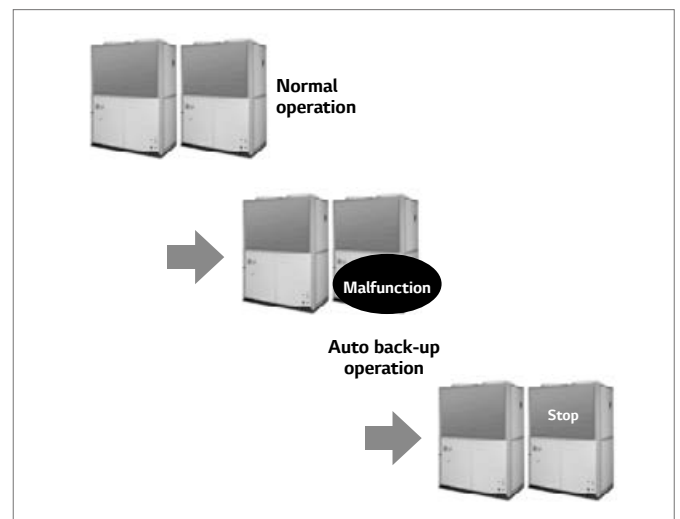
AI (Fuzzy logic control) algorithm



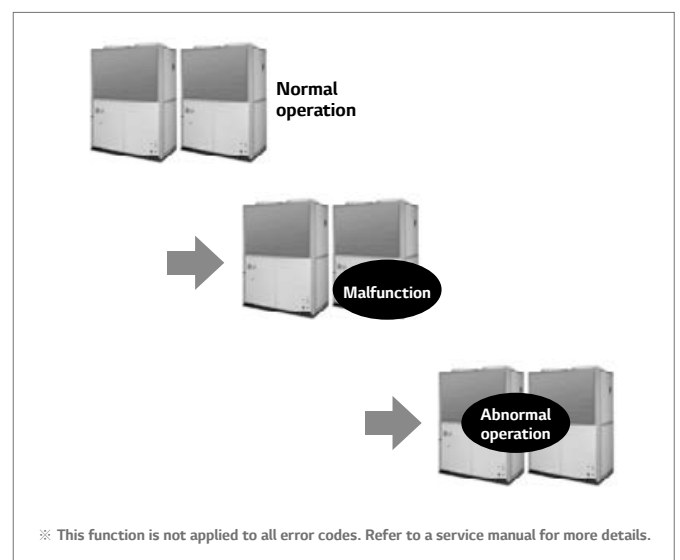
Reaching time to target temperature

Auto back-up

With Auto Back-up function, Minimizing any inconvenience than may occur in an emergency situation.



Auto back-up



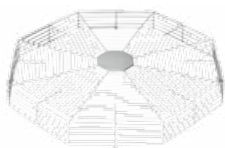
Without Auto back-up

Comfortable surroundings

Low noise design

Each low noise design technology is able to minimized the operation noise.

- Low Noise
- High Air flow

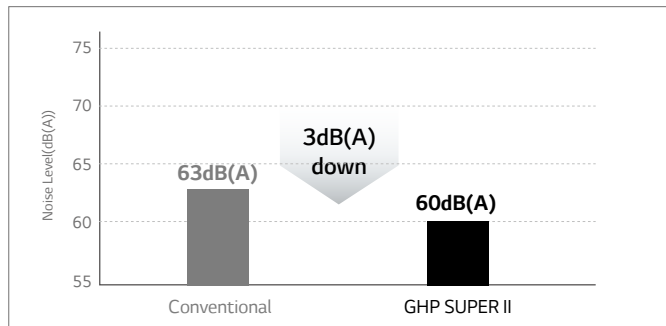


- **Octangle grille**
 - Anti snow stack
 - Minimized air flow resistance



- **Super Aero Fan**
 - Minimized clearance flow
 - High stiffness design & low noise

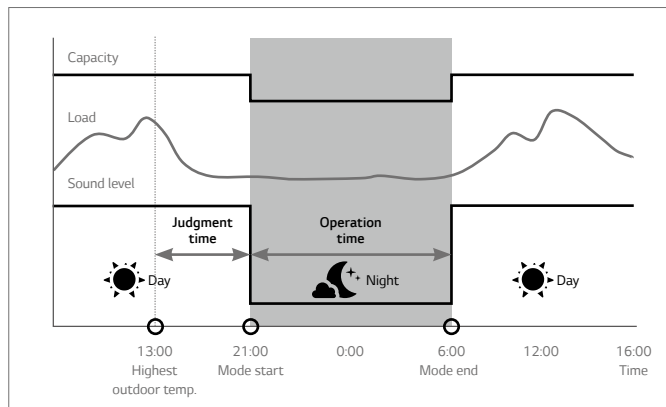
Each design for low noise



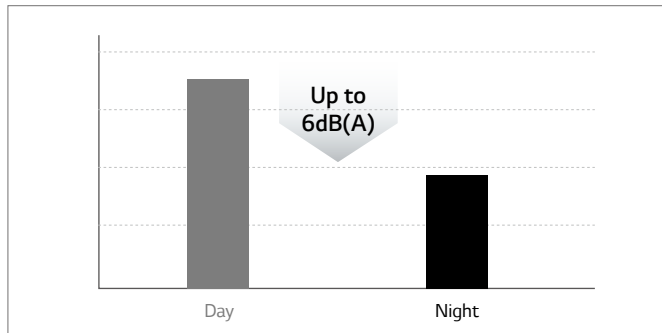
Operation Noise Reduction

Night silent mode

Night Silent operating can reduce noise levels at night time by simply setting the dip switch on the PCB of the outdoor unit.



Night silent mode



Detail of mode operation

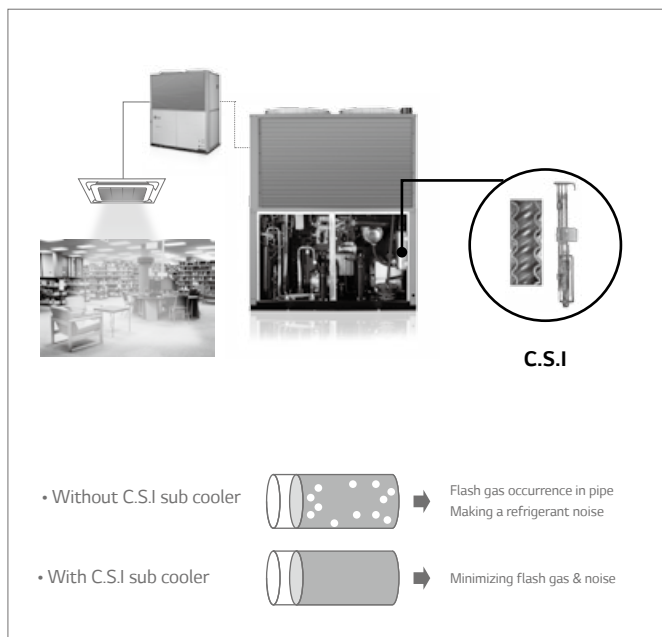
- 12 Detail modes of night silent mode
- 4 Operation & judgment time setting mode : 9H(8h), 10.5H(6.5H), 12h(5h), continuous night silent mode
- Each Step has 4 different time setting(operation & judgment) modes.

	Normal	Night silent mode
Step 1	60	59
Step 2	60	57
Step 3	60	54

Indoor refrigerant noise reduction

Adapting sub cooling technology, the indoor refrigerant noise level is reduced by minimizing the flash gas in pipe. It is able to maintain more comfortable indoor environment.

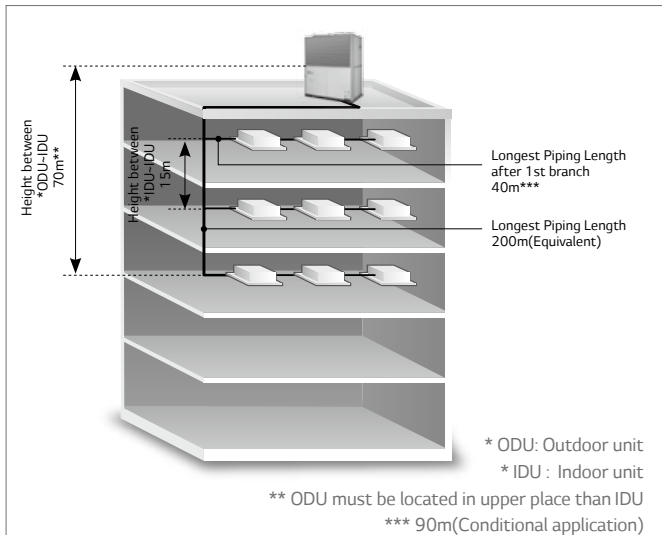
- C.S.I (cyclone sub-cool interchanger) sub cooler
 - Minimized clearance flow
 - High stiffness design & low noise



Flexible installation

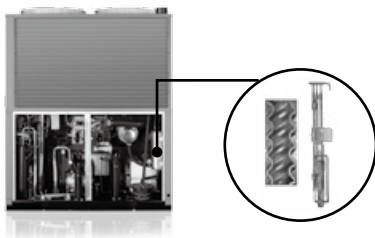
Piping length

GHP SUPER II guaranteed the cooling and heating capacity up to 200m(equivalent) piping length by sub-cooling circuit.

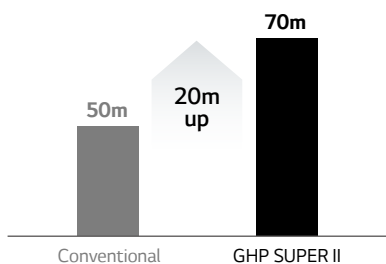


• C.S. I Sub-cooler

- Enables to enhance the system reliability for high elevation or long piping.



• Height between ODU and IDU



*Conventional : GHP SUPER

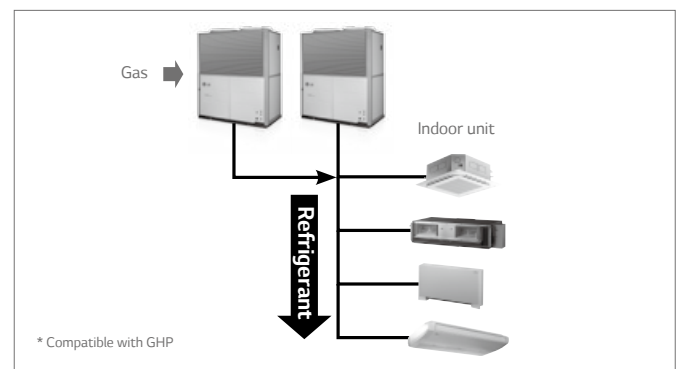
Various application – DX type

Through DX Type same with conventional EHP System, it can be cooling & heating in various space like office, class room, retail store, as well as large space like auditorium, lobby and etc.



• GHP ODU + IDU*

- Office, Retail Store, Classroom
- Common cooling & heating zone

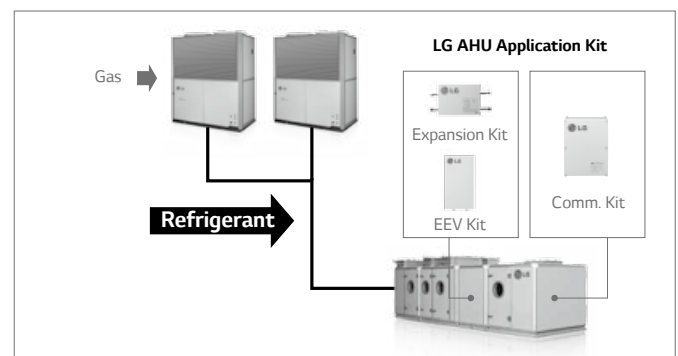


Individual space



• GHP ODU + DX AHU

- Auditorium, Lobby
- Large space, high ceiling
- Need ventilation
- Prevent the outdoor air (need pressure)



Large space

Snowdrift prevention function

Prevent malfunction due to snow stack through snowdrift prevention function during stopping.

Outdoor temperature less than 3°C

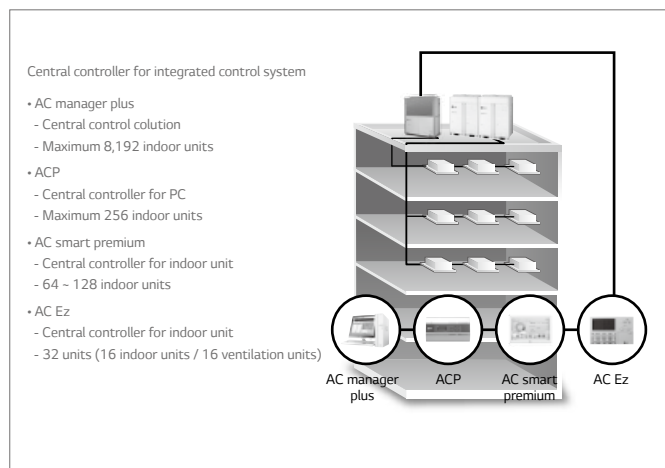
▶ 120 seconds fan operation in every 30 minutes



Integrated control system

Integrated control to the hybrid system (GHP SUPER II + Multi V) is possible with using Multi V Controller.

Integrated control system is not only saving money but also easy to manage the system.



Pump down, pump out

When an outdoor or indoor unit malfunctions, this function automatically collects its refrigerant before servicing.

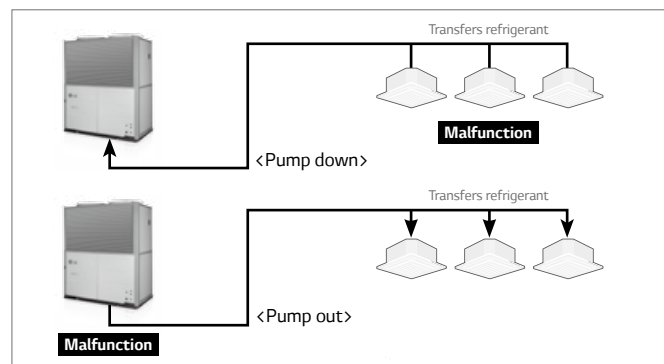
This function is very useful and convenient to repair the malfunction unit.

Pump down

When an indoor unit malfunctions, this function collects the refrigerant remaining in the piping line or that unit to an outdoor unit.

Pump out

When an outdoor unit malfunctions, this function collects the refrigerant in another indoor unit or a piping line.



Air purge function

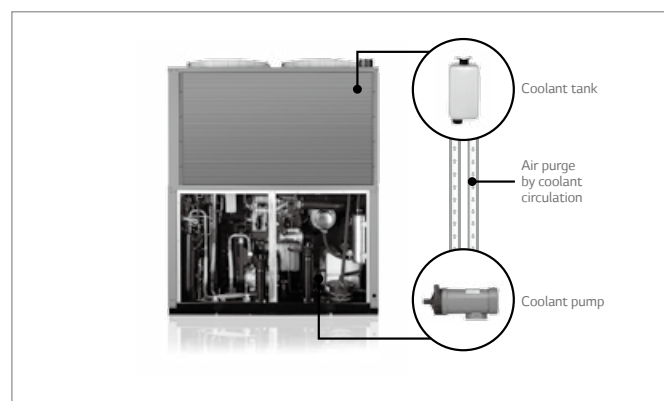
It is the useful function to supply coolant after service of engine or coolant system pipe.

With air purge function

- All steps by automatically
- Just setting dip switch & push the start button

Without air purge function

- All steps by manually
- Turn on the coolant pump / Open the 3 way valve
- Check the coolant circulations / Wait 10 minutes.
- Check to remove the air



Outdoor (50Hz)

Model			Combination unit	GPUW161B6C	GPUW201B6C	GPUW251B6C	GPUW301B6C	GP-W321B6C	GP-W361B6C
			Independent unit	GPUW161B6C	GPUW201B6C	GPUW251B6C	GPUW301B6C	GPUW161B6C GPUW161B6C	GPUW201B6C GPUW161B6C
Cooling capacity	Cooling	Rated	kW	45.0	56.0	71.0	85.0	90.0	101.0
	Heating	Rated	kW	50.0	63.0	80.0	95.0	100.0	113.0
Power input	Cooling	Rated	kW	1.85	1.85	1.85	2.10	3.70	3.70
	Heating	Rated	kW	2.15	2.15	2.15	2.40	4.30	4.30
Running current	Cooling	Rated	A	10.20	10.20	10.20	12.10	20.40	20.40
	Heating	Rated	A	11.70	11.70	11.70	13.90	23.40	23.40
Engine starting current		Max	A	40	40	40	40	40 x 2	40 x 2
Gas Type			-	LNG 13A					
Gas Supply Pressure			kPa	2.0~2.5					
Fuel consumption	Cooling	Rated	kW	31.3	40.6	51.9	62.0	31.3 x 2	40.6 + 31.3
	Heating	Rated	kW	28.8	37.2	47.9	59.4	28.8 x 2	37.2 + 28.8
Power factor	Cooling/Heating	Rated	%	0.92					
Casing color			-	Warm Gray / Morning Gray					
Compressor	Type		-	Scroll x 2					
	Piston displacement		cm³/rev	85 x 2					
	Oil type		-	MA32R					
	Oil charge	Compressor	l	0.35 x 2					
		Oil separator	l	5.3					
Crankcase heater			W x No.	40 x 2	40 x 2	40 x 2	40 x 2	(40 x 2) x 2	(40 x 2) x 2
Gas engine	Displacement		cm3/rev	2,311	2,311	2,311	2,311	2,311 x 2	2,311 x 2
	Speed		rev/min	900 ~ 2,000					
	Oil Charge		l	45.0	45.0	45.0	45.0	45.0 x 2	45.0 x 2
	Starter motor		-	DC 2.0 kW	DC 2.2 kW	DC 2.2 kW	DC 2.2 kW	DC 2.2 kW	DC 2.2 kW
	Starter system		-	AC/DC switching type					
Engine coolant	Type		-	Ethylene glycol / Water					
	Charged Volume		l	25	25	25	25	25 x 2	25 x 2
	Density		%	50 V/V	50 V/V	50 V/V	50 V/V	50 V/V	50 V/V
	Freezing temperature		°C	-35					
Coolant Pump Output			kW	0.41	0.41	0.41	0.41	0.41 x 2	0.41 x 2
Fan	Type		-	Propeller fan					
	Motor Output x Number		kW x No.	0.9 x 2	0.9 x 2	0.9 x 2	1.5 x 2	(0.9 x 2) x 2	(0.9 x 2) x 2
	Air Flow Rate		m³/min	380	380	380	420	380 x 2	380 x 2
Air Intake			-	Front / Back					
Air Outlet			-	Top					
Piping connections	Refrigerant pipes	Gas	mm(inch)	Ø 28.58	Ø 28.58	Ø 31.8	Ø 34.9	Ø 34.9	Ø 34.9
		Liquid	mm(inch)	Ø 15.88	Ø 15.88	Ø 15.88	Ø 19.05	Ø 19.05	Ø 19.05
	Fuel gas pipes		inch	R3/4 (Male)					
	Exhaust drain pipes		mm	Ø 31.2	Ø 31.2	Ø 31.2	Ø 31.2	Ø 31.2 x 2	Ø 31.2 x 2
Drain heater			W	25.0	25.0	25.0	25.0	25.0 x 2	25.0 x 2
Dimensions(W × H × D)			mm	1,798 x 2,181 x 958	1,798 x 2,181 x 958	1,798 x 2,181 x 958	1,798 x 2,181 x 958	(1,798 x 2,181 x 958) x 2	(1,798 x 2,181 x 958) x 2
Net Weight			kg	840	840	840	850	840 x 2	840 x 2
Sound pressure level	Rated		dB(A)	60					
Refrigerant	Refrigerant name		-	R410A					
	Precharged Amount		kg	10.5	10.5	10.5	11.7	10.5 x 2	10.5 x 2
	Control		-	Eletronic Expansion Valve					
Power Supply			Phase / Wire / V / Hz	Single / 2Wire / 220V / 50Hz					
Number of maximum connectable indoor units			-	25	31	40	47	50	56
Power Line (H07RN-F)			mm²	4.0	4.0	4.0	4.0	4.0(10)	4.0(10)
Communication Line (VCTF - SB)			mm²	1.0 ~ 1.5					

Note:

- Capacities are based on the following conditions:
 - Cooling capacity : 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 Interconnected pipe length = 10m
 - Heating capacity : 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 Interconnected pipe length = 5m
 - Difference of Elevation (Outdoor - Indoor Unit) is Zero.
- Fuel Gas consumption is the total (high) calorific value.
- Sound Level Values could be increased owing to ambient conditions during operation.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without notification.

Outdoor (50Hz)

Model			Combination unit	GP-W401B6C	GP-W451B6C	GP-W501B6C	GP-W551B6C	GP-W601B6C
			Independent unit	GPUW201B6C GPUW201B6C	GPUW251B6C GPUW201B6C	GPUW251B6C GPUW251B6C	GPUW301B6C GPUW251B6C	GPUW301B6C GPUW301B6C
Cooling capacity	Cooling	Rated	kW	112.0	127.0	142.0	156.0	170.0
	Heating	Rated	kW	126.0	143.0	160.0	175.0	190.0
Power input	Cooling	Rated	kW	3.70	3.70	3.70	3.95	4.20
	Heating	Rated	kW	4.30	4.30	4.30	4.55	4.80
Running current	Cooling	Rated	A	20.40	20.40	20.40	22.30	24.20
	Heating	Rated	A	23.40	23.40	23.40	25.60	27.80
Engine starting current		Max	A	40 x 2				
Gas Type			-	LNG 13A				
Gas Supply Pressure			kPa	2.0~2.5				
Fuel consumption	Cooling	Rated	kW	40.6 x 2	51.9 + 40.6	51.9 x 2	62.0 + 51.9	62.0 x 2
	Heating	Rated	kW	37.2 x 2	47.9 + 37.2	47.9 x 2	59.4 + 47.9	59.4 x 2
Power factor	Cooling/Heating	Rated	%	0.92				
Casing color			-	Warm Gray / Morning Gray				
Compressor	Type		-	Scroll x 2				
	Piston displacement		cm³/rev	85 x 2				
	Oil type		-	MA32R				
	Oil charge	Compressor	l	0.35 x 2				
		Oil separator	l	5.3				
Crankcase heater			W x No.	(40 x 2) x 2				
Gas engine	Displacement		cm3/rev	2,311 x 2				
	Speed		rev/min	900 ~ 2,000				
	Oil Charge		l	45.0 x 2				
	Starter motor		-	DC 2.2 kW				
	Starter system		-	AC/DC switching type				
Engine coolant	Type		-	Ethylene glycol / Water				
	Charged Volume		l	25 x 2				
	Density		%	50 V/V				
	Freezing temperature		°C	-35				
Coolant Pump Output			kW	0.41 x 2				
Fan	Type		-	Propeller fan				
	Motor Output x Number		kW x No.	(0.9 x 2) x 2	(0.9 x 2) x 2	(0.9 x 2) x 2	(1.5 x 2) + (0.9 x 2)	(1.5 x 2) x 2
	Air Flow Rate		m³/min	380 x 2	380 x 2	380 x 2	420 + 380	420 x 2
Air Intake			-	Front / Back				
Air Outlet			-	Top				
Piping connections	Refrigerant pipes	Gas	mm(inch)	Ø 41.3				
		Liquid	mm(inch)	Ø 19.05				
	Fuel gas pipes		inch	R3/4 (Male)				
	Exhaust drain pipes		mm	Ø 31.2 x 2				
Drain heater			W	25.0 x 2				
Dimensions(W x H x D)			mm	(1,798 x 2,181 x 958) x 2				
Net Weight			kg	840 x 2	840 x 2	840 x 2	850 + 840	850 x 2
Sound pressure level	Rated		dB(A)	60				
Refrigerant	Refrigerant name		-	R410A				
	Precharged Amount		kg	10.5 x 2	10.5 x 2	10.5 x 2	11.7 + 10.5	11.7 x 2
	Control		-	Eletronic Expansion Valve				
Power Supply			Phase / Wire / V / Hz	Single / 2Wire / 220V / 50Hz				
Number of maximum connectable indoor units			-	62	64	64	64	64
Power Line (H07RN-F)			mm²	4.0(10)				
Communication Line (VCTF - SB)			mm²	1.0 ~ 1.5				

Note:

- Capacities are based on the following conditions:
 - Cooling capacity : 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 Interconnected pipe length = 10m
 - Heating capacity : 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 Interconnected pipe length = 5m
 - Difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- Fuel Gas consumption is the total (high) calorific value.
- Sound Level Values could be increased owing to ambient conditions during operation.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without notification.

Outdoor (60Hz)

Model			Combination unit	GPUW161B2C	GPUW201B2C	GPUW251B2C	GPUW301B2C	GP-W321B2C	GP-W361B2C
			Independent unit	GPUW161B2C	GPUW201B2C	GPUW251B2C	GPUW301B2C	GPUW161B2C GPUW161B2C	GPUW201B2C GPUW161B2C
Cooling capacity	Cooling	Rated	kW	45.0	56.0	71.0	85.0	90.0	101.0
	Heating	Rated	kW	50.0	63.0	80.0	95.0	100.0	113.0
Power input	Cooling	Rated	kW	1.85	1.85	1.85	2.10	3.70	3.70
	Heating	Rated	kW	2.15	2.15	2.15	2.40	4.30	4.30
Running current	Cooling	Rated	A	10.20	10.20	10.20	12.10	20.40	20.40
	Heating	Rated	A	11.70	11.70	11.70	13.90	23.40	23.40
Engine starting current		Max	A	40	40	40	40	40 x 2	40 x 2
Gas Type			-	LNG 13A					
Gas Supply Pressure			kPa	2.0~2.5					
Fuel consumption	Cooling	Rated	kW	31.3	40.6	51.9	62.0	31.3 x 2	40.6 + 31.3
	Heating	Rated	kW	28.8	37.2	47.9	59.4	28.8 x 2	37.2 + 28.8
Power factor	Cooling/Heating	Rated	%	2.0~2.5					
Casing color			-	Warm Gray / Morning Gray					
Compressor	Type		-	Scroll x 2					
	Piston displacement		cm³/rev	85 x 2					
	Oil type		-	MA32R					
	Oil charge	Compressor	l	0.35 x 2					
		Oil separator	l	5.3					
Crankcase heater			W x No.	40 x 2	40 x 2	40 x 2	40 x 2	(40 x 2) x 2	(40 x 2) x 2
Gas engine	Displacement		cm3/rev	2,311	2,311	2,311	2,311	2,311 x 2	2,311 x 2
	Speed		rev/min	900 ~ 2,000					
	Oil Charge		l	45.0	45.0	45.0	45.0	45.0 x 2	45.0 x 2
	Starter motor		-	DC 2.0 kW	DC 2.2 kW	DC 2.2 kW	DC 2.2 kW	DC 2.2 kW	DC 2.2 kW
	Starter system		-	AC/DC switching type					
Engine coolant	Type		-	Ethylene glycol / Water					
	Charged Volume		l	25	25	25	25	25 x 2	25 x 2
	Density		%	50 V/V					
	Freezing temperature		°C	-35					
Coolant Pump Output			kW	0.41	0.41	0.41	0.41	0.41 x 2	0.41 x 2
Fan	Type		-	Propeller fan					
	Motor Output x Number		kW x No.	0.9 x 2	0.9 x 2	0.9 x 2	1.5 x 2	(0.9 x 2) x 2	(0.9 x 2) x 2
	Air Flow Rate		m³/min	380	380	380	420	380 x 2	380 x 2
Air Intake			-	Front / Back					
Air Outlet			-	Top					
Piping connections	Refrigerant pipes	Gas	mm(inch)	Ø 28.58	Ø 28.58	Ø 31.8	Ø 34.9	Ø 34.9	Ø 34.9
		Liquid	mm(inch)	Ø 15.88	Ø 15.88	Ø 15.88	Ø 19.05	Ø 19.05	Ø 19.05
	Fuel gas pipes		inch	R3/4 (Male)					
	Exhaust drain pipes		mm	Ø 31.2	Ø 31.2	Ø 31.2	Ø 31.2	Ø 31.2 x 2	Ø 31.2 x 2
Drain heater			W	25.0	25.0	25.0	25.0	25.0 x 2	25.0 x 2
Dimensions(W × H × D)			mm	1,798 x 2,181 x 958	1,798 x 2,181 x 958	1,798 x 2,181 x 958	1,798 x 2,181 x 958	(1,798 x 2,181 x 958) x 2	(1,798 x 2,181 x 958) x 2
Net Weight			kg	840	840	840	850	840 x 2	840 x 2
Sound pressure level	Rated		dB(A)	60					
Refrigerant	Refrigerant name		-	R410A					
	Precharged Amount		kg	10.5	10.5	10.5	11.7	10.5 x 2	10.5 x 2
	Control		-	Eletronic Expansion Valve					
Power Supply			Phase / Wire / V / Hz	Single / 2Wire / 220V / 60Hz					
Number of maximum connectable indoor units			-	25	31	40	47	50	56
Power Line (H07RN-F)			mm ²	4.0	4.0	4.0	4.0	4.0(10)	4.0(10)
Communication Line (VCTF - SB)			mm ²	1.0 ~ 1.5					

Note:

- Capacities are based on the following conditions:
 - Cooling capacity : 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 Interconnected pipe length = 10m
 - Heating capacity : 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 Interconnected pipe length = 5m
 - Difference of Elevation (Outdoor - Indoor Unit) is Zero.
- Fuel Gas consumption is the total (high) calorific value.
- Sound Level Values could be increased owing to ambient conditions during operation.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without notification.

