

Great Company Great People



Test Tower

Brief History

Establishment

Establishment of the LG Group 1958 Establishment of LG Electronics Inc. Establishment of Digital Appliance Company 1962

Growth

1968 Manufactured Korea's first air conditioners 1985 Introduced Korea's first Inverter air conditioners 1986 Exported Korea's first window-type air conditioner

U.S.

Won the approval of "UL's MDP & CSA's EEVP" 1989 Obtained ISO 9001 Certification from "BSI-QA" 1993 1994 Export Records US\$ 100 Million

Global

1995 Establishment of LGETA in China

Expansion

Establishment of LGEIL in India Establishment of LGEAT in Turkey 1999 1999 Establishment of LGEMH in Vietnam 2001 Establishment of LGEAZ in Brazil Establishment of LGETH in Thailand Establishment of LGEIN in Indonesia Turnover of US\$1.4 Billion dollars



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LG Air Conditioner Global



LG Air Conditioning Division, Korea



LGE Tianjin Appliance Co., Ltd. China



LG Electronics Thailand



LG Electronics Arcelik Turkey



LGE New Delhi Ltd., India



LGE Haiphong Inc., Vietnam

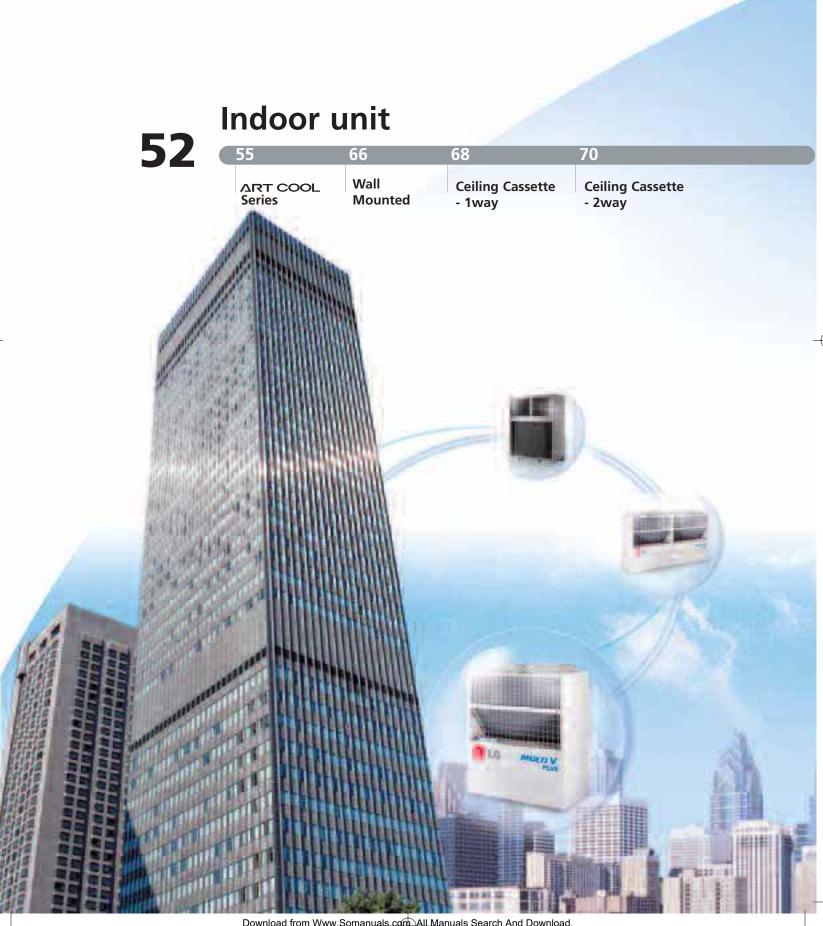


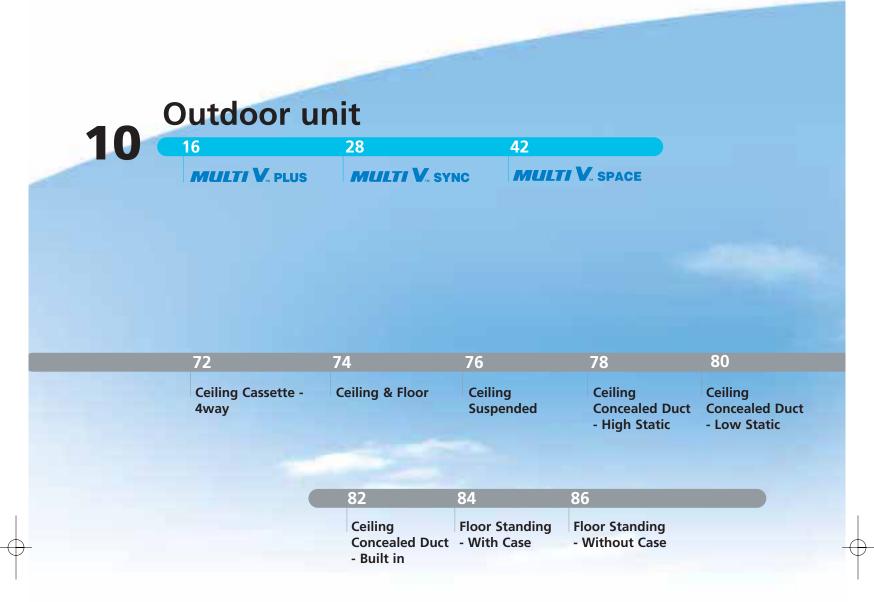
LGE da Amazonia Ltd., Brazil



LG Electronics Indonesia







Network solution & Accessory

90 93 94 95 96 97 98 **PC** Based PDI **BNU-LW** BNU-BN Individual Simple Central Deluxe Central Accessory Controller Controller Controller Central Controller

Outdoor unit line up



						Eden		
HP	5	8	10	12	14	16	18	20
Heat pump	TETT V	PLUS						
Heat recovery	LTI V	SYNC						
Heat pump		SPACE						

22	24	26	28	30	32	34	36	38	40
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	Btu / h	7k	9k	12k
4	Gallery			
ART COOL	Panel -			
Series	Wide			
	Mirror			
SRAC	Wall Mounted			
	1way			
Ceiling	2way			
Cassette	4way (570*570)			
	4way (840*840)			
Ceiling & Floo	or			
Ceiling Suspe	ended			
	High Static			
Ceiling Concealed Duct	Low Static			
	Built-in			
Floor	With Case			
Standing	Without Case			

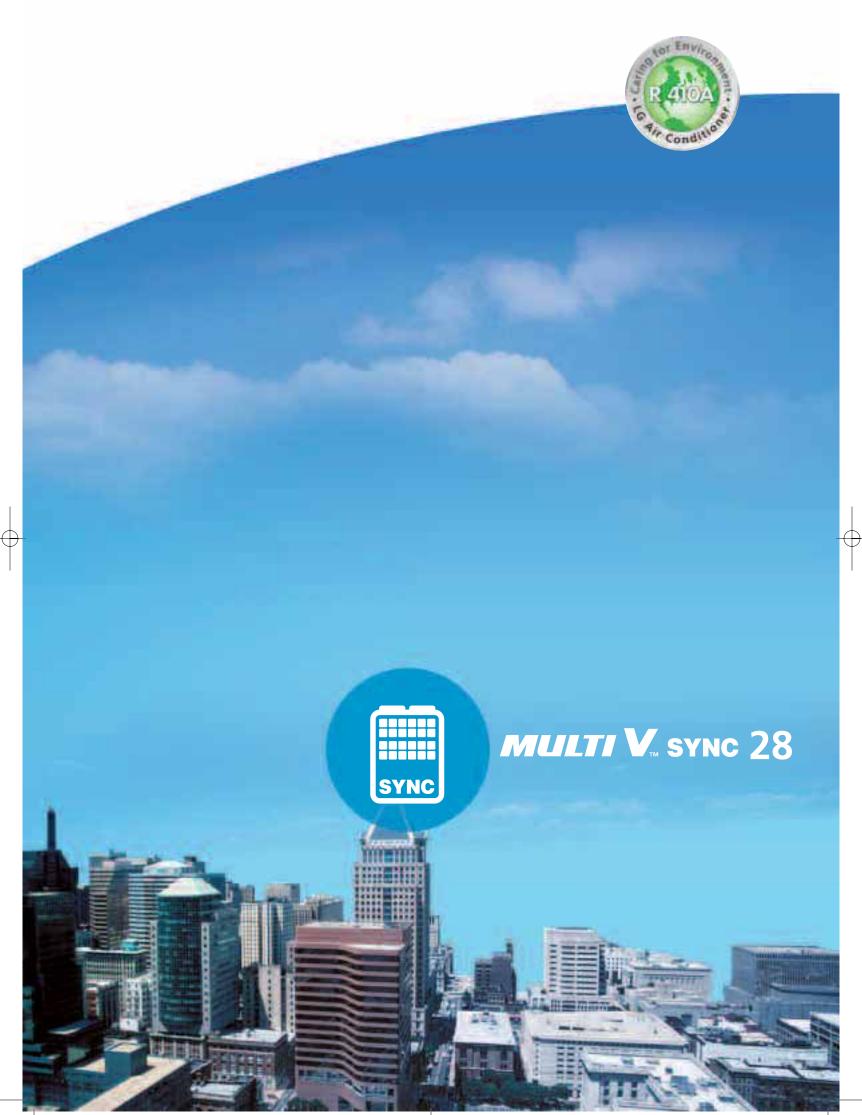
	18k	24k	28k	36k	42k	48k
)						



The MULTI V system is composed of serially arranged refrigerant piping, and multiple indoor units connected to one outdoor unit. It is a highly efficient system that offers outstanding energy reduction, simple and easy design and installation, and the ability to connect to many types of indoor unit for all types of application.



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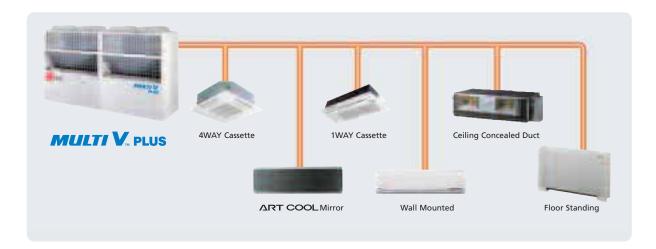


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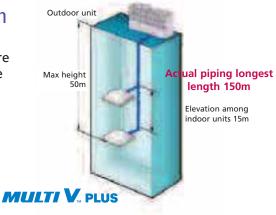
A line up with a wide range of model/capacity selection

The various selection of outdoor units coupled with the wide range of indoor units, means that the **MULTI V** system has the ability to make any space comfortable whether it be a small shop, residential application, or large office building.



Longer field piping runs for flexible installation

With a maximum pipe run of 150m from the outdoor unit to the furthest indoor unit, there is greater choice of where the outdoor and indoor units can be positioned. Therefore the **MULTI V** system is suitable for installation into most types of building.



Outdoor unit

MULTI V. incorporates inverter compressor and fan motors.

Why inverter?

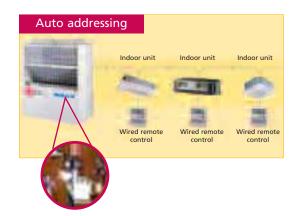
- Higher efficiency
- Reduced operation noise
- Less vibration
- Enhanced capacity control



Automatic addressing between outdoor and indoor units

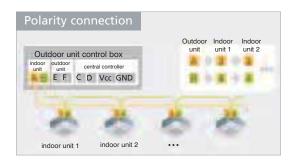
The addressing between outdoor unit and indoor units is carried out by the touch of a button. When the addressing is complete, the system is ready to run.





Non-polarised communication wiring

The communication wiring can be installed polarised, non-polarised, or a combination of the two, and the outdoor unit will sort out the mistakes during automatic addressing.



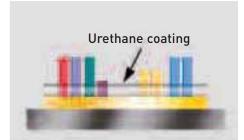




Urethane coated PCB

- Protects PCB from oxidization
- Prevents errors that may be caused by moisture and dust
- Strengthens electrical insulation
- Kepts components stable from vibration.





Indoor unit with interior concept

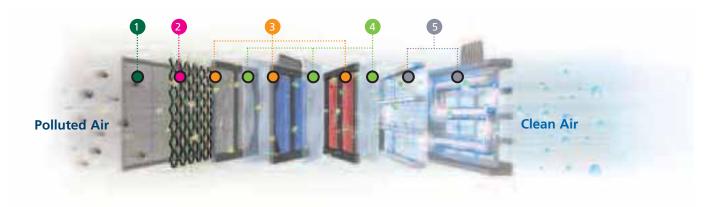
Indoor units with unique stylish designs blend in with refined interior.





Neo Plasma Air Purifying System (applied models only)

LG's unique NEO Plasma Air Purifying System is equipped with 7 specialized filters in 5 separate stages to enhance its cleaning power. It reduces fine dust and mold, unpleasant odors and cigarette smoke as air passes through each filter.



1. Pre Filter

The antibacterial pre-filter primarily reduces large dust, mold and quilt dust.

2. Nano Carbon Filter

Nano-size carbon filters removes fine odorous particles from the household air resulting in a more pleasant environment.

What is Nano Carbon Ball?

Microscopic sized (1/1000000000) filter to ensure optimal filtration of odors.

3. Triple Filter

The triple filter consists of three specialized filters to reduce the symptoms associated with various organic compounds including formaldehyde. It also has the ability to reduce unpleasant odors creating a more comfortable environment.



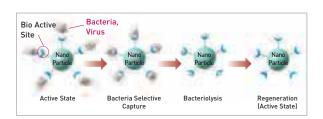
4. Nano Bio Fusion Filter

Nano bio fusion filters allow their nanosize bio enzymes to directly penetrate through cell walls of some bacteria and allergen to decompose its cell nuclei.

5. Plasma Filter

The PLASMA Air Purifying System developed uniquely by LG not only reduces microscopic contaminants and dust, but also reduces house mites, pollen, and pet fur to reduce allergy and asthma symptoms.





Distinctions from Conventional Filters

Conventional

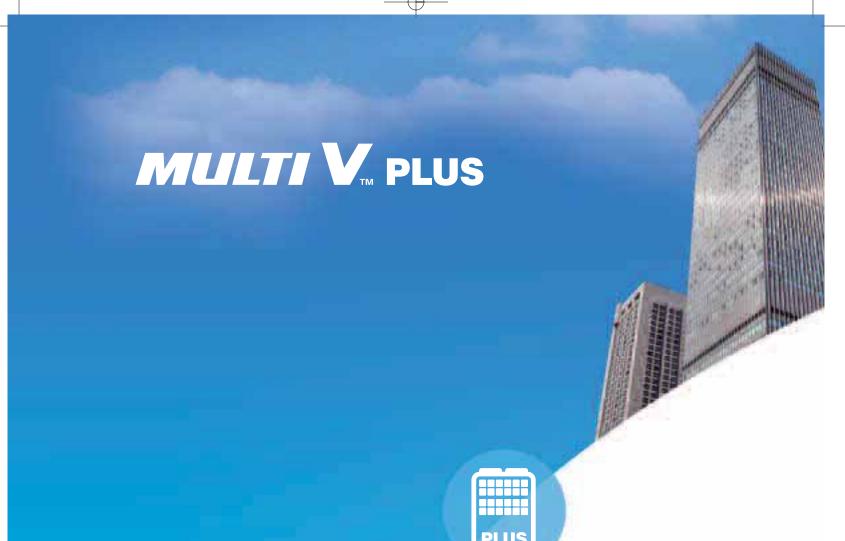




• Nano Bio Fusion Filter

Destroy bacteria but allow part of them to survive

The bio enzyme destroys cell walls and nuclei of some bacteria and allergens.









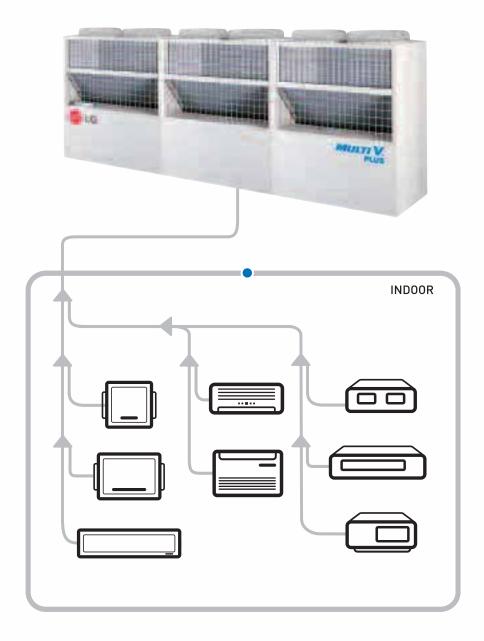


Applications

- Hotel School Office Factory



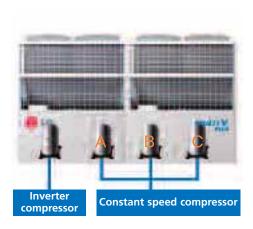
MULTI V. PLUS is a two pipe heat pump system, which is available from 5Hp (single module) up to 40Hp (combination multiple outdoor units together). Up to 40 indoor units can be connected to one system, reducing installation material cost, and installation time. Combined with the many control options on offer, the **MULTI V.** PLUS system can offer a total building solution.

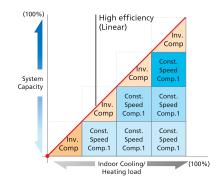




High efficiency linear control

MULT! V. PLUS allows capacity control in the range of 10-130% according to the indoor units load requirement. This is carried out by applying the optimised control algorithm using the inverter and constant speed compressors as the load increases/decreases. Combined with the outdoor unit inverter fan motors, this highly efficient inverter system also offers low noise operation, outstanding load response (quick and comfortable cooling and heating), and excellent energy reduction.





Highly efficiency linear control

Outstanding installation space utilisation

The two way air induction (front and rear), and top discharge structure, allows **MULTI V** outdoor units to be placed directly next to each other - offering reduced installation space, and reduced system footprint.