Outdoor (60Hz)

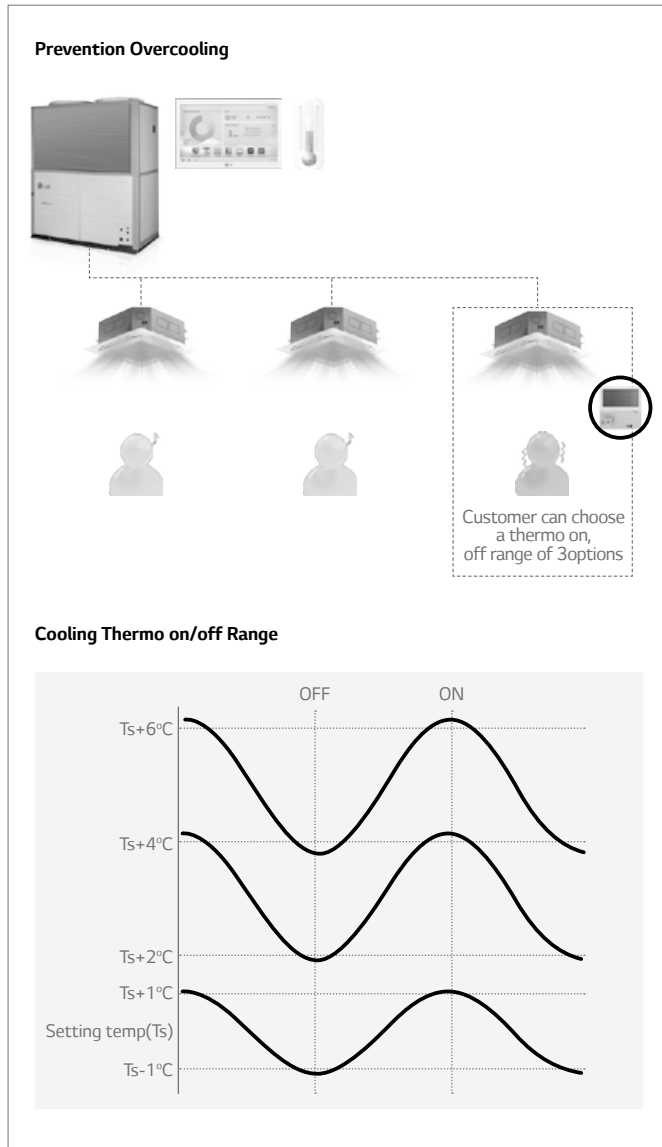
Model			Combination unit	GP-W401B2C	GP-W451B2C	GP-W501B2C	GP-W551B2C	GP-W601B2C
			Independent unit	GPUW201B2C GPUW201B2C	GPUW251B2C GPUW201B2C	GPUW251B2C GPUW251B2C	GPUW301B2C GPUW251B2C	GPUW301B2C GPUW301B2C
Cooling capacity	Cooling	Rated	kW	112.0	127.0	142.0	156.0	170.0
	Heating	Rated	kW	126.0	143.0	160.0	175.0	190.0
Power input	Cooling	Rated	kW	3.70	3.70	3.70	3.95	4.20
	Heating	Rated	kW	4.30	4.30	4.30	4.55	4.80
Running current	Cooling	Rated	A	20.40	20.40	20.40	22.30	24.20
	Heating	Rated	A	23.40	23.40	23.40	25.60	27.80
Engine starting current		Max	A	40 x 2				
Gas Type			-	LNG 13A				
Gas Supply Pressure			kPa	2.0~2.5				
Fuel consumption	Cooling	Rated	kW	40.6 x 2	51.9 + 40.6	51.9 x 2	62.0 + 51.9	62.0 x 2
	Heating	Rated	kW	37.2 x 2	47.9 + 37.2	47.9 x 2	59.4 + 47.9	59.4 x 2
Power factor	Cooling/Heating	Rated	%	0.92				
Casing color			-	Warm Gray / Morning Gray				
Compressor	Type		-	Scroll x 2				
	Piston displacement		cm³/rev	85 x 2				
	Oil type		-	MA32R				
	Oil charge	Compressor	l	0.35 x 2				
		Oil separator	l	5.3				
Crankcase heater			W x No.	(40 x 2) x 2				
Gas engine	Displacement		cm3/rev	2,311 x 2				
	Speed		rev/min	900 ~ 2,000				
	Oil Charge		l	45.0 x 2				
	Starter motor		-	DC 2.2 kW				
	Starter system		-	AC/DC switching type				
Engine coolant	Type		-	Ethylene glycol / Water				
	Charged Volume		l	25 x 2				
	Density		%	50 V/V				
	Freezing temperature		°C	-35				
Coolant Pump Output			kW	0.41 x 2				
Fan	Type		-	Propeller fan				
	Motor Output x Number		kW x No.	(0.9 x 2) x 2	(0.9 x 2) x 2	(0.9 x 2) x 2	(1.5 x 2) + (0.9 x 2)	(1.5 x 2) x 2
	Air Flow Rate		m³/min	380 x 2	380 x 2	380 x 2	420 + 380	420 x 2
Air Intake			-	Front / Back				
Air Outlet			-	Top				
Piping connections	Refrigerant pipes	Gas	mm(inch)	Ø 41.3	Ø 41.3	Ø 41.3	Ø 41.3	Ø 41.3
		Liquid	mm(inch)	Ø 19.05	Ø 19.05	Ø 19.05	Ø 19.05	Ø 19.05
	Fuel gas pipes		inch	R3/4 (Male)				
	Exhaust drain pipes		mm	Ø 31.2 x 2				
Drain heater			W	25.0 x 2	25.0 x 2	25.0 x 2	25.0 x 2	25.0 x 2
Dimensions(W x H x D)			mm	(1,798 x 2,181 x 958) x 2				
Net Weight			kg	840 x 2	840 x 2	840 x 2	850 + 840	850 x 2
Sound pressure level	Rated		dB(A)	60				
Refrigerant	Refrigerant name		-	R410A				
	Precharged Amount		kg	10.5 x 2	10.5 x 2	10.5 x 2	11.7 + 10.5	11.7 x 2
	Control		-	Eletronic Expansion Valve				
Power Supply			Phase / Wire / V / Hz	Single / 2Wire / 220V / 60Hz				
Number of maximum connectable indoor units			-	62	64	64	64	64
Power Line (H07RN-F)			mm²	4.0(10)				
Communication Line (VCTF - SB)			mm²	1.0 ~ 1.5				

Note:

- Capacities are based on the following conditions:
 - Cooling capacity : 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 Interconnected pipe length = 10m
 - Heating capacity : 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 Interconnected pipe length = 5m
 - Difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- Fuel Gas consumption is the total (high) calorific value.
- Sound Level Values could be increased owing to ambient conditions during operation.
- Wiring cable size must comply with the applicable local and national code.
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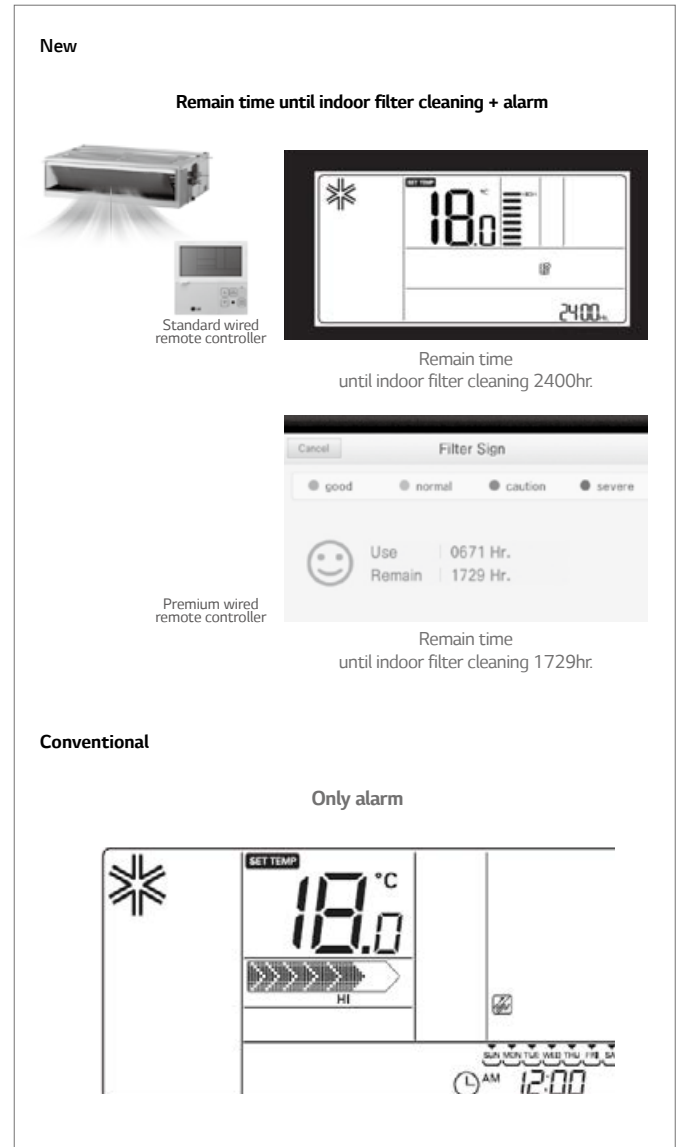
Cooling thermo On/Off range setting

User can set cooling thermo on/off range with wired remote controller for prevention overcooling and making optimized indoor environment.



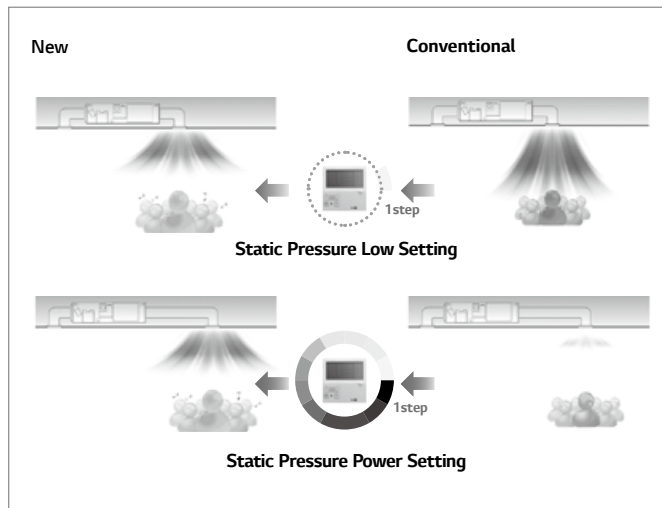
Filter sign

The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen, which is convenient for users.



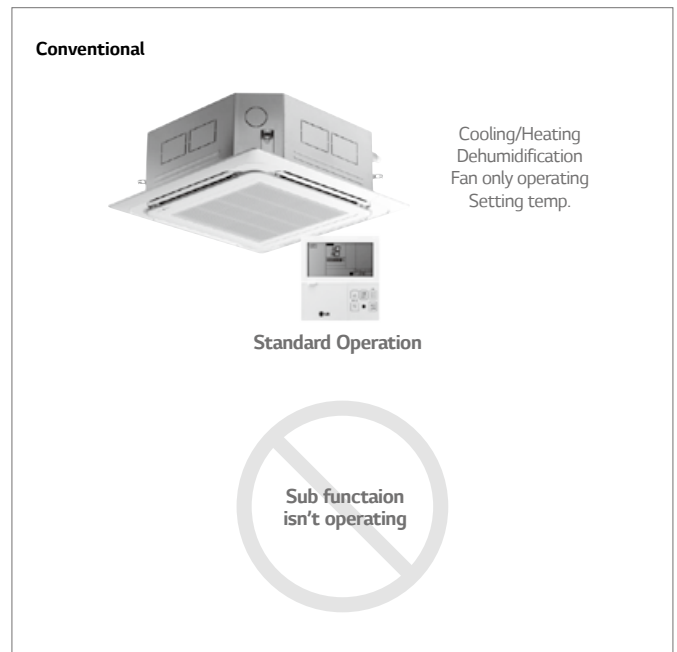
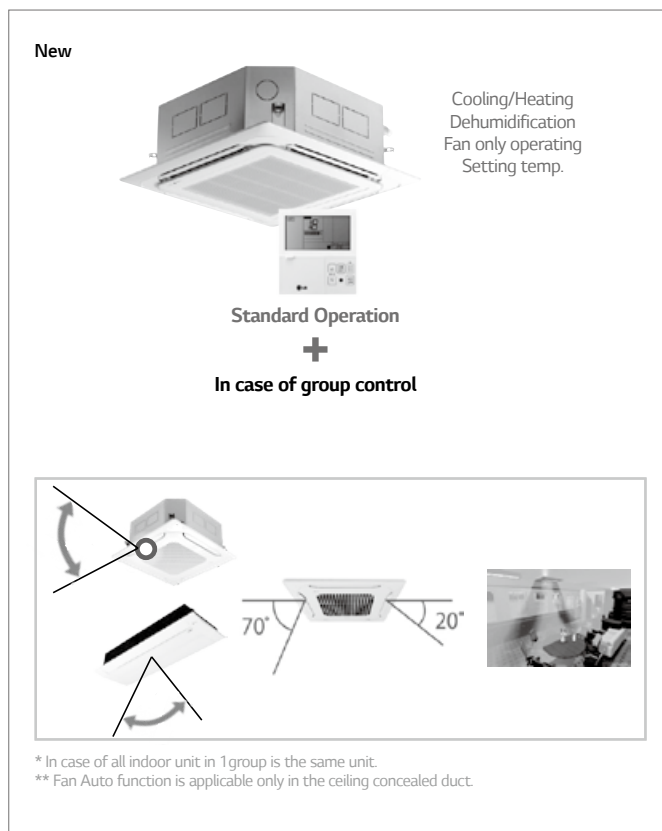
Static pressure 11 step control (Ceiling concealed duct)

Depending on the installation environment, 4series ceiling concealed duct is controlled the static pressure to 11step, for providing comfortable environment suitable for any environment.



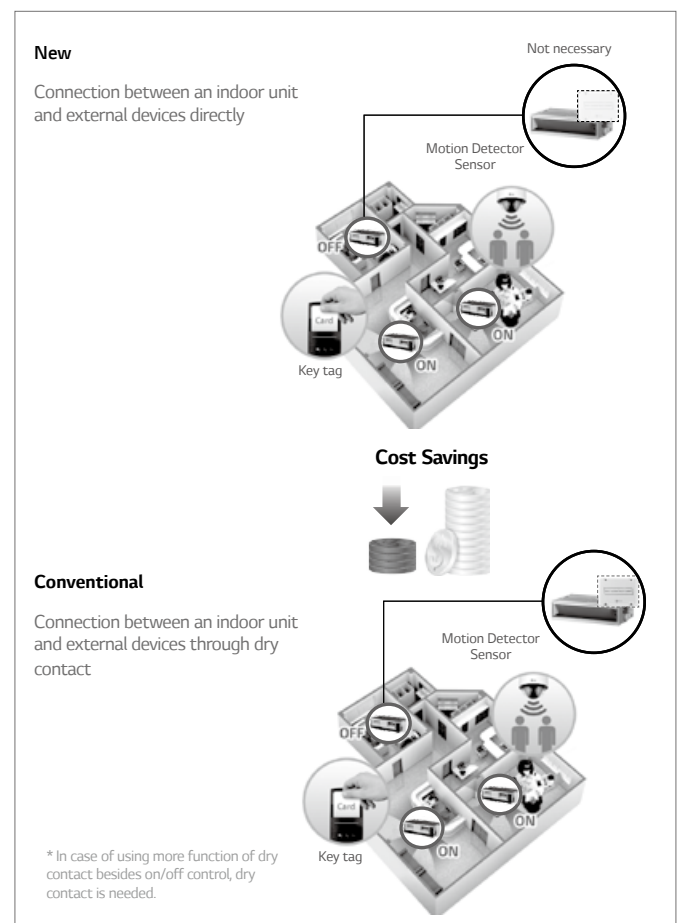
Group control

In case of group control, user can control much more function than conventional.



Control external devices (Built-in 1 point dry contact)

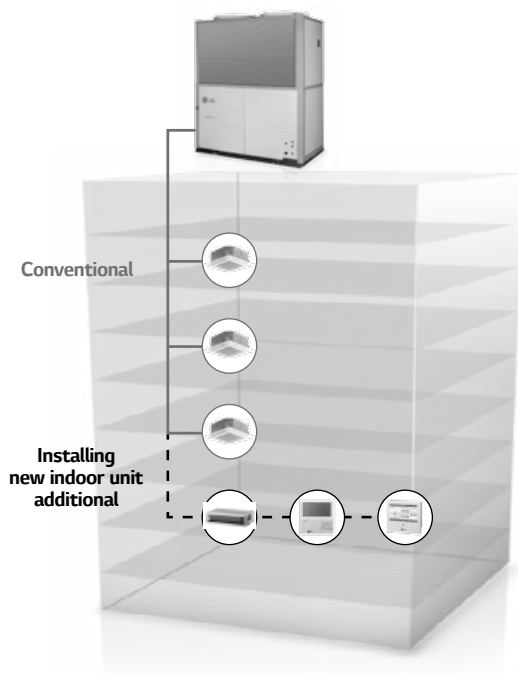
Indoor unit can control external devices without dry contact, so customer can save cost of installation.



Compatibility

4th generation indoor unit can be installed in a variety of environments because of be compatible with conventional indoor unit.

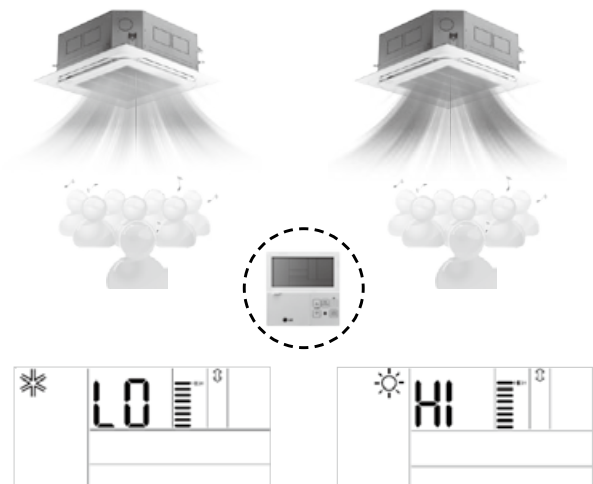
- **Outdoor unit**
 - Any GHP SUPER II series outdoor unit can be installed
- **Indoor unit**
 - Any GHP SUPER II series can be installed
- **Wired remote controller**
 - Standard II : PREMTB001, PREMTBB01
 - Premium : PREMTA000, PREMTA000A, PREMTA000B
- **Implementable Functions**
 - Static Pressure 11Step Control
 - Cooling thermo on/off range setting
 - Filter Sign
 - Control the external devices
 - Heating test run mode
 - Convenient check information (except for America)



Compatibility

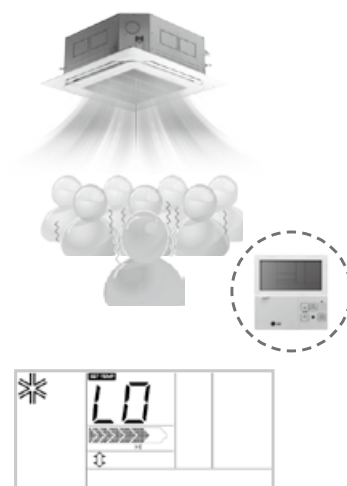
Test run mode can be operated cooling mode and heating mode for easy service.

New



Heating and cooling test run mode are available

Conventional



Heating test run mode is unavailable

Model information monitoring

User can check indoor unit and outdoor unit's information with wired remote controller, so that is convenient for service.

Category	No.	Model
First number : Outdoor unit	0	MULTI V
	1	MULTI
	2	Single

Category	No.	Model	No.	Model	No.	Model
Second number : Indoor unit	0	CST	6	Console	A	Hydrokit for medium temp.
	1	Duct	7	Single Package	B	Hydrokit for high temp.
	2	CVT	8	General Ventilation		
	3	PAC	9	AWHP		
	4	RAC				

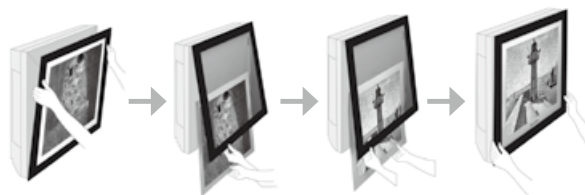
Category	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	
Third number : capacity of the indoor unit	MULTI V	0	5K	4	15K	8	36K	C	76K
		1	7K	5	18K	9	42K	D	96K
		2	9K	6	24K	A	48K		
		3	12K	7	28K	B	54K		
	MULTI	0	5K	4	12K	8	20K		
		1	7K	5	14K	9	24K		
		2	8K	6	15K	A	30K		
		3	9K	7	18K	B	36K		
	Single	0	9K	4	24K	8	48K		
		1	12K	5	30K	9	60K		
		2	18K	6	36K				
		3	21K	7	42K				



Aesthetic design

You no longer need to be told what your air conditioner should look like. With LG's revolutionary ARTCOOL Gallery, you can change the look of your air conditioner to whatever you want, whenever you want. The ARTCOOL series have outstanding designs and have been awarded the International Forum Design Award, the Reddot Design Award and the G Mark.

How to change the picture



Panel type



Silver 07/09/12GSFV2 **Gold** 07/09/12GSFG2 **Red** 07/09/12GSFE2 **White silver** 07/09/12GSFH2

ARTCOOL Mirror

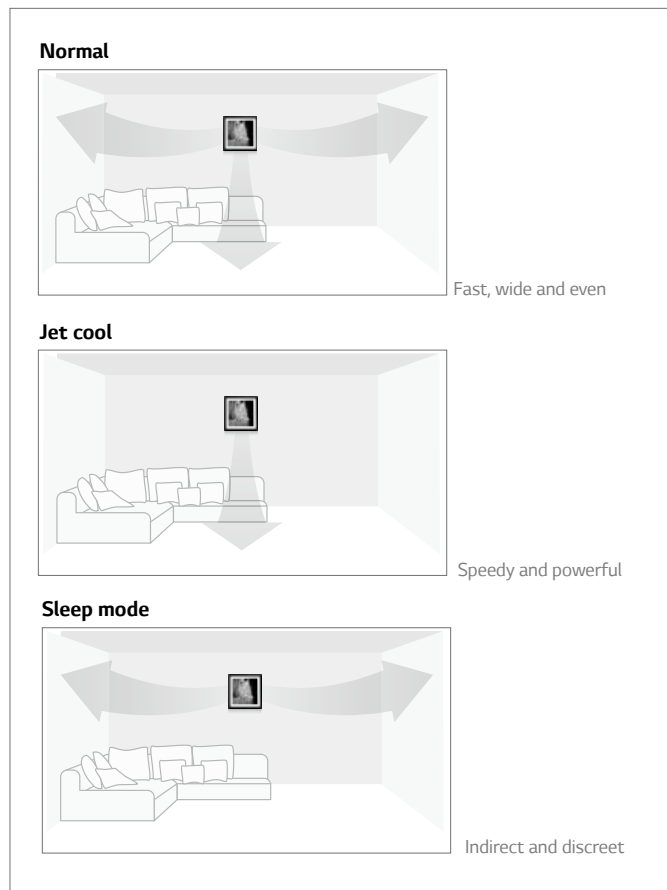


ARTCOOL Standard



Digital air flow control

The air flow can be controlled to ensure maximum comfort and convenience.

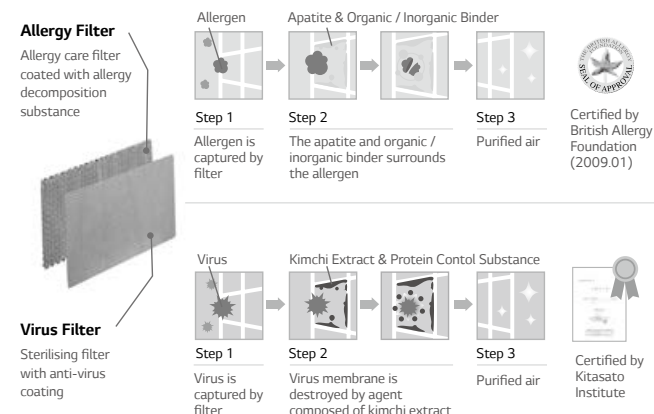


Filtering (Virus & Allergy safe filter)

The virus and allergy safe filters are scientifically proven to deactivate viruses that may pose risks to health.

Virus Deactivation

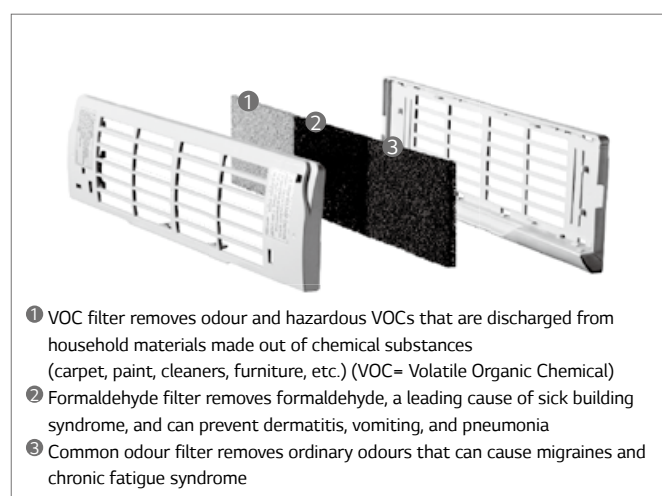
The LG virus & allergy safe filter blocks neuramidase and hemagglutinin, which is activated when the virus breaks up from host cell to proliferate.



Deodorising (Triple filter)

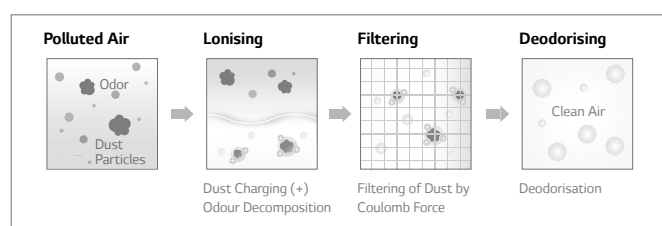
The triple filter consists of three special filters that can reduce the side effects caused by some organic compounds including formaldehyde. It has the ability to remove unpleasant odours and can create a more comfortable environment.

- Red filter removes smells such as smoke and food smells.
- Black filter removes the odour of new buildings such as formaldehyde.
- Blue filter removes the chemical smells such as the smell of fresh paint.



Eliminating (Plasma filter)

The plasma air purifying system, first developed by LG, reduces the presence of microscopic contaminants that cause allergies and asthma, such as dust particles, mites and pet fur.

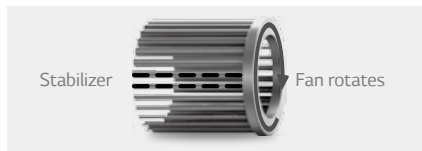


Low noise level

The indoor unit operates quietly in sleep mode for peace and quiet for in bedroom or office. For example, LG model AR-NU09GSBL2, ARNU12GSBL2 in sleep mode is only 19dB. In addition, the indoor units have reduced vibration and noise thanks to a super quiet fan and motor.

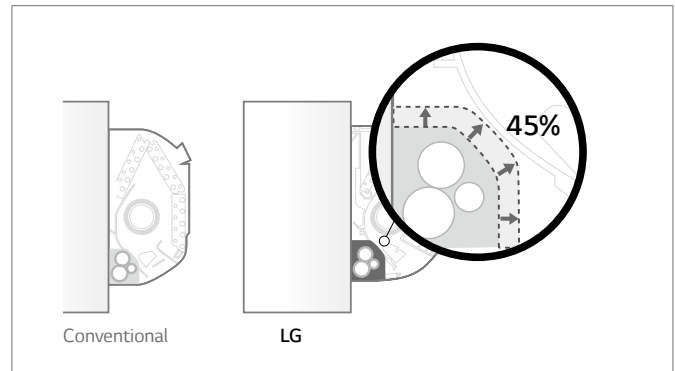
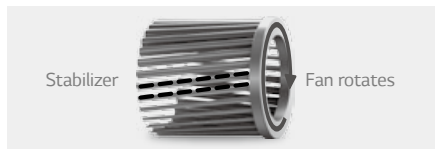
Conventional

When the fan rotates, the stabiliser and the fan blade are in parallel (= the contact of lines)
Instantaneous pressure change is great.



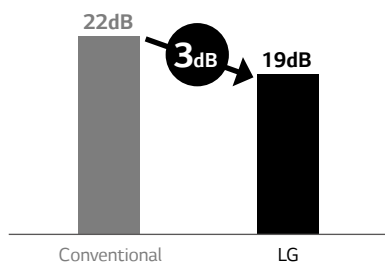
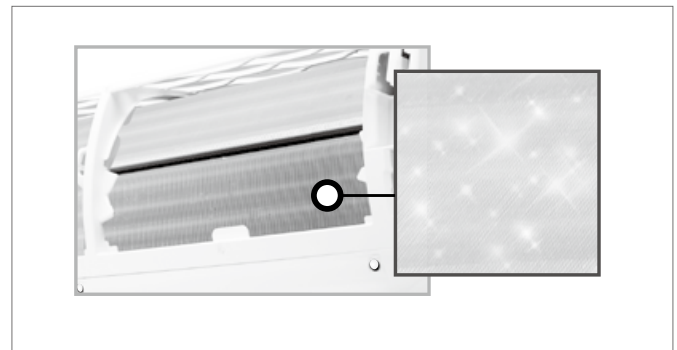
Skew fan

When the fan rotates, the stabiliser and the fan blade are not in parallel (= the contact of points)
→ Instantaneous pressure change is small.



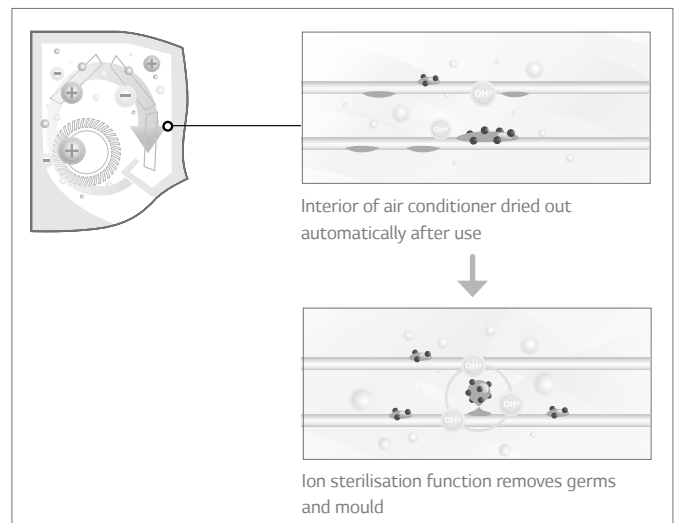
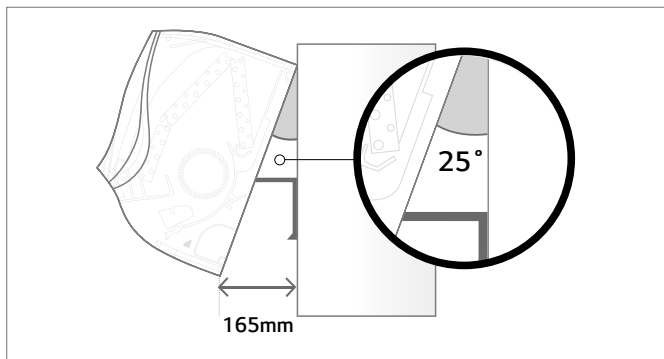
Auto cleaning

A major cause of air conditioner odours is mould and bacteria that can breed in the heat exchanger. The auto clean function dries the wet heat exchanger to prevent mould and bacteria from breeding which can significantly reduce smells and saves the user from frequent cleaning.



Installation support clip

A support clip creates adequate space between the wall and the unit for easier installation.



Wider tubing space

The tubing space is up to 45% wider than previous models for easier installation. The tubing space is wider than many products currently on the market.

ARTCOOL Mirror

ARNU05GSB*4 / ARNU07GSB*4 / ARNU09GSB*4
ARNU12GSB*4 / ARNU15GSB*4



Mirror (R)



White (W)



Silver (V)

Model	Independent Unit			ARNU05GSB*4	ARNU07GSB*4	ARNU09GSB*4	ARNU12GSB*4	ARNU15GSB*4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0
Power Input	Cooling	Nom	W	21.0	21.0	21.0	21.0	21.0
	Heating	Nom	W	21.0	21.0	21.0	21.0	21.0
Power Supply		Φ/V/Hz		1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
	Heating	H/M/L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
Sound Pressure		H/M/L	dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	40 / 36 / 32
Sound Power		H/M/L	dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Dimensions	Body	WxHxD	mm	895 × 289 × 205	895 × 289 × 205	895 × 289 × 205	895 × 289 × 205	895 × 289 × 205
Net Weight			kg	11.0	11.0	11.0	11.0	11.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7	12.7
	Drain	I.D	mm	16	16	16	16	16

* This product contains Fluorinated Greenhouse Gases (R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m
Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m
Level difference of zero

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

3. I.D - 'Internal Diameter'

Accessories

Model		ARNU05GSB*4	ARNU07GSB*4	ARNU09GSB*4	ARNU12GSB*4	ARNU15GSB*4
Dry Contact	Simple (1 Contact point with case)			PDRYCB000		
	2 Contact point			PDRYCB400		
	For Thermostat (On-off / Mode / Fan speed)			PDRYCB300		
	Modbus Communication			PDRYCB500		

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB001 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

ARTCOOL Mirror

ARNU18GSC*4 / ARNU24GSC*4



Mirror (R)



White (W)



Silver (V)

Model	Independent Unit			ARNU18GSC*4	ARNU24GSC*4
Capacity	Cooling	Nom	kW	5.6	7.1
	Heating	Nom	kW	6.3	8.0
Power Input	Cooling	Nom	W	39.5	39.5
	Heating	Nom	W	39.5	39.5
Power Supply			Φ/V/Hz	1 / 220 ~ 240 / 50, 60	1 / 220 ~ 240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
	Heating	H/M/L	m³/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
Sound Pressure		H/M/L	dB(A)	38 / 35 / 33	43 / 39 / 35
Sound Power		H/M/L	dB(A)	57 / 54 / 52	62 / 58 / 54
Dimensions	Body	WxHxD	mm	1 030 × 325 × 245	1 030 × 325 × 245
Net Weight			kg	15.5	15.5
Piping Connection	Liquid		mm	6.35	9.52
	Gas		mm	12.7	15.9
	Drain	I.D	mm	16	16

* This product contains Fluorinated Greenhouse Gases (R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

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

3. I.D - 'Internal Diameter'

Accessories

Model	ARNU18GSC*4	ARNU18GSC*4
Dry Contact	Simple (1 Contact point with case)	PDRYCB000
	2 Contact point	PDRYCB400
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300
	Modbus Communication	PDRYCB500

Wired Remote Controller					Wired Remote Controller
Premium	Standard II	Simple	Simple for Hotel		
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB001 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FB

ARTCOOL Gallery / Panel

ARNU07GSF*4 / ARNU09GSF*4 / ARNU12GSF*4

*1: Photo changeable
 - V : Silver
 - E : Red
 - G : Gold
 - H : White Silver



Model	Independent Unit			ARNU07GSF*4	ARNU09GSF*4	ARNU12GSF*4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6
	Heating	Nom	kW	2.5	3.2	4.0
Power Input	Cooling	Nom	W	27.6	27.6	35.0
	Heating	Nom	W	27.6	27.6	35.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0	9.3 / 7.7 / 6.0
	Heating	H/M/L	m³/min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
Sound Pressure		H/M/L	dBA	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Sound Power		H/M/L	dBA	48 / 44 / 39	48 / 44 / 39	54 / 48 / 42
Dimensions	Body	WxHxD	mm	600 X 600 X 146	600 X 600 X 146	600 X 600 X 146
Net Weight			kg	15	15	15
Piping Connection	Liquid		mm	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7
	Drain	I.D	mm	12.2	12.2	12.2

* This product contains Fluorinated Greenhouse Gases(R410A) / * Specification might be changed without prior notice

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D - 'Internal Diameter'

Accessories

Model		ARNU07GSF*4	ARNU09GSF*4	ARNU12GSF*4
Dry Contact	Simple (1 Contact point with case)		PDRYCB000	
	2 Contact point		PDRYCB400	
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300	
	Modbus Communication		PDRYCB500	

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PQRCVSL0QW	PQRCVSL0	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQWRHQ0FDB

Standard

ARNU05GSBL4 / ARNU07GSBL4 / ARNU09GSBL4
ARNU12GSBL4 / ARNU15GSBL4 / ARNU18GSCL4 / ARNU24GSCL4



Model	Independent Unit			ARNU05GSBL4	ARNU07GSBL4	ARNU09GSBL4	ARNU12GSBL4	ARNU15GSBL4	ARNU18GSCL4	ARNU24GSCL4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	21.0	21.0	21.0	21.0	21.0	39.5	39.5
	Heating	Nom	W	21.0	21.0	21.0	21.0	21.0	39.5	39.5
Power Supply		Φ/V/Hz		1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
	Heating	H/M/L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
Sound Pressure		H/M/L	dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	40 / 36 / 32	38 / 35 / 33	43 / 39 / 35
Sound Power		H/M/L	dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54	57 / 54 / 52	62 / 58 / 54
Dimensions	Body	WxHxD	mm	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	1,030 × 325 × 255	1,030 × 325 × 255
Net Weight			kg	10	10	10	10	10	14	14
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	12.7	12.7	15.9
	Drain	I.D	mm	16	16	16	16	16	16	16

* This product contains Fluorinated Greenhouse Gases (R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m
Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m
Level difference of zero

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

3. I.D - 'Internal Diameter'

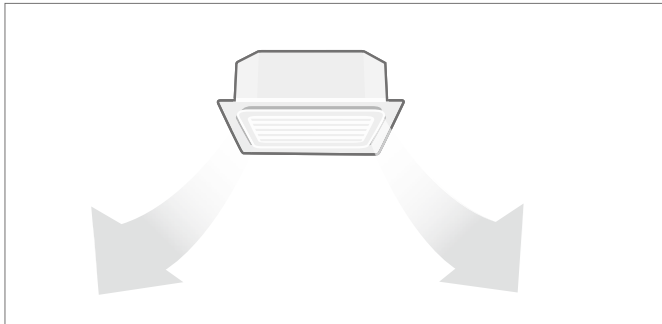
Accessories

Model	ARNU05GSBL4	ARNU07GSBL4	ARNU09GSBL4	ARNU12GSBL4	ARNU15GSBL4	ARNU18GSCL4	ARNU24GSCL4
Dry Contact	Simple (1 Contact point with case)			PDRYCB000			
	2 Contact point			PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)			PDRYCB300			
	Modbus Communication			PDRYCB500			

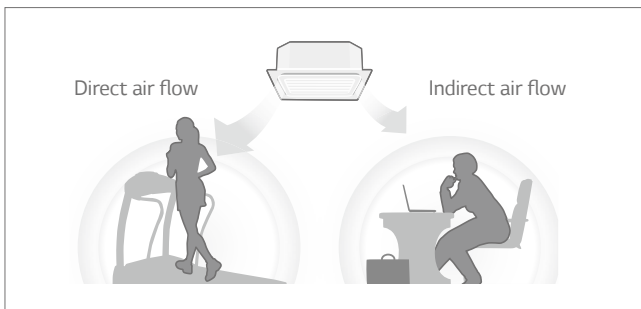
Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

Independent vane control

The Independent Vane Operation feature uses separate motors, making it possible to control all four vanes independently.



All vane operation

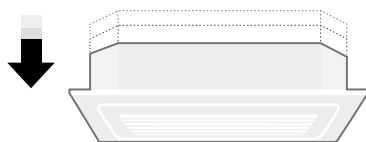


Independent vane control

Compact size

The indoor unit with slim and compact dimensions has reduced the restriction which enables successful installation in various spaces.

Standard Inverter	Height
7.1-8.0 kW	204mm
10.0 kW	246mm
12.5-15 kW	288mm



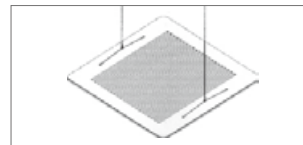
Length width : 840 x 840mm

Auto elevation grille

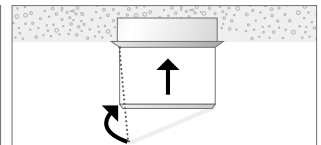
Easy filter cleaning with elevation grille.



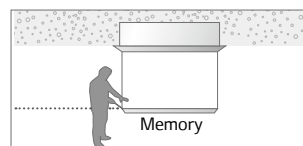
4-Point Support Structure



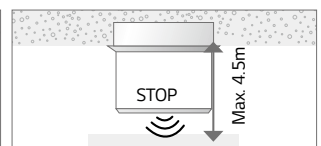
Auto Leveling



Memory for User's Level



Auto Stop Detection

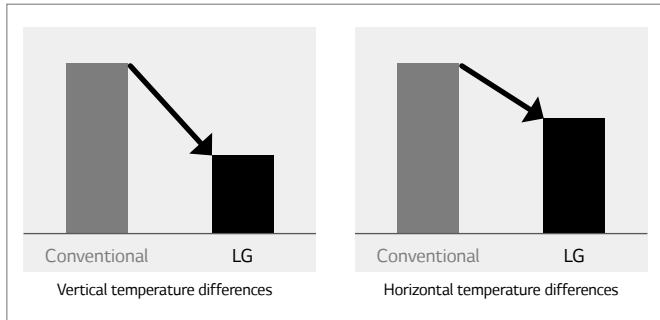


*Except ARNU05GTRC2, ARNU07GTRC2, ARNU09GTRC2, ARNU12GTRC2, ARNU15GTQC2, ARNU18GTQC2

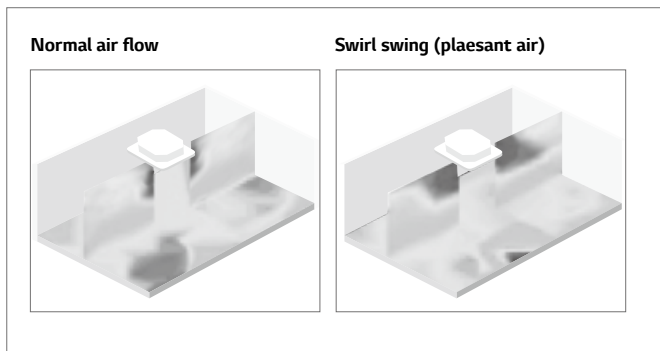
*Operating with wired remote controller PQRCVSL0(QW) and wireless remote controller included in PTEGM0.

Swirl swing

Swirl swing distributes air evenly throughout the room to ensure a more comfortable environment by adjusting the movement of the vane.

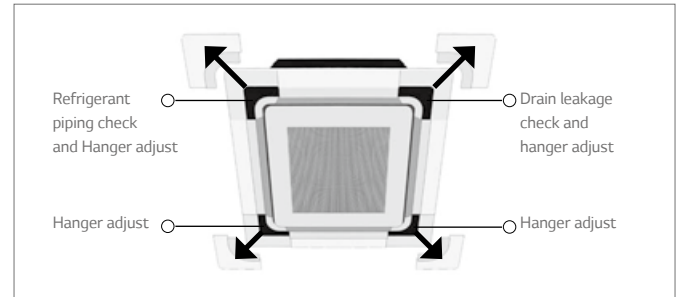


Comparison of temperatures

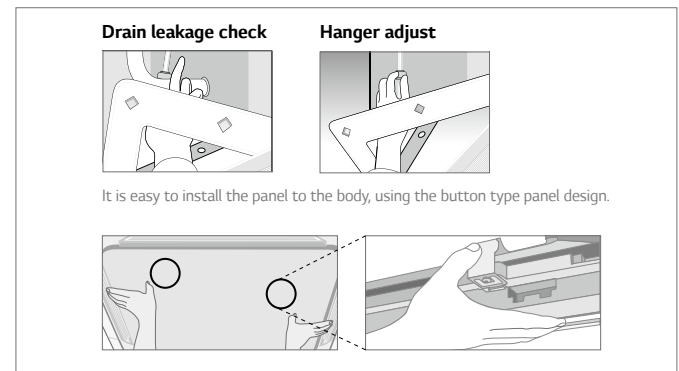


Convenient panel installation

The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.



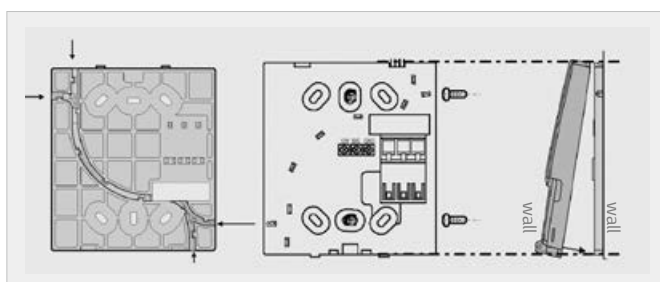
Easy & solid attachment to the wall



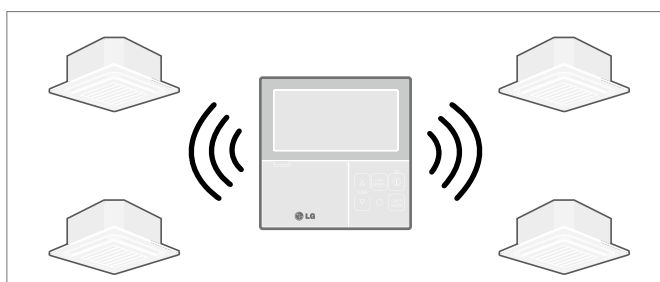
Flexible connection

Flexible connection of remote controller

- Group control: 1 remote controller up to 16 indoor units.
- Second remote control: 2 remote controllers to 1 indoor unit.



Easy & solid attachment to the wall



4 Way Cassette (570×570)

ARNU05GTRC4 / ARNU07GTRC4 / ARNU09GTRC4
 ARNU12GTRC4 / ARNU15GTQC4 / ARNU18GTQC4 / ARNU21GTQC4



Model	Independent Unit		ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4	ARNU21GTQC4
Capacity	Cooling	Nom kW	1.6	2.2	2.8	3.6	4.5	5.6	6.0
	Heating	Nom kW	1.8	2.5	3.2	4.0	5.0	6.3	6.8
Power Input	Cooling	Nom W	30.0	30.0	30.0	30.0	30.0	30.0	30
	Heating	Nom W	30.0	30.0	30.0	30.0	30.0	30.0	30
Power Supply		Φ/V/Hz	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60	1/220-240/50, 60
Airflow Rate	Cooling	H/M/L m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Heating	H/M/L m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
Sound Pressure		H/M/L dBA	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	42 / 40 / 35
Sound Power		H/M/L dBA	46 / 44 / 43	46 / 44 / 43	47 / 46 / 44	48 / 46 / 43	51 / 49 / 47	52 / 50 / 49	57 / 55 / 50
Dimensions	Body	WxHxD mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
Net Weight		kg	13.1	13.1	13.1	13.1	15.5	15.5	15
Piping Con- nection	Liquid	mm	6.35	6.4	6.35	6.4	6.35	6.35	9.52
	Gas	mm	12.7	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D mm	25	25	25	25	25	25	25
Decoration Panel	Model		PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC
	Colour		Morning fog	Morning fog	Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions	WxHxD mm	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700
	Weight	kg	3	3	3	3	3	3	2.8

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D - 'Internal Diameter'

Accessories

Model	ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4	ARNU21GTQC4
Dry Contact	Simple (1 Contact point with case)			PDRYCB000			
	2 Contact point			PDRYCB400			
	For Thermostat(On-off / Mode / Fan speed)			PDRYCB300			
	Modbus Communication			PDRYCB500			
Front Panel				PT-UQC			
Ventilation Kit				PTVK430			

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB001 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FB

4 Way Cassette (840×840)

ARNU24GTPC4 / ARNU28GTPC4 / ARNU30GTPC4
ARNU36GTNC4 / ARNU42GTMC4 / ARNU48GTMC4 / ARNU54GTMC4



Model	Independent Unit			ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4	ARNU42GTMC4	ARNU48GTMC4	ARNU54GTMC4
Capacity	Cooling	Nom	kW	7.1	8.2	9.0	10.6	12.3	14.1	15.8
	Heating	Nom	kW	8.0	9.2	10.0	11.9	13.8	15.9	18
Power Input	Cooling	Nom	W	33.0	33.0	33	144.0	144.0	144.0	144
	Heating	Nom	W	33.0	33.0	33	144.0	144.0	144.0	144
Power Supply		Φ/V/Hz		1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	17 / 15 / 13	19 / 16 / 14	24.3 / 22.8 / 19.5	25 / 22 / 20	30 / 26 / 23	32 / 27 / 25	34 / 32 / 27
	Heating	H/M/L	m³/min	17 / 15 / 13	19 / 16 / 14	24.3 / 22.8 / 19.5	25 / 22 / 20	30 / 26 / 23	32 / 27 / 25	34 / 32 / 27
Sound Pressure		H/M/L	dBA	36 / 34 / 31	39 / 35 / 33	42 / 38 / 33	44 / 41 / 38	45 / 41 / 38	46 / 42 / 40	48 / 46 / 42
Sound Power		H/M/L	dBA	55 / 53 / 50	56 / 52 / 50	59 / 55 / 50	62 / 59 / 56	63 / 59 / 56	65 / 61 / 59	67 / 65 / 61
Dimensions	Body	WxHxD	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight			kg	21.8	21.8	20.8	24.3	26.5	26.5	26.5
Piping Connection	Liquid		mm	9.52	9.52	Ø9.52	9.52	9.52	9.52	Ø9.52
	Gas		mm	15.88	15.88	Ø15.88	15.88	15.88	15.88	Ø15.88
	Drain	I.D	mm	25	25	25	25	25	25	25
Decoration Panel	Model			PT-UMC1	PT-UMC1	PT-UMC(1)	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC(1)
	Colour			Morning fog	Morning fog	Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions	WxHxD	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.6	5.6	6.3	5.6	5.6	5.6	6.3

* This product contains Fluorinated Greenhouse Gases (R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m
Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m
Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D - 'Internal Diameter'

Accessories

Model	ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4	ARNU42GTMC4	ARNU48GTMC4	ARNU54GTMC4
Dry Contact	Simple (1 Contact point with case)			PDRYCB000			
	2 Contact point			PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)			PDRYCB300			
	Modbus Communication			PDRYCB500			
Front Panel				PT-UMC1			
Auto Elevation Grille				PTEGMO			
Ventilation Kit				PTVK410 / PTVK420 / PTVK430			

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB001 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

2 Way Cassette

ARNU09GTLC4 / ARNU12GTLC4
 ARNU18GTLC4 / ARNU24GTLC4



Model	Independent Unit		ARNU09GTLC4	ARNU12GTLC4	ARNU18GTLC4	ARNU24GTLC4
Capacity	Cooling	Nom kW	2.8	3.6	5.6	7.1
	Heating	Nom kW	3.2	4.0	6.3	8.0
Power Input	Cooling	Nom W	70.0	70.0	70.0	70.0
	Heating	Nom W	70.0	70.0	70.0	70.0
Power Supply		Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L m³/min	9 / 8 / 7	10 / 9 / 8	13 / 12 / 10	17 / 15 / 13
	Heating	H/M/L m³/min	9 / 8 / 7	10 / 9 / 8	13 / 12 / 10	17 / 15 / 13
Sound Pressure		H/M/L dBA	31 / 30 / 29	32 / 31 / 30	40 / 36 / 32	42 / 38 / 34
Sound Power		H/M/L dBA	50 / 49 / 48	50 / 49 / 48	59 / 55 / 51	61 / 57 / 53
Dimensions	Body	WxHxD mm	830 × 225 × 550	830 × 225 × 550	830 × 225 × 550	830 × 225 × 550
Net Weight		kg	22	22	22	22
Piping Connection	Liquid	mm	6.35	6.35	6.35	6.35
	Gas	mm	12.7	12.7	12.7	12.7
	Drain	I.D mm	25	25	25	25
Decoration Panel	Model		PT-HLC	PT-HLC	PT-HLC	PT-HLC
	Colour		Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions	WxHxD mm	1,050 × 28 × 640	1,050 × 28 × 640	1,050 × 28 × 640	1,050 × 28 × 640
	Weight	kg	4.0	4.0	4.0	4.0

* This product contains Fluorinated Greenhouse Gases (R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D - 'Internal Diameter'

Accessories

Model	ARNU09GTLC4	ARNU12GTLC4	ARNU18GTLC4	ARNU24GTLC4
Dry Contact	Simple (1 Contact point with case)		PDRYCB000	
	2 Contact point		PDRYCB400	
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300	
	Modbus Communication		PDRYCB500	
Front Panel			PT-HLC	

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB001 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQWRHQ0FB

1 Way Cassette

ARNU07GTUC4 / ARNU09GTUC4
ARNU12GTUC4 / ARNU18GTTC4 / ARNU24GTTC4



Model	Independent Unit			ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTTC4	ARNU24GTTC4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	6.3	7.1
Power Input	Cooling	Nom	W	40.0	40.0	40.0	70.0	70.0
	Heating	Nom	W	40.0	40.0	40.0	70.0	70.0
Power Supply		$\Phi/V/Hz$		1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m ³ /min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Heating	H/M/L	m ³ /min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
Sound Pressure		H/M/L	dBA	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Sound Power		H/M/L	dBA	50 / 47 / 43	53 / 52 / 50	57 / 54 / 51	59 / 56 / 54	62 / 59 / 55
Dimensions	Body	WxHxD	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1 180 x 132 x 450	1 180 x 132 x 450
Net Weight			kg	14.7	14.7	14.7	18.7	18.7
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25	25	25	25	25
Decoration Panel	Model			PT-UUC(Grill), PT-UUD(Panel)	PT-UUC(Grill), PT-UUD(Panel)	PT-UUC(Grill), PT-UUD(Panel)	PT-UTC(Grill), PT-UTD(Panel)	PT-UTC(Grill), PT-UTD(Panel)
	Colour			White	White	White	White	White
	Dimensions	WxHxD	mm	1,100 x 34 x 500	1,100 x 34 x 500	1,100 x 34 x 500	1,420 x 34 x 500	1,420 x 34 x 500
	Weight		kg	4.6	4.6	4.6	5.5	5.5

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m
Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m
Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D - 'Internal Diameter'

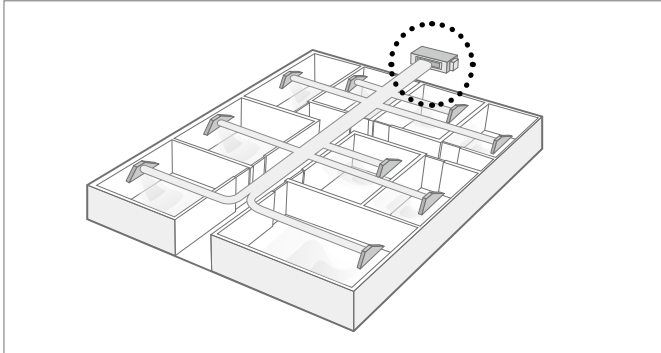
Accessories

Model	ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTTC4	ARNU24GTTC4
Dry Contact	Simple (1 Contact point with case)		PDRYCB000		
	2 Contact point		PDRYCB400		
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300		
	Modbus Communication		PDRYCB500		
Front Panel	PT-UUC (Grill) / PT-UUD (Panel)			PT-UTC (Grill) / PT-UTD (Panel)	

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

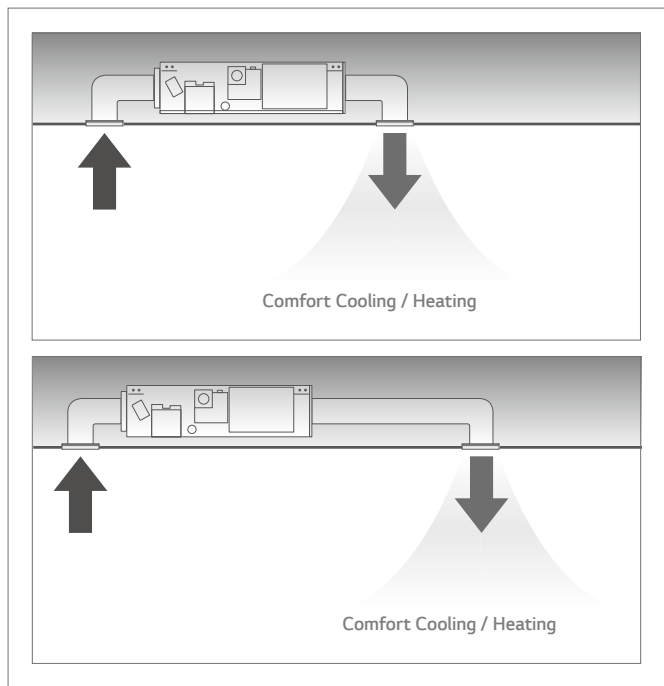
Operation for multiple rooms

Using a spiral duct (embedded or flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



E.S.P. (External Static Pressure) control

E.S.P. control function can make air volume controlled easily with remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.

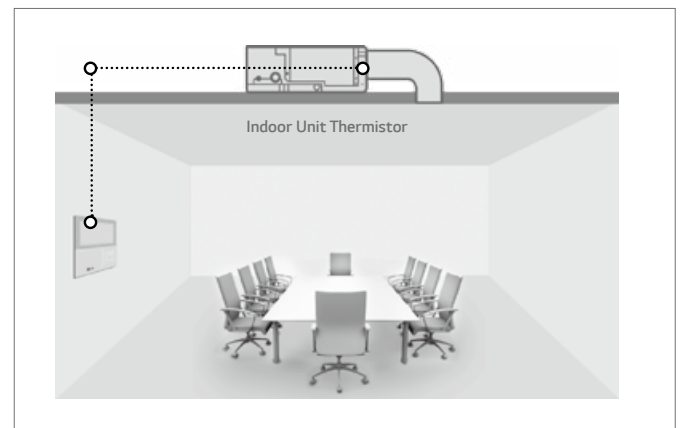


E.S.P. Control

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.

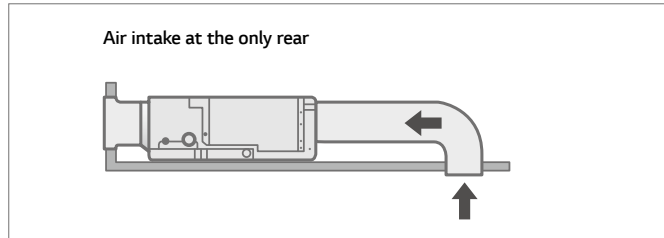
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users



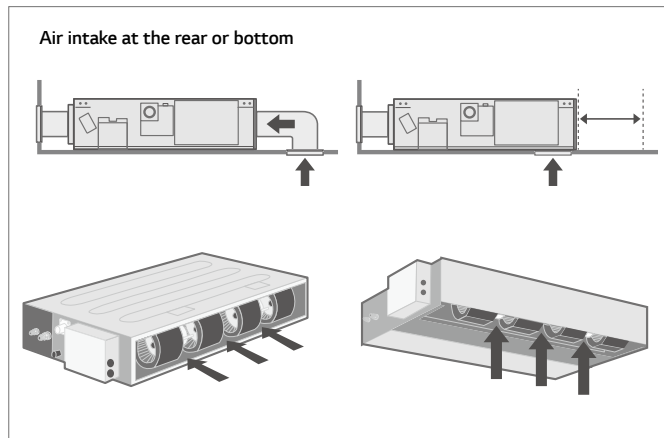
Remote controller thermistor

Flexible installation (Low static duct only)

The new low static duct allows the air intake at the rear or bottom under installation condition.



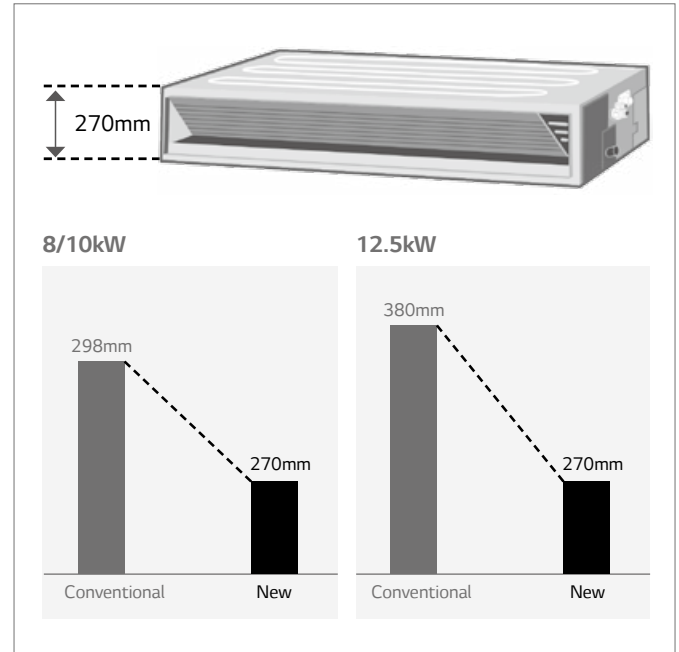
E.S.P. Control



New Low Static Duct

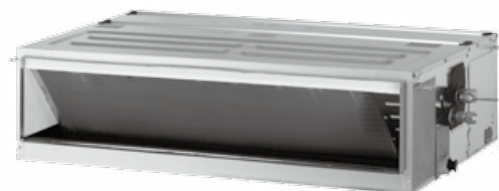
Minimized height

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



Mid / High Stactics

ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4
 ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4



Model	Independent Unit		ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Capacity	Cooling	Nom kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom W	190.0	190.0	190.0	190.0	190.0	190.0
	Heating	Nom W	190.0	190.0	190.0	190.0	190.0	190.0
Power Supply		Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L m ³ /min	14.5 / 13.5 / 11.3	15.0 / 13.5 / 12.0	15.5 / 14.0 / 12.5	16.0 / 14.0 / 13.0	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5
	Heating	H/M/L m ³ /min	14.5 / 13.5 / 11.3	15.0 / 13.5 / 12.0	15.5 / 14.0 / 12.5	16.0 / 14.0 / 13.0	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.5
Sound Pressure		H/M/L dBA	38 / 34 / 30	38 / 34 / 31	38 / 35 / 31	38 / 35 / 32	39 / 36 / 33	40 / 37 / 34
Sound Power		H/M/L dBA	61 / 58 / 55	61 / 58 / 56	61 / 59 / 56	61 / 59 / 57	62 / 60 / 58	63 / 60 / 59
Dimensions	Body	WxHxD mm	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700
Net Weight		kg	25.5	25.5	25.5	25.5	25.5	26.5
Piping Connection	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88
	Drain	I.D mm	25	25	25	25	25	25
Fan Motor Output x Number		W	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

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

3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressue) as standard.