Installation of multiple outdoor units in this way can reduce installation by up to 30% compared to equivalent systems on the market (some of which use the 3 way air induction and top discharge method).

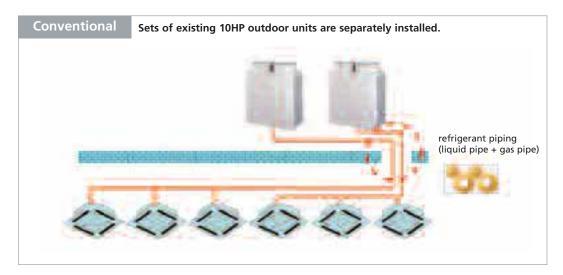
Outdoor unit

Economy

MULTI V. PLUS ensures an economic life due to its high efficiency operation, reduced installation material usage, and therefore reduced installation cost.

Long and reduced field piping for flexible installation

MULTI V. gives you the ability to connect multiple outdoor units together to form one system (therefore one set of pipes entering the building). This coupled with the long field piping runs makes the **MULTI V.** system not only very flexible in the type of buildings where it can be installed, but can reduce installation costs and even reduce installation space (especially within the risers).



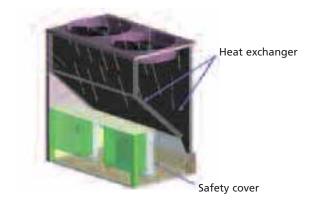




Components fully protected from the elements

- 1. Electrical and mechanical parts are totally sealed in their enclosures.
- 2. Separated equipment space between compressors/control boxes, and heat exchangers.
- 3. Because the electrical and mechanical parts are sealed in their own enclosures, this makes them much more resistant to environment factors which can cause corrosion (such as dust and rain) thus improving the lifetime of the outdoor unit.





Alternate compressor cycling / back-up function

1. Duty-cycling function

MULTI V. PLUS alternates several compressors conditionally to elongate product life span.

to meet diverse load in operation

- 1. inverter + constant speed 2 inverter only
- 2. inverter + constant speed 3 inverter only
- 3. inverter + constant speed 1 inverter only

2. Back-up function

MULTI V. PLUS can accommodate back up compressor operation when one compressor fails to raise product reliability.

to back up when constant speed compressor 2 is out of order

- 1. inverter + constant speed 2 (out of order)
- 2. inverter + constant speed 1 (back up operation)



MULTI compressor system with longer life cycle for each compressor due to alternate operation

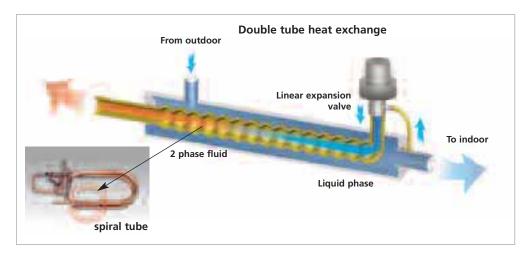


Alternative compressor starts to run

Outdoor unit

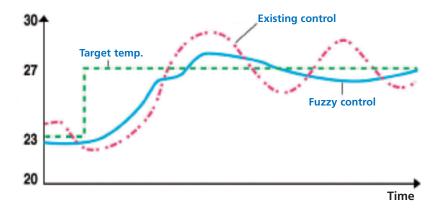
Subcooling circuit technology

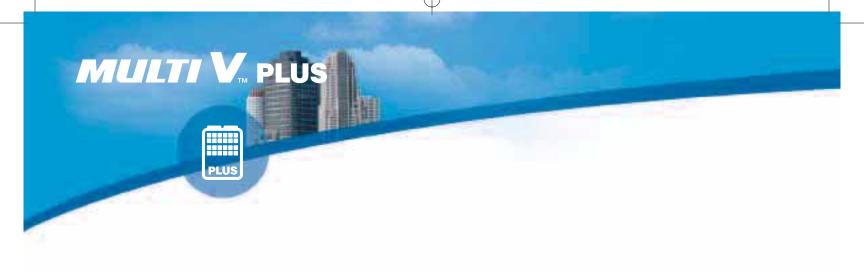
The double tube heat exchanger (LG patent) improves heating and cooling capacity due to the advanced subcooling circuit.



Fuzzy control system

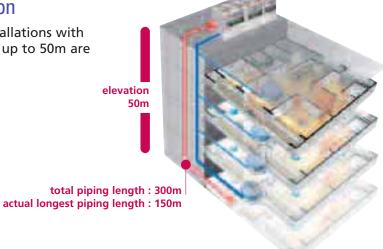
The fuzzy control system enables optimum conditioning by quickly attaining and maintaining the desired temperature for a much more pleasant and comfortable environment.





Longer piping, higher elevation

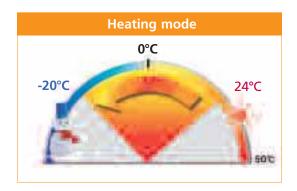
Reliability tests have proved that installations with piping length of 150m and elevation up to 50m are possible.

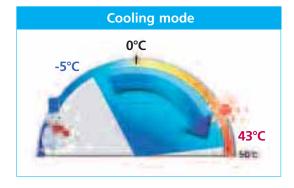


Wide operation range

Wide operation range

Cooling mode: -5°C DB - 43°C DB
Heating mode: -20°C WB - 24°C WB





Outdoor unit

Convenience

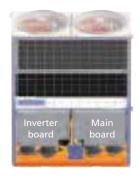
From installation to maintenance and service, **MULTI V. PLUS** adds convenience to cutting-edge technology.

Flexible pipe installation in 3 directions



Convenient swing doors/electrical component enclosures

The swing door design (using the electrical component enclosures) enables easy access to compressors and piping for service and maintenance purposes.





■ **MULTI V... PLUS** is easy to load, un-load and move around

Sections cut into the base of the unit, for fork lift or pallet truck access. Enables easy loading for transportation, and easy moving when the unit is being installed/positioned.









* Outdoor Unit

HP			5	8	10	12		
Model		Combination Unit	ARUN508T1	ARUN808T1	ARUN1008T1	ARUN1208T1		
		Independent Unit	ARUN508T1	ARUN808T1	ARUN1008T1	ARUN1208T1		
Capacity	Cooling	kW	14.0	22.4	28.0	33.6		
		kcal/h	12,000	19,300	24,100	28,900		
		Btu/h	47,800	76,400	95,900	114,700		
	Heating	kW	15.8	25.2	31.5	37.8		
		kcal/h	13,600	21,700	27,100	32,500		
		Btu/h	53,900	86,000	107,500	129,000		
Power Input	Cooling	kW	4.5	6.8	8.5	10.6		
	Heating	kW	4.2	6.4	8.1	9.7		
СОР	Cooling		3.11	3.29	3.29	3.17		
	Heating		3.76	3.94	3.89	3.90		
Power Supply	/	Ø / V / Hz	3/380~415/50					
Dimensions (W*H*D)	mm	806*1607*730	1280*1607*730	1280*1607*730	1280*1607*730		
Weight		kg	150	300	300	300		
Color			Warm Gray					
Sound pressu	re levels	dB(A) ± 3	56	58	58	58		
Fan	Туре		Propeller Fan					
	Air flow rate	[CMM]	105	190	190	190		
Compressor	Туре			Scroll				
	Number of com	pressors	1	2	2	2		
Heat Exchang	ger		Gold Fin					
Refrigerant	Туре		R410A					
	Charge	kg	4	8	8	8		
Control			Electronic Expansion Valve					
Refrigerant oil	Туре			FVC68	BD(PVE)			
	Charge	l	2.3	5.6	5.6	5.6		
Piping	Liquid (Flare)	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	12.7(1/2)		
connections	Gas (Brazing)	mm(inch)	15.88(5/8)	19.05(3/4)	22.2(7/8)	28.58(1 1/8)		
Number of o	utdoor units		1	1	1	1		
Number of m	aximum connect	able indoor units	6	13	16	20		
Ratio of the o	connectable indo	or units	50~130%					
l ongest ninir	ng length / Elevat	ion		150m / 50m				

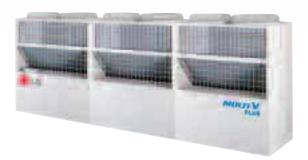
Notes:
1. capacities are based on the following conditions
Cooling-Indoor temp. 27°C[80.6°F]DB / 19°C[66.2°F]WB
Outdoor temp. 35°C[95*F]DB / 24°C[75.2°F]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. L.E.V.-Linear Expansion Valve

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

Conversion Formula









* Outdoor Unit

HP			14	16	18	20	22			
Model		Combination Unit Independent Unit	ARUN1408T1 ARUN1408T1	ARUN1608T1 ARUN808T1 ARUH808T1	ARUN1808T1 ARUN1008T1 ARUH808T1	ARUN2008T1 ARUN1008T1 ARUH1008T1	ARUN2208T1 ARUN1208T1 ARUH1008T1			
Capacity	Cooling	kW	39.2	44.8	50.4	56.0	61.6			
		kcal/h	33,700	38,500	43,300	48,200	53,000			
		Btu/h	133,800	152,900	172,000	191,100	210,200			
	Heating	kW	44.1	50.4	56.7	63.0	69.3			
		kcal/h	37,900	43,300	48,800	54,200	59,600			
		Btu/h	150,500	172,000	193,500	225,000	236,500			
Power Input	Cooling	kW	12.8	13.6	15.3	17.0	19.1			
	Heating	kW	11.5	12.8	14.5	16.2	17.8			
СОР	Cooling	<u> </u>	3.06	3.29	3.29	3.29	3.23			
	Heating		3.83	3.94	3.91	3.89	3.89			
Power Supply	y	Ø/V/Hz	3/380~415/50							
Dimensions (W*H*D)	mm	1280*1607*730	2560*1607*730	2560*1607*730	2560*1607*730	2560*1607*730			
Weight		kg	300	300*2	300*2	300*2	300*2			
Color		'			Warm Gray					
Sound pressu	ire levels	dB(A)±3	58	60	60	61	61			
Fan	Туре	'	Propeller Fan							
	Air flow rate	[CMM]	190	380	380	380	380			
Compressor	Туре				Scroll					
	Number of com	pressors	2	4	4	4	4			
Heat Exchang	ger		Gold Fin							
Refrigerant	Туре		R410A							
	Charge		8	16	16	16	16			
	Control			Electronic Expansion Valve						
Refrigerant oil	Туре				FVC68D(PVE)					
	Charge	l	5.6	5.6+5.6	5.6+5.6	5.6+5.6	5.6+5.6			
Piping	Liquid (Flare)	mm(inch)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)	15.88(5/8)			
connections	Gas (Brazing)	mm(inch)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)			
Number of o	utdoor units		1	2	2	2	2			
Number of m	naximum connect	able indoor units	20	20	20	20	22			
Ratio of the	connectable indo	or units			50~130%					
Longest pipir	ng length / Elevat	ion			150m / 50m					

Notes:

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
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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

Conversion Formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3





* Outdoor Unit

НР			24	26	28	30	32		
Model		Combination Unit	ARUN2408T1	ARUN2608T1	ARUN2808T1	ARUN3008T1	ARUN3208T1		
		Independent Unit	ARUN1208T1	ARUN1008T1	ARUN1008T1	ARUN1008T1	ARUN1208T1		
			ARUH1208T1	ARUH808T1	ARUH1008T1	ARUH1008T1	ARUH1008T1		
				ARUH808T1	ARUH808T1	ARUH1008T1	ARUH1008T1		
Capacity	Cooling	kW	67.2	72.8	78.4	84.0	89.6		
		kcal/h	57,800	62,600	67,400	72,200	77,100		
		Btu/h	229,300	248,400	267,500	286,600	305,700		
	Heating	kW	75.6	81.9	88.2	94.5	100.8		
		kcal/h	65,000	70,400	75,900	81,300	86,700		
		Btu/h	258,000	279,500	301,000	322,500	343,900		
Power Input	Cooling	kW	21.2	22.1	23.8	25.5	27.6		
	Heating	kW	19.4	20.9	22.6	24.3	25.9		
СОР	Cooling	Cooling		3.29	3.29	3.29	3.25		
	Heating		3.90	3.92	3.90	3.89	3.89		
Power Supply	/	Ø/V/Hz			3/380~415/50				
Dimensions (W*H*D)	mm	2560*1607*730	3840*1607*730	3840*1607*730	3840*1607*730	3840*1607*730		
Weight		kg	300*2	300*3	300*3	300*3	300*3		
Color					Warm Gray				
Sound pressu	re levels	dB(A)±3	61	62	62	63	63		
Fan	Туре		Propeller Fan						
	Air flow rate	[CMM]	380	570	570	570	570		
Compressor	Туре		Scroll						
	Number of com	pressors	4	6	6	6	6		
Heat Exchang	ger		Gold Fin						
Refrigerant	Туре				R410A				
	Charge		16	24	24	24	24		
	Control		Electronic Expansion Valve						
Refrigerant oil	Туре				FVC68D(PVE)				
	Charge	l	5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6		
Piping	Liquid (Flare)	mm(inch)	15.88(5/8)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)		
connections	Gas (Brazing)	mm(inch)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)		
Number of o	utdoor units		2	3	3	3	3		
Number of m	aximum connect	able indoor units	24	32	32	32	32		
Ratio of the	connectable indo	or units			50~130%				
Longest pipir	ng length / Elevat	ion			150m / 50m				

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

kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Notes:

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
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Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification 4. L.E.V. -Linear Expansion Valve









* Outdoor Unit

* Outdoor	Unit	1						
HP			34	36	38	40		
Model		Combination Unit	ARUN3408T1	ARUN3608T1	ARUN3808T1	ARUN4008T1		
		Independent Unit	ARUN1208T1	ARUN1208T1	ARUN1408T1	ARUN1408T1		
			ARUH1208T1	ARUH1208T1	ARUH1208T1	ARUH1408T1		
			ARUH1008T1	ARUH1208T1	ARUH1208T1	ARUH1208T1		
Capacity	Cooling	kW	95.2	100.8	106.4	112.0		
		kcal/h	81,900	86,700	91,500	96,300		
		Btu/h	324,800	343,900	363,100	382,200		
	Heating	kW	107.1	113.4	119.7	126.0		
		kcal/h	92,100	97,500	102,900	108,400		
		Btu/h	365,400	386,900	408,400	429,900		
Power Input	Cooling	kW	29.7	31.8	34.0	36.2		
	Heating	kW	27.5	29.1	30.9	32.7		
СОР	Cooling		3.21	3.17	3.13	3.09		
	Heating		3.89	3.90	3.87	3.85		
Power Supply	/	Ø / V / Hz	3/380~415/50					
Dimensions (Dimensions (W*H*D) mm		3840*1607*730	3840*1607*730	3840*1607*730	3840*1607*730		
Weight	eight kg		300*3	300*3	300*3	300*3		
Color			Warm Gray					
Sound pressu	ire levels	dB(A)±3	63	63	63	63		
Fan	Туре		Propeller Fan					
	Air flow rate	[CMM]	570	570	570	570		
Compressor	Туре		Scroll					
	Number of comp	pressors	6	6	6	6		
Heat Exchang	ger		Gold Fin					
Refrigerant	Туре			R4	410A			
	Charge		24	24	24	24		
	Control		Electronic Expansion Valve					
Refrigerant oil	Туре			FVC68	D(PVE)			
	Charge	l	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6		
Piping	Liquid (Flare)	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)		
connections	Gas (Brazing)	mm(inch)	34.9(1 3/8)	41.3(1 5/8)	41.3(1 5/8)	41.3(1 5/8)		
Number of o	utdoor units		3	3	3	3		
Number of m	aximum connecta	ble indoor units	34	36	38	40		
Ratio of the	connectable indoc	or units		50~	130%			
Longest pipir	ng length / Elevati	on		150n	n / 50m			

kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Notes:

1. Capacities are based on the following conditions
Cooling-Indoor temp. 27°C[80.6°F]DB / 19°C[68.2F]WB
Outdoor temp. 35°C[95°F]DB / 12°C[75.2F]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. L.E.V. -Linear Expansion Valve

MULTI V_m SYNC





- Applications

 Machine room / computer room, office

 Fitness room, locker room

 Kitchen, restaurant

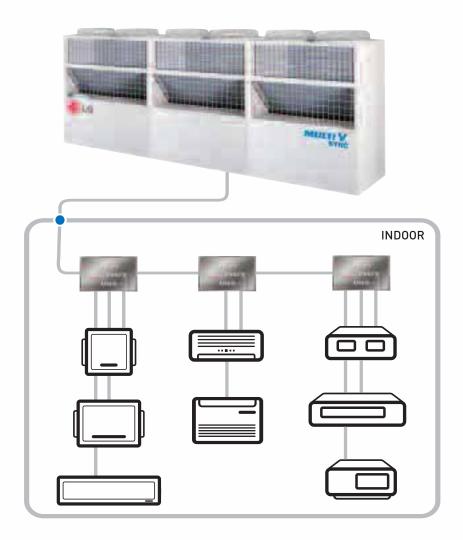
- According to customer's need, heating & cooling may be required simultaneously. (hotel, office, etc.)





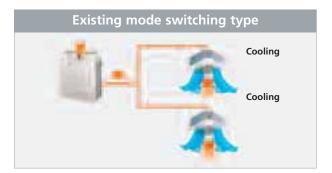
MULTI V. SYNC is a three pipe heat recovery system, which means simultaneous cooling and heating is possible from one system. This is achieved using the three pipes from the outdoor unit in conjunction with heat recovery boxes. The heat recovery boxes (or HR boxes) are installed between the outdoor unit and indoor units, and the refrigerant is distributed to the indoor units in its required state (depending on whether or not cooling or heating is required). Heat that is removed from one room can be used elsewhere within the system where it is required, thus making the **MULTI V. SYNC** even more efficient. The **MULTI V. SYNC** is available from 8Hp (single module) up to 40Hp (combining multiple outdoor units together). Up to 40 indoor units can be connected to one system, reducing installation material cost, and installation time. Combined with the many control options on offer, the **MULTI V. SYNC** system can offer a total building solution.