4. I.D - 'Internal Diameter'

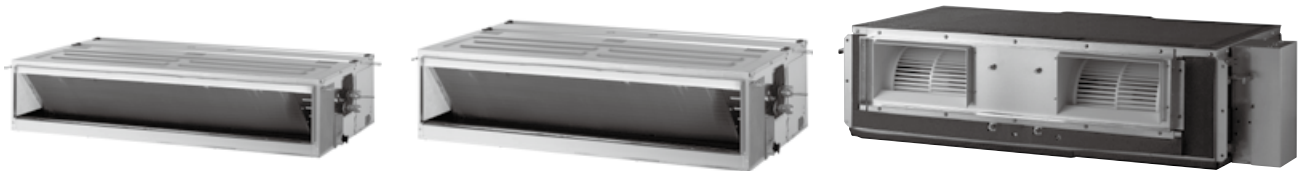
Accessories

Model	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Dry Contact	Simple (1 Contact point with case)		PDRYCB000			
	2 Contact point		PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300			
	Modbus Communication		PDRYCB500			

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)		PQRCVCL0Q (Black) PQRCVCL0QW (White)		PQWRHQ0FB
		PREMTB001 (Black)		PQRCHCA0Q(Black) PQRCHCA0QW(White)	

Mid / High Statics

ARNU28GM2A4 / ARNU36GM2A4 / ARNU42GM2A4
ARNU48GM3A4 / ARNU54GM3A4 / ARNU76GB8A4 / ARNU96GB8A4



Model	Independent Unit			ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4	ARNU76GB8A4	ARNU96GB8A4
Capacity	Cooling	Nom	kW	8.2	10.6	12.3	14.1	15.8	22.4	28
	Heating	Nom	kW	9.2	11.9	13.8	15.9	18.0	25.2	31.5
Power Input	Cooling	Nom	W	350.0	350.0	350.0	400.0	400.0	800.0	800.0
	Heating	Nom	W	350.0	350.0	350.0	400.0	400.0	800.0	800.0
Power Supply		Φ/V/Hz		1/220~240/50,60	1/220~240/50,60	1/220~240/50,60	1/220~240/50,60	1/220~240/50,60	1/220~240/50,60	1/220~240/50,60
Airflow Rate	Cooling	H/M/L	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	Heating	H/M/L	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
Sound Pressure		H/M/L	dBA	36 / 34 / 33	39 / 36 / 34	42 / 40 / 38	41 / 38 / 36	46 / 44 / 41	50 / 48 / 48	52 / 50 / 50
Sound Power		H/M/L	dBA	59 / 57 / 55	61 / 59 / 57	62 / 60 / 59	66 / 63 / 61	70 / 68 / 66	70 / 68 / 68	72 / 70 / 70
Dimensions	Body	WxHxD	mm	1250 × 270 × 700	1250 × 270 × 700	1250 × 270 × 700	1250 × 360 × 700	1250 × 360 × 700	1,562 × 460 × 688	1,562 × 460 × 688
Net Weight			kg	38	38	39.5	44.0	44.0	87.0	87.0
Piping Connection	Liquid		mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas		mm	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø19.05	Ø19.05	Ø22.2
	Drain	I.D	mm	25	25	25	25	25	25	25
Fan Motor Output x Number			W	350 x 1	350 x 1	350 x 1	350 x 1	350 x 1	375 x 2	375 x 2

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m
Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m
Level difference of zero

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

3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressure) as standard.

4. I.D - 'Internal Diameter'

Accessories

Model	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4	ARNU76GB8A4	ARNU96GB8A4
Dry Contact	Simple (1 Contact point with case)			PDRYCB000			
	2 Contact point			PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)			PDRYCB300			
	Modbus Communication			PDRYCB500			

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)		PREMTB001 (Black)		PQRCVCL0Q (Black) PQRCVCL0QW (White)
				PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

High static duct

ARNU07GBHA4 / ARNU09GBHA4 / ARNU12GBHA4
 ARNU15GBHA4 / ARNU18GBHA4 / ARNU24GBHA4 / ARNU28GBHA4



Model	Independent Unit		ARNU07GBHA4	ARNU09GBHA4	ARNU12GBHA4	ARNU15GBHA4	ARNU18GBHA4	ARNU24GBHA4	ARNU28GBHA4
Capacity	Cooling	Nom kW	2.2	2.8	3.6	4.5	5.6	7.1	8.2
	Heating	Nom kW	2.5	3.2	4.0	5.0	6.3	8.0	9.2
Power Input	Cooling	Nom W	150.0	150.0	150.0	150.0	150.0	150.0	150
	Heating	Nom W	150.0	150.0	150.0	150.0	150.0	150.0	150
Power Supply		ø/V/Hz	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60	1/220-240/50,60
Airflow Rate (High mode)	Cooling	H/M/L m³/min	6.5 / 5.8 / 5.4	8.1 / 6.5 / 5.8	9.6 / 8.1 / 6.5	11.3 / 9.6 / 6.5	13.0 / 11.3 / 9.6	16.0 / 14.4 / 13.0	19.8 / 17.6 / 15.7
	Heating	H/M/L m³/min	6.5 / 5.8 / 5.4	8.1 / 6.5 / 5.8	9.6 / 8.1 / 6.5	11.3 / 9.6 / 6.5	13.0 / 11.3 / 9.6	16.0 / 14.4 / 13.0	19.8 / 17.6 / 15.7
Sound Pressure		H/M/L dBA	34 / 33 / 32	36 / 35 / 33	37 / 35 / 34	39 / 37 / 34	40 / 38 / 37	42 / 41 / 40	43 / 41 / 40
Sound Power		H/M/L dBA	54 / 53 / 52	55 / 54 / 53	57 / 55 / 54	59 / 57 / 54	60 / 58 / 57	62 / 61 / 60	62 / 60 / 59
Dimensions	Body	WxDxH mm	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450
Net Weight		kg(lbs)	26.0	26.0	26.0	26.0	26.5	26.5	27
Piping Connection	Liquid	mm(inch)	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52
	Gas	mm(inch)	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88	Ø15.88
	Drain	I.D. mm(inch)	25	25	25	25	25	25	25
Fan motor output x Number		W	154 x 1	154 x 1	154 x 1	154 x 1	154 x 1	154 x 1	154

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

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

3. BH: The Sound Pressure test condition is based on 50 Pa (Static Pressure) as standard.

4. I.D - 'Internal Diameter'

Accessories

Model	ARNU07GBHA4	ARNU09GBHA4	ARNU12GBHA4	ARNU15GBHA4	ARNU18GBHA4	ARNU24GBHA4	ARNU28GBHA4
Dry Contact	Simple (1 Contact point with case)			PDRYCB000			
	2 Contact point			PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)			PDRYCB300			
	Modbus Communication			PDRYCB500			

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)		PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQWRHQ0FDB

High static duct

ARNU36GBGA4 / ARNU42GBGA4 / ARNU48GBGA4
ARNU54GBRA4 / ARNU60GB7A4 / ARNU76GB8A4 / ARNU96GB8A4



Model	Independent Unit			ARNU36GBGA4	ARNU42GBGA4	ARNU48GBGA4	ARNU54GBRA4	ARNU60GB7A4	ARNU76GB8A4	ARNU96GB8A4
Capacity	Cooling	Nom	kW	106	123	141	158	175	224	280
	Heating	Nom	kW	119	138	159	180	197	252	315
Power Input	Cooling	Nom	W	3500	3500	450	4500	600	8000	8000
	Heating	Nom	W	3500	3500	450	4500	600	8000	8000
Power Supply			ø/V/Hz	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60
Airflow Rate (High mode)	Cooling	H/M/L	m³/min	32.3 / 29.0 / 25.3	34.5 / 32.3 / 30.7	34.6 / 31.8 / 27.9	51.0 / 44.8 / 40.6	51.6 / 48.5 / 44.3	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	Heating	H/M/L	m³/min	32.3 / 29.0 / 25.3	34.5 / 32.3 / 30.7	34.6 / 31.8 / 27.9	51.0 / 44.8 / 40.6	51.6 / 48.5 / 44.3	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
Sound Pressure		H/M/L	dBA	44 / 43 / 42	45 / 44 / 44	45 / 43 / 42	46 / 45 / 43	48 / 46 / 45	50 / 48 / 48	52 / 50 / 50
Sound Power		H/M/L	dBA	62 / 61 / 60	64 / 62 / 62	64 / 62 / 61	65 / 62 / 60	68 / 66 / 65	70 / 68 / 68	72 / 70 / 70
Dimensions	Body	WxDxH	mm	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,230 x 380 x 590	1,320 x 400 x 534	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg(lbs)	38.0	38.0	38	51.0	55	87.0	87.0
Piping Connection	Liquid		mm(inch)	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas		mm(inch)	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø19.05	Ø19.05	Ø22.2
	Drain	I.D.	mm(inch)	25	25	25	25	25	25	25
Fan motor output x Number		W		350 x 1	350 x 1	350	185 x 2	195 x 2	375 x 2	375 x 2

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m
Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m
Level difference of zero

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

3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressure) as standard.

4. I.D - 'Internal Diameter'

Accessories

Model	ARNU36GBGA4	ARNU42GBGA4	ARNU48GBRA4	ARNU54GBRA4	ARNU60GB7A4	ARNU76GB8A4	ARNU96GB8A4
Dry Contact	Simple (1 Contact point with case)			PDRYCB000			
	2 Contact point			PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)			PDRYCB300			
	Modbus Communication			PDRYCB500			

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)		PQRCVCLQ (Black) PQRCVCLQW (White)	PQRCCHA0Q (Black) PQRCCHA0QW (White)	PQWRHQFDB

Low stactics

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4



Model	Independent Unit			ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Capacity	Cooling	Nom	kW	1.7	2.2	2.8
	Heating	Nom	kW	1.9	2.5	3.2
Power Input	Cooling	Nom	W	40.0	40.0	40.0
	Heating	Nom	W	40.0	40.0	40.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	Heating	H/M/L	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
Sound Pressure		H/M/L	dBA	26 / 25 / 23	27 / 26 / 23	30 / 26 / 23
Sound Power		H/M/L	dBA	47 / 46 / 44	48 / 47 / 44	49 / 47 / 44
Dimensions	Body	WxHxD	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
Net Weight			kg	17.5	17.5	17.5
Piping Connection	Liquid		mm	Ø6.35	Ø6.35	Ø6.35
	Gas		mm	Ø12.7	Ø12.7	Ø12.7
	Drain	I.D	mm	25	25	25
Fan Motor Output x Number			W	19 x 1	19 x 1	19 x 1

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

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

3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressue) as standard.
 4. I.D - 'Internal Diameter'

Accessories

Model	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Dry Contact	Simple (1 Contact point with case)	PDRYCB000	
	2 Contact point	PDRYCB400	
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300	
	Modbus Communication	PDRYCB500	

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

Low stactics

ARNU12GL2G4 / ARNU15GL2G4
ARNU18GL2G4 / ARNU21GL3G4 / ARNU24GL3G4



Model	Independent Unit			ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4
Capacity	Cooling	Nom	kW	3.6	4.5	5.6	6.2	7.1
	Heating	Nom	kW	4	5	6.3	7	8
Power Input	Cooling	Nom	W	85.0	85.0	85.0	115.0	115.0
	Heating	Nom	W	85.0	85.0	85.0	115.0	115.0
Power Supply		Φ/V/Hz		1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	Heating	H/M/L	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
Sound Pressure		H/M/L	dBA	31 / 29 / 26	34 / 31 / 29	36 / 34 / 31	37 / 34 / 32	39 / 35 / 32
Sound Power		H/M/L	dBA	52 / 49 / 46	53 / 51 / 49	54 / 52 / 50	56 / 53 / 51	58 / 54 / 51
Dimensions	Body	WxHxD	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700	1,100 x 190 x 700
Net Weight			kg	23	23	23	27	27
Piping Connection	Liquid		mm	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52
	Gas		mm	Ø12.7	Ø12.7	Ø12.7	Ø15.88	Ø15.88
	Drain	I.D	mm	25	25	25	25	25
Fan Motor Output x Number			W	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m
Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m
Level difference of zero

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

3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressue) as standard.

4. I.D - 'Internal Diameter'

Accessories

Model	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4
Dry Contact	Simple (1 Contact point with case)		PDRYCB000		
	2 Contact point		PDRYCB400		
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300		
	Modbus Communication		PDRYCB500		

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB001 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQWRHQ0FDB

Built-in

ARNU07GB3G4 / ARNU09GB3G4 / ARNU12GB3G4
 ARNU15GB3G4 / ARNU18GB4G4 / ARNU24GB4G4



Model	Independent Unit			ARNU07GB3G4	ARNU09GB3G4	ARNU12GB3G4	ARNU15GB3G4	ARNU18GB4G4	ARNU24GB4G4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	85.0	85.0	85.0	85.0	115.0	115.0
	Heating	Nom	W	85.0	85.0	85.0	85.0	115.0	115.0
Power Supply			Φ/V/Hz	1 / 220~240 / 50, 60	1 / 220~240 / 50, 60	1 / 220~240 / 50, 60	1 / 220~240 / 50, 60	1 / 220~240 / 50, 60	1 / 220~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
	Heating	H/M/L	m³/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
Sound Pressure		H/M/L	dBA	33 / 32 / 29	34 / 33 / 32	35 / 34 / 33	41 / 40 / 37	43 / 40 / 37	46 / 43 / 37
Sound Power		H/M/L	dBA	53 / 52 / 49	54 / 53 / 52	55 / 54 / 53	60 / 59 / 56	61 / 58 / 55	62 / 59 / 55
Dimensions	Body	WxHxD	mm	820 x 190 x 575	820 x 190 x 575	820 x 190 x 575	820 x 190 x 575	1,100 x 190 x 575	1,100 x 190 x 575
Net Weight			kg	21	21	21	21	26	26
Piping Connection	Liquid		mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas		mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88
	Drain	I.D	mm	25	25	25	25	25	25
Fan Motor Output x Number			W	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

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

3. I.D - 'Internal Diameter'

Accessories

Model	ARNU07GB3G4	ARNU09GB3G4	ARNU12GB3G4	ARNU15GB3G4	ARNU18GB4G4	ARNU24GB4G4
Dry Contact	Simple (1 Contact point with case)		PDRYCB000			
	2 Contact point		PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300			
	Modbus Communication		PDRYCB500			
Suction Grille	PBSGB30				PBSGB40	
Suction Canvas	PBSC30				PBSC40	

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

High sensible

ARNU18GBRA2 / ARNU24GBRA2
ARNU36GB8A2 / ARNU42GB8A2 / ARNU48GB8A2



Model	Independent Unit			ARNU18GBRA2	ARNU24GBRA2	ARNU36GB8A2	ARNU42GB8A2	ARNU48GB8A2
Capacity	Cooling	Nom	kW	5.6	7.1	10.6	12.3	14.1
	Heating	Nom	kW	6.3	8.0	11.9	13.8	15.9
Power Input	Cooling	Nom	W	450.0	450.0	800.0	800.0	800.0
	Heating	Nom	W	450.0	450.0	800.0	800.0	800.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	29.1 / 24.0 / 19.2	34.2 / 29.1 / 24.0	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
	Heating	H/M/L	m³/min	29.1 / 24.0 / 19.2	34.2 / 29.1 / 24.0	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
Sound Pressure		H/M/L	dBA	43 / 42 / 41	44 / 43 / 42	46 / 45 / 42	47 / 46 / 43	47 / 46 / 44
Sound Power		H/M/L	dBA	62 / 61 / 60	63 / 62 / 61	66 / 64 / 61	67 / 66 / 62	67 / 66 / 63
Dimensions	Body	WxHxD	mm	1,230 x 380 x 590	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 689	1,562 x 460 x 690
Net Weight			kg	51	51	87	87	87
Piping Connection	Liquid		mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas		mm	Ø15.88	Ø15.88	Ø19.05	Ø19.05	Ø19.05
	Drain	I.D	mm	25	25	25	25	25
Fan Motor Output x Number			W	185 x 2	185 x 2	375 x 2	375 x 2	375 x 2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m
Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m
Level difference of zero

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

3. I.D - 'Internal Diameter'

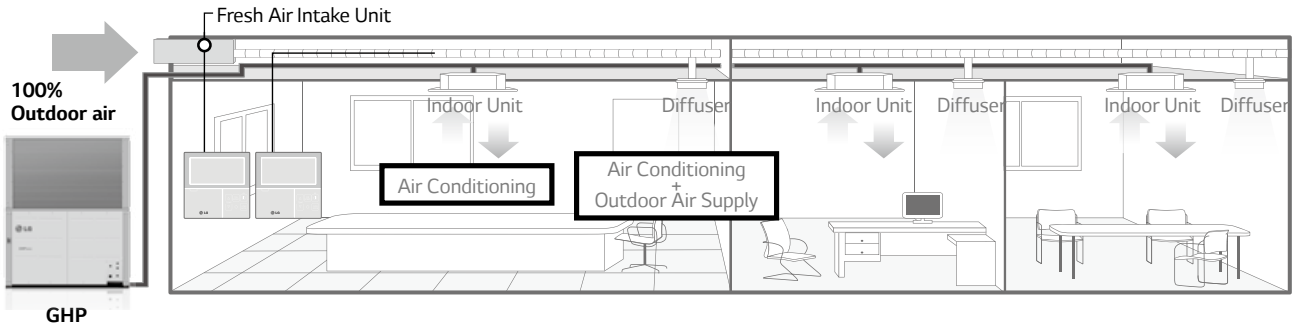
Accessories

Model	ARNU18GBRA2	ARNU24GBRA2	ARNU36GB8A2	ARNU42GB8A2	ARNU48GB8A2
Dry Contact	Simple (1 Contact point with case)		PDRYCB000		
	2 Contact point		PDRYCB400		
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300		
	Modbus Communication		PDRYCB500		

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PQRCVSL0QW	PQRCVSL0	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

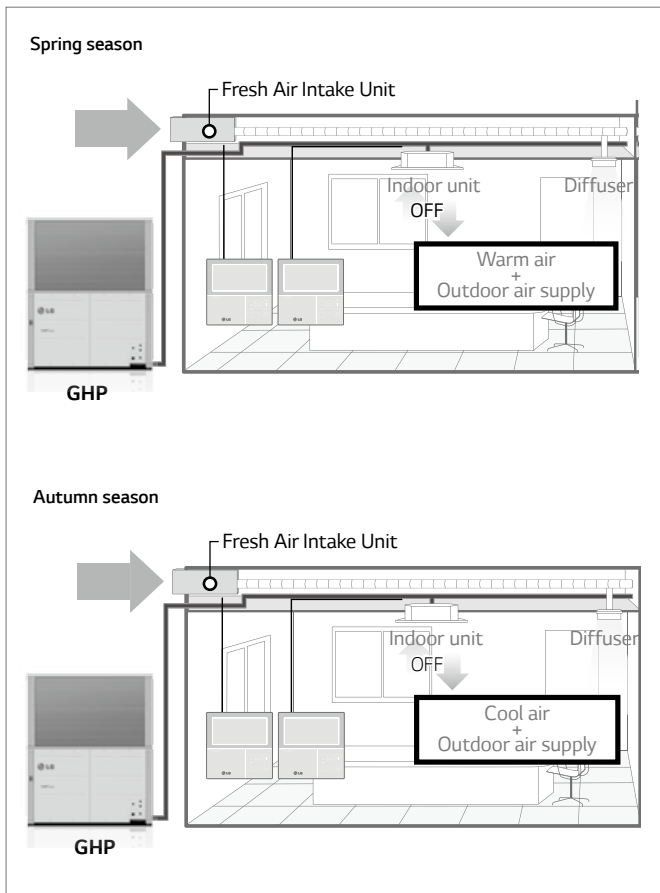
High head drain pump

The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as being able to cool and heat air inside simultaneously. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated air from outside.



Economic operation

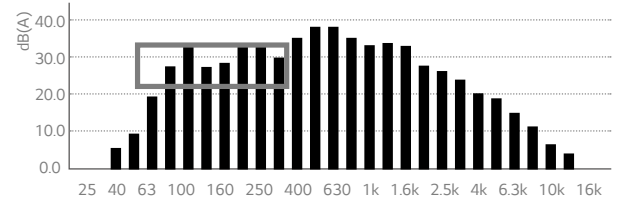
Using the free cooling and heating can save costs by blowing the natural outdoor air inside when the season change.



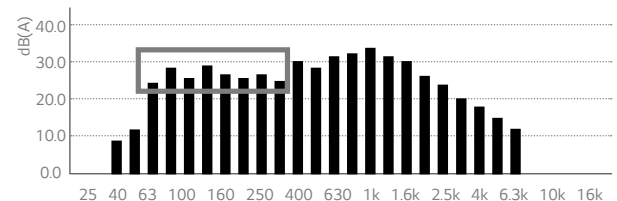
BLDC Fan motor

It can reduce a noise at low frequencies.

AC Tap Motor



BLDC motor



Fresh air intake unit

ARNU48GBRZ4 / ARNU76GB8Z4 / ARNU96GB8Z4



Model	Independent Unit			ARNU48GBRZ4	ARNU76GB8Z4	ARNU96GB8Z4
Capacity	Cooling	Nom	kW	14.1	22.4	28
	Heating	Nom	kW	13.5	21.4	26.7
Power Input	Cooling	Nom	W	169.0	230.0	360.0
	Heating	Nom	W	169.0	230.0	360.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	18.8/14.7/14.7	23.7/13.2/13.2	35.7/23.7/23.7
	Heating	H/M/L	m³/min	18.8/14.7/14.7	23.7/13.2/13.2	35.7/23.7/23.7
Sound Pressure		H/M/L	dBA	44/42/42	49/47/47	50/48/48
Sound Power		H/M/L	dBA	65 / 63 / 62	69 / 67 / 67	70 / 68 / 68
Dimensions	Body	WxHxD	mm	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg	45	73	73
Piping Connection	Liquid		mm	Ø9.52	Ø9.52	Ø9.52
	Gas		mm	Ø15.88	Ø19.05	Ø22.2
	Drain	I.D	mm	25	25	25
Fan Motor Output x Number			W	195 x 1	375 x 1	375 x 1

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

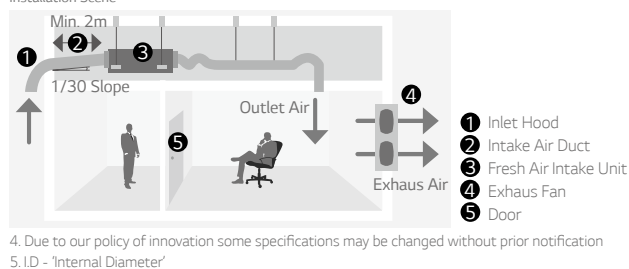
1. Capacities are based on the following conditions:

- Cooling - Outdoor temp. 33°C(91.4°F)DB / 28°C(82.4°F)WB
IDU-ODU Piping Length : 7.5m
Level Difference of Zero
- Heating - Outdoor temp. 0°C(32°F)DB / -2.9°C(26.78°F)WB
Interconnecting Piping Length : 7.5m
Level Difference of Zero

2. Capacities are net capacities

3. Noise Level is under standard mode(For actual High Mode(Factory set) condition.
Noise Level may exceed the standard level by 1.5dB(A)

Installation Scene



CAUTION

1. Operation range (Cooling : 5°C ~ 43°C, Heating : -5°C ~ 43°C) 2. Installation of exhaust fan is recommended for a sealed room. 3. Indoor Unit Connection

No	Connection Condition	Combination
1	Fresh Air Intake Units only are connected with outdoor units	1) The total capacity of Fresh Air Intake Unit should be 50~100% of outdoor unit. 2) The max quantity of Fresh Air Intake is 2 units.
2	Mixture connection with general indoor unit and Fresh Intake units	1) The total capacity of indoor units(standard indoor unit + Fresh Air Intake Unit) should be 50~100% of outdoor unit. 2) The total capacity of Fresh Air Intake Unit should be less than 30% of the total capacity of indoor units.

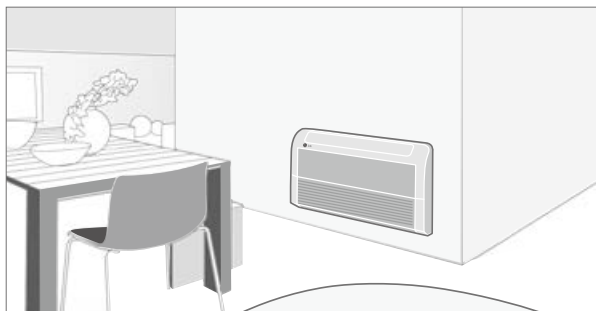
Accessories

Model	ARNU48GBRZ4	ARNU76GB8Z4	ARNU96GB8Z4
Dry Contact	Simple (1 Contact point with case)	PDRYCB000	
	2 Contact point	PDRYCB400	
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300	
	Modbus Communication	PDRYCB500	

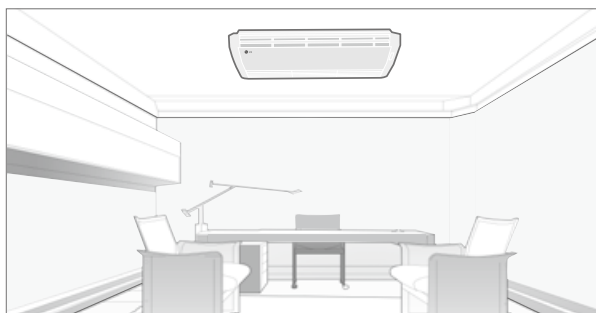
Wired Remote Controller					Wired Remote Controller
Premium	Standard II	Simple	Simple for Hotel		
					
PREMTA000 PREMTA000A PREMTA000B	PQRCVSL0QW	PQRCVSL0	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQWRHQ0FDB

Flexible installation

The ceiling and floor models can be installed either on the ceiling or on the floor. This saves space when installed in the shops or offices.



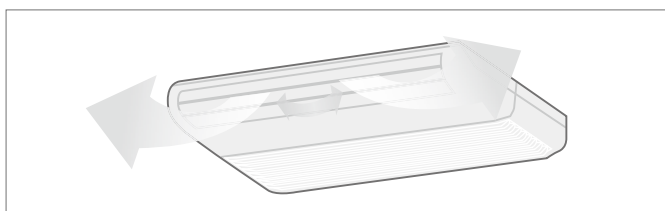
* Ceiling & Floor : ARNU09GVEA2, ARNU12GVEA2



Airflow direction control

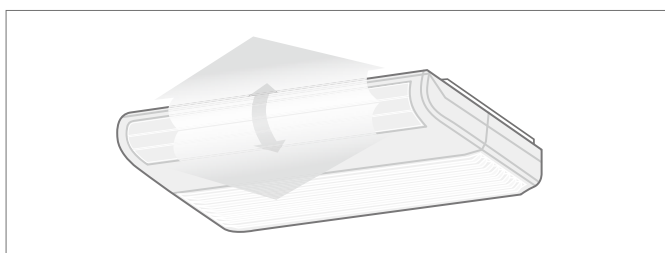
Horizontal airflow direction control

Adjust the horizontal airflow direction by manually moving the horizontal airflow direction louvre by hand.



Vertical airflow direction control

The airflow direction can be adjusted as desired by using the remote control.



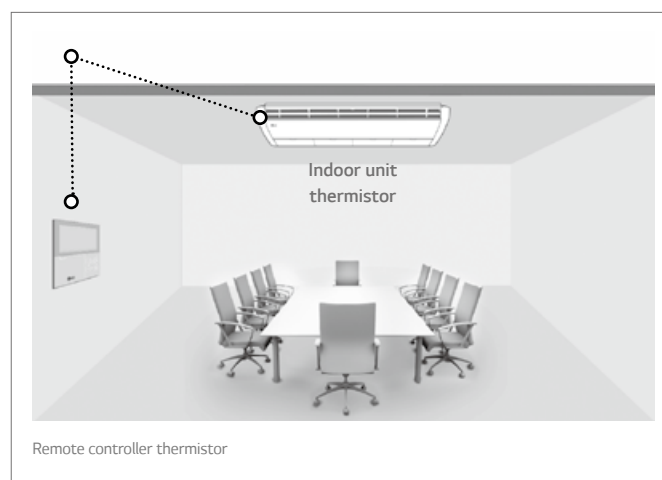
Two thermistors control

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.

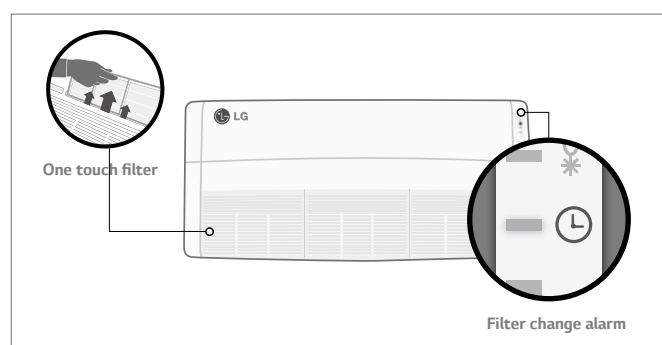
Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users.

Two thermistors can optimise indoor air temperature for a more comfortable environment.



Filter change alarm

The filter change alarm informs you when the unit has been operating for 2,400 hours. It is very easy to clean or change the filter.