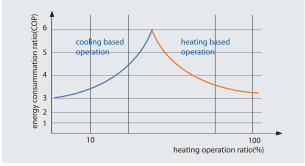
Outdoor unit



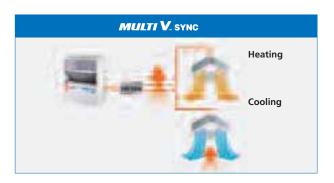


Technology





- Outdoor temperature: 7°C DB / 6°C WB Indoor temperature : 20°C DB / 15°C WB



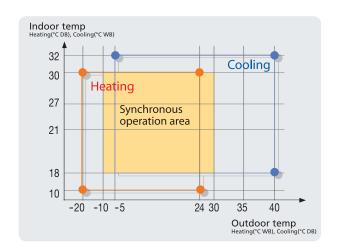
Heating based operation

Many indoor units run in heating mode, a few run in cooling mode

Cooling based operation

Many indoor units run in cooling mode, a few run in heating mode

Wide operation range



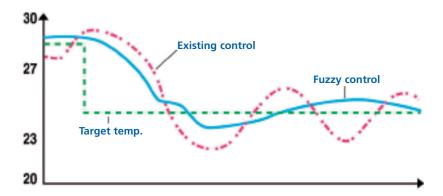
Wide operation range

- Cooling mode: -5°C WB to 43°C WB - Heating mode: -20°C DB to 24°C DB Synchronous mode: -10°C DB to 30°C DB

Outdoor unit

Fuzzy control system

The fuzzy control system enables optimum conditioning by quickly attaining and maintaining the desired temperature for a much more pleasant and comportable environment.

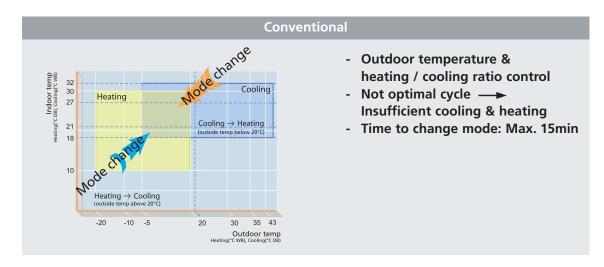


In a system that has non-linear characteristics, Fuzzy is a very effective control logic that quantifies a vague situation or condition.

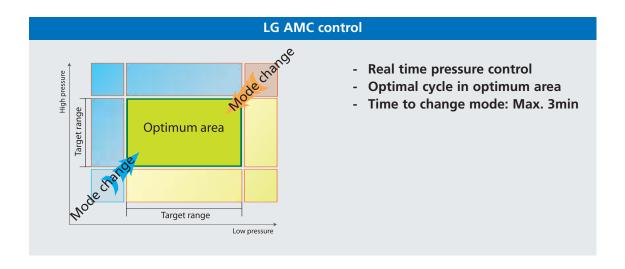


AMC (Advanced Mode Change) control

AMC control provides an optimal operation under any conditions.



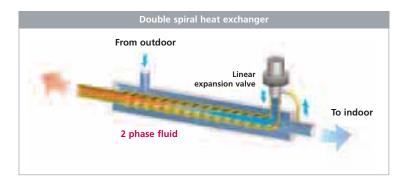




Outdoor unit

High efficiency heat recovery unit

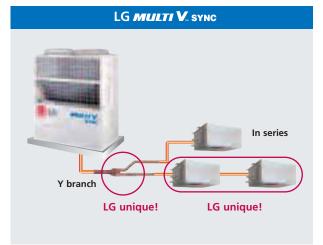
- Max. 4 indoor units can be connected by module design.
- Due to the automatic search algorithm for piping detection, easy installation and effectiveness is improved.
- Subcooling cycle in HR unit results in the system running of maximum effiency.

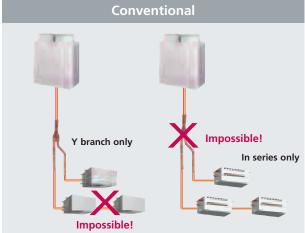


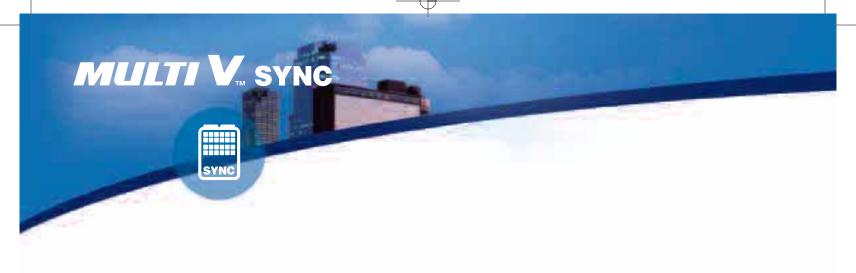


Flexible connection of HR unit

LG's heat recovery unit allows flexible connection both in series and in a row.

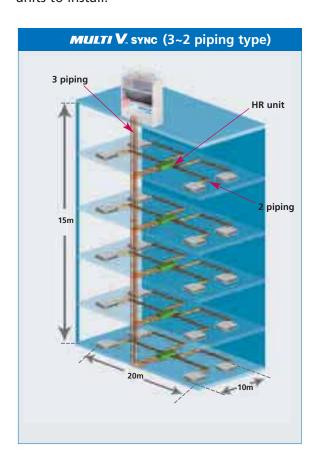


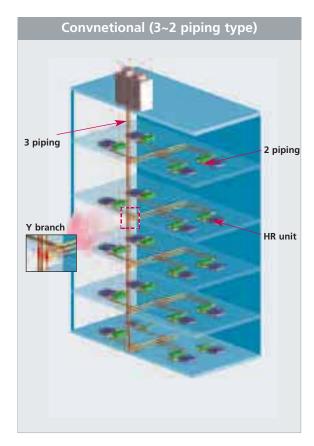




Reduced number of HR boxes required for same number of indoor units

The heat recovery box makes economical and convenient installation possible - less piping, and less units to install.





LG needs less installation cost than the conventional

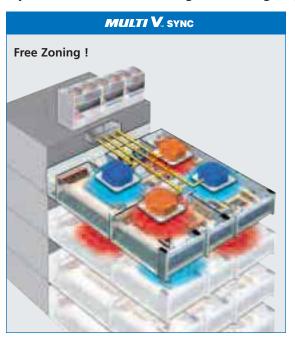
	LG	Conventional
Y branch	12 unit	57 unit
HR unit	5 unit	20 unit
Total piping lenght	690 m	840 m

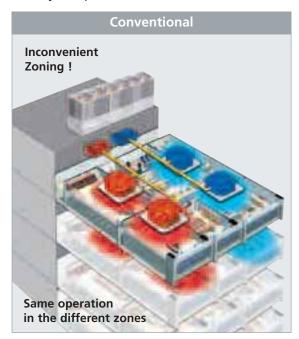
^{*} Assumed with 5 stories building

Outdoor unit

Zoning after building alterations

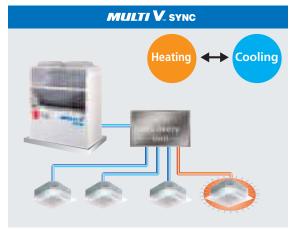
Because each indoor unit has the ability to change mode whenever it chooses to do so, if the building layout changes (more partitions are installed), the indoor units will control individually as before. With conventional systems (designed only to the previous building layout), simultaneous heating and cooling may not always be possible.



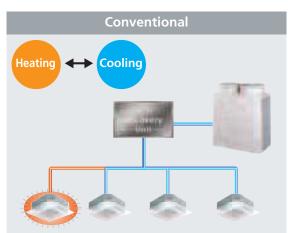


Fast mode change response

When the operating mode of an indoor unit is changed (i.e. from cooling to heating or visa versa), the response time of the mode change is fast compared to conventional systems. Not only is it fast for the room concerned, but also there is little or no capacity loss for all other units on the system. Therefore mode changes can happen comfortably and quickly for the entire system, regardless of seasonal conditions.

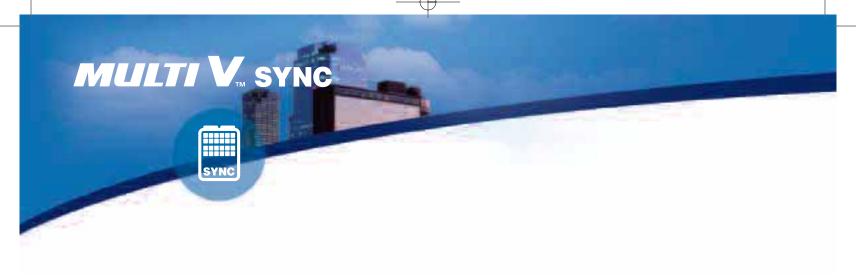


- Max. 3 minutes!



- About 20 minutes!

Air conditioning system _ 35



Applications

Some environments such as a computer room, mechanical room, hospital, restaurant, fitness centre, and sauna require cooling and heating at the same time.

Computer / mechanical room - because of excessive heat from the equipment, the computer and mechanical rooms need cooling even during the winter time.

Fitness centre - the exercise area may need different cooling or heating from the dressing room or rest area.

Restaurant - because of heat from the cooking equipment, the kitchen may need cooling even during the winter time.



Outdoor unit



Air conditioning system _ 37

According to customer's need, heating & cooling may be required simultaneously. (hotel, office, etc.)





* Outdoor Unit

НР			8	10	12	14	16	
Model		Combination Unit Independent Unit	ARUB808T1 ARUB808T1	ARUB1008T1 ARUB1008T1	ARUB1208T1 ARUB1208T1	ARUB1408T1 ARUB1408T1	ARUB1608T1 ARUB808T1 ARUS808T1	
							ANOSOGOTT	
Capacity	Cooling	kW	22.4	28.0	33.6	39.2	44.8	
		kcal/h	19,300	24,100	28,900	33,700	38,500	
		Btu/h	76,400	95,900	114,700	133,800	152,900	
	Heating	kW	25.2	31.5	37.8	44.1	50.4	
		kcal/h	21,700	27,100	32,500	37,900	43,300	
		Btu/h	86,000	107,500	129,000	150,500	172,000	
Power Input	Cooling	kW	6.8	8.5	10.6	12.8	13.6	
	Heating	kW	6.4	8.1	9.7	11.5	12.8	
СОР	Cooling		3.29	3.29	3.17	3.06	3.29	
	Heating		3.94	3.89	3.90	3.83	3.94	
Power Supply	/	Ø/V/Hz	3/380~415/50					
Dimensions (W*H*D)	mm	1280*1607*730	1280*1607*730	1280*1607*730	1280*1607*730	2560*1607*730	
Weight		kg	300	300	300	300	300*2	
Color				<u> </u>	Warm Gray			
Sound pressu	re levels	dB(A)±3	58	58	58	58	60	
Fan	Туре		Propeller Fan					
	Air flow rate	[CMM]	190	190	190	190	380	
Compressor	Туре				Scroll			
	Number of com	pressors	2	2	2	2	4	
Heat Exchang	ger			'	Gold Fin			
Refrigerant	Туре				R410A			
	Charge	kg	8	8	8	8	16	
	Control			Ele	ectronic Expansion Va	lve		
Refrigerant oil	Туре				FVC68D(PVE)			
	Charge	l	5.6	5.6	5.6	5.6	5.6+5.6	
Piping	Liquid (Flare)	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)	12.7(1/2)	
connections	Gas (Brazing)	mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)	
	Discharge Gas (Brazii	ng) mm(inch)	15.88(5/8)	19.05(3/4)	19.05(3/4)	22.2(7/8)	22.2(7/8)	
Number of outdoor units		1	1	1	1	2		
Number of m	aximum connect	able indoor units	13	16	20	20	20	
Ratio of the	connectable indo	or units			50~130%			
Longest pipir	ng length / Elevat	ion			150m / 50m			

Notes :

1. capacities are based on the following conditions
Cooling-Indoor temp. 27 (180,6 F1)18 / 197 (166,2 F1)WB
Outdoor temp. 37 (180,6 F1)18 / 197 (166,2 F1)WB
Interconnecting Piping Length 7.5m
Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. LE.V. -Linear Expansion Valve

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

Conversion Formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3







* Outdoor	Unit								
HP			18	20	22	24	26		
Model		Combination Unit Independent Unit	ARUB1808T1 ARUB1008T1 ARUS808T1	ARUB2008T1 ARUB1008T1 ARUS1008T1	ARUB2208T1 ARUB1208T1 ARUS1008T1	ARUB2408T1 ARUB1208T1 ARUS1208T1	ARUB2608T1 ARUB1008T1 ARUS808T1		
• • •	- L	1307					ARUS808T1		
Capacity	Cooling	kW	50.4	56.0	61.6	67.2	72.8		
		kcal/h	43,300	48,200	53,000	57,800	62,600		
		Btu/h	172,000	191,100	210,200	229,300	248,400		
	Heating	kW	56.7	63.0	69.3	75.6	81.9		
		Kcal/h	48,800	54,200	59.600	65,000	70,400		
		Btu/h	193,500	225,000	236.500	258,000	279,500		
Power Input	Cooling	kW	15.3	17.0	19.1	21.2	22.1		
	Heating	kW	14.5	16.2	17.8	19.4	20.9		
COP	Cooling		3.29	3.29	3.23	3.17	3.29		
	Heating		3.91	3.89	3.89	3.90	3.92		
Power Supply	/	Ø/V/Hz	3/380~415/50						
Dimensions (W*H*D)	mm	2560*1607*730	2560*1607*730	2560*1607*730	2560*1607*730	3840*1607*730		
Weight		kg	300*2	300*2	300*2	300*2	300*3		
Color				1	Warm Gray		1		
Sound pressu	re levels	dB(A) ± 3	60	61	61	61	62		
Fan	Туре				Propeller Fan				
	Air flow rate	[CMM]	380	380	380	380	570		
Compressor	Туре		Scroll						
·	Number of comp	oressors	4	4	4	4	6		
Heat Exchang				<u> </u>	Gold Fin				
Refrigerant	Type				R410A				
J	Charge	Kg	16	16	16	16	24		
	Control			J	ectronic Expansion Va	. L	L		
Refrigerant oil	Туре				FVC68D(PVE)				
	Charge	<i>l</i>	5.6+5.6	5.6+5.6	5.6+5.6	5.6+5.6	5.6+5.6+5.6		
Piping			15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	19.05(3/4)		
connections	Gas (Brazing)	mm(inch) mm(inch)	28.58(1 1/8)	28.58(1 1/8)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)		
	Discharge Gas (Brazin		22.2(7/8)	22.2(7/8)		28.58(1 1/8)	28.58(1 1/8)		
Number of o	-	9,()	22.2(7/8)	22.2(7/8)	28.58(1 1/8)	28.58(1 1/8)	3		
	aximum connecta	able indoor units	20	20		24	32		
	connectable indoc		20	20	22 50~130%	24	32		
					150m / 50m				
Longest pipir	ng length / Elevati	OH			1301117 30111				

Notes:

1. Capacities are based on the following conditions
Cooling-Indoor temp. 27°C[80.6F]DB / 19°C[66.2F]WB
Outdoor temp. 35°C[95F]DB / 19°C[66.2F]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. L.E.V. -Linear Expansion Valve

Conversion Formula

kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3





* Outdoor Unit

НР			28	30	32	34	36	
Model		Combination Unit	ARUB2808T1	ARUB3008T1	ARUB3208T1	ARUB3408T1	ARUB3608T1	
		Independent Unit	ARUB1008T1	ARUB1008T1	ARUB1208T1	ARUB1208T1	ARUB1208T1	
			ARUS1008T1	ARUS1008T1	ARUS1008T1	ARUS1208T1	ARUS1208T1	
			ARUS808T1	ARUS1008T1	ARUS1008T1	ARUS1008T1	ARUS1208T1	
Capacity	Cooling	kW	78.4	84.0	89.6	95.2	100.8	
		kcal/h	67,400	72,200	77,100	81,900	86,700	
		Btu/h	267,500	286,600	305,700	324,800	343,900	
	Heating	kW	88.2	94.5	100.8	107.1	113.4	
		kcal/h	75,900	81,300	86.700	92,100	97,500	
		Btu/h	301,000	322,500	343,900	365,400	386,900	
Power Input	Cooling	kW	23.8	25.5	27.6	29.7	31.8	
	Heating	kW	22.6	24.3	25.9	27.5	29.1	
COP	Cooling		3.29	3.29	3.25	3.21	3.17	
	Heating		3.90	3.89	3.89	3.89	3.90	
Power Supply	/	Ø/V/Hz	3/380~415/50					
Dimensions (W*H*D)	mm	3840*1607*730	3840*1607*730	3840*1607*730	3840*1607*730	3840*1607*730	
Weight		kg	300*3	300*3	300*3	300*3	300*3	
Color					Warm Gray			
Sound pressu	re levels	dB(A) ± 3	62	63	63	63	63	
Fan	Туре		Propeller Fan					
	Air flow rate	[CMM]	570	570	570	570	570	
Compressor	Туре				Scroll			
	Number of co	mpressors	6	6	6	6	6	
Heat Exchang	ger				Gold Fin			
Refrigerant	Туре				R410A			
	Charge	kg	24	24	24	24	24	
	Control			Ele	ectronic Expansion Va	lve		
Refrigerant oil	Туре				FVC68D(PVE)			
	Charge	l	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6	
Piping	Liquid (Flare)	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)	
connections	Gas (Brazing)	mm(inch)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)	41.3(1 5/8)	
	Discharge Gas (Bra	zing) mm(inch)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)	
Number of o	utdoor units		3	3	3	3	3	
Number of m	aximum conne	ctable indoor units	32	32	32	34	36	
Ratio of the	connectable ind	loor units			50~130%			
Longest pipir	ng length / Eleva	ation			150m / 50m			