Ceiling & Floor convertible unit

ARNU09GVEA2 / ARNU12GVEA2



Model	Independent Unit			ARNU09GVEA2	ARNU12GVEA2
Capacity	Cooling	Nom	kW	2.8	3.6
	Heating	Nom	kW	3.2	4.0
Power Input	Cooling	Nom	W	30.0	30.0
	Heating	Nom	W	30.0	30.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
	Heating	H/M/L	m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
Sound Pressure		H/M/L	dBA	36 / 32 / 28	38 / 36 / 30
Sound Power		H/M/L	dBA	-	-
Dimensions	Body	WxHxD	mm	900 x 490 x 200	900 x 490 x 200
Net Weight			kg	13.7	13.7
Piping Connection	Liquid		mm	6.35	6.35
	Gas		mm	12.7	12.7
	Drain	I.D	mm	16	16

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

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

3. I.D - 'Internal Diameter'

Accessories

Model	ARNU09GVEA2	ARNU12GVEA2
Dry Contact	Simple (1 Contact point with case)	PDRYCB000
	2 Contact point	PDRYCB400
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300
	Modbus Communication	PDRYCB500

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PQRCVSL0QW	PQRCVSL0	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

Ceiling suspended unit

URNU18GVJA2 / URNU24GVJA2
 URNU36GVKA2 / URNU48GVLA2



URNU48GVLA2



URNU18GVJA2 / URNU24GVJA2



URNU36GVKA2

Model	Independent Unit			URNU18GVJA2	URNU24GVJA2	URNU36GVKA2	URNU48GVLA2
Capacity	Cooling	Nom	kW	5.6	7.1	10.6	14.1
	Heating	Nom	kW	6.3	8.0	11.9	15.9
Power Input	Cooling	Nom	W	63.0	63.0	140.0	190.0
	Heating	Nom	W	63.0	63.0	140.0	190.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0	24.6 / 23 / 21.4	35 / 32 / 30
	Heating	H/M/L	m³/min	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0	24.6 / 23 / 21.4	35 / 32 / 30
Sound Pressure		H/M/L	dBA	42 / 40 / 37	43 / 41 / 39	48 / 46 / 44	49 / 48 / 47
Sound Power		H/M/L	dBA	-	-	-	-
Dimensions	Body	WxHxD	mm	900 x 490 x 200	900 x 490 x 200	1,350 x 650 x 220	1,350 x 650 x 220
Net Weight			kg	24.6	24.6	35.0	35.0
Piping Connection	Liquid		mm	6.35	6.35	9.52	9.52
	Gas		mm	12.7	12.7	15.9	15.9
	Drain	I.D	mm	16	16	16	16

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D - 'Internal Diameter'

Accessories

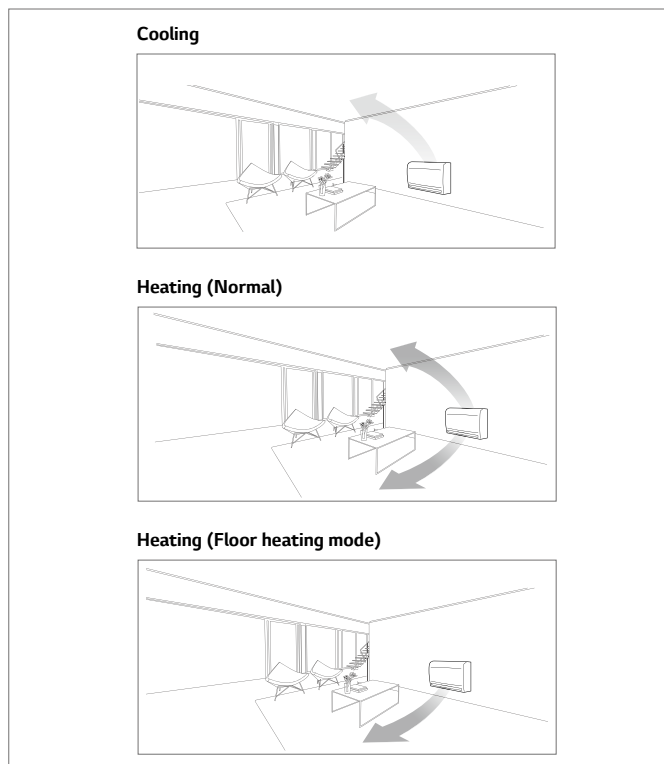
Model	URNU18GVJA2	URNU24GVJA2	URNU36GVKA2	URNU48GVLA2
Dry Contact	Simple (1 Contact point with case)		PDRYCB000	
	2 Contact point		PDRYCB400	
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300	
	Modbus Communication		PDRYCB500	

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PQRCVSL0QW	PQRCVSL0	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

Installation support clip

During the cooling operation, the vane adjusts upwards to direct the air flow towards the ceiling.

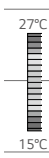
When heating, the vane directs the warm air downwards to balance the room temperature especially for floor.



Quick floor heating

Console air conditioners offer a fast and powerful performance.

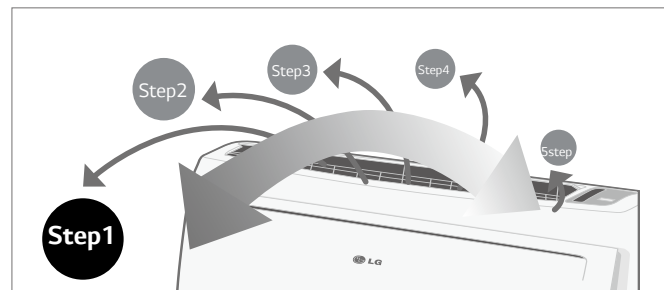
Using the floor heating mode, console air conditioners provide faster floor heating and help to reach the desired temperature quickly.

		Company A	Electric Heater	LG	LG Floor Heating Mode
	Vertical				
	Horizontal				
Lead Time for Heating (13°C 21°C)		12 minutes 30 seconds	50 minutes	9 minutes 30 seconds	8 minutes 40 seconds

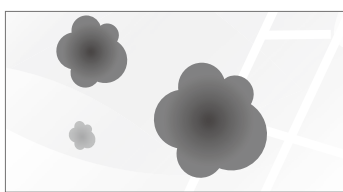
(Test condition: Target temp 23°C, Indoor room: 13°C-, Outdoor room: 7°C)

5-Step vane control

There are 5 different stages to control air flow direction.



Healthier air (3 stage air filter system)



1st Advanced pre filter :
The antibacterial pre-filter primarily reduces large dust particles, mould and quilt dust.



2nd Allergy filter :
Filter consists of enzyme that breaks down allergens, apatite and organic/inorganic binders. When the air passes through the filter, allergens cling to the filter, and the filter deactivates the allergens.



3rd Plasma ion generator :
The sterilised ion generator emits around 1.2 million ions, and traps some of the airborne hazardous substances.

Console

ARNU07GQAA4 / ARNU09GQAA4
 ARNU12GQAA4 / ARNU15GQAA4



Model	Independent Unit			ARNU07GQAA4	ARNU09GQAA4	ARNU12GQAA4	ARNU15GQAA4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5
	Heating	Nom	kW	2.5	3.2	4.0	5.0
Power Input	Cooling	Nom	W	30.0	30.0	30.0	30.0
	Heating	Nom	W	30.0	30.0	30.0	30.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	6.7 / 5.9 / 4.8	6.7 / 5.9 / 4.8	7.5 / 5.9 / 4.8	8.7 / 6.7 / 5.9
	Heating	H/M/L	m³/min	6.7 / 5.9 / 4.8	6.7 / 5.9 / 4.8	7.5 / 5.9 / 4.8	8.7 / 6.7 / 5.9
Sound Pressure		H/M/L	dBA	37 / 34 / 28	37 / 34 / 28	39 / 34 / 28	42 / 37 / 31
Sound Power		H/M/L	dBA	57 / 54 / 48	57 / 54 / 48	59 / 54 / 48	62 / 57 / 51
Dimensions	Body	WxHxD	mm	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210
Net Weight			kg	14.0	14.0	14.0	14.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7
	Drain	I.D	mm	12.2	12.2	12.2	12.2

* This product contains Fluorinated Greenhouse Gases(R410A)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

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

3. I.D - 'Internal Diameter'

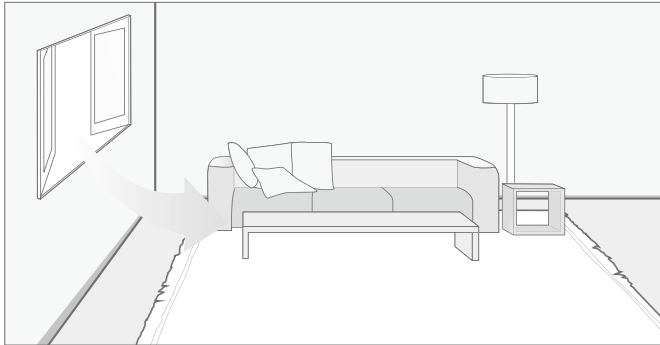
Accessories

Model	ARNU07GQAA4	ARNU09GQAA4	ARNU12GQAA4	ARNU15GQAA4
Dry Contact	Simple (1 Contact point with case)		PDRYCB000	
	2 Contact point		PDRYCB400	
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300	
	Modbus Communication		PDRYCB500	

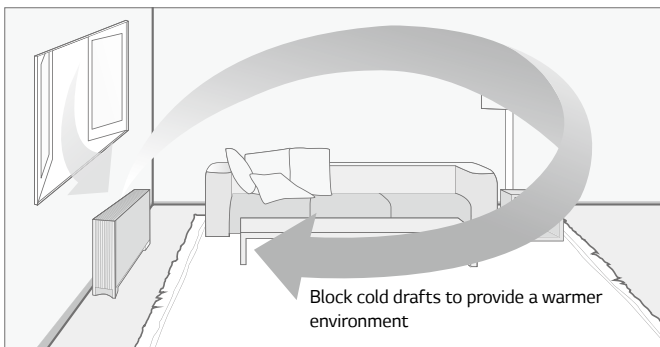
Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PQRCVSL0QW	PQRCVSL0	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

Block cold draft

The floor standing unit can block cold drafts from windows to provide a warmer environment for places such as libraries and offices.



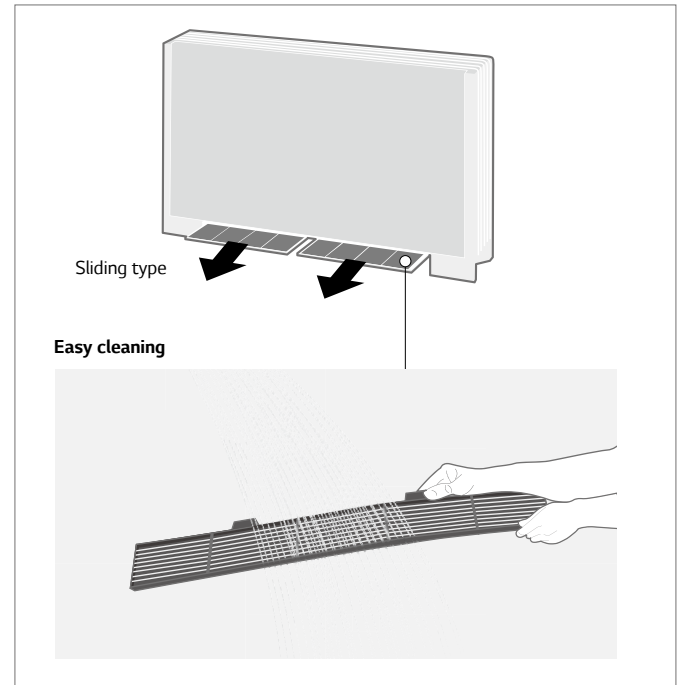
Without floor standing



With floor standing

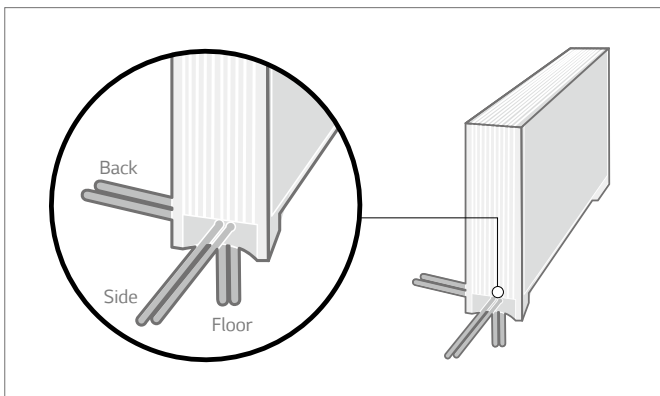
Sliding type filter

Easy maintenance and extended product life with sliding type filter.



3 way flexible installation

It is possible to install and connect the outdoor unit in 3 different ways (side, back, floor).



Floor standing unit

ARNU07GCE*4 / ARNU09GCE*4 / ARNU12GCE*4
 ARNU15GCE*4 / ARNU18GCF*4 / ARNU24GCF*4



-A : Floor standing with case

-U : Floor standing without case

Model	Independent Unit			ARNU07GCE*4	ARNU09GCE*4	ARNU12GCE*4	ARNU15GCE*4	ARNU18GCF*4	ARNU24GCF*4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	85.0	85.0	85.0	85.0	115.0	115.0
	Heating	Nom	W	85.0	85.0	85.0	85.0	115.0	115.0
Power Supply	Φ/V/Hz			1/220~240/50,60	1/220~240/50,60	1/220~240/50,60	1/220~240/50,60	1/220~240/50,60	1/220~240/50,60
Airflow Rate	Cooling	H/M/L	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Heating	H/M/L	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
Sound Pressure	H/M/L		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power	H/M/L		dB(A)	54 / 52 / 50	55 / 53 / 51	57 / 55 / 53	59 / 58 / 56	60 / 57 / 54	61 / 60 / 57
Dimensions	Body	WxHxD		mm	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,345 x 635 x 203	1,345 x 635 x 203
Net Weight ¹⁾			kg	27(20)	27(20)	27(20)	27(20)	34(27)	34(27)
Piping Connection	Liquid			mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas			mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88
	Drain	I.D	mm	12.0	12.0	12.0	12.0	12.0	12.0
Fan Motor Output x Number	W			19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2

* This product contains Fluorinated Greenhouse Gases (R410A)

¹⁾ Floor standing with case (without case)

Note :

1. Capacities are based on the following conditions

Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting piping length 7.5m
 Level difference of zero

2. Due to our policy of innovation some specifications may be changed without notification 3. I.D - 'Internal Diameter'

Accessories

Model	ARNU07GCE*4	ARNU09GCE*4	ARNU12GCE*4	ARNU15GCE*4	ARNU18GCF*4	ARNU24GCF*4
Dry Contact	Simple (1 Contact point with case)		PDRYCB000			
	2 Contact point		PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)		PDRYCB300			
	Modbus Communication		PDRYCB500			

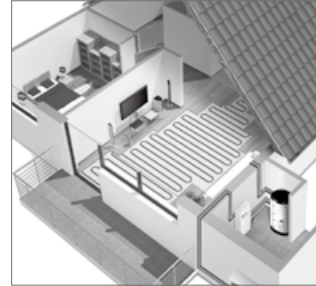
Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)		PREMTB001 (Black)		PQWRHQ0FDB
			PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	

Various application – Water type

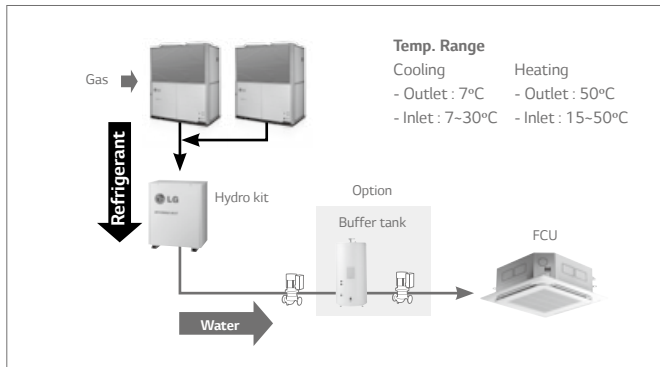
Water Type - Hydro kit is applied to replace the conventional chiller system and to the floor heating needed space.



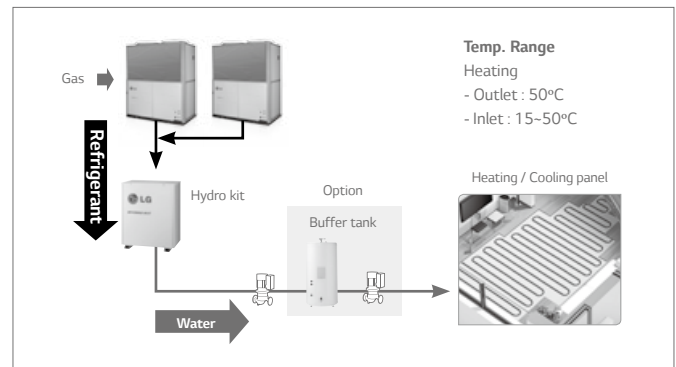
- GHP ODU + Hydro kit + FCU
- GHP can be substitute for the existing chiller unit (other existing facilities-FCU, pump and etc. are available.)
- Individual high efficiency cooling and heating is available
- Common cooling & heating zone
- Place needed to be water pipe in indoor, not refrigerant pipe



- GHP ODU + Hydro kit
- Dormitory
- Residential



Individual cooling and heating with water pipe system



Floor heating

Hydro kit

ARNH04GK2A2 / ARNH10GK2A2 / ARNH16GK2A2



Model			ARNH04GK2A2	ARNH10GK2A2	ARNH16GK2A2
Capacity	Cooling	W	12,300	28,000	46,400
	Heating	W	13,800	31,500	52,000
Input(Rated)	Cooling	kW	0.01	0.01	0.01
	Heating	kW	0.01	0.01	0.01
Power Supply		Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Refrigerant	Type	-	R410A	R410A	R410A
	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
Heat Exchanger	Number of Plate	EA	26	48	96
	Rated Water Flow	l/min	39.6	92	150
Dimensions	Body (WXHXD)	mm	520 x 631 x 330	520 x 631 x 330	520 x 631 x 330
Net Weight	Body	kg	30	35	47
Piping Connections (Refrigerant Side)	Liquid	ø, mm	9.52	9.52	12.7
	Gas	ø, mm	15.88	22.2	28.58
Piping Connections (Water Side)	Inlet	mm	PT 25A	PT 25A	PT 32A
	Outlet	mm	PT 25A	PT 25A	PT 32A
Power Supply Cable(CV)	No. x mm ²		3C x CV2.5	3C x CV2.5	3C x CV2.5
Communication Cable(VCTF-SB)	No. x mm ²		2C x CVV-SB 1.0~1.5	2C x CVV-SB 1.0~1.5	2C x CVV-SB 1.0~1.5

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

- Capacities are based on the following conditions:
 Cooling - Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB, Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB, Water Inlet 23°C(73.4°F) / Outlet 18°C(64.4°F)
 Heating - Indoor 20°C(68°F) DB / 15°C(59°F) WB, Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB,
 * Water Inlet 30°C(86°F) / Outlet 35°C(95°F),
 ** Water Inlet 55°C(131°F) / Outlet 65°C(149°F)
- Piping Length : Interconnected Pipe Length = 7.5m
- Difference Limit of Elevation (Outdoor ~ Indoor Unit) is zero.
- ARNH16GK2A2 is available at the second half of the year.

Remote controller line up

Model Name	 PREMTA000 PREMTA000A PREMTA000B	<i>New</i>  PREMTB001 PREMTBB01	 PQRCVSLOQW PQRCVSLO	 PQRCVCLQW PQRCVCLQ PQRCHCA0QW PQRCHCA0Q	 PQWRHQ0FDB
On / Off	●	●	●	●	●
Fan Speed Control	●	●	●	●	●
Temperature Setting	●	●	●	●	●
Mode Change	●	●	●	●	●
Additional Mode Setting	●	●	●	●	●
Auto Swing	●	●	●	●*	●
Vane Control (Louver Direction)	●	●	●	-	●
E.S.P (External Static Pressure)	●	●	●	●	-
Reservation	Weekly / Yearly	Weekly	Weekly	-	Sleep, on/off
Child Lock	●	●	●	●	-
Electric Failure Compensation	●	●	●	●*	-
Time Display	●	●	●	-	●
Filter sign	● (Remain time + Alarm)	● (Remain time + Alarm)	● (Alarm)	-	-
Home Leave	2 set points control	-	-	-	-
Oil Change Alarm	●	●	●	-	-

* PQRCHCA0QW/PQRCHCA0Q doesn't offer this function

** Centralized control(PQCSW421E0A/PACS4B000/PQPC22N0/PACP4B000/PQNFB17C0/PLNWKB000) and PDI(PQNUD1S40/PPWRDB000) should be installed for this function

Premium wired remote controller

5 inch full touch screen with a premium design

PREMTA000 ¹⁾
 PREMTA000A ²⁾
 PREMTA000B ³⁾

1) English / Portuguese / Spanish / French

2) English / Italian / Russian / Chinese

3) English / German / Polish / Czech



Features ¹⁾

- Self-management for energy saving
 - Time limit operation
 - Weekly / Monthly / Yearly trend tracking
 - Target alert alarm
 - Temperature range setting
- Design with user's convenience
 - Full touch / Intuitive GUI (Graphic User Interface)
 - Main display simple mode / Touch buzzer
- Improved scheduling
 - Timer / Daily / Weekly / Yearly / Holiday
- 2 Set Points Control / 0.5°C setting temperature control

Model Name	PREMTA000 / PREMTA000A / PREMTA000B
On / Off	●
Fan Speed Control	●
Temperature Setting	●
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	●
Vane Control (Louver direction)	●
E.S.P (External Static Pressure)	●
Reservation	Simple / Sleep / On / Off / Weekly / Yearly / Holiday
Time Display	●
Electric Failure Compensation	●
Child Lock	●
Filter sign	● (Remain time + Alarm)
Operation Status LED	●
Indoor Temperature Display	●
Wireless Remote Controller Receiver	●**
Display	5 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	137 x 121 x 16.5
Backlight	●
Home Leave	2 set points control
Oil Change Alarm	●

* Centralized control(PQCSW421E0A/PACS4B000/PQCPC22N0/PACP4B000/PQNFB17C0/PLNWKB000) and PDI(PQNUD1S40/PPWRDB000) should be installed for this function

** For ceiling type duct

¹⁾ Indoor unit should have functions requested by the controller

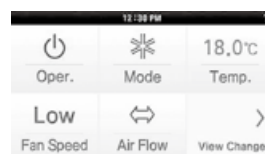
User friendly design



Standard Mode

Intuitive UI & GUI Design

It is more easy to use and control various functions.



Simple Mode

Display Configuration

Users can use of five buttons as shortcuts for frequently used features.

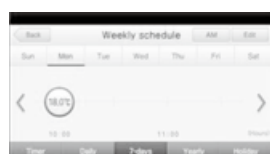
Enhanced schedule function



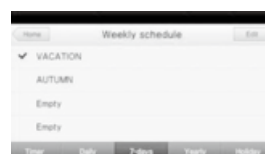
Yearly Schedule

Yearly / Weekly Schedule Function

If you set the schedule all at once, you will be able to effectively manage for various lengths of time. It provides 5 kinds of reservation functions. (Timer, Daily, Weekly, Yearly, Holiday)



Weekly Schedule



Weekly Schedule Pattern

Easy Pattern Schedule

It is possible to embody various schedules as pattern setting.

* Available to save up to a maximum of 20 error histories, 20 holiday reservations and 5 daily event on week

2 Set points control



2 Set Points Control ¹⁾

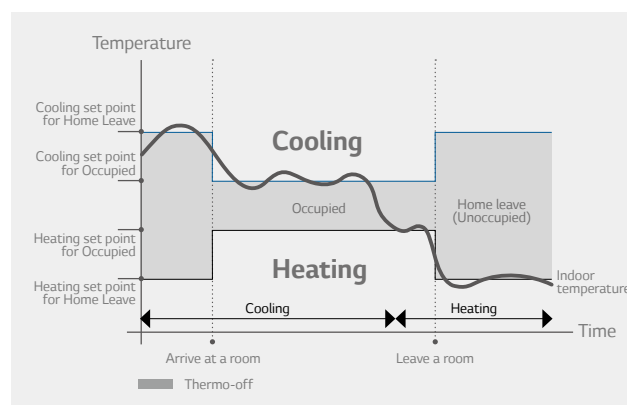
Ambient indoor temperature is guaranteed by setting two-point temperature for cooling and heating. New premium remote automatically changes from heating to cooling (and vice versa) depending on temperature.



Home Leave

Changeable setting for occupied / unoccupied status

¹⁾ 2 set points control works normally with MULTI V Heat Recovery and Single Heat Pump. But in case of MULTI V Heat Pump, It is not working in 2 set points control of indoor unit



Standard wired remote controller

Providing easy control of one or a group of indoor units with various functions

Standard



PQRCVSLOQW
(White)



PQRCVSLO
(Black)

New Standard II



PREMTB001
(White)



PREMTBB01
(Black)

Features ¹⁾

Model Name	PQRCVSLOQW / PQRCVSLO	PREMTB001 / PREMTBB01 (for 4 th generations new indoor units)
On / Off	●	●
Fan Speed Control	●	●
Temperature Setting	●	●
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	●	●
Vane Control (Louver Direction)	●	●
E.S.P (External Static Pressure)	●	●
Reservation	Simple / Sleep / On / Off / Weekly / Holiday	Simple / Sleep / On / Off / Weekly / Holiday
Time Display	●	●
Electric Failure Compensation	●	●
Child Lock	●	●
Filter sign	● (Alarm)	● (Remain time + Alarm)
Operation Status LED	●	●
Indoor Temperature Display	●	●
Wireless Remote Controller Receiver	●*	●*
Size (W x H x D, mm)	120 x 121 x 16	120 x 121 x 16
Backlight	●	●
Power Consumption Monitoring	-	●**
Check Model Information	-	●
Oil Change Alarm	●	●

* For ceiling type duct

** Centralized control(PQCSW421E0A/PACS4B000/PQCPC22N0/PACP4B000/PQNF817C0/PLNWK000) and PDI(PQNUD1S40/PPWRDB000) should be installed for this function

¹⁾ Indoor unit should have functions requested by the controller

Standard wired remote controller

A simple way to control office or hotel systems in a compact design

Simple



PQRCVCL0QW
(White)



PQRCVCL0Q
(Black)

Simple for Hotel



PQRCHCA0QW
(White)



PQRCHCA0Q
(Black)

Features ¹⁾

Model Name	PQRCVCL0QW / PQRCVCL0Q	PQRCHCA0QW / PQRCHCA0Q
On / Off	●	●
Fan Speed Control	●	●
Temperature Setting	●	●
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	Only Changeable by Central Controller
Auto Swing	●	-
Vane Control (Louver Direction)	●	-
E.S.P (External Static Pressure)	●	●
Electric Failure Compensation	●	-
Child Lock	●	●
Indoor Temperature Display	●	●
Wireless Remote Controller Receiver	●*	●*
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Backlight	●	●

* For ceiling type duct

¹⁾ Indoor unit should have functions requested by the controller

Wireless remote controller

Wireless control to operate air conditioners more conveniently

PQWRHQ0FDB



Features

Model Name	PQWRHQ0FDB
On / Off	●
Fan Speed Control	●
Temperature Setting	●
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	●
Vane Control (Louver Direction)	●
Reservation	Sleep / On / Off
Indoor Temperature Display	●
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51.4 x 153 x 26

Central controller line up

Model Name	 PQCSZ250S0	 PACS4B000	 PACP4B000	 PACM4B000
Maximum Number of Indoor Units	32	128	256	8,192
Individual / Group Control (On&Off, Mode, Set Point, Fan Speed)	●	●	●	●
Ventilation Control	●	●	●	●
Individual Controller Lock	●	●	●	●
Error Check	●	●	●	●
Schedule	●	●	●	●
Operation History	-	●	●	●
Visual Navigation	-	●	●	●
Operation Time Limit	-	●	●	●
Temperature Limit	-	●	●	●
Web Access ¹⁾	-	●	●	●
Auto Changeover / Setback	-	●	●	●
Power Consumption Monitoring (with PDI)	-	●	●	●
Interlock Control	-	●	●	●
Virtual Group Control	-	●	●	●
Emergency Pattern Display	-	●	●	●
ACS IO Module Interlocking	-	●	●	●
Oil Change Alarm	-	●	●	●

¹⁾ Assignment of public IP address is required to access central controller through internet.

* S/W program

AC EZ

Easy to manage up to 32 indoor units include ECO V with simple commander

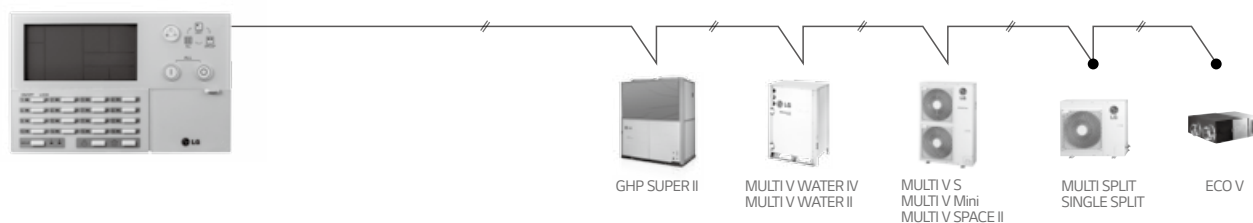
PQCSZ250S0



Features

Model Name	PQCSZ250S0
Maximum Number of Indoor Units	32
Individual / Group Control	●
Ventilation Control	●
Individual Controller Lock	●
Error Check	LED / LCD Display
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Weekly
Display	Operation Status, Set Temperature, Room Temperature, Schedule
Size (W x H x D, mm)	190 x 120 x 17
Power	DC 12V

Combination



● Appropriate PI 485 should be used according to PDB

AC SMART IV

Large 10.2 inch touch screen with intuitive GUI (Graphic User Interface) allows easy control

PACS4B000

New
AC SMART IV

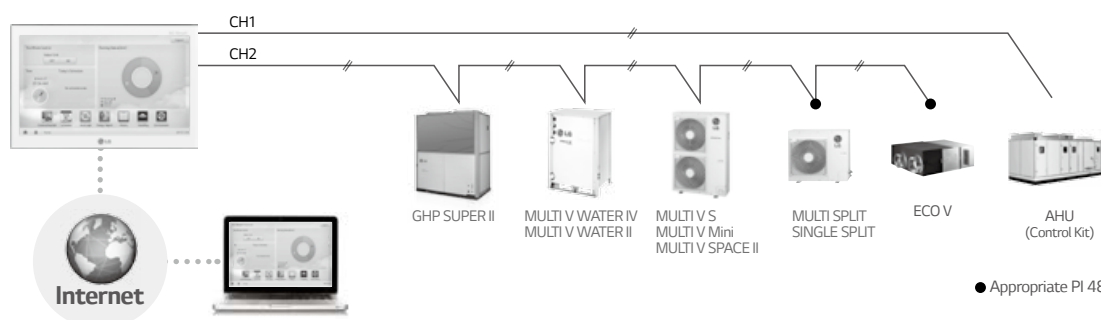


Features

Model Name	PQCS4B000
Maximum Number of Indoor Units	128
Individual / Group Control	●
Ventilation Control	●
Individual Controller Lock	● (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception day
Operation History	●
Visual Navigation	●
Operation Time Limit	●
Temperature Limit	●
Web Access ¹⁾	●
Auto Changeover / Setback	● (2 set)
Power Consumption Monitoring (with PDI)	●
Interlock Control	●
Virtual Group Control	●
Emergency Alarm Display	●
ACS IO Module Interlocking	●
External IO Port No.	DI 2 / DO 2
Interfaceable Products	MULTI V / ECO V / ECO V DX / THERMA V / Hydro kit / AHU (Control kit)
Oil Change Alarm	●

¹⁾ Assignment of public IP address is required to access central controller through internet.

Combination



AC SMART IV

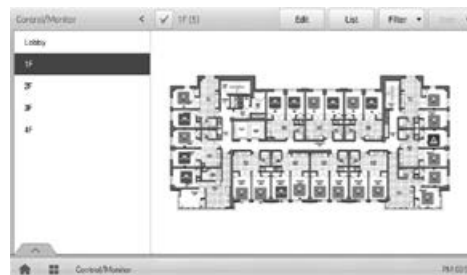
Large 10.2 inch touch screen with intuitive GUI (Graphic User Interface) allows easy control

Functions



Schedule

You can set a schedule for system air conditioner in advance for timed events. Optimize system performance by enabling system operation only as needed from centralized control management



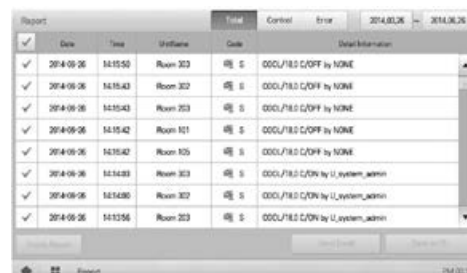
Visual Navigation

Current operation status on floor plan is checked at one view



Energy Statistics (with PQN1D1S40 or PPWRDB000)

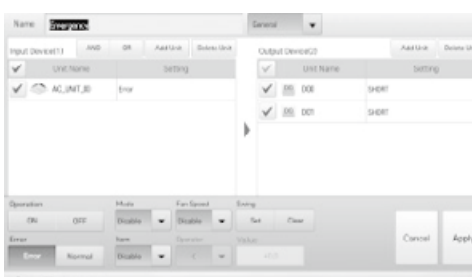
Statistics of operational status (time, power consumption) are provided to help make intelligent system operation decisions



Date	Time	Username	Code	Detail Information
2014-09-26	14:15:50	Room 303	000	000U/18.0 C/OFF by NONE
2014-09-26	14:15:43	Room 302	000	000U/18.0 C/OFF by NONE
2014-09-26	14:15:43	Room 303	000	000U/18.0 C/OFF by NONE
2014-09-26	14:15:42	Room 101	000	000U/18.0 C/OFF by NONE
2014-09-26	14:15:42	Room 105	000	000U/18.0 C/OFF by NONE
2014-09-26	14:14:03	Room 303	000	000U/18.0 C/OFF by U_system_admin
2014-09-26	14:14:00	Room 302	000	000U/18.0 C/OFF by U_system_admin
2014-09-26	14:13:56	Room 303	000	000U/18.0 C/OFF by U_system_admin

Operation Report

Report including control status and other information is provided so that operation history can be reviewed easily. Data can be sent by E-mail or stored on USB or external HDD



Interlocking

Allows interlocked operation of devices or between digital inputs and outputs on the AC Smart Premium / IV



Emergency Display

Red alert takes up the whole display upon any urgency situation and all other control signals are blocked to prevent any possible accident

ACP IV (Advanced Control Platform)

CP can be integrated to the web system that allows user can access the control system online anytime, anywhere without access to PC or specific application

New
ACP IV

PACP4B000

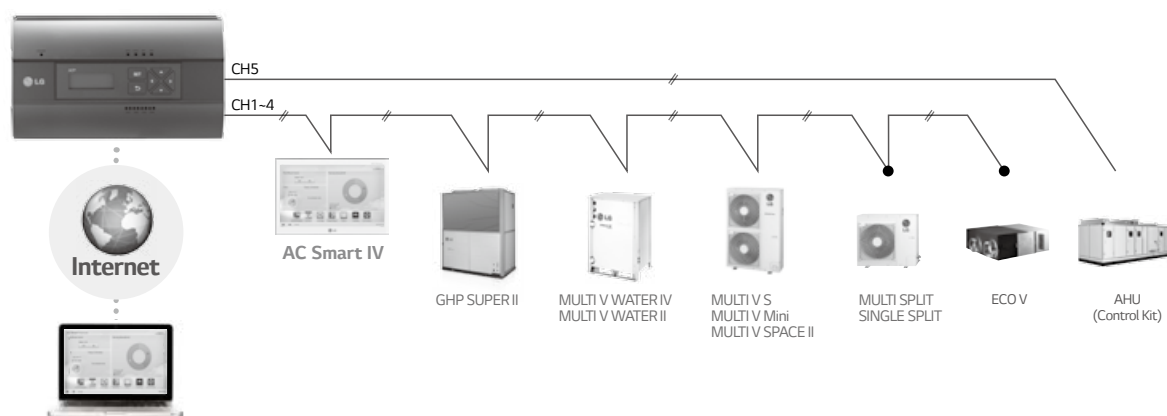


Features

Model Name	PACP4B000
Maximum Number of Indoor Units	256
Individual / Group Control	●
Ventilation Control	●
Individual Controller Lock	(Temperature / Mode / Fan / All) ●
Error Check	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception Day
Operation History	●
Visual Navigation	●
Operation Time Limit	●
Temperature Limit	●
Web Access ¹⁾	●
Auto Changeover / Setback	● (2 set)
Power Consumption Monitoring (with PDI)	●
Interlock Control	●
Virtual Group Control	●
Emergency Alarm Display	●
ACS IO Module Interlocking	●
External IO Port No.	DI 10 / DO 4
Interfaceable Products	MULTI V / ECO V / ECO V DX / THERMA V / Hydro kit / AHU (Control kit)
Oil Change Alarm	●

¹⁾ Assignment of public IP address is required to access central controller through internet.

Combination



● Appropriate PI 485 should be used according to PDB

AC MANAGER / IV

Up to 32 ACP can be connected so that 8,192 indoor units can be controlled and monitored

PACM4B000

New AC MANAGER IV



Features

Model Name	PACM4B000
Maximum Number of Indoor Units	8,192 (supports 32 ACP IV)
Individual / Group Control	●
Ventilation Control	●
Individual Controller Lock	● (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception Day
Operation History	●
Visual Navigation	●
Temperature range limit	●
Remote Access ¹⁾	●
Auto Changeover	● (2 set)
Setback	● (2 set)
Power Consumption Monitoring (with PDI)	●
Interlock Control	●
Virtual Group Control	●
Emergency Alarm Display	●
ACS IO Module Interlocking	●
Oil Change Alarm	●

¹⁾ Assignment of public IP address is required to access central controller through internet.



Control / Monitor



Alarm



Stand Alone
Operation



Electricity Monitoring



Peak Control

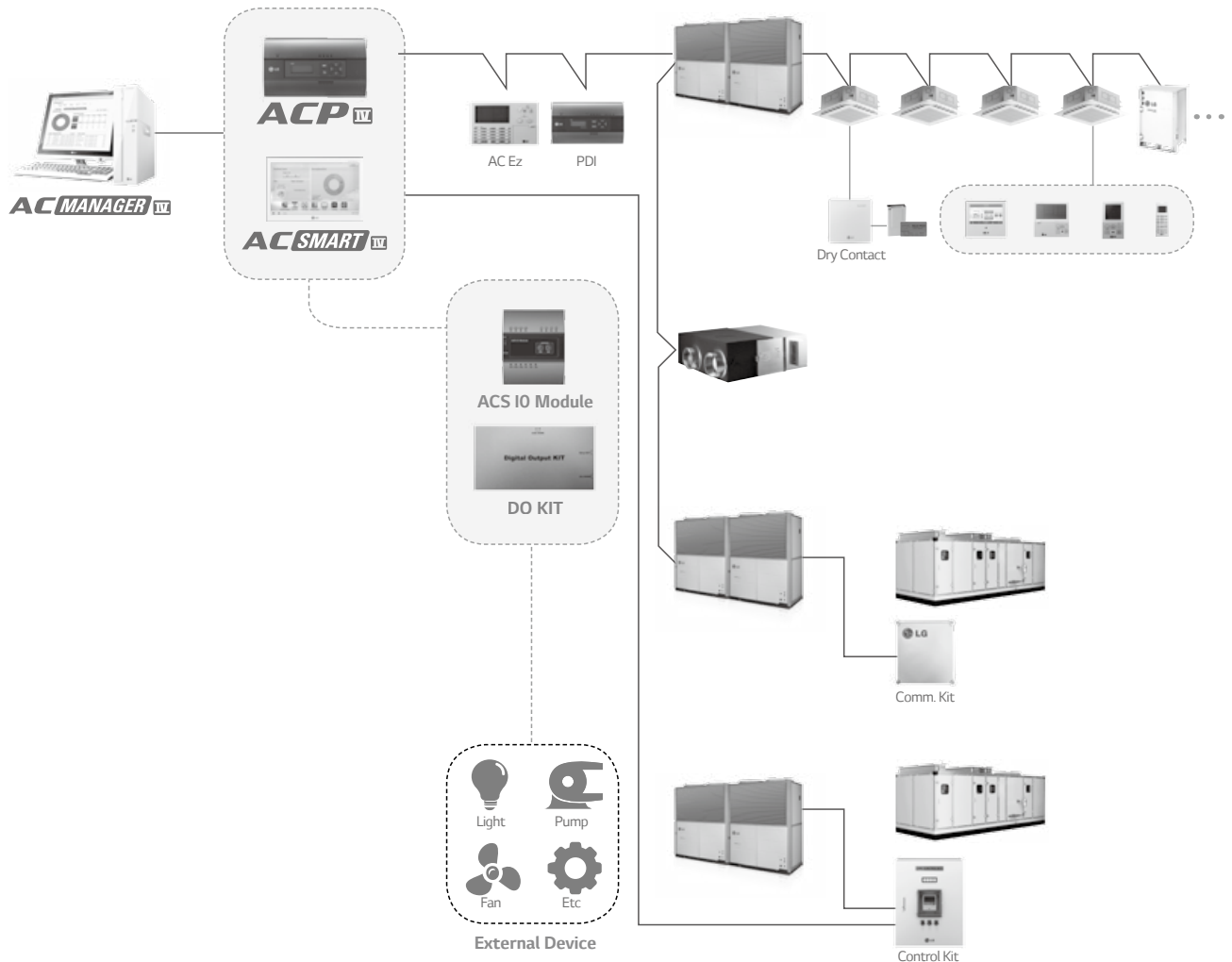


Schedule



Various Controller
Combination

Solution Overview



System integration device

Facility Integrator

PDI
(Power Distribution Indicator)



Premium (8 port)

PQNUD1S40

Standard (2 port)

New PPWRDB000

ACS IO MODULE
(ACS Input / Output Module)



New PEXPMB000

DO Kit
(Digital Output Kit)



PQNFPO0T0

PDI premium (power distribution indicator)

PDI shows power consumption of up to 128 indoor units

Premium

PQNUD1S40 (8 port)

**New
Standard**

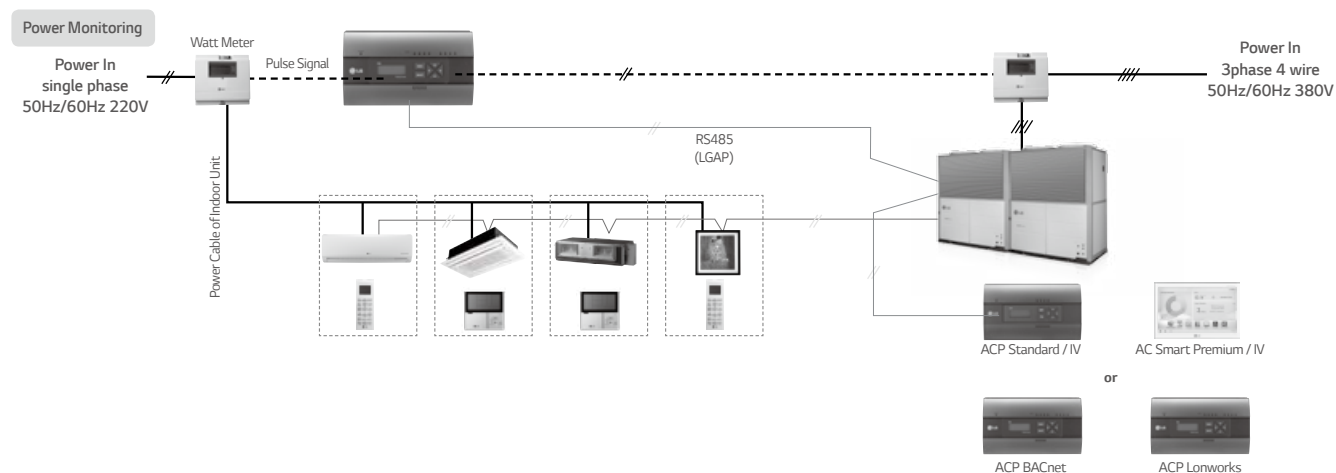
PPWRDB000 (2 port)



Features

- Data is backed up so that correct consumption can be checked when power outage occurred
- Connector can be separated for convenient installation
- Linkable with RS485 communication type or pulse type power meter

Combination



ACS io Module (Acs Input / Output module)

The module can be connected with ACS IV central control if additional control points are needed other than not only DI/DO but also AI/AO port of ACS IV central control unit. ACS IV can control 3rd party device as pump, security, lighting and so on through DI/O and AI/O

New PEXPMB000



Features

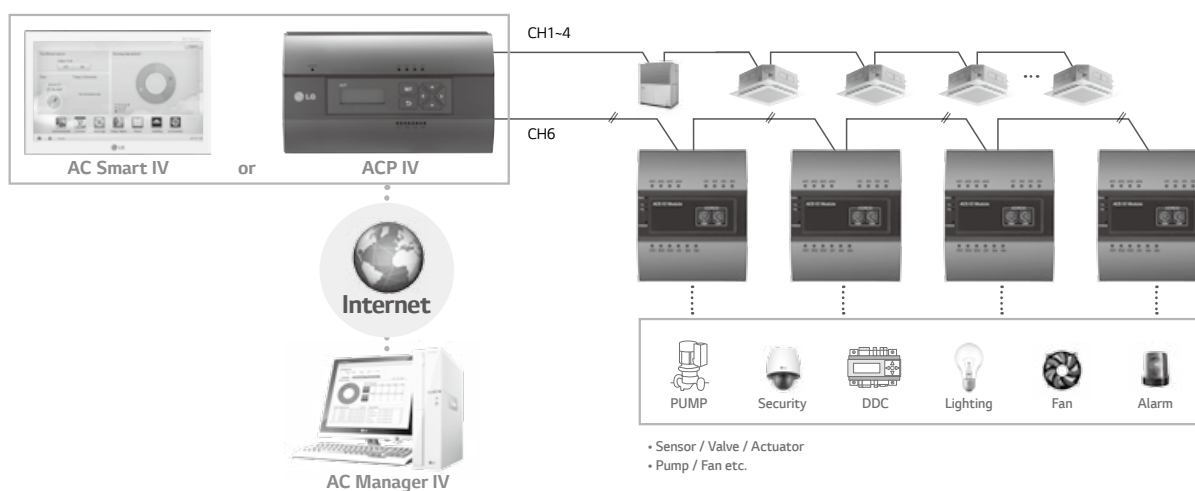
Model Name		PEXPMB000
Linkable Products		AC Smart IV ACP IV AC Manager IV
Communication	CAN	1
	RS-485	1
I/O	DI	3
	DO	3
	UI	4
	AO	4

Interface Type		Min.	Max.
Analog Input	NTC 10k	0.68k Ω	177k Ω
	PT 1000	803k Ω	1573k Ω
	Ni 1000	871.7k Ω	1675.2k Ω
	DC (Voltage)	0V	10V
	DC (Current)	0mA	20mA
Analog Output	-	0V	10V
Digital Input	Binary Input (Dry Contact)	-	-
Digital Output	Normal open	-	30VAC / 30VDC, 2A

	AC Smart IV	ACP IV	AC Manager IV
Number of Indoor Units	64~128	128~256	8,192
Max. I/O Points	130	224	1,260
Maximum Number of Node	9	16	-

* Maximum number of Indoor units may be reduced by increasing the number of I/O points.

Combination



Connected between centralized controllers of LG and external devices, which can switch On/Off devices such as light, pump, motor, etc.

A B
└─┘
CON_COMM

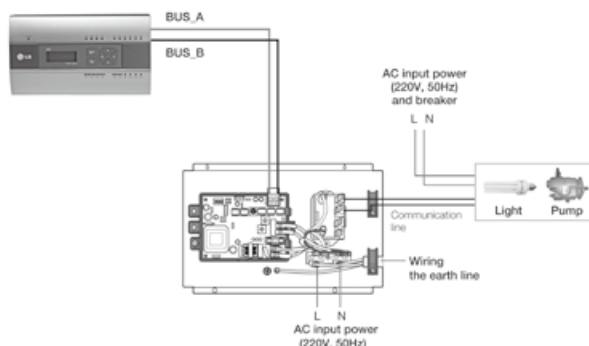
Digital Output KIT

Relay OUT

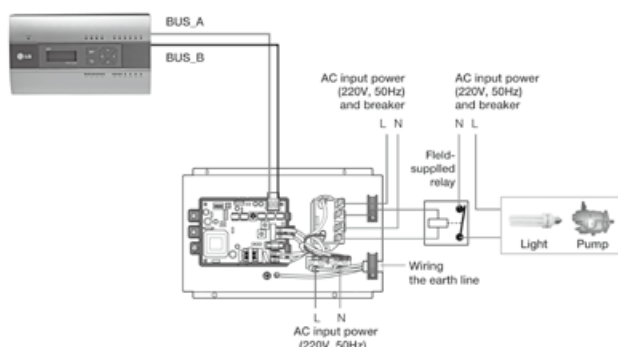
CN_POWER

[illegible]

1. Pull out the power or shut down the breaker.
2. Connect the power line from the breaker to the additional relay cable.
3. Connect the device power line to the additional relay cable.
4. Finish the connected area with the insulating tape.



1. Pull out the power or shut down the breaker.
2. Cut the communication line.
3. Connect the cut communication line to the additional relay cable.
4. Finish the connected area with the insulating tape.



1. Pull out the power or shut down the breaker.
2. Connect the power line from the breaker to the additional relay cable.
3. Connect the field-supply relay power line to the additional relay cable.
4. Connect the device power line to the field-supply relay.
5. Finish the connected area with the insulating tape.

Other integration device line-up

Indoor Unit		Outdoor Unit	AHU Kit
New Dry Contact	Control Accessory		
 Simple Dry Contact PDRYCB000  2 Points Dry Contact (For Setback) PDRYCB400  Dry Contact for Thermostat PDRYCB300  For Modbus PDRYCB500	Group Control Wire  PZCWRCG3 Remote Temperature Sensor  PQRSTA0 Zone Controller  ABZCA	 PRDSBM	Communication Kit  New PRCKA1  PRDCA0 Control Kit  PRCKD21E PRCKD41E EEV Kit (Electronic Expansion Valve kit)  PRLK048A0 / PRLK096A0 Expansion Kit  PATX13A0E / PATX20A0E PATX25A0E / PATX35A0E PATX50A0E

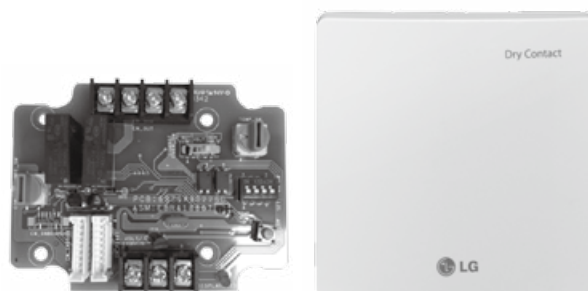
PI 485

PI 485 converts the air conditioner's protocol to the RS485 protocol for the central controller

New PDRYCB000



New PDRYCB400



Features

Model Name	PDRYCB000	PDRYCB400
Contact Point	1 Contact Point	2 Contact Point
Power Input	AC 220V	From Indoor Unit
Voltage / Non Voltage Input	-	●
On / Off Control	●	●
Lock / Unlock	-	●
Thermo Off	-	●
Energy Saving	-	●
Temperature Setting	-	●
Error Monitoring	●	●
Operation Monitoring	●	●
Size (W x H , mm)	120 x 120	120 x 120

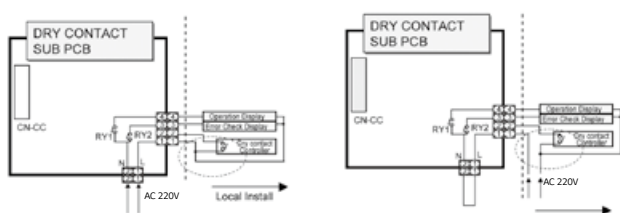
* Refer to each models PDB for applicable models.

* Maximum operation AC : 3A

* 4th generation indoor unit has 1 contact point function for on/off control.

But in case of using more function of Dry Contact besides on/off control, Dry Contact is needed.

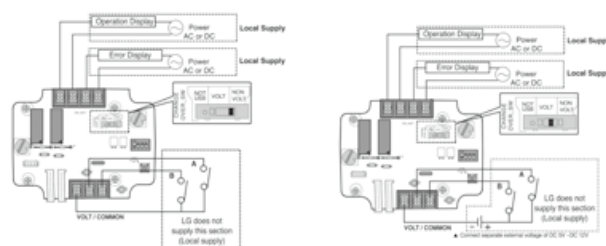
PDRYCB000



To Apply Power Source
through PCB

To Apply Power Source Directly
to External Source

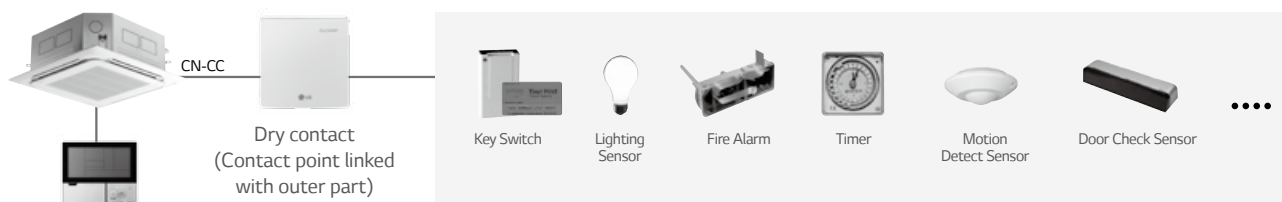
PDRYCB400



In Case Non Voltage Signal

In Case Voltage Signal

Combination

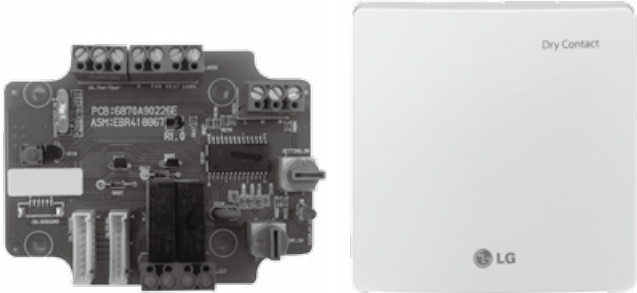


System Structure

PI 485

PI 485 converts the air conditioner's protocol to the RS485 protocol for the central controller

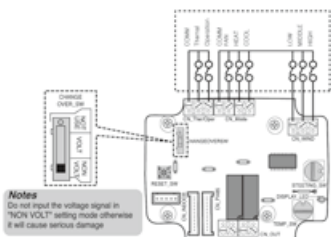
New PDRYCB300



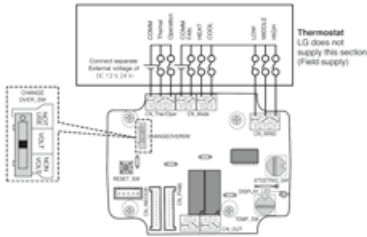
Features

Model Name	PDRYCB300
Dimensions (W X H X D, mm)	●
On / Off Control	●
Mode Control	● (Cool, Heat, Fan)
Fan Speed Setting	● (Low, Middle, High)
Thermo Off	●
Error Monitoring	●
Operation Monitoring	●
Rotary Switch 1	Operating Set Temperature Selection
Rotary Switch 2	Operating Logic Selection
Size (W x H, mm)	120 x 120

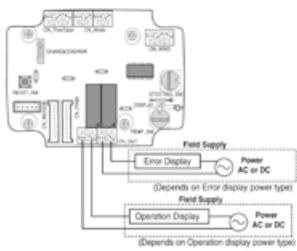
PDRYCB300



- For No Power Contact Point Signal Input



- For Power Contact Point Signal Input



- Indoor Unit Monitoring

Combination



Dry contact

Connection between an indoor unit and external devices to control various functions

New PDRYCB500



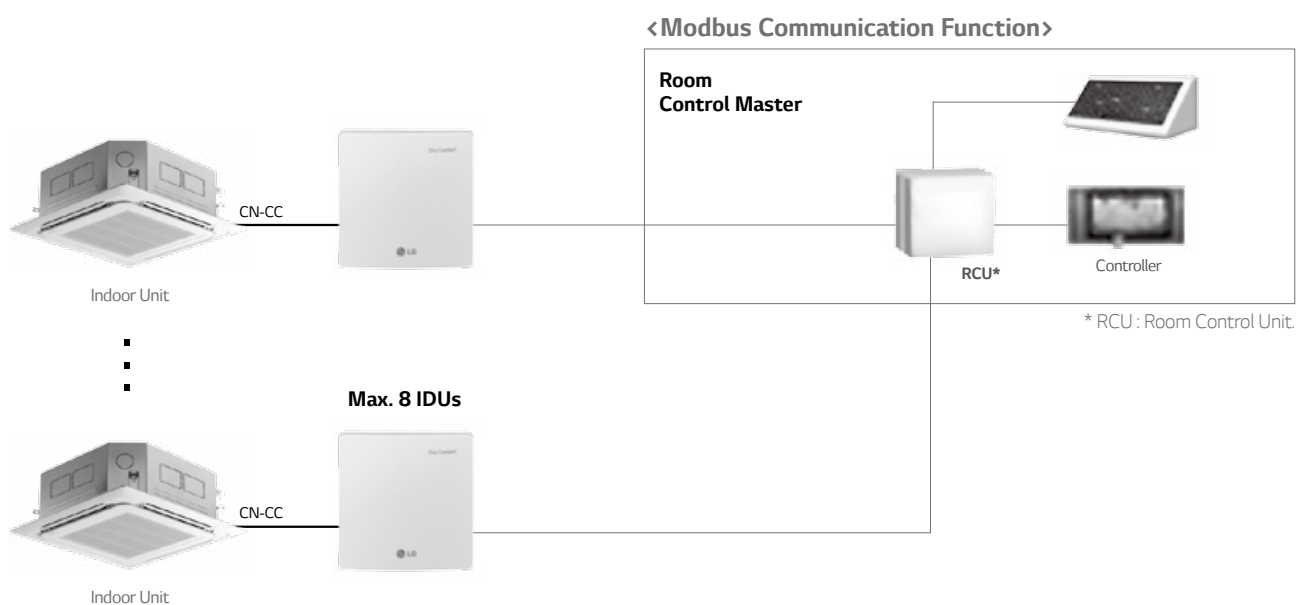
Features

- Function
 - MODBUS communicate with MODBUS master controller
 - MODBUS RTU slave, 2 wire RS485, 9600bps
 - Max. 8 IDUs can connect to one controller
(Address setting range hexa decimal value 00~07)

• Memory map

Register(hexa)	Name	Range	Notes
00001	Operation	0~1	0 : Stop, 1 : Run
30003	Indoor temperature	100~390	Degrees C x 100
30100	Error alarm	0~1	0 : No Error, 1 : Error
40001	Set run mode	0~4	0 : Cooling, 2 : Fan, 4 : Heating
40002	Set temperature	180~300	Degrees C x 100
40015	Set fan speed	0~3	0 : Low, 1 : Middle, 2 : High, 3 : Auto

Combination



Group control wire

Cables used to connect a wired remote controller up to 16 indoor units

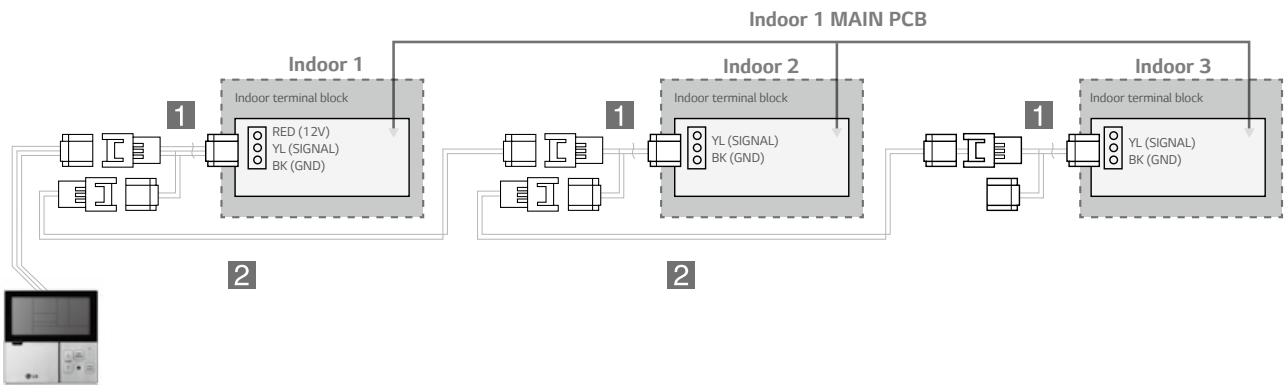
PZCWRCG3



Features

Model Name	PZCWRCG3
Y-type Cable	0.25m Length
Long Cable	9.6m Length

Combination

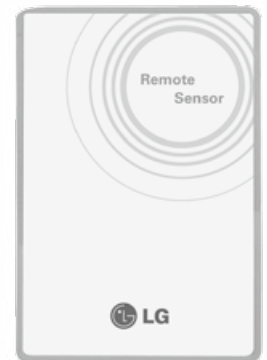


Note : 1 Y type Cable assembly for connecting indoor unit and low cable.
2 Long Cable assembly for connecting indoor to indoor.
- Please connect cable assembly Y type Cable with already connected indoor unit.