Notes:

1. Capacities are based on the following conditions
Cooling-Indoor temp. 27°C[80.6°F]D8 / 19°C[66.2°F]WB
Outdoor temp. 35°C[95°F]D8 / 24°C[75.2°F]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. L.E.V. -Linear Expansion Valve

Conversion Formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3









* Outdoor Unit

НР			38	40	
Model		Combination Unit	ARUB3808T1	ARUB4008T1	
		Independent Unit	ARUB1408T1	ARUB1408T1	
			ARUS1208T1	ARUS1408T1	
			ARUS1208T1	ARUS1208T1	
Capacity	Cooling	kW	106.4	112.0	
		kcal/h	91,500	96,300	
		Btu/h	363,100	382,200	
	Heating	kW	119.7	126.0	
		kcal/h	102,900	108,400	
		Btu/h	408,400	429,900	
Power Input	Cooling	kW	34	36.2	
	Heating	kW	30.9	32.7	
СОР	Cooling		3.13	3.09	
	Heating		3.87	3.85	
Power Supply	1	Ø / V / Hz	3/380~415/50		
Dimensions (\	W*H*D)	mm	3840*1607*730	3840*1607*730	
Weight		kg	300*3	300*3	
Color			Warm Gray		
Sound pressu	re levels	dB(A) ± 3	63	63	
Fan	Туре		Propeller Fan		
	Air flow rate	[CMM]	570	570	
Compressor	Туре		Scroll		
	Number of co	ompressors	6	6	
Heat Exchang	jer		Gol	d Fin	
Refrigerant	Туре		R410A		
	Charge	kg	24 24		
	Control		Electronic Expansion Valve		
Refrigerant oil	Туре		FVC68	D(PVE)	
	Charge	l	5.6+5.6+5.6	5.6+5.6+5.6	
Piping	Liquid (Flare)	mm(inch)	19.05(3/4)	19.05(3/4)	
connections	Gas (Brazing)	mm(inch)	41.3(1 5/8)	41.3(1 5/8)	
	Discharge Gas (Br	azing) mm(inch)	34.9(1 3/8)	34.9(1 3/8)	
Number of o	utdoor units		3	3	
Number of m	aximum conne	ectable indoor units	38	40	
Ratio of the o	onnectable in	door units	50~1	130%	
Longest pipir	ig length / Elev	ration	150m	/ 50m	

Notes:

1. Capacities are based on the following conditions

1. Capacities are based on the following conditions

Cooling-Indoor temp. 27 C[80.5F]D8 / 19 C[66.2F]WB
Outdoor temp. 35 C[95F]D8 / 22 C[75.2F]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero

2. Capacities are net capacities

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

4. L.E.V. -Linear Expansion Valve

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

Conversion Formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3











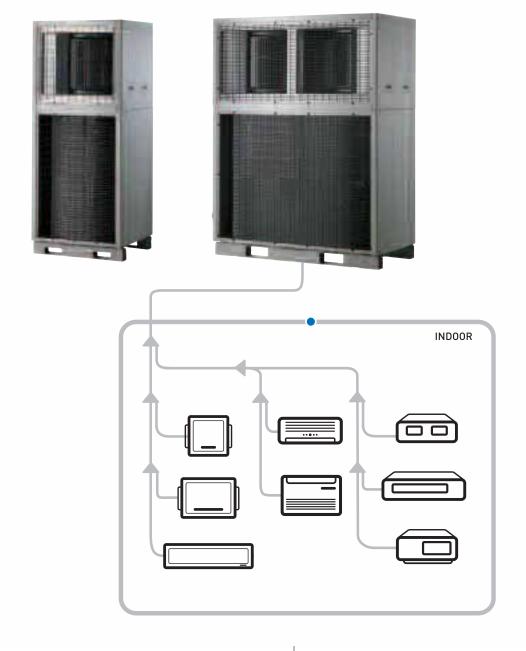
Applications

- Flat
- Premium village
- High rise apartment Office



What is **MULTI V**_m **SPACE**

MULTI V. SPACE is a two pipe heat pump system, specifically designed with internal installation in mind. The air induction and air discharge are located on the same side, which is ideal for installing against a louvered wall. **MULTI V. SPACE** is available in 5Hp and 10Hp models, and up to 16 indoor units can be connected to one system. Combined with the many control options on offer, the **MULTI V. SPACE** system can offer a total building solution.





MULTI V. SPACE has the following differentiating features

- Air induction and dischange is combined on the same side, allowing easy installation to a louvered wall without the need to install expensive and time consuming duct work.
- Powerful sirocco fans discharge the air to the left and right, preventing air short cycling between units installed next to each other and between floors.
- Fully inverter driven for higher efficiency and reduced operation noise.
- Piping can exit the unit from the left or right front panels, depending on installation requirements.
- Because of the design of **MULTI V. SPACE**, less area is actually required for the installation of the unit, compared to convential systems installed in the same way.
- The External Static Pressure on the fans can be increased up to 140 pascals if ducting is required to be fitted to the outdoor unit. This is done by carrying out a setting on the main PCB.

Cutting edge technology and design set a new standard for outdoor units

Unlike existing units which are awkward when matched with internal installation applications (due to ducting configuration and the problems faced with three sided air induction), the **MULTI V. SPACE** design greatly reducess installation area requirement, meaning floor space can be retained for living/working area, rather than wasted as a plant room.



Interior

Outdoor unit

Various types of indoor unit help create a pleasant interior environment

The ceiling mounted indoor units save space and $\triangle RT$ COOLTM indoor units can be chosen to blend in nicely with existing décorwhether the application is residential or commercial.





Retain useable floor space by reducing plant room size

Reduction of the required installation space by up to 50% over conventional systems, means more floor space can be retained as living/working space (depending on application). Or if the plant room size cannot be decreased, the remaining space inside it can be used to install more systems, or other equipment/services. Either way, this system gives floor space back to the end user.





* based on heat pump 5HP

Economy Cutting edge inverter system technology offers high efficiency and economical operation.

Outdoor unit

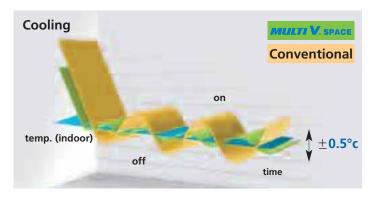
MULTI V. SPACE is a high efficiency inverter system

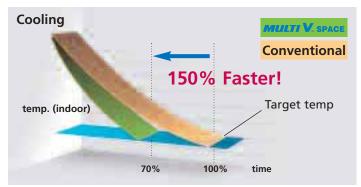
MULTI V. space uses frequency controlled inverter compressor(s) and fan motor(s), to enable capacity control according to the indoor load. **MULTI V.** space has a COP of 3.9 in cooling, and 4.1 in heating.



Precise inverter control ensures quick cooling and heating, with minimum temperature deviation

When the outside temperature is relatively stable, the compressor frequency is reduced, (it is not stopped) to ensure comfortable room temperatures. The desired temperature it obtained quickly by increasing the compressor frequency as the indoor unit load requires it to do so.

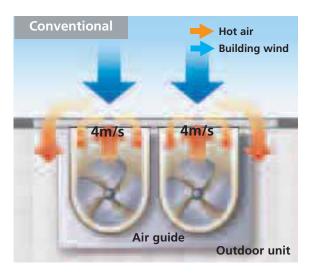


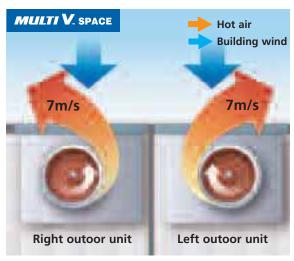




Sirocco fans designed to withstand high building wind speeds

Building wind and reverse wind effect are stronger at higher floor levels, which can cause discharge air to short cycle back to the induction side affecting system control. It can also cause damage to the fans, which in turn will considerably reduce system performance. However, **MULTI V. SPACE** is designed to generate very strong airflow (7m/s or more) to overcome this problem. This makes **MULTI V. SPACE** ideal for use in such high rise applications.



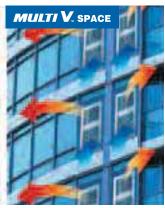


No interference from the discharge air between units or between floors

Because of the symmetrical design characteristics of conventional VRF systems, high rise installation is not always recommended (due to heat columns affecting system control on higher floors). **MULTI V. SPACE** solves such installation problems using powerful left and right air discharge fans which throw the air outwards rather than upwards, allowing high rise installation with no control problems on the upper floors.







Sirocco fan

Outdoor unit

If ducting is installed, fan external static pressure can be increased

- Enhanced installation flexibility (doesn't just have to be installed against a louvered wall).
- No need to change the fan motor (jumper settings made on the main PCB).
- No capacity reduction, or increase in noise levels.

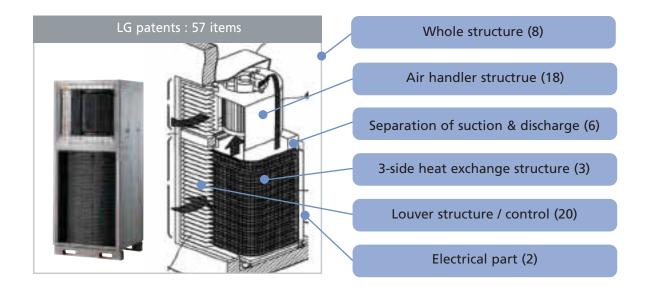
	How to	set up E	.S.P (unit:mmAq)
	10HP	5HP	
1)	0~3	0~2	000000
2)	3~6	2~3	connector
3)	6~8	3~4	connector
4)	8~10	4~5	connector
5)	10~12	5~6	connector connector
6)	12~14	6~7	connector





■ LG patent for **MULTI V** SPACE

All technologies in the **MULTI V SPACE** which make it a distinctive, unique unit has been applied for patents domestically and internationally. And, some of them have already been registered.





The directional discharge air outlet eliminates hot air drafts

The sealed structure of the **MULTI V. SPACE**, coupled with the frontal air induction and discharge, reduces the need for extra space required for air induction, and eliminates the generation of hot air drafts, ensuring a comfortable environment i.e. for a balcony or decking/patio area.





Reduced noise and vibration

The other advantage of the sealed structure of the **MULTI V. SPACE** is drastic noise and vibration reduction. The noise is reduced due to the frontal air discharge design, and the fact that the sealed design reduces 'noise leakage' through the body of the unit. This means that the noise level indoors is very quiet indeed compared with conventional system used in this type of application.





The indoor noise level is maintained at 30~40dBA, as quiet as being in the library.

MULTI V_m SPACE Outdoor unit specifications





Heat pump

* Outdoor Unit

* Outdoor Unit							
НР			5	10			
Model		Independent Unit	ARUN508RV0 (Right Discharge)	ARUN1008F20			
			ARUN508LV0 (Left Discharge)				
Capacity	Cooling	kW	14.0	28.0			
		kcal/h	12,000	24,100			
		Btu/h	47,800	95,900			
	Heating	kW	16.0	31.5			
		kcal/h	13,760	27,100			
		Btu/h	54,592	107,500			
Power Input	Cooling	kW	4.20	7.18			
	Heating	kW	4.40	7.69			
СОР	Cooling		3.33	3.90			
	Heating		3.64	4.10			
Power Supply	/	Ø/V/Hz	3/380~415	/50			
Dimensions (Dimensions (W*H*D) mm		750*1790*650	1400*1790*650			
Weight		kg	190	350			
Color			Warm Gr	ay			
Sound pressu	re levels	dB(A)	49	55			
E.S.P range		mmAq	0~7	0~14			
Fan	Туре		Siroco Fan				
	Air flow rate	[CMM]	100 170				
Compressor	Туре		DC Inverter F	Rotary			
	Number of com	pressors	1	2			
Heat Exchang	ger		Gold Fir	١			
Refrigerant	Туре		R410A				
	Charge	kg	4.7	9.5			
	Control		Electronic Expans	sion Valve			
Refrigerant oil	Туре		FV50S				
	Charge	l	2.3	4.1			
Piping	Liquid (Flare)	mm(inch)	9.52(3/8)	9.52(3/8)			
connections	Gas (Brazing)	mm(inch)	15.88(5/8)	22.2(7/8)			
Number of o	utdoor units		1	1			
Number of m	aximum connect	able indoor units	8 16				
Ratio of the	onnectable indo	or units	50~130%	6			
Longest pipir	ng length / Elevat	ion	150m / 50m				

Notes:

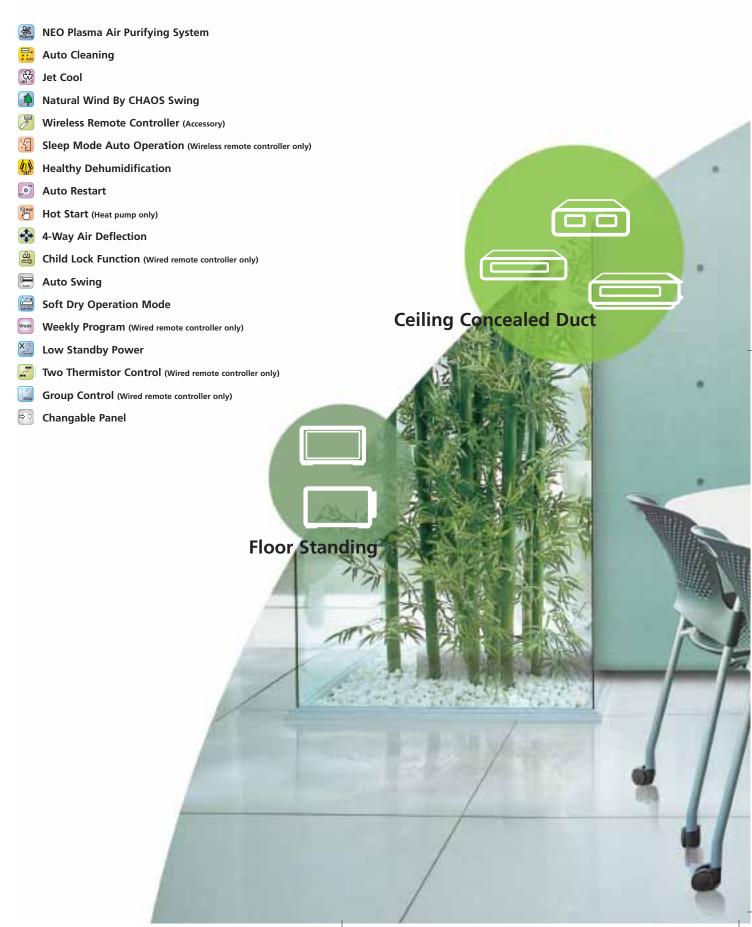
1. Capacities are based on the following conditions
Cooling-Indoor temp. 27°C[80.6F]DB / 19°C[68.2F]WB
Outdoor temp. 35°C[95°F]DB / 12°C[75.2F]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. L.E.V. -Linear Expansion Valve

Conversion Formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3



If you need a highly efficient air conditioning system in your building, LG **MULTI V** is the right choice for you.









ART COOL Series

LG's new stylish air conditioning unit is a work of art. Combine looks with efficiency and you have the ART COOL air conditioner. Looking nothing like a conventional wall mounted split system, LG has been able to create a design conscious air conditioning unit that compliments any interior decor.

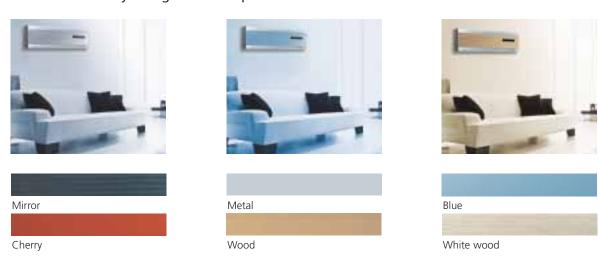


Sophisticated design

An air conditioner once installed will always be with you. You need a modern and simply designed air conditioner for your style and interior. LG ART COOL is a sophisticated design for your style.

Ez - replaceable color panel

Available in a wide choice of six colors (mirror, metal, blue, cherry, wood and white wood), the mirror display and classy interior curl-fit finish bring a cool and modern look. You can also easily change the color panel.



Neo Plasma Air Purifying System

LG's unique NEO Plasma Air Purifying System is equipped with 7 specialized filters in 5 separate stages to enhance its cleaning power. It reduces fine dust and mold, unpleasant odors and cigarette smoke as air passes through each filter.











4 - Way auto swing

The LG air conditioning units can now automatically distribute the air 4 ways. This effectively eliminates hot and cold patches, keeping the room at a more stable temperature.



Digital air flow control

The air flow is controlled to provide comfort and convenience.



Normal fast & even widely



Jet cool speedy & powerful



Sleep mode indirectly & softly

3 - Dimensional air flow

Improving conventional air conditioners that expel air in one direction only, this powerful system pours out cool air from three sides.

Ultra thin

Technology mixed with a touch of art results in a super slim design.





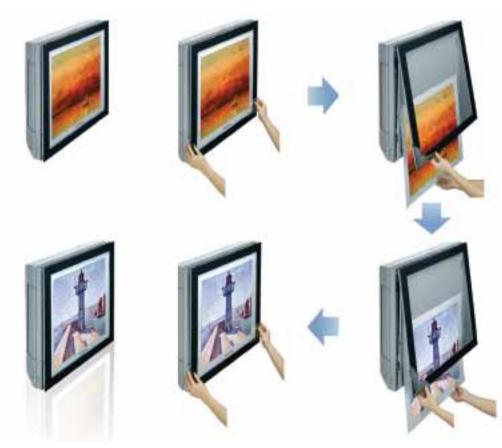


ARNU07GSF11 / ARNU09GSF11 / ARNU12GSF11

How to replace the picture

LG is proud to introduce the ART COOLSF Series.