Remote temperature sensor

Sensor for detecting the room temperature

PQRSTA0

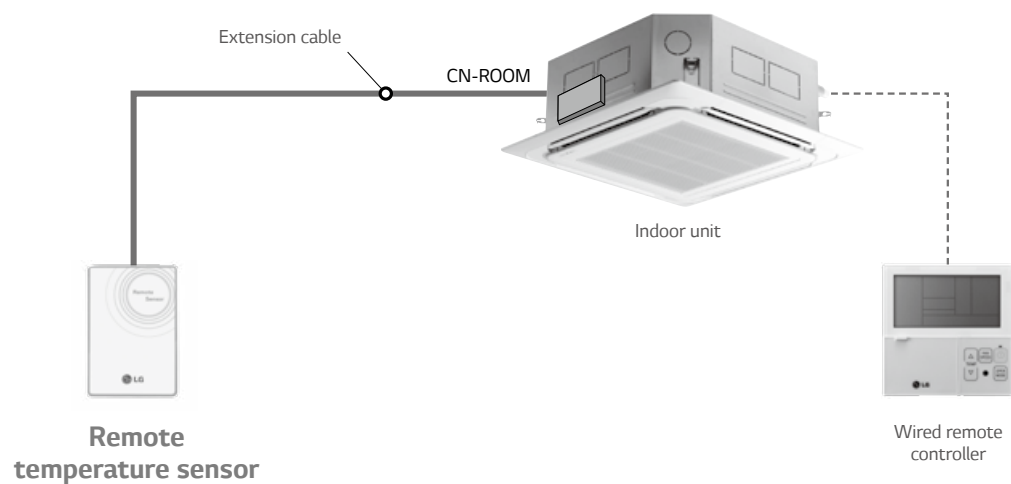


Features

- It can help to detect the exact room temperature instead of indoor unit's air temperature sensor
- Applied to Ceiling Mounted Cassette, Ceiling Concealed Duct, THERMA V and Hydro Kit
- Extension cable (15m) is included

Combination

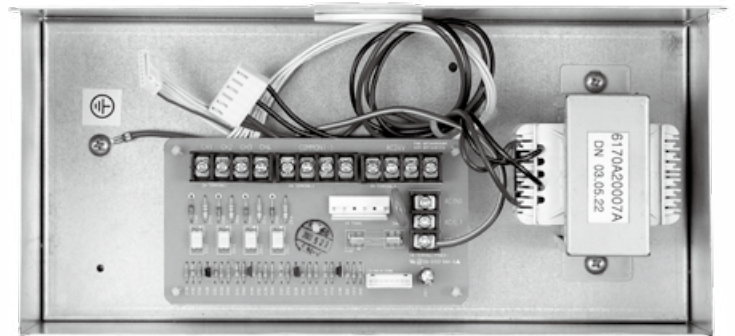
1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



Zone controller

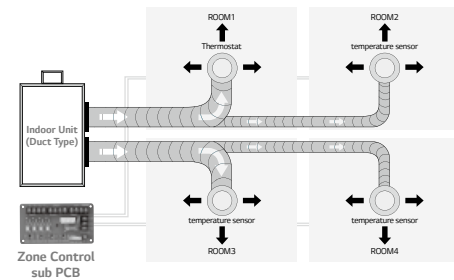
Controls air conditioning in up to 4 zones by external thermostat

ABZCA



Features

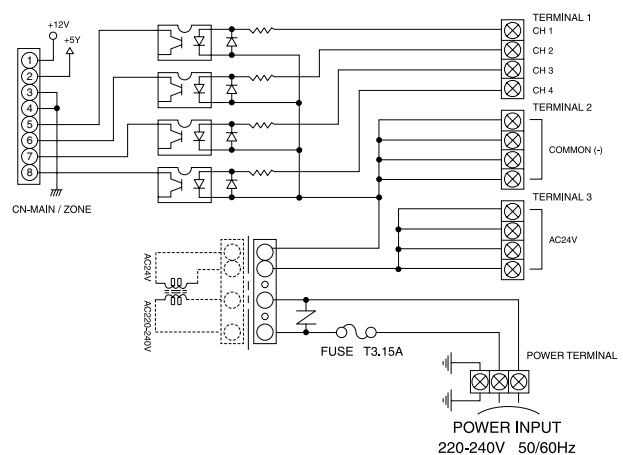
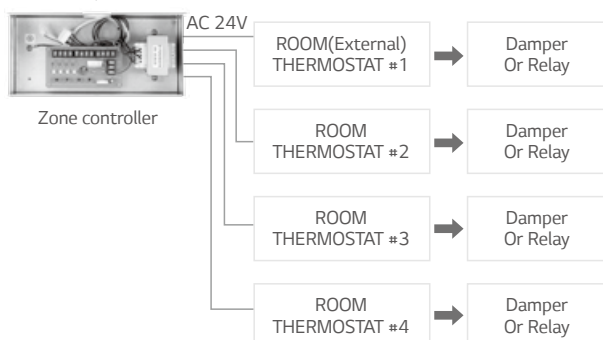
- Controls different zones (up to 4 zones) by external thermostat(AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and on/off operation



Models applied

- Ceiling Concealed Duct (refer to PDB for applicable models)

Wiring Diagram



Cool / heat selector

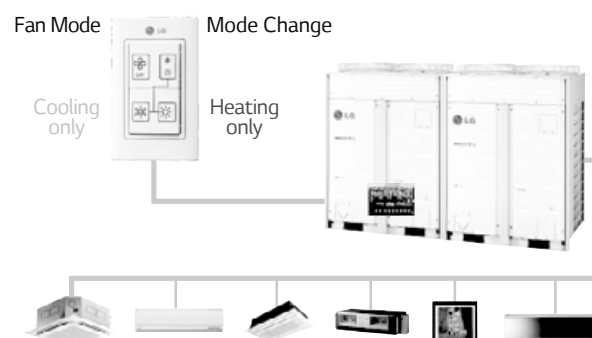
Cooling, heating, or fan mode can be selected to prevent cooling and heating mixing errors during seasonal changes

PRDSBM



Features

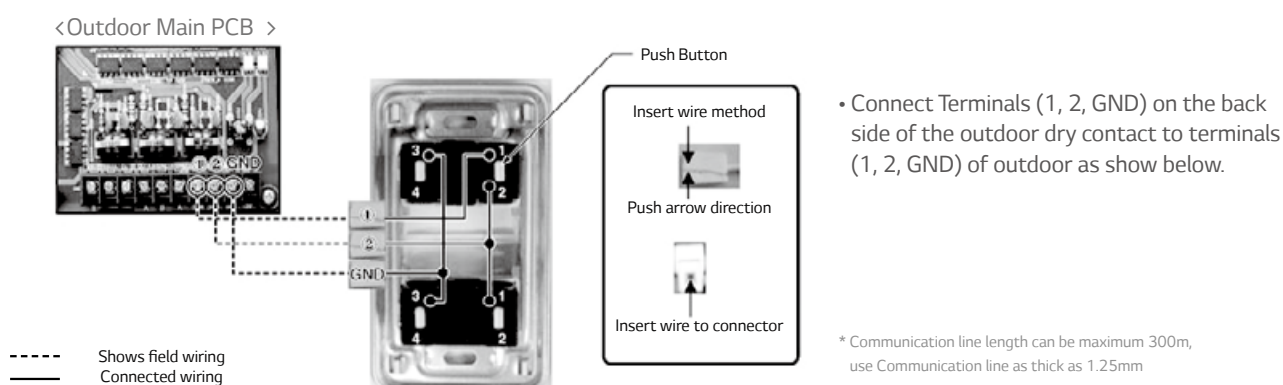
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



Models applied

- GHP SUPER2, MULTI V S, MULTI V III, MULTI V MINI, MULTI V SPACE II, MULTI V WATER II, MULTI V WATER S

Wiring Diagram



AHU kits (Air Handling Unit kits)

Solution to connect LG outdoor unit on the DX coil of an air handling unit, with LG's high efficient products for maximum cost saving



Specifications

Type	Model Name	Combination				Description	Dimensions(mm)		
		Outdoor unit	EEV Kit	Expansion Kit	Central controller		W	H	D
Communication Kit	PRCKA1	GHP	●	●	●	Return/room air by remote controller or dry contact control	280	135	280
	PRDCA0	GHP	●	●	-	Return/room air or supply air(capacity) control by DDC This unit is connected with outdoor unit 1:1	330	180	430
Control Kit	PRCKD21E	GHP	-	●	●	Max capacity 1~4 master outdoor unit	600	750	285
	PRCKD41E	GHP	-	●	●	Max capacity 5~8 master outdoor unit	600	750	285

Function list for Communication Kit

	List	Description	PUCKA0	PRCKA1	PUDCA0	PRDCA0	PUCKA0/PRCKA1	PUDCA0/PRDCA0		
							Type	Type	Min	Max
Controlling	Outdoor Unit Operation	On/Off	●	●	●	●	By wired controller*	Digital input** (Non voltage)	-	-
	Mode	Fan only/heating/cooling	●	●	●	●	By wired controller	Digital input (Non voltage)	-	-
	Fan Step	High/mid/low (3 steps)	●	●	●	●	By wired controller	Digital input (Non voltage)	-	-
	Room Temperature Control	Cooling 18 ~ 30°C, heating 16 ~ 30°C	●	●	●	●	By wired controller	Analog input	0 V	10 V
	Supply Air Temperature (by outdoor capacity control)	Compressor Off, Compressor Off & Fan Off, 40 ~ 100% capacity control	-	-	●	●	-	Analog input	0 V	10 V
Monitoring	Outdoor Unit Operation	On/Off	-	-	●	●	-	Digital output** (Non voltage)	Max : AC 250 V, DC 30 V, 1A	
	AHU Communication Kit Operation	On/Off	-	-	●	●	-	Digital output (Non voltage)	Max : AC 250 V, DC 30 V, 1A	
	Outdoor Mode	Fan/defrost/cooling/heating	-	-	●	●	-	Digital output (Non voltage)	Max : AC 250 V, DC 30 V, 1A	
	Fan Mode	High/mid/low (3 steps)	●	●	●	●	Digital output (Non voltage)	Digital output (Non voltage)	Max : AC 250 V, DC 30 V, 1A	
	Error Status	No error/error occurred	▲***	▲	●	●	Dry Contact	Digital output (Non voltage)	Max : AC 250 V, DC 30 V, 1A	

Note : PUCKA0, PRCKA1 is controlled by remote controller(default) and Dry Contact
 PUDCA0, PRDCA0 is controlled by external input(default) and wired remote controller

* Optional accessory, recommended model : PQRCVSLO, PQRCVSLOQW

** Binary input and output (Open and short), DO is normal open

*** Recommended model : PDRYCB000, PQDSA

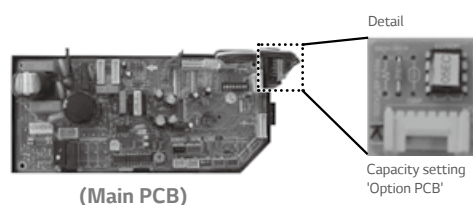
● : Available ▲ : Dry Contact is needed - : Not available

Combination

Type	Model Name	Description	Capacity Range	Dimensions(mm)		
				W	H	D
EEV Kit	PRLK048A0	For MULTI V - In combination with or without indoor units. Several EEV kits can be connected to a single outdoor unit.	8.6 ~ 28.1 kW	404	830	217
	PRLK096A0		33.7 ~ 56.2kW	404	830	217
Expansion Kit	PATX13A0E	For MULTI V - Stand alone. This unit is connected with outdoor unit 1:1	Outdoor Capacity : 8~16HP(23~46kW)	238	169	491
	PATX20A0E		Outdoor Capacity : 18~26HP(52~75kW)			
	PATX25A0E		Outdoor Capacity : 28~36HP(82~104kW)			
	PATX35A0E		Outdoor Capacity : 38~46HP(110~133kW)			
	PATX50A0E		Outdoor Capacity : 48~56HP(139~163kW)	291	192	561

For MULTI V

- When selecting evaporator, change 'Option PCB' in Communication kit according to below table (Basic 'Option PCB' is for 36k Btu/h)
- After checking the need capacity, remove the 36k Option PCB equipped in the main PCB, and set up the Option PCB fitted the need capacity in the main PCB.



Option PCB P/No	Capacity Index (Btu/h)	Recommended Heat Exchanger Volume($10^{-3} \times m^3$)	Maximum Heat Exchanger Capacity(kW)	Air Flow Rate (CMM)
EBR52358907	28k	2.7	8.6	22~26
EBR52358908	36k	3.1	11.0	25~32
EBR52358909	42k	3.4	13.8	31~35
EBR52358910	48k	4.0	15.4	33~45
EBR52358911	76k	5.4	22.2	50~64
EBR52358912	96k	6.3	28.1	64~72
EBR52358914	115k	7.3	33.7	72~88
EBR52358915	134k	8.5	39.3	88~103
EBR52358916	153k	9.5	45.4	103~116
EBR52358917	172k	10.5	50.4	114~129
EBR52358913	192k	11.2	56.2	121~137

* Evaporator Saturated Temperature = 6°C, Air Temperature = 27°C DBT / 19°C WBT

* Heat exchanger volume (m^3) : Pipe cross-section x Tube length

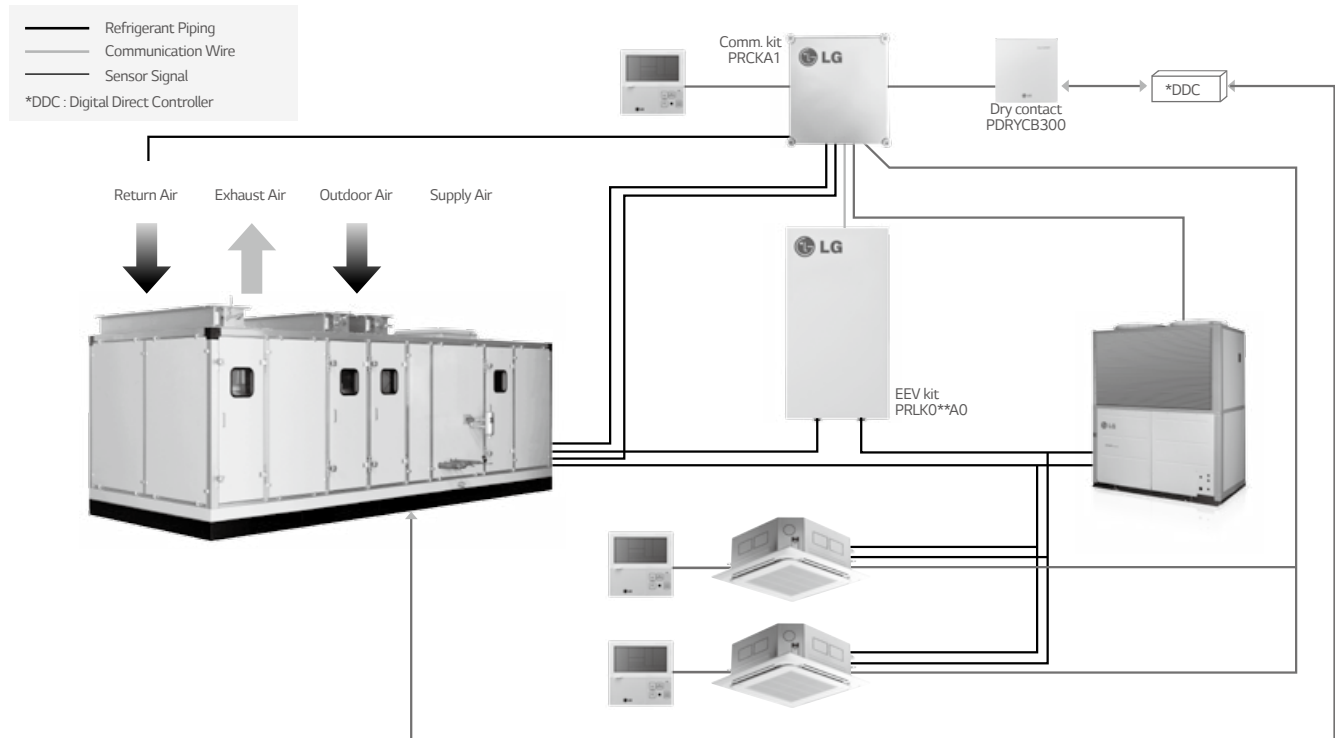
- Pipe cross-section (m^2) = $\pi \times ID^2 / 4$

- Tube length (m) = Tube length of 1 pipe x Tube step x Tube row

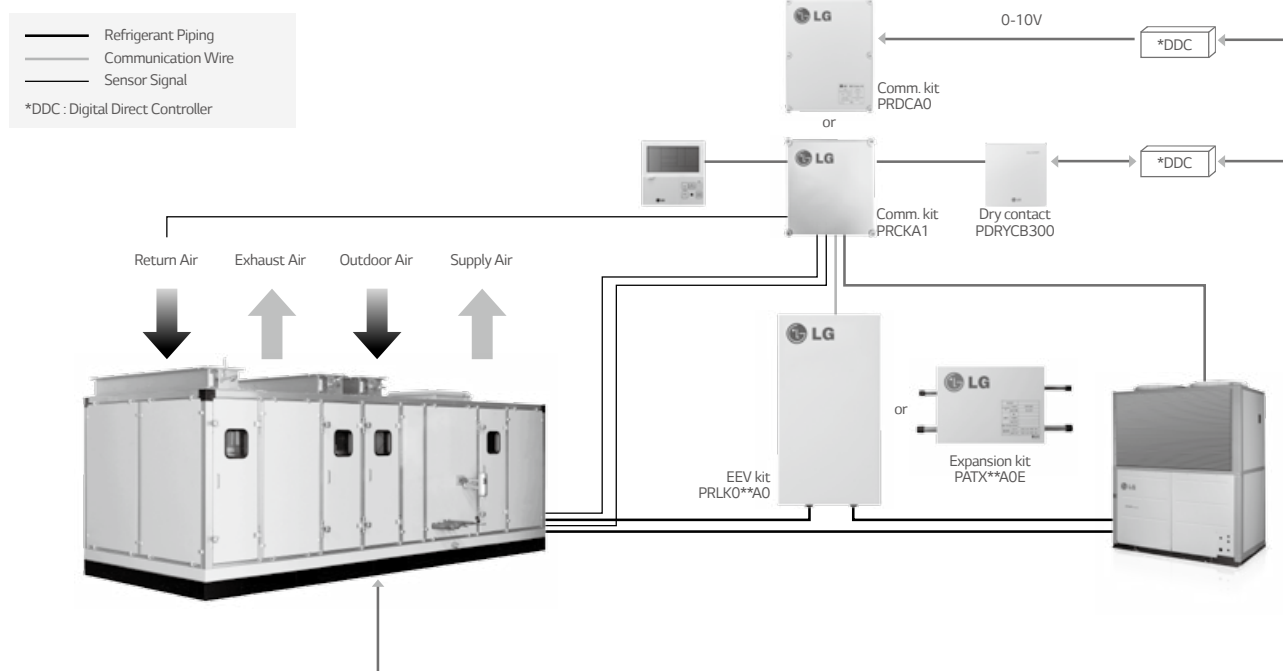
AHU kits (Air Handling Unit kits)

Solution to connect LG outdoor unit on the DX coil of an air handling unit, with LG's high efficient products for maximum cost saving

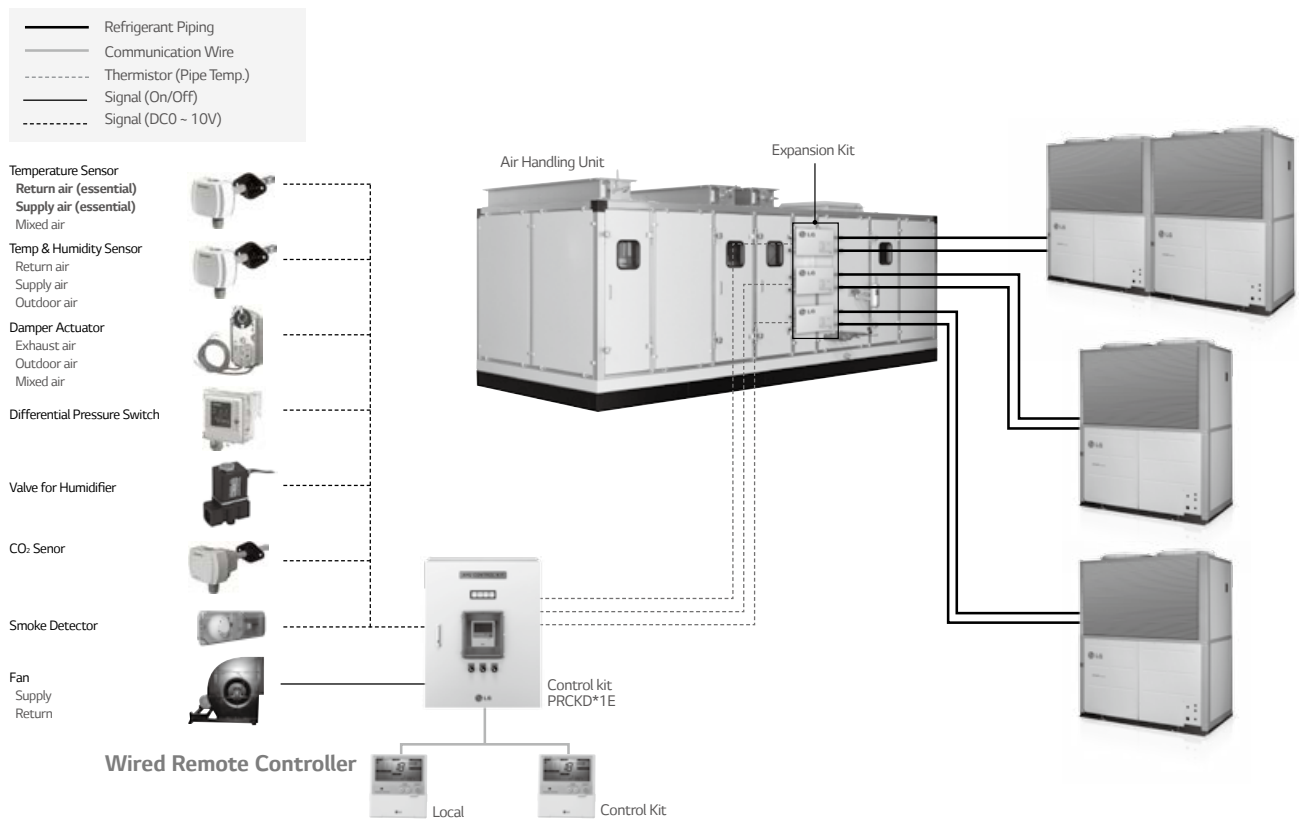
• GHP Application (in Combination with AC System)



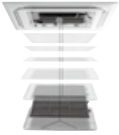
• GHP Application (Stand Alone)



• GHP Application (Total AHU Control for Medium to Large Capacity)



Mechanical accessories line-up

INDOOR		OUTDOOR
Ceiling Mounted Cassette		GHP
Auto Elevation Grille  PTEGM0	Cassette Cover  PTDCM PTDCQ	Vibration isolator  E-GACF-45L1
Cassette Panel  4 Way Cassette PT-UQC / PT-UMC1 2 Way Cassette PT-HLC 1 Way Cassette (Grill Type) PT-UUC PT-UUC1 PT-UTC (Panel Type) PT-UUD PT-UTD	Plasma Kit  PTPKM0 PTPKQ0 Ventilation Kit  PTVK410  PTVK420 PTVK430	
Ceiling Concealed Duct		
Suction Grille  PBSGB30 / PBSGB40 Canvas  PBSC30 / PBSC40		
Wall Mounted Unit		
ARTCOOL Panel  PSAPE**10 / PSAP8**10 PSAPF**11		
ETC.		
Refrigerant Leakage Detector  New PRLDNVS0 Independent Power Module  PRIPO		

Mechanical accessories Line up and application

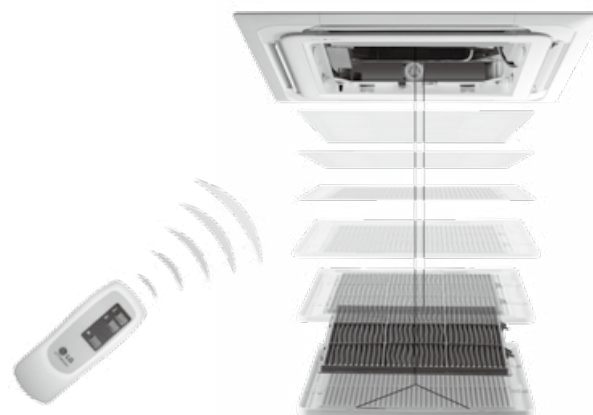
Type 1	Type 2	SINGLE SPLIT	MULTI SPLIT	GHP	MULTI V	Remark
INDOOR	Auto Elevation Grille	0	0*	0	0	4 Way Cassette
	Cassette Panel	0	0	0	0	1 Way Cassette
	Cassette Cover	0	0	0	0	4 Way Cassette
	Plasma Kit	0	0	0	0	4 Way Cassette
	Ventilation Kit	0	0	0	0	4 Way Cassette
	Suction Grille / Canvas	-	-	0	0	Ceiling concealed duct (Built-in)
	ARTCOOL Panel	-	-	0	0	ARTCOOL indoor unit
	Refrigerant Leakage Detector	-	-	0	0	GHP series indoors (2015 New model)
OUTDOOR	Independent Power Module	-	-	0	0	GHP indoor
	Vibration isolator	-	-	0		GHP outdoor

* Only for chassis TM, TN, TP

Auto elevation grille

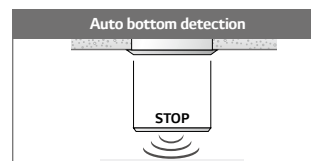
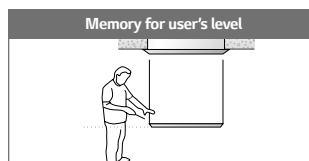
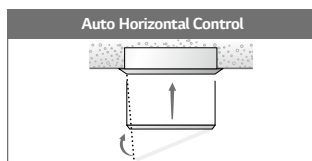
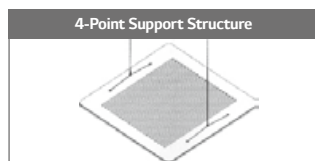
Easy filter cleaning with the elevation grille

PTEGM0



Features

- Easy filter cleaning with elevation grill
 - Installation inside main body
 - Auto horizontal control
 - 4 points support structure
- Memory for user's level
- Max 4.5m length
- Model : PTEGM0 (for chassis TM, TN, TP)



Operating with wired remote controller* and wireless remote controller included in PTEGM0.
* PQRCSLOQW, PQRCSLO, PREMTB001, PREMTB01

Models applied

- 4 Way Cassette : SINGLE SPLIT, MULTI SPLIT, MULTI V (refer to PDB for applicable models)

Parts Included

- Inlet Grille (1EA)
- Auto Elevation Grille Kit (1EA)
- Wireless Remote Controller (1EA)
- Screws (4EA)
- Installation Manual (1EA)

Parts Included



Cassette panel

Stylish designed panels make more unique space by various applications

4 Way Cassette

PT-UQC / PT-UMC1

2 Way Cassette

PT-HLC

1 Way Cassette

(Grill Type)

PT-UUC / PT-UUC1 / PT-UTC

(Panel Type)

PT-UUD / PT-UTD

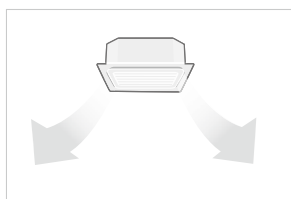


Features

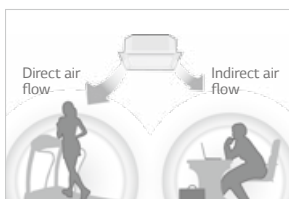
• Independent vane operation uses separate motors, making it possible to control all four vanes independently.

• The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

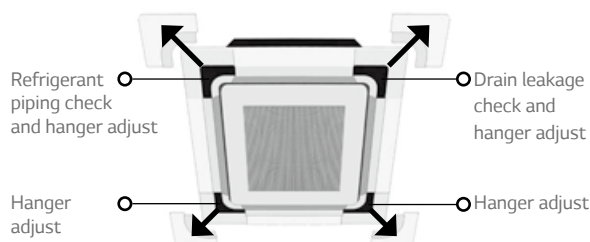
All Vane Operation



Independent Vane Control



Detachable Corner Design



Specifications

Model Name		Suction Type	Color	Gloss	Weight (kg)	Dimensions (mm)			Applied Model		
						W	H	D	SINGLE SPLIT	MULTI SPLIT	MULTI V
4 Way Cassette	PT-UQC	Horizontal Grill	Morning fog	X	3.0	700	22	700	2.5~5.0kw	1.5~5.0kw	1.5~5.0kw
	PT-UMC1	Horizontal Grill	Morning fog	X	5.6	950	25	950	7.1~15.0kw	7.1kw	7.1~14.0kw
2 Way Cassette	PT-HLC	Grill	Morning fog	X	4.0	1,050	28	640	-	-	5.0~7.1kw
1 Way Cassette	PT-UUC	Grill	White	O	4.6	1,100	34	500	-	-	2.1~3.5kw
	PT-UUC1	Grill	Morning fog	X	4.4	1,100	34	500	-	2.5~3.5kw	2.1~3.5kw
	PT-UTC	Grill	White	O	5.5	1,420	34	500	-	-	5.0~7.1kw
	PT-UUD	Panel	White	O	4.6	1,100	34	500	-	-	2.1~3.5kw
	PT-UTD	Panel	White	O	5.5	1,420	34	500	-	-	5.0~7.1kw

Cassette cover / Plasma kit

Air purifying filter to prevent dust and allergens / Air purifying filter to repel dust and allergens

PTDCM
PTDCQ



Features

- Specially designed for indoor unit
- Covers the side area of cassette
- Gives elegant looks
- Light weight

Models applied

- 4 Way Cassette (for chassis TP, TN, TM, TQ, TR)

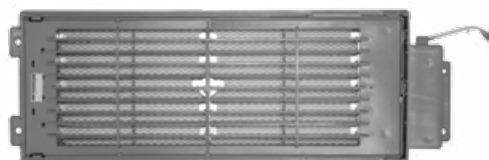
Parts included

- Cover A (4EA), Cover B (4EA)
- Cover C (4EA), Cover D (4EA)
- Screws
- Installation Manual (1EA)

Accessory model name

Model Name	Front Panel		Weight (kg)		Dimensions (mm)		
			NET	Gross	W	H	D
PTDCM	PT-UMC/ PT-UMC1	TP/TN	5.9	8.8	1,157	1,157	268
		TM	5.9	8.8	1,157	1,157	310
PTDCQ	PT-UQC	TR	5.0	7.2	907	907	268
		TQ	5.0	7.2	907	907	310

PTPKM0
PTPKQ0



Features

- It can remove microscopic contaminants such as dust and pollen to help reduce allergies.

* Plasma kit and Auto Elevation Grille are not applicable at the same time

Models applied

Type	SINGLE SPLIT	MULTI SPLIT	MULTI V
4 Way Cassette	Option (2.5/3.5/5.0kw : PTPKQ0) (7.1kw~15.0kw : PTPKM0)	Option (1.5/2.1kw : PTPKQ0)	Built-in
2 Way Cassette	-	-	Built-in
1 Way Cassette	-	Built-in	Built-in

Parts included

- Plasma Kit (1EA)
- Screws
- Installation Manual (1EA)

Ventilation kit

Fresh air can be supplied from outside through this ventilation kit

PTVK410
PTVK420
PTVK430



PTVK410



PTVK420



PTVK430

Features

- The ventilation kit can be supplied air from outside.