It boasts an unprecedented feature which allows you to use the front panel as a picture frame. Along with its simple and sleek design, ART COOL uses state-of-the-art technology for assuring customer satisfaction













Plasma	* * * Auto	S Jet		(F)	4
OH OH	Hot	F	(Maro	Week	X J
F	02	5			

			ARNU07GSF11	ARNU09GSF11	ARNU12GSF11				
Capacity	Cooling	kW	2.2	2.8	3.6				
	kcal/h		1,900	2,400	3,100				
		Btu/h	7,500	9,600	12,300				
	Heating	kW	2.5	3.2	4.0				
		kcal/h	2,200	2,800	3,400				
		Btu/h	8,500	10,900	13,600				
Power	Cooling	w	30	30	30				
Input	Heating	w	30	30	30				
Power Supp	oly	Ø/V/Hz		1/220~240/50					
Dimensions	(W*D*H)	mm	600*146*600						
Weight		kg	15	15	15				
Sound pressure	e levels(H/M/L)	dBA±3	38/32/27	38/32/27	44/38/32				
Air flow rate	H/M/L	СММ	8.1/6.3/4.2	8.1/6.3/4.2	9.3/7.7/6.0				
Neo Plasma	air purifying	filter	Basic	Basic	Basic				
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)				
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)				
	Drain(OD/ID)	mm	16.2/12.2	16.2/12.2	16.2/12.2				

Notes:

1. Capacities are based on the following conditions

Cooling-Indoor temp. 27°C[28.6-Fi]D8 / 19°C[66.2*Fi]WB
Outdoor temp. 35°C[95*Fi]D8 / 24°C[75.2*Fi]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V. -Linear Expansion Valve

Conversion formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

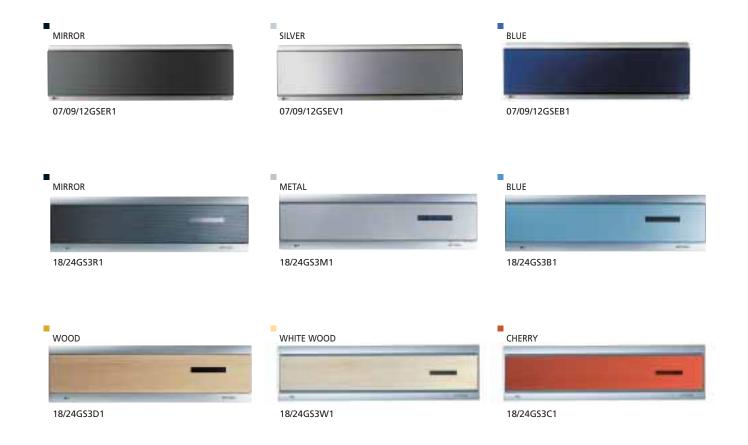
Model		ARNU07GSF11	ARNU09GSF11	ARNU12GSF11			
Wired	Deluxe		PQRCUDS0* (-: White, B:Blue, S:Silver)				
remote control	Standard		PCRCUSZ0				
	Simple		PQRCUCA0				
	Simple (for hotel)		PQRCFCS0				
Wireless remote	control		PQWRHSF0				
Dry contact	Without case		PQDSA				
	With case		PQDSB				



ART COOL Mirror

ARNU07GSE*1 / ARNU09GSE*1 / ARNU12GSE*1 / ARNU18GS3*1 / ARNU24GS3*1

🕸 R: Mirror, M: Metal , B: Blue, D: wood, W: White wood, C: Cherry, V: Silver













			ARNU07GSE*1	ARNU09GSE*1	ARNU12GSE*1	ARNU18GS3*1	ARNU24GS3*1	
Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1	
		kcal/h	1,900	2,400	3,100	4,800	6,100	
		Btu/h	7,500	9,600	12,300	19,100	24,200	
	Heating	kW	2.5	3.2	4.0	6.3	8.0	
		kcal/h	2,200	2,800	3,400	5,400	6,900	
		Btu/h	8,500	10,900	13,600	21,500	27,300	
Power	Cooling	W	40	40	40	40	40	
Input	Heating	W	40	40	40	40	40	
Power Supp	oly	Ø/V/Hz	1/220~240/50					
Dimensions	(W*D*H)	mm		915*169*282		1170*173*315		
Weight		kg	9	9	9	13	13	
Sound pressure	levels(H/M/L)	dBA±3	37/33/23	39/35/25	41/36/27	42/40/37	44/41/38	
Air flow rate	H/M/L	СММ	7/6/4	8/7/5	10/8/6	12.6/11.5/10	15/14/13	
Neo Plasma air purifying filter		Basic	Basic	Basic	Basic	Basic		
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)	
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)	
	Drain(OD/ID)	mm	20/16	20/16	20/16	20/16	20/16	

Notes:

1. Capacities are based on the following conditions

1. Capacities are based on the following conditions

Cooling-Indoor temp. 27°C[80.6F]DB / 19°C[66.2F]WB
Outdoor temp. 35°C[95F]DB / 12°C[75.2F]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V. -Linear Expansion Valve

Conversion formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Model		ARNU07GSE*1	ARNU09GSE*1	ARNU12GSE*1	ARNU18GS3*1	ARNU24GS3*1			
Wired	Deluxe		PQRCUDS0* (-: White, B:Blue, S:Silver)						
remote control	Standard			PCRCUSZ0					
	Simple			PQRCUCA0					
	Simple (for hotel)			PQRCFCS0					
Wireless remote	control	PQWRHSF0							
Dry contact	Without case	PQDSA							
	With case			PQDSB					



ART COOL Panel

ARNU07GSP*1 / ARNU09GSP*1 / ARNU12GSP*1

₩ M: Metal, B: Blue, D: Wood, W: White wood









07/09/12GSPB1

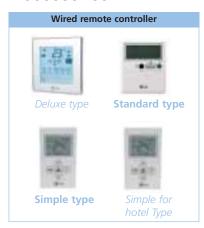






07/09/12GSPW1 07/09/12GSPD1

Accessories





Specifications

			ARNU07GSP*1	ARNU09GSP*1	ARNU12GSP*1		
Capacity	Cooling	kW	2.2	2.8	3.6		
		kcal/h	1,900	2,400	3,100		
		Btu/h	7,500	9,600	12,300		
	Heating	kW	2.5	3.2	4.0		
		kcal/h	2,200	2,800	3,400		
		Btu/h	8,500	10,900	13,600		
Power	Cooling	w	30	30	30		
Input	Heating	w	30	30	30		
Power Supp	oly	Ø/V/Hz	1/220~240/50				
Dimensions	s(W*D*H)	mm	570*137*568				
Weight		kg	12	12	12		
Sound pressure	e levels(H/M/L)	dBA±3	38/34/32	40/36/33	42/38/36		
Air f l ow rate	H/M/L	СММ	6/5.5/5	7/6.5/6	8.7/8.1/7.5		
Neo Plasma	air purifying	filter	0	0	0		
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)		
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)		
	Drain(OD/ID)	mm	16.2/12.2	16.2/12.2	16.2/12.2		

Notes:

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

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. LE.V. -Linear Expansion Valve

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

Conversion Formula

		ARNU07GSP*1 ARNU09GSP*1 ARNU12GSI				
Wired	Deluxe	PQRCUDS0* (– : White, B : Blue, S : Silver)		S:Silver)		
remote control	Standard		PCRCUSZ0			
	Simple	PQRCUCA0				
	Simple (for hotel)	PQRCFCS0				
Wireless remote	control	PQWRHSF0				
Dry Contact	Without case	PQDSA				
	With case	PQDSB				

ART COOL Wide

ARNU18GSV*1

☆ M: Metal , B: Blue, D: Wood, W: White Wood













ARNU18GSVM1

ARNU18GSVB1





ARNU18GSVD1

ARNU18GSVW1

Accessories







Model		Unit	ARNU18GSV*1	
			ANNO 1003V " I	
Capacity	Cooling	kW	5.6	
		kcal/h	4,800	
		Btu/h	19,100	
	Heating	kW	6.3	
		kcal/h	5,400	
		Btu/h	21,500	
Power	Cooling	w	30	
Input	Heating	W	30	
Power Supp	oly	Ø/V/Hz	1/220~240/50	
Dimensions	(W*D*H)	mm	928*147*522	
Weight		kg	15	
Sound pressure	e levels(H/M/L)	dBA±3	44/39/34	
Air flow rate	H/M/L	CMM	13.5/11.4/10.4	
Neo Plasma air purifying		filter	Basic	
Piping	Liquid	mm(inch)	6.35(1/4)	
Connection	Gas	mm(inch)	12.7(1/2)	
	Drain(OD/ID)	mm	16.2/12.2	

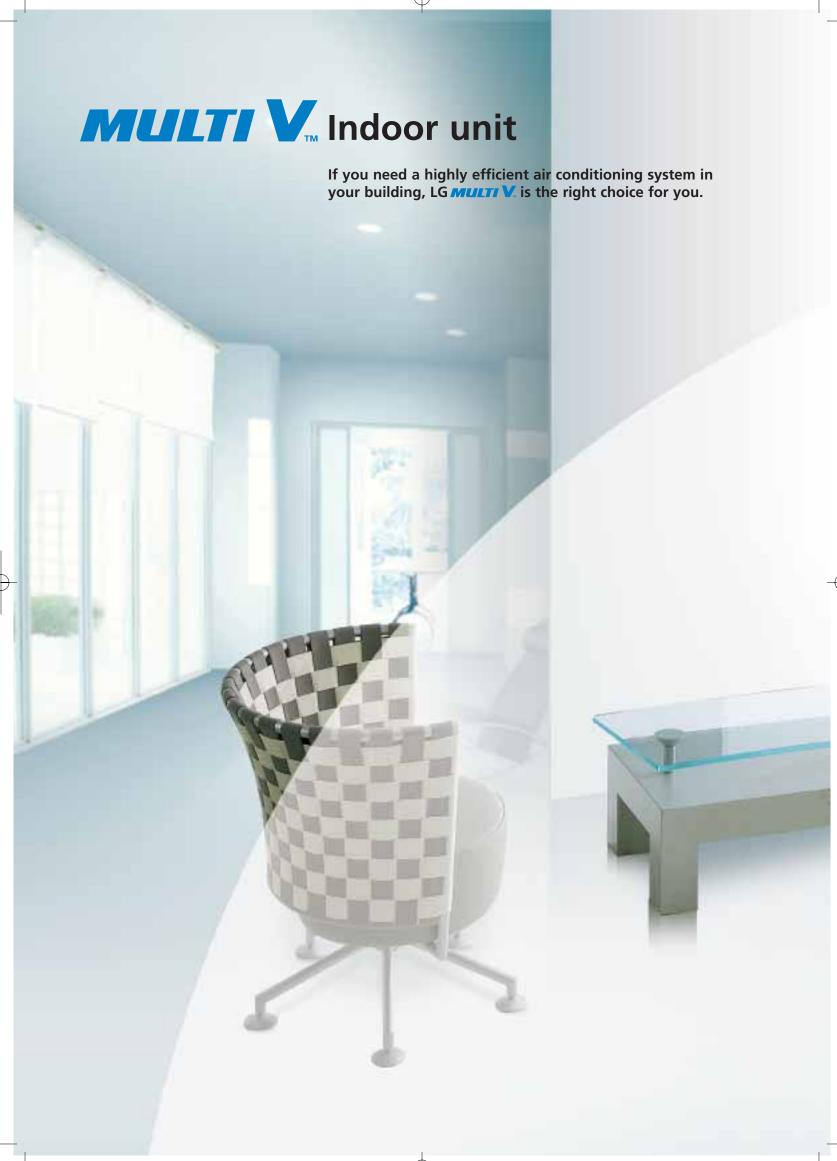
Notes:

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
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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

Conversion formula

Model		ARNU18GSV*1
Wired	Deluxe	PQRCUDS0 * (– : White, B : Blue, S : Silver)
remote control	Standard	PCRCUSZ0
	Simple	PQRCUCA0
	Simple (for hotel)	PQRCFCS0
Wireless remote	control	PQWRHSF0
Dry contact	Without case	PQDSA
	With case	PQDSB



Indoor unit

Wall Mounted

Ceiling Cassette - 1way

Ceiling Cassette - 2way

Ceiling Cassette - 4way



Ceiling & Floor

Ceiling Suspended



Ceiling Concealed Duct
- High Static

Ceiling Concealed Duct
- Low Static

Ceiling Concealed Duct - Built-in



Floor Standing - With Case

Floor Standing
- Without Case







■ Jet Cool™

Jet cool allows quick cooling. In this mode, strong, cool air is blown at high speed for 30 minutes, until the room temperature reaches 18°C.



Jet cool™ quick, strong and cool air is blown at high speed

■ Natural breeze by CHAOS swing™

The Chaos technology recreates the flow of natural air by controlling the angle speed and movement of the air vane. It also minimizes the temperature difference between high and low areas in the room, creating a more comfortably conditioned environment.

Auto restart function

In the event of sudden power failure, the auto start mechanism saves the current setting. It will restore the air conditioner to its previous setting when the power returns.

■ Neo Plasma Air Purifying System

LG's unique NEO Plasma Air Purifying System is equipped with 7 specialized filters in 5 separate stages to enhance its cleaning power. It reduces fine dust and mold, unpleasant odors and cigarette smoke as air passes through each filter.







Wall Mounted

ARNU07GSEL1 / ARNU09GSEL1 ARNU12GSEL1 / ARNU18GS5L1 ARNU24GS5L1









Model		Unit	ARNU07GSEL1	ARNU09GSEL1	ARNU12GSEL1	ARNU18GS5L1	ARNU24GS5L1	
Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1	
		kcal/h	1,900	2,400	3,100	4,800	6,100	
		Btu/h	7,500	9,600	12,300	19,100	24,200	
	Heating	kW	2.5	3.2	4.0	6.3	8.0	
		kcal/h	2,200	2,800	3,400	5,400	6,900	
		Btu/h	8,500	10,900	13,600	21,500	27,300	
Power	Cooling	w	40	40	40	40	40	
Input	Heating	w	40	40	40	40	40	
Power Supp	Power Supply Ø/V/Hz		1/220~240/50					
Dimensions	(W*D*H)	mm		895*165*282		1090*178*300		
Weight		kg	9	9	9	12	12	
Sound pressure	e levels(H/M/L)	dBA±3	37/33/23	39/35/25	41/36/27	44/40/36	46/41/38	
Air flow rate	H/M/L	СММ	5.6/5/4.6	7/6.5/6	9.5/9/8.5	12/10.5/9	16/13/11	
Neo Plasma air purifying filter		filter	Basic	Basic	Basic	Basic	Basic	
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)	
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)	
	Drain(OD/ID)	mm	20/16	20/16	20/16	20/16	20/16	

Notes:

1. Capacities are based on the following conditions
Cooling-Indoor temp, 27°C[80,6F]D8 / 19°C[66,2F]WB
Outdoor temp, 35°C[95F]D8 / 24°C[75,2F]WB
Interconnecting Piping Length 7.5m
Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. L.E.V. -Linear Expansion Valve

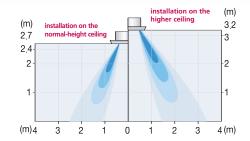
Conversion formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Model		ARNU07GSEL1	ARNU09GSEL1	ARNU12GSEL1	ARNU18GS5L1	ARNU24GS5L1
Wired	Deluxe	PQRCUDS0* (– : White, B : Blue, S : Silver)				
remote control	Standard	PCRCUSZ0				
Simple		PQRCUCA0				
	Simple (for hotel)			PQRCFCS0		
Wireless remote	control	PQWRHSF0				
Dry Contact	Without case	PQDSA				
With case				PQDSB		



Function to control the air volume by ceiling height

Control of the air intensity has been made possible by employing a height-control algorithm for the interior fan.



Airflow direction control

■ Group control (wired remote control)

When several products are linked, one specific control device can control a specific number of products.

■ Jet cool™

Jet cool allows quick cooling. In this mode, strong, cool air is blown at high speed for 30 minutes, until the room temperature reaches 18°C.

Drain pump

Built-in drain pump automatically drains water.

Auto restart function

In the event of sudden power failure, the auto start mechanism saves the current setting. It will restore the air conditioner to its previous setting when power returns.

Plasma filter

The PLASMA Air Purifying System developed uniquely by LG not only removes microscopic contaminants and dust, but also removes house mites, pollen, and pet fur to prevent allergic diseases like asthma.





Indoor unit

Ceiling Cassette - 1way

ARNU07GTJC1 / ARNU09GTJC1 / ARNU12GTJC1









Model		Unit	ARNU07GTJC1	ARNU09GTJC1	ARNU12GTJC1		
Capacity	Cooling	kW	2.2	2.8	3.6		
		kca l /h	1,900	2,400	3,100		
		Btu/h	7,500	9,600	12,300		
	Heating	kW	2.5	3.2	4.0		
		kca l /h	2,200	2,800	3,400		
		Btu/h	8,500	10,900	13,600		
Power Input	Cooling	W	45	45	45		
	Heating	W	40	40	40		
Power Sup	ply	Ø/V/Hz	1/220~240/50				
Dimensions	Body	mm		860*410*138			
(W*D*H)	Front Panel	mm		1070*480*20			
Weight	Body	kg	11.5	11.5	11.5		
	Front Panel	kg	1.5	1.5	1.5		
Panel Color				White			
Sound pressur	re levels(H/M/L)	dBA±3	40/38/37	40/38/37	41/39/37		
Air flow rate	H/M/L	CMM	7.5/6.5/6	7.5/6.5/6	8/7/6		
Neo Plasma	air purifying f	ilter	Basic	Basic	Basic		
Drain Pump			0	0	0		
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)		
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)		
	Drain(OD/ID)	mm	32/25	32/25	32/25		

Notes:
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
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may
4. L.E.V. -Linear Expansion Valve

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

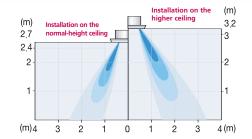
Conversion formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Model		ARNU07GTJC1	ARNU09GTJC1	ARNU12GTJC1	
Wired	Deluxe	PQRCUDS0 * (- : White, B : Blue, S : Silver)			
remote control	Standard		PCRCUSZ0		
	Simple		PQRCUCA0		
	Simple (for hotel)		PQRCFCS0		
Wireless remote	control		PQWRHSF0		
Dry contact	Without case		PQDSA		
	With case		PQDSB		
Front panel			PT-HJC		



Function to control the air volume by ceiling height

Control of the air intensity has been made possible by employing a height-control algorithm for the interior fan.



Airflow direction control

■ Group control (wired remote control)

When several products are linked, one specific control device can control a specific number of products.

■ Jet cool™

Jet cool allows quick cooling. In this mode, strong, cool air is blown at high speed for 30 minutes, until the room temperature reaches 18°C.

Drain pump

Built-in drain pump automatically drains water.

Auto restart function

In the event of sudden power failure, the auto start mechanism saves the current setting. It will restore the air conditioner to its previous setting when power returns.

Plasma filter

The PLASMA Air Purifying System developed uniquely by LG not only removes microscopic contaminants and dust, but also removes house mites, pollen, and pet fur to prevent allergic diseases like asthma.





Ceiling Cassette - 2way

ARNU18GTLC1 / ARNU24GTLC1







Model		Unit	ARNU18GTLC1	ARNU24GTLC1
Capacity	Cooling	kW	5.6	7.1
. ,		kcal/h	4,800	6,100
		Btu/h		·
			19,100	24,200
	Heating	kW	6.3	8.0
		kcal/h	5,400	6,900
		Btu/h	21,500	27,300
Power Input	Cooling	W	70	70
	Heating	W	66	66
Power Suppl	у	Ø/V/Hz	1/220~2	240/50
Dimensions	Body	mm	830*55	0*225
(W*D*H)	Front Panel	mm	1050*6	40*28.5
Weight	Body	kg	28	28
	Front Panel	kg	4	4
Panel Color			Wh	nite
Sound pressur	e levels(H/M/L)	dBA±3	40/35/30	42/37/32
Air flow rate	H/M/L	СММ	13/12/10	17/15/13
Neo Plasma	air purifying f	ilter	Basic	Basic
Drain Pump			0	0
Piping	Liquid	mm(inch)	6.35(1/4)	9.52(3/8)
Connection	Gas	mm(inch)	12.7(1/2)	15.88(5/8)
	Drain(OD/ID)	mm	32/25	32/25

Notes:

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 Plining Length 7.5m
Level Difference of Zero

2. Capacities are net Capacities

3. Due to our policy of innovation some specifications ma
4. LEV. -Linear Expansion Valve

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 Pjping Length 7.5m Level Difference of Zero

kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Model		ARNU18GTLC1	ARNU24GTLC1
Wodel		ANNOTOGIECT	AMMOZ4GTECT
Wired	Deluxe	PQRCUDS0 * (– : White, B : Blue, S : Silver	•)
remote control	Standard	PCRCUSZ0	
	Simple	PQRCUCA0	
	Simple (for hotel)	PQRCFCS0	
Wireless remote	control	PQWRHSF0	
Dry contact	Without case	PQDSA	
	With case	PQDSB	
Front panel		PT-HLC	

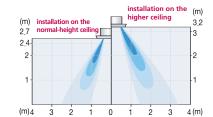
Super slim

The indoor unit with one of the smallest and compact designs on the market based on a three-dimensional CAD and CAE computer system has successfully reduced the space it occupies and enabled installation in various spaces. (TH window frames)



Function to control the air volume by ceiling height

Control of the air intensity has been made possible by employing a height-control algorithm for the interior fan.



Airflow direction control

■ Jet cool™

Jet cool allows quick cooling. In this mode, strong, cool air is blown at high speed for 30 minutes, until the room temperature reaches 18°C.

Drain pump

Built-in drain pump automatically drains water.

Auto restart function

In the event of sudden power failure, the auto start mechanism saves the current setting. It will restore the air conditioner to its previous setting when power returns.

Plasma filter

The PLASMA Air Purifying System developed uniquely by LG not only removes microscopic contaminants and dust, but also removes house mites, pollen, and pet fur to prevent allergic diseases like asthma.





Ceiling Cassette - 4way

ARNU07GTEC1 / ARNU09GTEC1 / ARNU12GTEC1 ARNU18GTEC1 / ARNU24GTHC1 / ARNU28GTHC1 ARNU36GTDC1 / ARNU42GTDC1 / ARNU48GTDC1









Model		Unit	ARNU07GTEC1	ARNU09GTEC1	ARNU12GTEC1	ARNU18GTEC1	ARNU24GTHC1	ARNU28GTHC1	ARNU36GTDC1	ARNU42GTDC1	ARNU48GTDC1
Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1	8.2	10,6	12.3	14.1
		kcal/h	1,900	2,400	3,100	4,800	6,100	7,100	9,100	10,600	12,100
		Btu/h	7,500	9,600	12,300	19,100	24,200	28,000	36,200	42,000	48,100
	Heating	kW	2.5	3.2	4.0	6.3	8.0	9.2	11.9	13.8	15.9
		kcal/h	2,200	2,800	3,400	5,400	6,900	8,000	10,200	11,000	13,200
		Btu/h	8,500	10,900	13,600	21,500	27,300	31,500	40,600	43,800	51,200
Power Input	Cooling	w	40	40	40	40	33	33	144	144	144
	Heating	w	40	40	40	40	33	33	144	144	144
Power Suppl	ly	Ø/V/Hz 1/220~240/50									
Dimensions	Body	mm		570*5	70*269		840*8	840*840*225		840*840*288	
(W*D*H)	Front Panel	mm		670*6	570*30		950*	950*30	950*950*30		
Weight	Body	kg	19	19	19	19	24	24	32	32	32
	Front Panel	kg	2.5	2.5	2.5	2.5	4.5	4.5	4.5	4.5	4.5
Panel Color				ı			Morning Fog				
Sound pressur	re levels(H/M/L)	dBA±3	40/38/37	40/38/37	41/35/32	43/37/35	38/35/31	39/38/32	43/40/39	47/44/42	48/47/45
Air flow rate	H/M/L	СММ	9/8/7	9/8/7	11/10/9	13/12/10	17/15/13	19/16/14	25/21/19	30/27/24	31/29/27
Neo Plasma	a air purifying f	filter	Basic								
Drain Pump			0	0	0	0	0	0	0	0	0
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Drain(OD/ID)	mm	32/25	32/25	32/25	32/25	32/25	32/25	32/25	32/25	32/25

Notes:

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

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. LE.V. -Linear Expansion Valve

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

Conversion formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Model		ARNU07GTEC1 ARNU09GTEC1 ARNU12GTEC1 ARNU18GTEC1	ARNU24GTHC1 ARNU28GTHC1	ARNU36GTDC1 ARNU42GTDC1	ARNU48GTDC1	
Wired	Deluxe	PQRCUDS0*	-: White, B:Blue, S:Silver)			
remote control	Standard		PCRCUSZ0			
	Simple		PQRCUCA0			
	Simple (for hotel)		PQRCFCS0			
Wireless remote	control		PQWRHSF0			
Dry contact	Without case	PQDSA				
	With case		PQDSB			
Front panel		PT-HEC1		PT-HDC1		

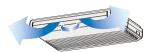


■ Natural breeze by CHAOS swing™

The Chaos technology recreates the flow of natural air by controlling the angle speed and movement of the air vane. It also minimizes the temperature difference between high and low areas in the room, creating a more comfortably conditioned environment.

Weekly program (wired remote control)

If necessary, an operator can make an on/off reservation of the product for a period of one week.



Airflow direction control
Horizontal airflow direction control.
manual control

Auto restart function

In the event of sudden power failure, the auto start mechanism saves the curren setting. It will restore the air conditioner to its previous setting when power returns.



Vertical airflow direction control.
Airflow direction control
The airflow direction can be adjusted by using the remote control.





Ceiling & Floor

Specifications

ARNU09GVEA1 / ARNU12GVEA1







Model			ARNU09GVEA1	ARNU12GVEA1			
Capacity	Cooling	kW	2.8	3.6			
		kcal/h	2,400	3,100			
		Btu/h	9,600	12,300			
	Heating	kW	3.2	4.0			
		kca l /h	2,800	3,400			
		Btu/h	10,900	13,600			
Power	Cooling	w	30	30			
Input	Heating	w	30	30			
Power Supp	oly	Ø/V/Hz	1/220~240/50				
Dimensions	(W*D*H)	mm	900*200*490				
Weight		kg	12	12			
Sound pressure	levels(H/M/L)	dBA±3	36/32/28	38/36/30			
Air flow rate	H/M/L	СММ	7.6/6.9/6.2	9.2/7.6/6.9			
Plasma air p	ourifying filte	er	-	-			
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)			
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)			
	Drain(OD/ID)	mm	20/16	20/16			

Notes:

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 Pliping Length 7.5m
Level Difference of Zero

Capacities are net capacities

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

LE.V.-Linear Expansion Valve

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

Model		ARNU09GVEA1	ARNU12GVEA1		
Wired	Deluxe	PQRCUDS0* (-: Whi	ite, B : Blue, S : Silver)		
remote control	Standard	PCRCUSZ0			
	Simple	PQRCUG	CAO		
	Simple (for hotel)	PQRCFO	CSO		
Wireless remote	control	PQWRHSF0			
Dry contact	Without case	PQDS	A		
	With case	PQDSB			

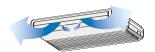


■ Natural breeze by CHAOS swing™

The Chaos technology recreates the flow of natural air by controlling the angle speed and movement of the air vane. It also minimizes the temperature difference between high and low areas in the room, creating a more comfortably conditioned environment.

Weekly program (wired remote control)

If necessary, an operator can make an on/off reservation of the product for a period of one week.



Airflow direction control
Horizontal airflow direction control.
manual control

Auto restart function

In the event of sudden power failure, the auto start mechanism saves the curren setting. It will restore the air conditioner to its previous setting when power returns.



Vertical airflow direction control.
Airflow direction control
The airflow direction can be adjusted by using the remote control.





Ceiling Suspended

ARNU18GVJA1 / ARNU24GVJA1









Model		Unit	ARNU18GVJA1	ARNU24GVJA1			
Capacity	Cooling	kW	5.6	7.1			
		kcal/h	4.800	6,100			
		Btu/h	19.100	24,200			
	Heating	kW	6.3	8.0			
		kcal/h	5,400	6,900			
		Btu/h	21,500	27,300			
Power	Cooling	w	63	63			
Input	Heating	w	63	63			
Power Supp	oly	Ø/V/Hz	1/220~240/50				
Dimensions	s(W*D*H)	mm	950*22	0*650			
Weight		kg	15	15			
Sound pressure	e levels(H/M/L)	dBA±3	42/40/37	43/41/39			
Air flow rate	H/M/L	СММ	16/14/12	18/16/14			
Plasma air į	purifying filte	er	-	-			
Piping	Liquid	mm(inch)	6.35(1/4)	9.52(3/8)			
Connection	Gas	mm(inch)	12.7(1/2)	15.88(5/8)			
	Drain(OD/ID)	mm	20/16	20/16			

Notes:
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
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. L.E.V. -Linear Expansion Valve

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 Pjping Length 7.5m Level Difference of Zero

Conversion formula kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Model		ARNU18GVJA1	ARNU24GVJA1		
Wired	Deluxe	PQRCUDS0 * (– : White, B : Blue, S : Silver)			
remote control	Standard	PCRCUSZ0			
	Simple	PQRCUCA0			
	Simple (for hotel)	PQRCFCS0			
Wireless remote	control	PQWRHSF0			
Dry contact	Without case	PQDSA			
	With case	PQDSB			

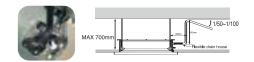
Linear

E.S.P (External Static Pressure) control

Air volume and noise level is alaways kept stable as initially designed regardless of external static pressure variation.

Drain pump

Built-in drain pump automatically drains water.



Weekly program (wired remote control)

If necessary, an operator can make an on/off reservation of the product for a period of one week.

Quiet operation & easy service

Innovative design for blower and housing system low noise! light weight! easy serviceability plastic blower and housing

- Designed for low noise
- Designed to reduce weight.
- Designed for easy service with separated housing.

This product will guarantee you lower sound level and less service expenses.

Accessories



If you want to use wireless remote control, have to need wired remote control (High static, Low static, Built-in, Floor Standing)

Ceiling Concealed Duct - High Static

ARNU18GBHA1 / ARNU24GBHA1 / ARNU28GBGA1 ARNU36GBGA1 / ARNU42GBGA1 / ARNU48GBRA1









			ARNU18GBHA1	ARNU24GBHA1	ARNU28GBGA1	ARNU36GBGA1	ARNU42GBGA1	ARNU48GBRA1			
Capacity	Cooling	kW	5.6	7.1	8.2	10.6	12.3	14.1			
		kcal/h	4,800	6,100	7,100	9,100	10,600	12,100			
		Btu/h	19,100	24,200	28,000	36,200	42,000	48,100			
	Heating	kW	6.3	8.0	9.2	11.9	13.8	15.9			
		kcal/h	5,400	6,900	8,000	10,200	11,000	13,200			
		Btu/h	21,500	27,300	31,500	40,600	43,800	51,200			
Power	Cooling	w	150	150	450	450	450	450			
Input	Heating	w	150	150	430	430	430	430			
Power Supp	ply	Ø/V/Hz		1/220~240/50							
Dimensions	s(W*D*H)	mm	882*45	0*260		1182*450*298					
Weight		kg	34	35	38	38	38	53			
Sound pressure	e levels(H/M/L)	dBA±3	42.5/41/37	45/43/41	44/42/40	46/44/42	48/46/45	45/43/41			
E.S.P range	:	mmAq	4-	-12	6~	6~12		7~18			
Air f l ow rate	H/M/L	СММ	15.5/13.5/12.4	18.3/16.9/15.5	25.9/24.1/21.8	32.3/29.0/25.3	34.5/32.3/30.7	44.8/40.6/33.3			
Plasma air	purifying fi l te	er	-	-	-	-	-	-			
Piping	Liquid	mm(inch)	6.35(1/4)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)			
Connection	Gas	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)			
	Drain(OD/ID)	mm	32/25	32/25	32/25	32/25	32/25	32/25			

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

kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Model		ARNU18GBHA1	ARNU24GBHA1	ARNU28GBGA1	ARNU36GBGA1	ARNU42GBGA1	ARNU48GBRA1		
Wired	Deluxe		PQRCUDS0* (– : White, B : Blue, S : Silver)						
remote control	Standard		PDRCUSZ0						
Simple PQRCUCA0									
	Simple (for hotel)			PQRC	FCS0				
Wireless remote	control	PQWRHSF0							
Dry contact	Without case	PQDSA							
With case PQDSB									

Notes:
1. Capacities are based on the following conditions
Cooling-Indoor temp. 27'C[80.6F]DB / 19'C[66.2F]WB
Outdoor temp. 35'C[95F]DB / 24'C[75.2F]WB
Interconnecting Pliping Length 7.5m
Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification 4. LE.V. -Linear Expansion Valve

Linear

E.S.P (External Static Pressure) control

Air volume and noise level is alaways kept stable as initially designed regardless of external static pressure variation.

Group control (wired remote control)

When several products are linked, one specific control device can control a specific number of products.

Weekly program (wired remote control)

If necessary, an operator can make an On/Off reservation of the product for a period of one week.

Drain pump

Built-in drain pump automatically drains water.



Super slim (190mm)

The indoor unit with one of the smallest and compact designs on the market based on a three-dimensional CAD and CAE computer system has successfully reduced the space it occupies and enabled installation in various spaces.

Quiet operation & easy service

Innovative design for blower and housing system low noise! light weight! easy serviceability plastic blower and housing

- Designed for low noise
- Designed to reduce weight.
- Designed for easy service with separated housing.

This product will guarantee you lower sound level and less service expenses.

Accessories





If you want to use wireless remote control, have to need wired remote control (High static, Low static, Built-in, Floor Standing)

Ceiling Concealed Duct - Low Static

ARNU07GB1G1 / ARNU09GB1G1 / ARNU12GB1G1 ARNU18GB2G1 / ARNU24GB2G1









			ARNU07GB1G1	ARNU09GB1G1	ARNU12GB1G1	ARNU18GB2G1	ARNU24GB2G1
Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1
		kcal/h	1,900	2,400	3,100	4,800	6,100
		Btu/h	7,500	9,600	12,300	19,100	24,200
	Heating	kW	2.5	3.2	4.0	6.3	8.0
		kcal/h	2,200	2,800	3,400	5,400	6,900
		Btu/h	8,500	10,900	13,600	21,500	27,300
Power	Cooling	w	30	30	30	80	80
Input	Heating	w	30	30	30	80	80
Power Supp	ply	Ø/V/Hz			1/220~240/50		
Dimensions	s(W*D*H)	mm		820*575*190		1100*	575*190
Weight		kg	17	17	17	21	21
Sound pressure	e levels(H/M/L)	dBA±3	35/33/31	36/34/32	37/35/33	40/37/34	43/40/37
E.S.P range	!	mmAq			0~4		
Air flow rate	H/M/L	СММ	8.7/7.5/6.5	9.5/8.5/7.5	10.5/9.5/8.5	16/14/12	19/17/15
Plasma air	purifying filte	er	-	-	-	-	-
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)
	Drain(OD/ID)	mm	32/25	32/25	32/25	32/25	32/25

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

Conversion formula

Model		ARNU07GB1G1	ARNU09GB1G1	ARNU12GB1G1	ARNU18GB2G1	ARNU24GB2G1	
Wired	Deluxe		PQRCU	JDS0 * (– : White, B : Blue, S	:Silver)		
remote control	Standard	dard PDRCUSZ0					
	Simple	PQRCUCA0					
	Simple (for hotel)			PQRCFCS0			
Wireless remote	control	PQWRHSF0					
Dry contact	Without case	PQDSA					
	With case			PQDSB			

Notes:

1. Capacities are based on the following conditions
Cooling-Indoor temp. 27°C[80.6°F]D8 / 19°C[66.2°F]W8
Outdoor temp. 35°C[95°F]D8 / 24°C[75.2°F]W8
Interconnecting Piping Length 7.5m
Level Difference of Zero

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification 4. L.E.V. -Linear Expansion Valve

Linear

E.S.P (External Static Pressure) control

Air volume and noise level is alaways kept stable as initially designed regardless of external static pressure variation.