Models applied

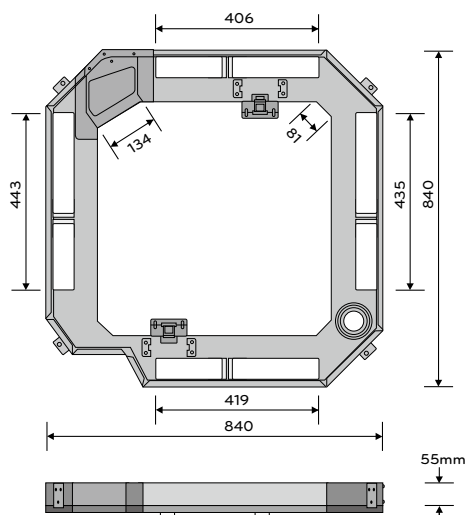
- There are 2 solutions for fresh air
 - PTVK410+PTVK420 (for chassis TP, TN, TM)
 - PTVK430 (for chassis TR, TQ, TP, TN, TM)

* Users can purchase and use PTVK430 in addition to PTVK410+PTVK420 in need to phase in larger outdoor air volume.

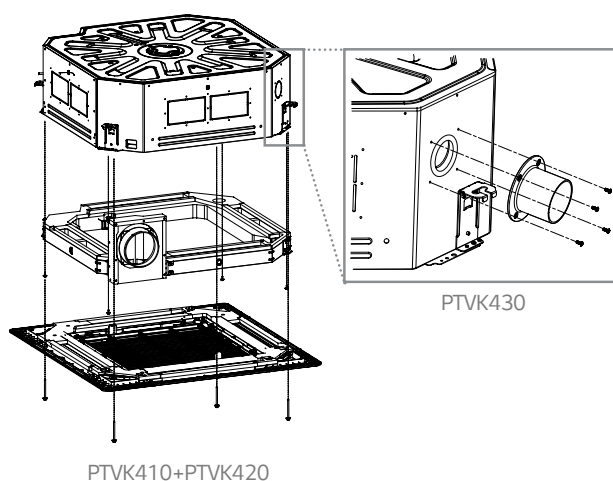
Parts included

- PTVK410 : 1 Ventilation Kit, 8 Bolts, 1 Insulation
- PTVK420 : 1 Flange, 7 Screws
- PTVK430 : 1 Flange, 4 Screws, 1 Insulation

Dimensions



Assembly diagram



Suction grille / Canvas

High flexibility for a wide variety of applications

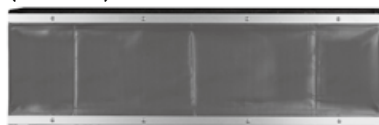
PBSGB30
PBSGB40
PBSC30
PBSC40

(SUCTION GRILLE)



PBSGB30 / PBSGB40

(CANVAS)



PBSC30 / PBSC40



Features

- High external static pressure facilitates unit use with flexible ducts of varying lengths
- When using suction grille, unit requires only 270mm of ceiling space
- Blends unobtrusively with any interior decoration

Models applied

- Ceiling Concealed Duct : Built-in type

Accessory model name

Category	Model Name	Capacity (Btu/h)					
		ARNU07GB3G2	ARNU09GB3G2	ARNU12GB3G2	ARNU15GB3G2	ARNU18GB4G2	ARNU24GB4G2
Grille	PBSGB30	0	0	0	0	-	-
	PBSGB40	-	-	-	-	0	0
Canvas	PBSC30	0	0	0	0	-	-
	PBSC40	-	-	-	-	0	0

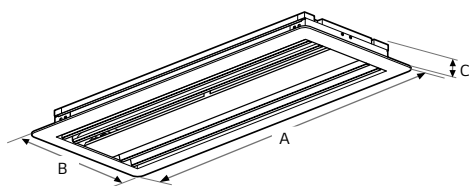
Suction grille / Canvas

High flexibility for a wide variety of applications

Parts included

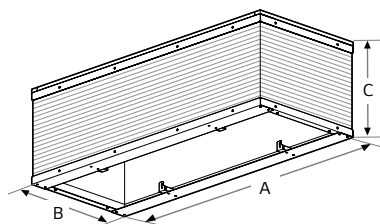
- For the suction grille :
 - Suction panel with air filter (1EA)
 - Suction panel fix bolt M5x18 (4EA)
 - Installation manual (1EA)
- For the suction canvas :
 - Air suction canvas (1EA)
 - Screws for air suction canvas (4EA)
 - Adjusting chain (4EA)
 - Screws for adjusting chain (8EA)
 - Installation manual (1EA)

Dimensions



(Unit : mm)

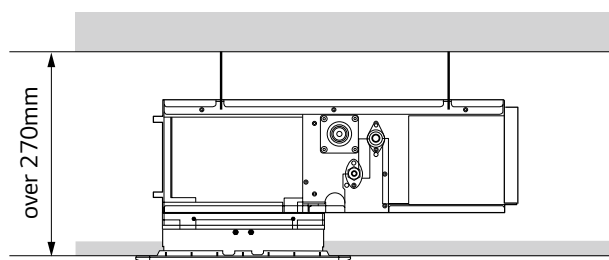
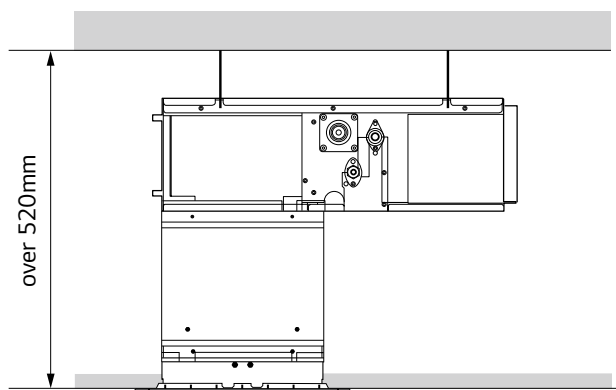
Model Name	A	B	C
PBSGB30	910	359	56
PBSGB40	1188	359	56



(Unit : mm)

Model Name	A	B	C
PBSC30	821	274	42-250
PBSC40	1100	274	42-250

Application



Artcool panel

A unique blend of art and colours

PSAPE**10
PSAP8**10
PSAPF**11



Models applied

ARTCOOL Mirror



* Panel colour

- CG : Gold
- CE : Red
- CR : Mirror
- CH : White Silver
- CV : Silver

ARTCOOL SF Chassis



Model name		ARTCOOL Mirror		ARTCOOL SF chassis
Colour	Chassis	SE	S8	SF
Mirror		PSAPECR10	PSAP8CR10	-
Silver		PSAPECV10	PSAP8CV10	PSAPFCV11
Red		-	-	PSAPFCE11
Gold		-	-	PSAPFCG11
White Silver		-	-	PSAPFCH11

Srefrigerant leakage detector

R410A refrigerant leakage detector makes more safe our space

New
PRLDNVSO



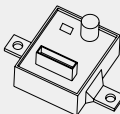
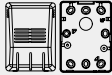
Features

- This detector senses refrigerant leakage and when the refrigerant concentration exceeds over 6,000ppm not only stopping the indoor unit operation but also giving a alarm signaling using buzzer and sensor LED. (The green and red LED lights blink simultaneously.)
- Alarm is "ON" over 6,000ppm has been maintained 5 seconds, and on the contrary to this, Alarm is "OFF" under 6,000ppm has been maintained 5 seconds.
- When the alarm of the refrigerant leak detector goes off, the user must ventilate until the alarm is disabled.
- The detector has to be installed inside the room and it can be installed 300~500mm from floor.

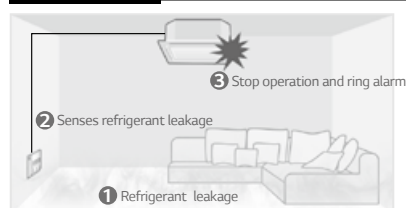
Models applied

- 2015 New 4th generation indoor units
 (Ceiling Mounted Cassette, Ceiling Concealed Duct, Floor standing, Wall mounted Unit - Mirror / Standard)
 More detailed information refer to the "MULTI V INDOOR UNIT LINE UP&FEATURES" page.

Specifications

Parts		Specifications	
Sensor		Rated Voltage (V)	DC 5.0 ±5%
		Dimensions (WxHxD, mm)	31x44x20
		Weight (g)	22
		Detectable Refrigerant	R410A
		Detected concentration (ppm)	0/6,000 Alarm off/on
		Operating temperature range (°C)	-10 ~ 50
		Preserved temperature range (°C)	-40 ~ 60
		Average power consumption (mA)	35
Connecting cable		Cable length (m)	10
Sensor protective cover		Dimensions of Front Plate (WxHxD, mm)	80x110x44.6
		Dimension of Backplate (WxHxD, mm)	80x110x44.6

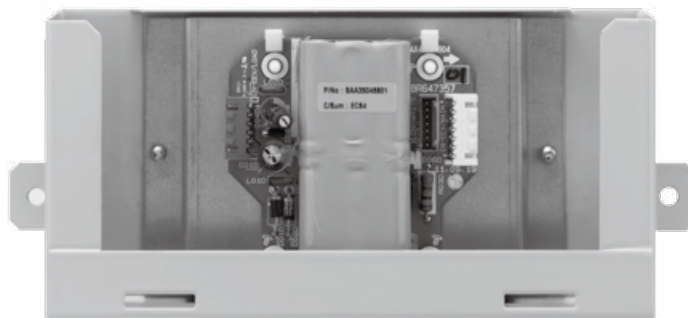
Application



Artcool panel

A unique blend of art and colours

PRIPO

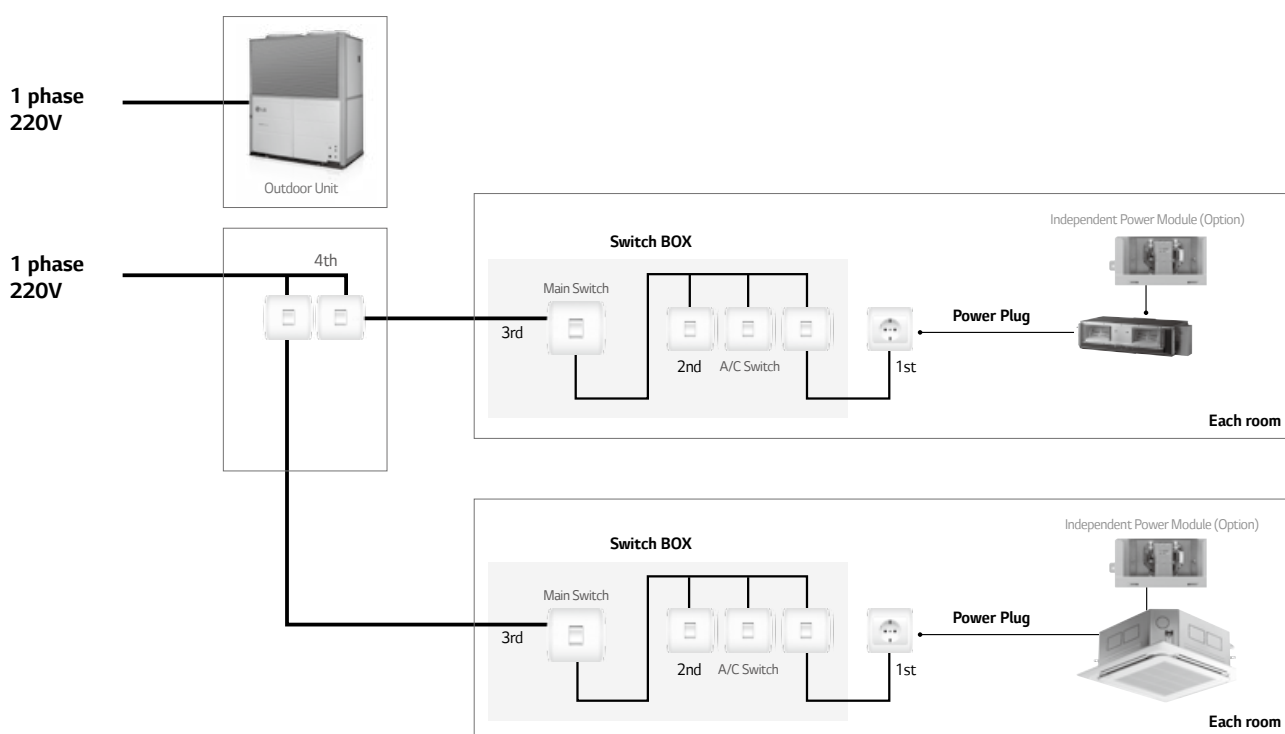


Features

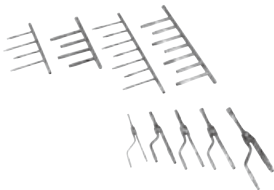
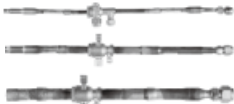
- Independent Power Module is specially designed to close the Indoor EEV at power cut-off.
- Supply Voltage : DC 12V $\pm$ 50%

Models applied

- GHP Indoors



Piping accessories line-up

GHP	ETC
Y Branch and Header Branch 	Refrigerant charging kit  PRAC1 Stopper valve  PRVT120 PRVT780 PRVT980 Drain hose  PHDHA05T PHDHA07T PHDHA05B PHDHA07B

Y branch and header branch

For refrigerant distribution of indoor units

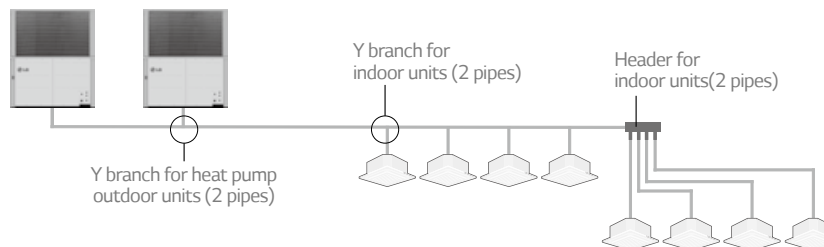


Features

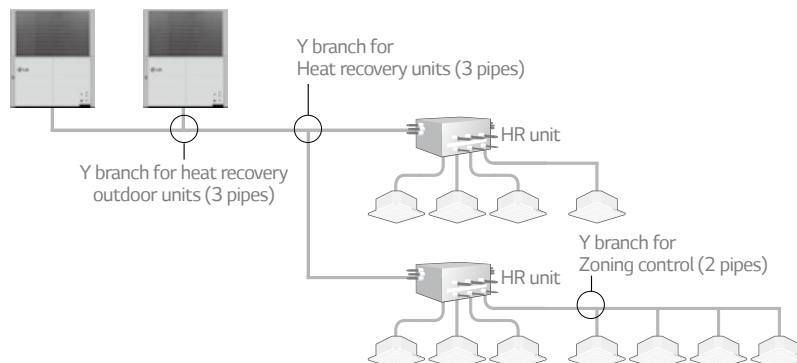
- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Piping diagram

Heat pump system



Heat recovery system



Models applied

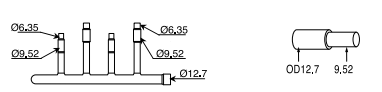
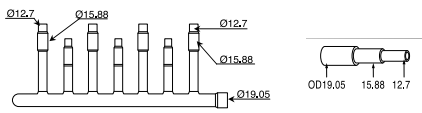
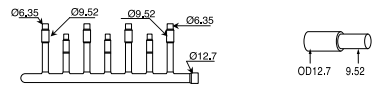
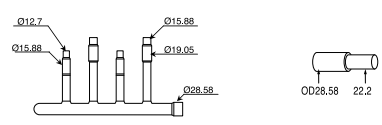
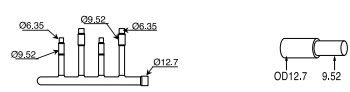
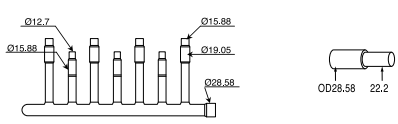
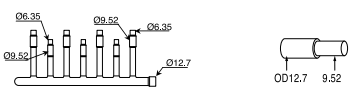
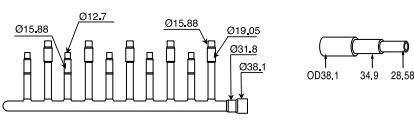
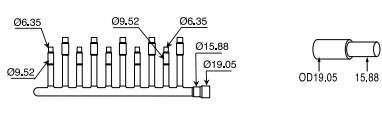
- | | | |
|--|--|---|
| <ul style="list-style-type: none"> • MULTI V IV • MULTI V S • MULTI V WATER IV • MULTI V WATER S | <ul style="list-style-type: none"> • MULTI V III, MULTI V PLUS II, MULTI V PLUS • MULTI V MINI • MULTI V WATER II • MULTI V SPACE II | <ul style="list-style-type: none"> • GHP SUPER • GHP SUPER II |
|--|--|---|

Details of model name

[Header branch]

• R410A

(Unit : mm)

Model Name	Gas Pipe	Liquid Pipe
4 Branch / ARBL054		
7 Branch / ARBL057		
4 Branch / ARBL104		
7 Branch / ARBL107		
10 Branch / ARBL1010		
10 Branch / ARBL2010		

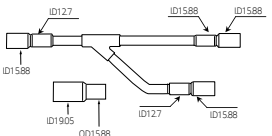
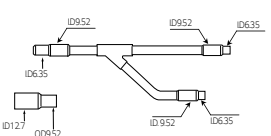
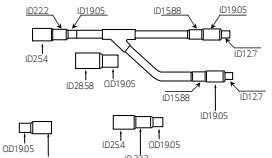
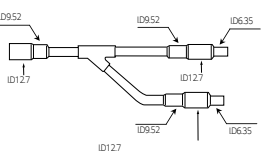
Heat pump, Heat recovery zone control

Y Branch pipe for connection of outdoor units

[Zone control]

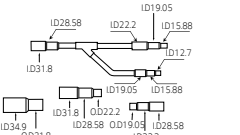
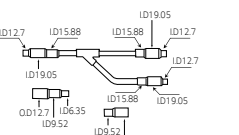
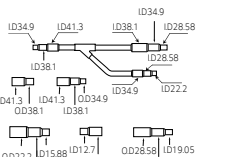
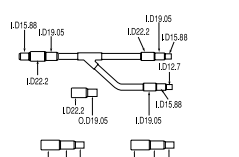
- **R410A** / GHP SUPER, GHP SUPER II, MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

(Unit : mm)

Model Name	Gas pipe	Liquid pipe
ARBLN01621		
ARBLN03321		

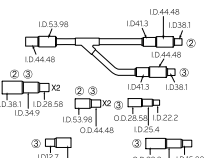
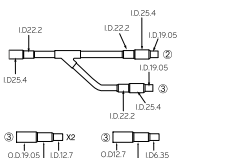
- **R410A** / GHP SUPER, GHP SUPER II, MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

(Unit : mm)

Model Name	Gas pipe	Liquid pipe
ARBLN07121		
ARBLN14521		

- **R410A** / GHP SUPER, GHP SUPER II, MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

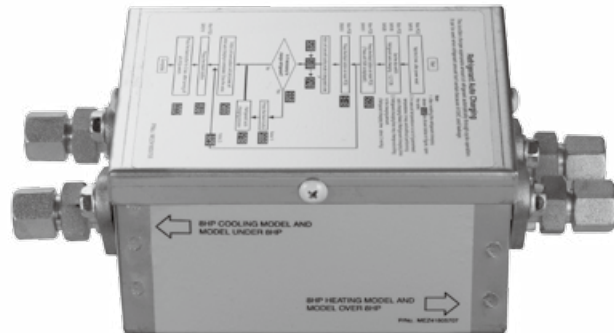
(Unit : mm)

Model Name	Gas pipe	Liquid pipe
ARBLN23220		

Refrigerant charging kit

Recharging refrigerant after a pump down or when refrigerant is either insufficient or excessive.

PRAC1

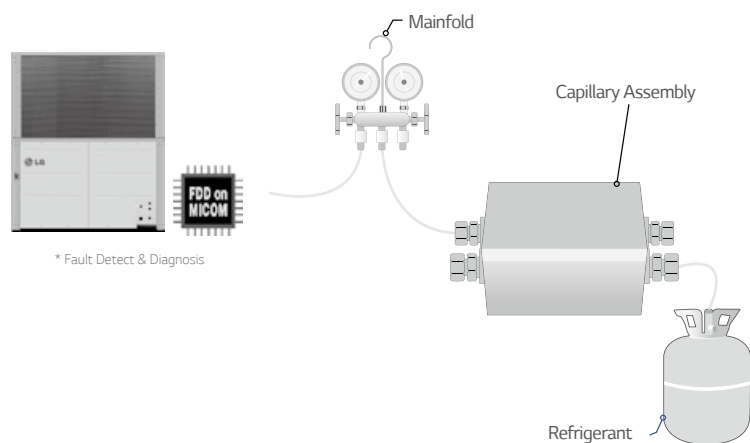


Features

- Arrange manifold, capillary assembly, refrigerant vessel and scale
- Connect manifold to the gas pipe service valve of outdoor unit as shown in the figure
- Connect manifold and capillary tube. Use designated capillary assembly only
If designated capillary assembly isn't used, the system may get damaged
- Connect capillary and refrigerant vessel
- Purge hose and manifold
- After "568" is displayed, open the valve and charge the refrigerant

Models applied

- GHP SUPER
- GHP SUPER II
- MULTI V III Heat pump
- MULTI V III Heat recovery
- MULTI V PLUS II
- MULTI V SYNC II
- MULTI V IV Pro



Stopper valves

Under 1/2 (inch)

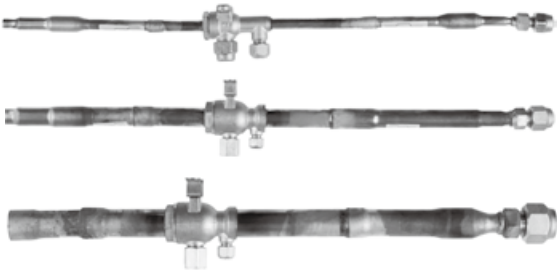
PRVT120

Under 7/8 (inch)

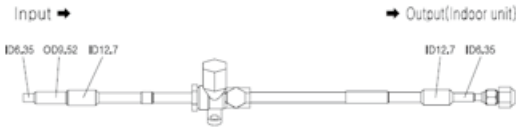
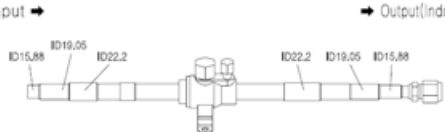
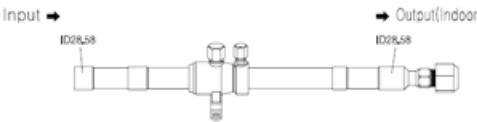
PRVT780

Under 9/8 (inch)

PRVT980



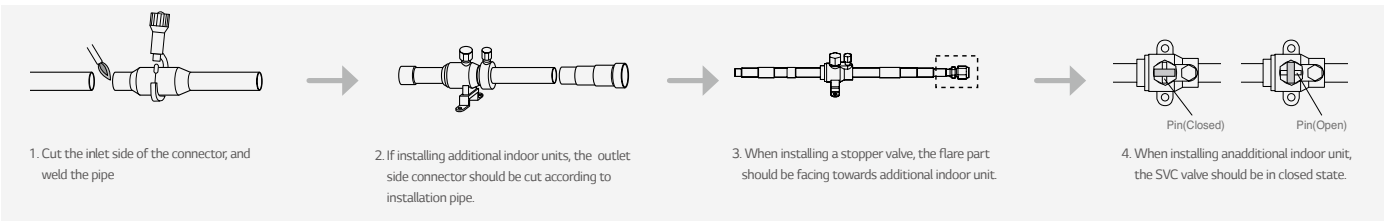
Features

Model Name	Specification
PRVT120	
PRVT780	
PRVT980	

Usage

- This unit can be applied for the additional indoor unit's installation.
- This unit can be applied for each indoor unit's service.

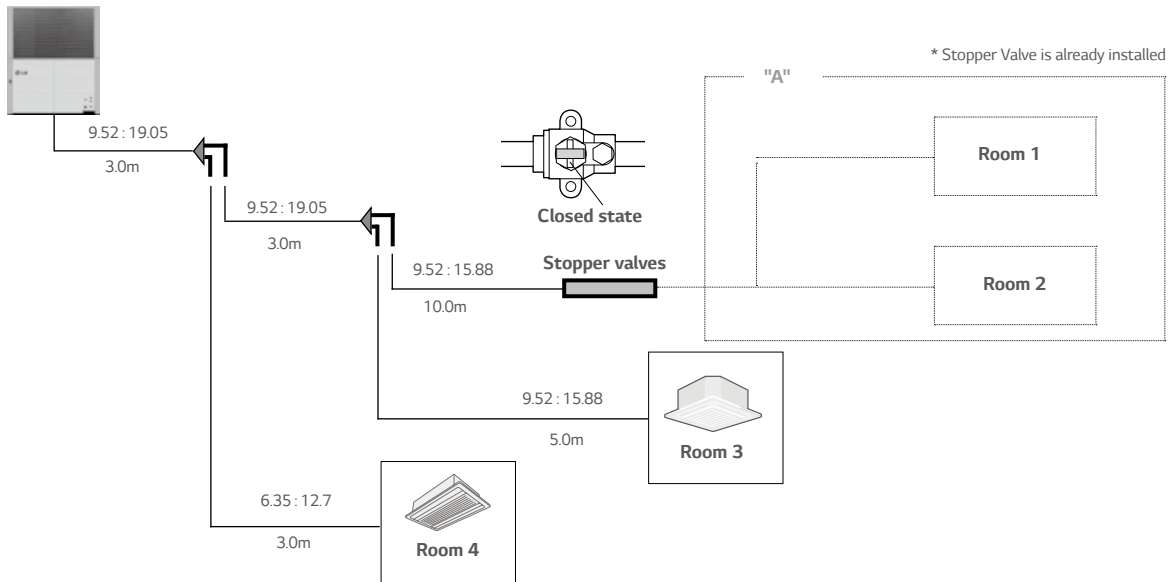
Installation



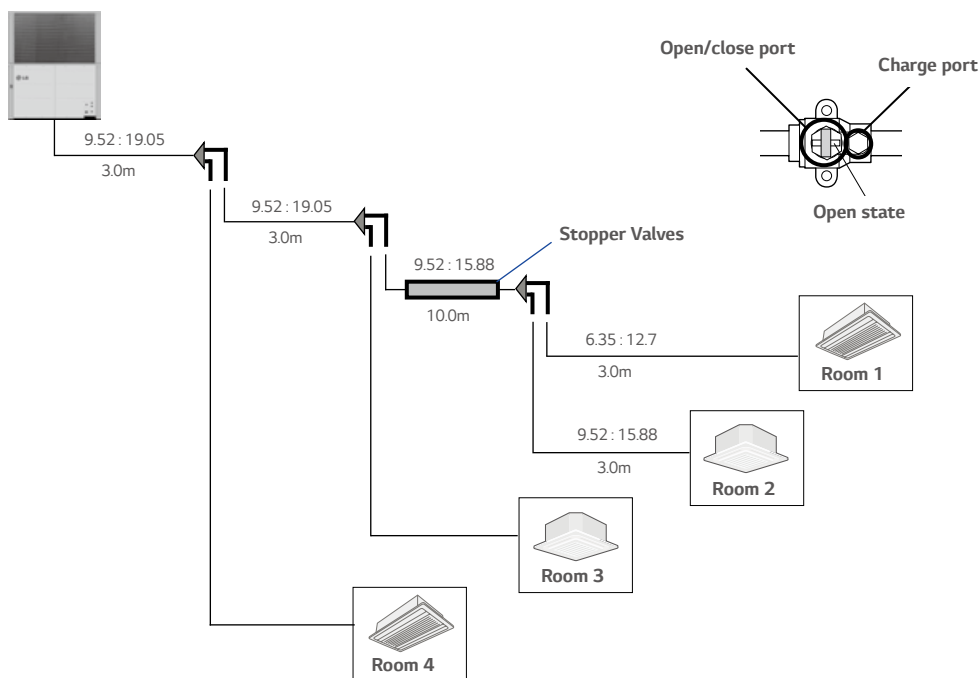
* When welding, service valve should be wrapped by wet cloth.

Details of model name

- Case1
(Room 3 & 4 : in use / Room 1 & 2 : need to install indoor units)



- In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged.(Room3 & Room4)
- If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
- After installation of additional indoor unit, you just need refrigerant charging for "A" section.
- Then, open the Stopper Valve.



Drain hose

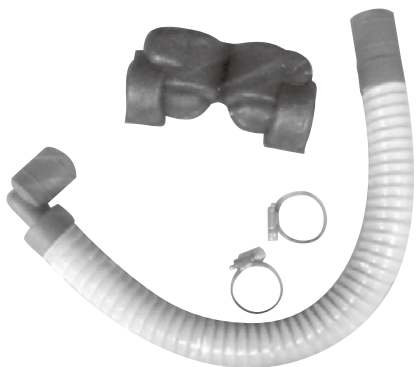
Easy drain installation

PHDHA05T

PHDHA07T

PHDHA05B

PHDHA07B

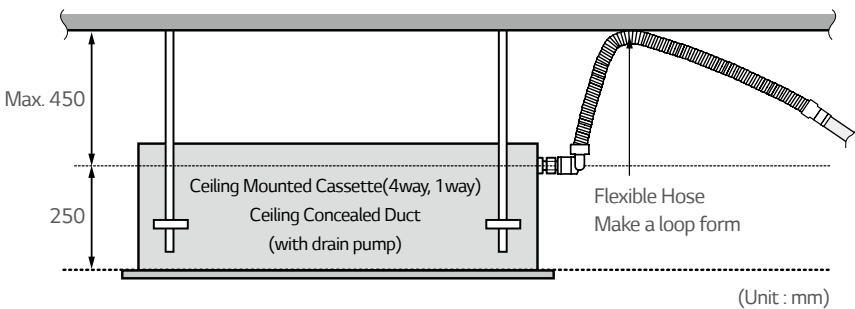


Features

It reduces the installation time by over 40% with elbow-less drain hose.
Midget drain pump covers maximum 800mm high, featuring easy piping installation.

Models applied

Ceiling mounted cassette
and Ceiling concealed duct
(refer to PDB for applicable model)



Accessory model name

Model Name	Length	Quantity
PHDHA05T	500mm	30EA
PHDHA07T	700mm	30EA
PHDHA05B	500mm	5EA
PHDHA07B	700mm	5EA

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