Group control (wired remote control)

When several products are linked, one specific control device can control a specific number of products.

Weekly program (wired remote control)

If necessary, an operator can make an On/Off reservation of the product for a period of one week.

Quiet operation & easy service

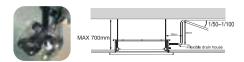
Innovative design for blower and housing system low noise! light weight! easy serviceability plastic blower and housing

- Designed for low noise
- Designed to reduce weight.
- Designed for easy service with separated housing.

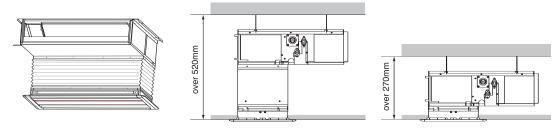
This product will guarantee you lower sound level and less service expenses.

Drain pump

Built-in drain pump automatically drains water.



Installation scene





If you want to use wireless remote control, have to need wired remote control (High static, Low static, Built-in, Floor Standing)

Indoor unit

Ceiling Concealed Duct - Built-in

ARNU07GB3G1 / ARNU09GB3G1 / ARNU12GB3G1 ARNU18GB4G1 / ARNU24GB4G1









			ARNU07GB3G1	ARNU09GB3G1	ARNU12GB3G1	ARNU18GB4G1	ARNU24GB4G1	
Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1	
		kcal/h	1,900	2,400	3,100	4,800	6,100	
		Btu/h	7,500	9,600	12,300	19,100	24,200	
	Heating	kW	2.5	3.2	4.0	6.3	8.0	
		kcal/h	2,200	2,800	3,400	5,400	6,900	
		Btu/h	8,500	10,900	13,600	21,500	27,300	
Power	Cooling	w	30	30	30	80	80	
Input	Heating	w	30	30	30	80	80	
Power Sup	ply	Ø/V/Hz			1/220~240/50			
Dimensions	Dimensions (W*D*H) mm			820*575*190	1100*	575*190		
Suction gril	le (W*D*H)	mm		910*359*56	1188	*359*56		
Suction can	ıvas (W*D*H)	mm		821*274*(45~250)	1100*274*(45~250)			
Weight		kg	17	17	17	21	21	
Sound pressure	e levels(H/M/L)	dBA±3	37/34/33	39/35/34	40/37/34	43/40/37	46/43/37	
E.S.P range		mmAq	0~4					
Air f l ow rate	H/M/L	СММ	8/6.5/5.5	9/7.5/6	10/8.5/6.5	14/12/10	17/15/10	
Plasma air į	purifying filte	er	-	-	-	-	-	
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)	
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)	
	Drain(OD/ID)	mm	32/25	32/25	32/25	32/25	32/25	

Notes:

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 Pliping Length 7.5m
Level Difference of Zero

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. LE.V. -Linear Expansion Valve

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

Conversion formula

Model		ARNU07GB3G1	ARNU09GB3G1	ARNU12GB3G1	ARNU18GB4G1	ARNU24GB4G1		
Wired	Deluxe		PQR	CUDS0* (– : White, B : Blue, S	S:Silver)			
remote control	Standard			PDRCUSZ0				
	Simple		PQRCUCA0					
	Simple (for hotel) PQRCFCS0							
Wireless remote	control	PQWRHSF0						
Dry contact	Without case		PQDSA					
	With case	PQDSB						
Suction grille		PBSGB30			PE	SGB40		
Suction canvas		PBSC30			PBSC40			



Weekly program (wired remote control)

If necessary, an operator can make an on/off reservation of the product for a period of one week.

Auto restart function

In the event of sudden power failure, the auto start mechanism saves the curren setting. It will restore the air conditioner to its previous setting when power returns.

Child lock function

This function prevents the tampering of the control buttons on the unit allowing control via the remote controller only.

Accessories





If you want to use wireless remote control, have to need wired remote control (High static, Low static, Built-in, Floor Standing)

Indoor unit

Floor Standing- With Case

ARNU07GCEA1 / ARNU09GCEA1 ARNU12GCEA1 / ARNU18GCFA1 ARNU24GCFA1





Soft Dry Week X 1 Group



			ARNU07GCEA1	ARNU09GCEA1	ARNU12GCEA1	ARNU18GCFA1	ARNU24GCFA1	
Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1	
		kcal/h	1,900	2,400	3,100	4,800	6,100	
		Btu/h	7,500	9,600	12,300	19,100	24,200	
	Heating	kW	2.5	3.2	4.0	6.3	8.0	
		kcal/h	2,200	2,800	3,400	5,400	6,900	
		Btu/h	8,500	10,900	13,600	21,500	27,300	
Power	Cooling	w	30	30	30	80	80	
Input	Heating	w	30	30	30	80	80	
Power Supp	ly	Ø/V/Hz	1/220~240/50					
Dimensions	(W*D*H)	mm	1067*203*635			1345*203*635		
Weight		kg	27	27	27	34	34	
Sound pressure	levels(H/M/L)	dBA±3	35/33/31	36/34/32	37/35/33	40/37/34	43/40/37	
Air flow rate	H/M/L	СММ	8.5/7.5/6.5	9.5/8.5/7.5	10.5/9.5/8.5	16/14/12	18/16/14	
Plasma air purifying filter		-	-	-	-	-		

6.35(1/4)

12.7(1/2)

6.35(1/4)

12.7(1/2)

Piping

Connection Gas

Notes:

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
Let your bufference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications me
4. L.E.V. -Linear Expansion Valve

Drain(OD/ID) mm

Liquid

ng-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

6.35(1/4)

12.7(1/2)

me specifications may be changed without notification

mm(inch)

mm(inch)

6.35(1/4)

12.7(1/2)

Conversion formula Kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

9.52(3/8)

15.88(5/8)

Model		ARNU07GCEA1	ARNU09GCEA1	ARNU12GCEA1	ARNU18GCFA1	ARNU24GCFA1	
Wired	Deluxe		PQRCU	DS0 * (– : White, B : Blue, S :	Silver)		
remote control Standard Simple			PDRCUSZ0				
		PQRCUCA0					
	Simple (for hotel)			PQRCFCS0			
Wireless remote	control	PQWRHSF0					
Dry contact Without case		PQDSA					
	With case	PQDSB					



Weekly program (wired remote control)

If necessary, an operator can make an on/off reservation of the product for a period of one week.

Auto restart function

In the event of sudden power failure, the auto start mechanism saves the curren setting. It will restore the air conditioner to its previous setting when power returns.

Child lock function

This function prevents the tampering of the control buttons on the unit allowing control via the remote controller only.

Accessories





If you want to use wireless remote control, have to need wired remote control (High static, Low static, Built-in, Floor Standing)

Indoor unit

Floor Standing- Without Case

ARNU07GCEU1 / ARNU09GCEU1 ARNU12GCEU1 / ARNU18GCFU1 ARNU24GCFU1







			ARNU07GCEU1	ARNU09GCEU1	ARNU12GCEU1	ARNU18GCFU1	ARNU24GCFU1	
Capacity	Cooling	kW	2.2	2.8	3.6	5.6	7.1	
		kcal/h	1,900	2,400	3,100	4,800	6,100	
		Btu/h	7,500	9,600	12,300	19,100	24,200	
	Heating	kW	2.5	3.2	4.0	6.3	8.0	
		kcal/h	2,200	2,800	3,400	5,400	6,900	
		Btu/h	8,500	10,900	13,600	21,500	27,300	
Power	Cooling	w	30	30	30	80	80	
Input	Heating	w	30	30	30	80	80	
Power Supp	oly	Ø/V/Hz	1/220~240/50					
Dimensions	(W*D*H)	mm	978*190*639			1256*	190*639	
Weight		kg	19	19	19	27	27	
Sound pressure	e levels(H/M/L)	dBA±3	35/33/31	36/34/32	37/35/33	40/37/34	43/40/37	
Air flow rate	H/M/L	СММ	8.5/7.5/6.5	9.5/8.5/7.5	10.5/9.5/8.5	16/14/12	18/16/14	
Plasma air į	purifying filte	er	-	-	-	-	-	
Piping	Liquid	mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)	
Connection	Gas	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)	
	Drain(OD/ID)	mm	16/12	6/12	6/12	6/12	6/12	

Notes:

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 Pliping Length 7.5m
Level Difference of Zero

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. LE.V. -Linear Expansion Valve

ng-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

kcal/h = kW x 860 Btu/h = kW x 3412 cfm = m³/min x 35.3

Model		ARNU07GCEU1	ARNU09GCEU1	ARNU12GCEU1	ARNU18GCFU1	ARNU24GCFU1
Wired	Deluxe		PQRCUI	DS0 * (– : White, B : Blue, S : S	Silver)	
remote control	Standard			PDRCUSZ0		
Simple		PQRCUCA0				
	Simple (for hotel)			PQRCFCS0		
Wireless remote	control	PQWRHSF0				
Dry contact Without case		PQDSA				
	With case			PQDSB		

MULTI V_m Network solution & Accessories



Network Solution

1. Individual controller

	Description					Reference			
ς	ITEM		ARTCOOL	Wall Mounted	Cassette	Ceiling & Floor	Ceiling Suspended	Duct	Floor standing
	Wired remote control Standard		PCRCUSZ0					F	PDRCUSZ0
	Deluxe Simple		PQRCUDS0 / PQRCUDS0B / PQRCUDS0S (White / Blue / Silver)						
			PQRCUCA0						
		Simple(for hotel)				PQRCFCS0			
	Wireless remote control					PQWRHSF0			

2. Simple central controller

Description	Reference	Comment
Simple Central Control	PQCSB101S0	16 Indoors
Function Controller	PQCSC101S0	Max. 8 SCC

3. Deluxe central controller

Description	Reference	Comment
Deluxe Central Control	PQCSW502A2	Control/Monitoring, Schedule, Max 256 Indoors

4. PC Based central controller

Description	Reference	Comment
Software	PQCSS513A0	Control/Monitoring, Schedule, Ventilator control, Peak Control, PDI monitoring

5. Power Distribution Indicator

Description	Reference	Comment
Power Distribution Indicator	PQNUD1S00	Max 48 Indoors, 1 PDI / 1 Outdoor
Watt Hour Meter	Local purchasing	Pulse output/40~500msec, 1, 2, 4, 6, 8, 10W/Pluse

6. BNU-LW

Description	Reference	Comment
LonWorks network compatible gateway	PQNFB16A1	Max 64 indoors, Compatible ventilator
	The state of the s	V A

7. BNU-BN

Description	Reference	Comment
BACnet network compatible gateway	PQNFB17B0	Max 256 indoors, Compatible ventilator

8. Accessories

Description	Reference	Comment
CNU	PQNFG14B0	1 CNU / 1 DCC, 16 CNU / 1PCC
Interface Unit(PI485)	PMNFP14A0	For 1 Outdoor with max 16 Indoors, 8 PI485 / 1 CNU
	PMNFP14A1	For 1 Outdoor with max 48 Indoors, 8 PI485 / 1 CNU
Dry_Contact without case	PQDSA	Using contact, On_Off control, operating / Error monitoring
Dry_Contact with case	PQDSB	Using contact, On_Off control, operating / Error monitoring
Remote temperature sensor	PQRSTA0	Detecting the exact room temperature
HR unit	PRHR020	2 Pipe-Connection
	PRHR030	3 Pipe-Connection
	PRHR040	4 Pipe-Connection

* DCC : Deluxe central controller * SCC : Simple central controller * PCC : PC central controller



Wired remote control

PCRCUSZO (Standard)



Features

- On_Off / fan speed / mode / temp
- Room temp
- Fan / plasma / swirl swing / heater
- Vane control
- Weekly reservation
- Simple reservation
- Timer function
- Auto swing / child lock
- Electric failure compensation (Max. 2 hours)
- On_Off LED

Characteristics

• Full function

PDRCUSZ0 (Standard)



Features

- On_Off / fan speed / mode / temp
- Room temp
- Fan / plasma / humidification / heater
- Fan auto
- Vane control
- E.S.P function
- Weekly reservation
- Simple reservation
- Timer function
- Auto swing / child lock
- Wireless remocon receiver
- Electric failure compensation (Max. 2 hours)
- On_Off LED

Characteristics

• Full function / Wireless remocon receive function

PQRCUDS0 (Deluxe, White) PQRCUDS0B (Deluxe, Blue) PQRCUDS0S (Deluxe, Silver)



Features

- On_Off / fan speed / mode / temp
- Room temp
- Fan / plasma / swirl swing / heater
- Vane control
- E.S.P function
- Reservation (simple weekly)
- Simple reservation
- Timer function
- Auto swing / child lock

Characteristics

• Touch screen / LCD back_light

PQRCUCA0 (Simple)



Features

- On_Off
- Fan speed
- Mode
- Set temperature
- Room temp
- Plasma
- Auto swing / Child lock

Characteristics

• Simple function

PQRCFCS0 (Simple for hotel)



Features

- On_Off
- Fan speed
- Set temperature
- Room temp
- Plasma
- Auto swing / Child lock

Characteristics

• Simple function / Mode change impossible for hotel use

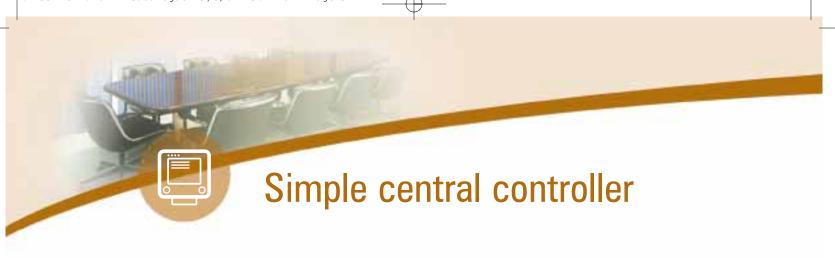
Wireless remote control

PQWRHSF0



Functions

Functions	Standard
Air circulation / fan operation	•
Room temperature checking	•
Sleep mode operation	•
Temperature settings	•
Operation mode selection	•
Air-swing & jet cool (cassette only)	•
On_Off timer settings	•



Simple central controller

- A central controller for managing small sites
- · Control maximum 16 indoor units



Features

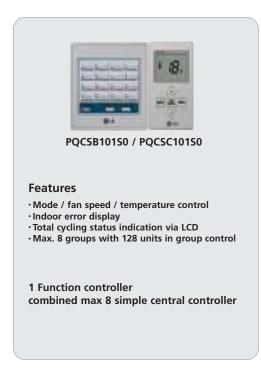
- ·Individual operation (one button one A/C)
- On operation (Max. 16 indoors)
- Off operation (Max. 16 indoors)
- Individual lock function (1 unit)
- · Group operation
- Group On_Off
- Group lock function (16 units)
- Sequential starting to protect over current Diagnostic function (LED blinking)

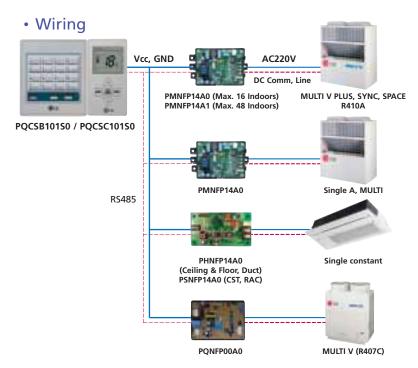


Interface unit (PI485): PMNFP14A0 (for 1 outdoor with max 16 indoors, 1 PI485/1 outdoor) PMNFP14A1 (for 1 outdoor with max 48 indoors, 1 PI485/1 outdoor)

Function central controller (PQCSC101S0)

 Control & monitor the operation status of indoor units in company with a simple central controller (PQCSB101S0)





Deluxe central controller

Deluxe central controller

- · A central controller for managing large sites
 - Deluxe central controller can control max 256 indoor units

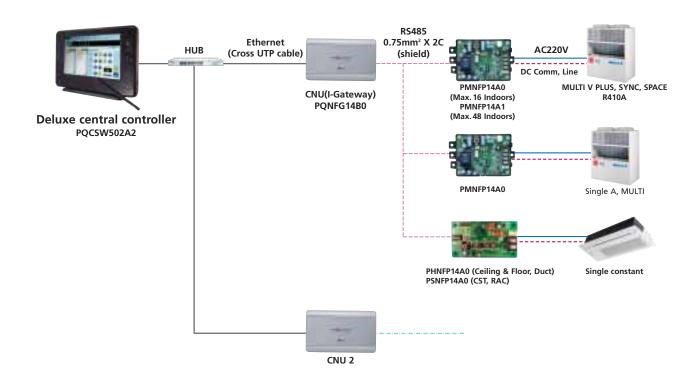


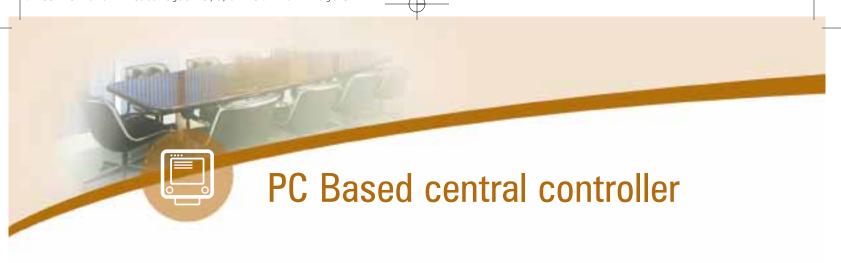
Features

- ·7 inch LCD panel
- ·Individual/integrated operation/monitoring (Max. 256 indoor units)
- · Group management
- · Self-diagnosis function
- · Semi-permanent life / convenient maintenance
- Easy update
- · Management cost down · Convenient GUI / touch screen
- · Schedule automatic operation management

Additional accessory
Interface unit(CNU) : PQNFG14B0 (2 CNU / 1 DCC)
Interface unit(Pl485) : PMNFP14A0 (For 1 outdoor with max 16 indoors, 16 Pl485 / 1 CNU)
PMNFP14A1 (For 1 outdoor with max 48 indoors, 16 Pl485 / 1 CNU)

Wiring





■ PC Based centroller

- · A central controller for managing huge sites
 - PC Based central controller can control Max. 2048 Indoor units



PC Based central controller PQCSS513A0

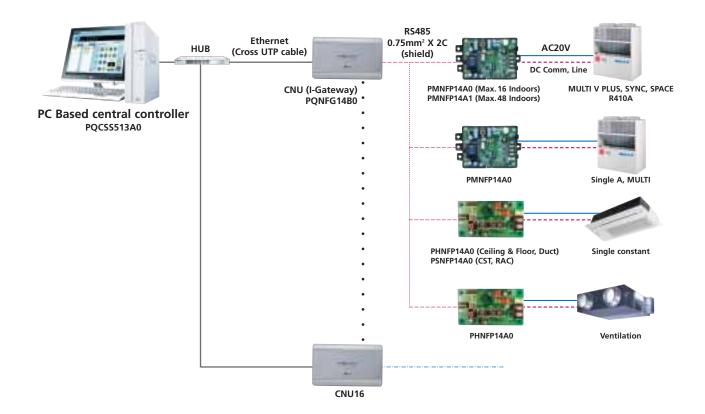
Classification	PQCSS513A0
	·
Configuration	User S.W engine
Program installation	Install with CD
Program installation maximum number of system to control	2,048
CNU	PQNFG14B0
Internet remote control	✓
System configuration	✓
Control/monitoring	✓
User lock function	✓
Schedule management	✓
Peak Control	✓
PDI monitoring	✓
Ventilation control&monitoring	✓

· Additional accessory

Interface unit (PI485)

PQNFG14B0 (16 CNU / 1 PCC)
PMNFP14A0 (For 1 outdoor with Max. 16 Indoors, 8 PI485 / 1 CNU)
PMNFP14A1 (For 1 outdoor with Max. 48 Indoors, 8 PI485 / 1 CNU)

Wiring



PDI (Power Distribution Indicator)

PDI (Power Distribution Indicator)

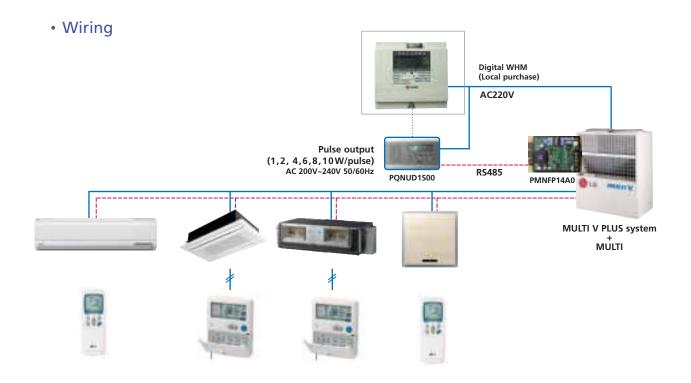
· This device is an indicator for power consumption of the multi type Air-conditioner used for common power line.



Features

- Indicates power consumption of every indoor unit
- Accumulated total power consumption
- Accumulated / current power consumption of each indoor unit
 Period accumulated power consumption
 Data back-up on EEPROM even if power turns Off

- Max 48 indoor units
- Connectable to PCC
- Applied products : MULTI V PLUS & MULTI





■ BNU-LW (for the use in LonWorks®)



- Easy interface between BMS and LG air conditioner
 - Independence of BMS under the standard BMS
 - : Operation system based on LNS (LonWorks® network service)
 - No network installation needed
 - Very widely applicable protocol (LonWorks®)

<LonMark certification version 3.3>



PQNFB16A1

Features

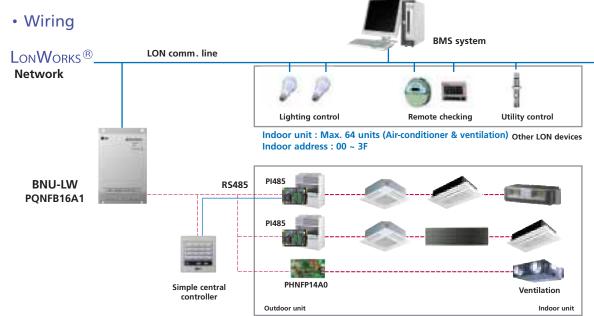
- Connection to LonWorks® using LonWorks® protocol and LG Air-conditioner protocol

- Focus ability
 64 units(including indoors and ventilators)
 valid address for each unit: 0x00 ~ 0x3F
 Self installation verification function using internet (web server included)
- setting gateway diagnosis of communication status on LG Air-conditioner network
- · Connection to remote total management System (LG system)
- LonMark certification (version 3.3)

Controlling	Monitoring items
On/Off command	On/Off status report
Operation mode setting	Operation mode status report
Fan Speed setting	Fan Speed status report
Lock setting	Lock status report
Air flow setting	Air flow status report
Set temp. setting	Set temp. status report
User mode setting (for only ventilator)	Current Space temp. status report
	Error status report
	User mode status report (for only ventilator)

 Additional accessory
Interface unit (PI485): PMNFP14A0 (for 1 outdoor with Max. 16 Indoors)
 Additional accessory
Interface unit (PI485): PMNFP14A0 (for 1 outdoor with Max. 48 Indoors)

Additional accessory
Interface unit (PI485): PMNFP14A0 (for 1 outdoor with Max. 48 Indoors) PMNFP14A1 (for 1 outdoor with Max. 48 Indoors)



LGAP applied Air-conditioner

Network solution

BNU-BN (Building network unit- BACnet)

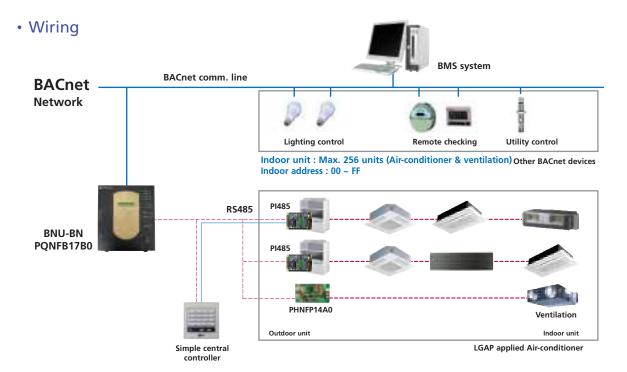
■ BNU-BN (for the use in BACnet)



PQNFB17B0

- · Through embedded web control function in BACnet one can access the airconditioner and external devices through internet.
- It can control 256 indoor units. (A/C or Ventilator)
- External devices such as fire alarm, motion detector can be connected to gateway and their function can be interlinked with airconditioner operation.

Controlling	Monitoring items
On/Off command	On/Off status report
Operation mode setting	Operation mode status report
Fan Speed setting	Fan Speed status report
Lock setting	Lock status report
Air flow setting	Air flow status report
Set temp. setting	Set temp. status report
User mode setting (for only ventilator)	Current Space temp. status report
	Error status report
	User mode status report (for only ventilator)





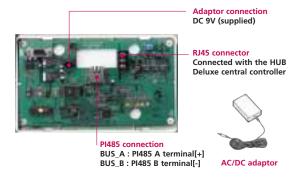
CNU (I-Gateway)



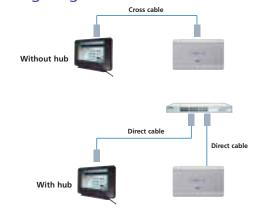
Features

- CNU converts the ethernet protocol into RS 485 protocol and vice versa.
- Used with deluxe and P/C based central controllers.

Part description



Wiring diagram



■ PI485

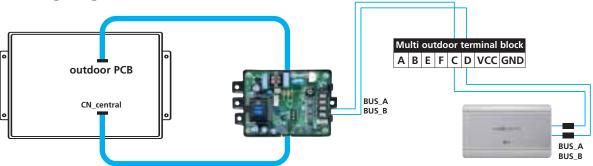


Features

PI485 converts the protocol of air-conditioner to the 485 protocol for central controller.

- Device for simple/deluxe/PC controllers.
- Supports communication wires length flexibility up to 1km.
- Different types of PCB for different products.
- -Option select (LGAP, CAC, RAC) -LED display (Communication state) -Four different types
- Available Max. 16 Indoor units: PMNFP14A0
- Available Max. 48 Indoor units: PMNFP14A1

Wiring diagram



Dry contact module Remote Temperature Sensor

Dry contact module



Features

Several kinds of devices can control & monitor our air-conditioner

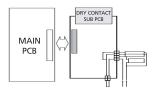
- by using dry contact very easily.

 On_Off control by contact for example
- Motion detector sensors in the room
- Timer function
- Hotel key switch
- Operation state monitor Error state monitor

Function

Two modes of dry contact are automatic operation and manual operation. Automatic operation and manual operation can be changed by pressing the reservation cancel button of the wireless remote controller in a series of 3 times within 3 minutes.

Function



Remote Temperature Sensor



PQRSTA0

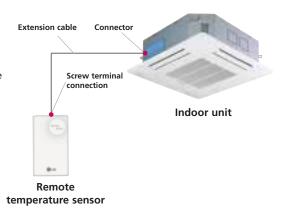
Features

It can help to detect the exact room temperature at the optimal position.

- Model applied to Cassette, Duct type.
- Part supplied Remote temperature sensor
- Cable (15m)
- Manual

Wiring diagram

- 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.
- 3. In the case of wired remote controller installed, set the temperature sensing slide s/w at MAIN mode.



Air conditioning system _99



Heat recovery unit (Applied to MULTI V. SYNC R410A)

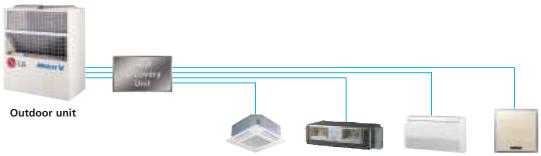


PRHR040

- Max. 4 indoor units can be connected by module design.
- Due to the automatic search algorithm for piping detection, easy installation and effectiveness is improved.
- Subcooling cycle in HR unit makes the system efficiency maximum.



PRHR040 (4 Pipe-connection)



Indoor unit

Model				PRHR040
Max. connectable	number of indo	oor units		4
Max. connectable	capacity of ind	oor units (Per port/unit)	kW	14.1 / 47
Nominal Input	cooling		kW	40
	heating		kW	40
Net. weight			kg	21
D' ' (M/ II D)		mm	801x218x617	
Piping	Indoor	liquid	mm(inch)	9.52 (3/8)
connections	unit	gas	mm(inch)	15.88 (5/8)
	Outdoor	liquid	mm(inch)	12.7 (1/2)
unit		low pressure	mm(inch)	28.58 (1 1/8)
		high Pressure	mm(inch)	22.2 (7/8)
Power supply		ø /V/Hz	1/220 ~ 240/50	

Accessories

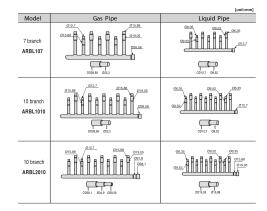
Branch

Connection of liquid (Gas) pipe in outdoor units

Header

	Multi V PLUS, Multi V SPACE			
	Gas pipe Liquid pipe			
Header	4 branch ARBL054			
	7 branch	ARBL057		
コムココ	4 branch ARBL104			
7 branch ARBL107		ARBL107		
7733	10 branch ARBL1010			
	ARBL2010			

		[unit:mm]
Model	Gas Pipe	Liquid Pipe
4 branch ARBL054	012.7 015.88 019.68 019.68 019.68	05.35 08.55 09.52 09.52 09.52 09.52
7 branch ARBL057	0127 0158 0158 0190 0190	06.35 05.32
4 branch ARBL104	015.88 015.88 015.88 005.84 025.58	05.52 05.52 05.25



Connection of liquid(gas) pipe in outdoor units & Y branch

	Multi V PLUS		Multi V SYNC			Multi V SPACE	
	Gas pipe	Liquid pipe	Low Pressure Gas Pipe	Liquid Pipe	Hige Pressure Gas Pipe	Gas pipe	Liquid pipe
2 Outdoor Unit	ARCNN20		ARCNB20		-		
3 Outdoor Unit	ARC	ARCNN20		ARCNB20		-	
3 Outdoor Offic	ARCNN30		ARCNB30			_	
Y Branch	ARBLN01620 ~ under 16.0kW		ARBLB1620 ~ under 16.0kW		ARBLN01620 ~	under 16.0kW	
13333	ARBLN03320 ~ under 33.0kW		ARBLB03320 ~ under 33.0kW		ARBLN03320 ~ under 33.0kW		
£\$\$\$\$	ARBLN07120 ~ under 71.0kW		ARBLB07120 ~ under 71.0kW		71.0kW		
1 works	ARBLN14520 71.0kW or more ~		ARBLB14520 71.0kW or more ~				

MULTI V. PLUS Y Branch (2 Outdoor units)

		[unit:mm]
Model	Connection of Gas pipe	Connection of Liquid pipe
ARCNN20	0 28.58 dust 0.00000 0 34.9 0 28.58 dust Pepe 0 31.8 0 18.08 Pepe 0 31.8 0 22.2 0 28.58 028.58 0 18.08 019.05 028.58	Sub1 Outdoor Unit 0 19.02 0 12.7 0 12.7 0 15.88

MULTI V. PLUS Y Branch (3 Outdoor units)

		[unit:mm]
Model	Connection of Gas pipe	Connection of Liquid pipe
ARCNN20	9 28.58 Sub 1 Oustoor 0 34.9 9 28.58 Gas Pipe 0 31.8 0 19.05 0 28.58	9.52 0127 018.05 012.7 012.7 015.88
	015.88 019.05 0034.9 0028.58 0034.9 0019.05 022.2 038.1	08.52 Obj9.05 Cp CpD 0012.7 0/2.2
ARCNN30	9 28.50 Main Outdoor 0 41.3 0 28.50 Supple 0 38.1 0 28.50 Supple 0 30.8	Main - Outdoor Unit 0127 022 0 1905
	019.05 OD28.58 OD22.2	©9.52 dep OD12.7



MULTI V. PLUS Y Branch (Indoor unit)

Models Gas pipe		(unit:mn Liquid pipe
ARBLN01620	#15,88 #12,7 #15,88 #12,7	95.52 95.52 95.55 95.52 95.55
ARBLN03320	#19.05 #22.2 #19.05 #15.88 #15.88 #12.7	09,52 e12.7 e9,52 e6,35 o9,52 b6,35

		[unit:mm]
Models	Gas pipe	Liquid pipe
ARBLN07120	022.2 #28.58 #28.58 #22.2 #25.4 #28.58 #22.2 #25.4 #28.58 #22.2	912.7 912.7 915.89 915.88 915.88 912.7 95.52 95.52 95.52 95.52
ARBLN14520	034.9 PM1.2 PM1.3 PS4.9 PM1.3 PS4.9 PM1.3 PS4.9 PM1.3 PS4.9 PM1.3	#15,88 #22.2 #15,86 #12,7 #15,86 #12,7 #15,86 #12,7 #15,86 #12,7 #15,86 #12,7

MULTI V. SYNC Y Branch (2 Outdoor units)

Model	Low Pressure Gas Pipe	Liquid Pipe	High Pressure Gas Pipe
ARCNB20	034.9 031.8 028.59 028.59 028.59 028.59 028.59 028.59 028.59 028.59 048.59	0127 01825 0127 0127 01836 0127	072.2 078.58 075.29 075.28 075.28
	038.1 022.2 OD19.06	022.2 0D12.7 0D19.05 09.52	019.05

MULTI V. SYNC Y Branch (3 Outdoor units)

Model	Low Pressure Gas Pipe	Liquid Pipe	High Pressure Gas Pipe
ARCNB20	C01.6 C01.8 C0	012.2 019.55 012.7 015.8 012.2 0012.7 019.55 015.8 015.8	011.55 011.55 012.2 014.88 02.2 02.2 05.58 02.2 071.88
ARCNB30	O1.5 O3.5 O3.5 O3.5 O3.5 O3.5 O3.5 O3.5 O3	019.05 019.05 019.05 019.07 019.07 019.07 019.07 019.07 019.07 019.07	CHLSS COLES COLE OF COLE OF CO

Models	Low Pressure Gas pipe	Liquid pipe	
ARBLB01620	015.88 e12.7	19.52 e6.35	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
ARBLB03320	#15.00 #72.2 #15.00 #15.00 #72.2 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00 #15.00	99.52 913.7 99.52 96.35 99.52 96.35	#15.68 #18.05 #18.75 #1
ARBLB07120	922 935.55 932.57 115.05 932.5	#12.7 #19.05 #15.00 #63.52 #12.7 #19.05 #15.00 #63.52 #12.7 #63.52	018.55 01
ARBLB14520	OSC 9613 POLS OSC POLS POLS OSC POLS POLS OSC POLS POLS POLS OSC POLS POLS POLS POLS POLS POLS POLS POLS	e15,88 402.2 e13,68 e12.7 e15,68 e12.7 e15,68 e12.7 e15,68 e12.7	#15.05 #05.04 #15.05 #05.06 #15.05 #05.06 #15.05



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