LG
Life's Good

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LG
Life's Good

LG HVAC SOLUTION

MULTI V™ IV

MULTI V IV Development Philosophy

LG Air Conditioning and Energy Solution (AE) company's primary goal is to 'vitalizing every environment' around the globe – from private residences to commercial buildings and shared communal spaces. To make this a reality, the company has developed a comprehensive range of innovative heating, ventilation and air conditioning (HVAC) products as well as state-of-the-art energy solutions. One such product is the advanced MULTI V [IV] variable refrigerant flow (VRF), which delivers incredible performance and energy efficiency through a number of proprietary LG technologies.

VRF solutions are widely considered to be among the most versatile and powerful system air conditioners available. Providing exceptional comfort, energy efficiency and reliability. They are highly regarded by building managers, business operators and HVAC engineers. The latest model VRF solutions boast a number of other tangible benefits too, including cost effectiveness and easier installation.

Thanks to significant advancements in HVAC technologies the LG Multi V VRF system is now able to offer unmatched performance capabilities along with reduced energy consumption. Nevertheless, LG continues to focus on further improving operational efficiency.

Through close observation, testing, analysis and extensive R&D, LG has been able to maximise operation efficiency. The results of this endeavor can clearly be seen in the company's finest achievement to date, new MULTI V [IV]. Going 'Beyond Your Standards,' the groundbreaking VRF system possesses all of the strengths without of the weaknesses in other VRF systems.

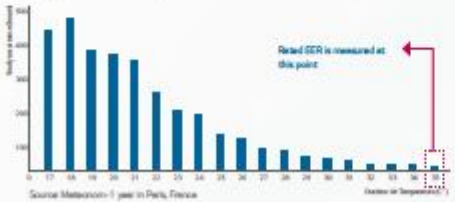
One of LG's firmly held beliefs is that in order to be the very best, one must offer the very best. Equipped with world-first technologies and offering performance, MULTI V [IV] has earned it's place among the very best VRF system the market.

The Rule of 20 In 2008, the EU announced its triple goal related to energy efficiency under the '20-20-20 Policy.' With a wide range of far-reaching policies, the EU aims to cut its dependence on primary energy sources by 20%, reduce CO_2 emissions by 20%, and also increase renewable energy production by 20% before 2020. To help lower electricity consumption by raising consumer awareness, all appliances released in the European market must display a label, which indicates the energy efficiency rating, annual energy consumption, and other energy-related information. In addition to helping consumers choose more efficient products, the labeling system encourages manufacturers to develop technologies, which require less energy to operate.

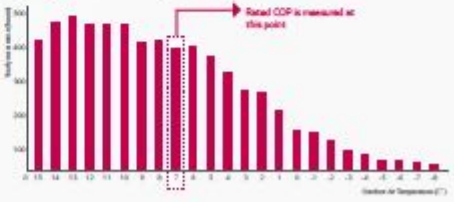
Importance of Seasonal Efficiency

As a measurement index, rated EER or rated COP is limited in value, as it only measures power input in comparison with power output and is tested under european conditions. However, seasonal efficiency, which is based on EUROVENT standards, provides a more realistic determination of performance. This system measures the ratio of cooling output to energy consumption over the course of a given season, taking varying temperatures into account for greater accuracy. One reason that VRF system is able to achieve a higher seasonal efficiency than conventional system is that it is more efficient in part load conditions. HVAC systems generally operate in part load 98% of the time, typically situated between 40-80% of maximum output. This is what has made improving part load efficiency such a high priority for the air conditioning industry.

Operating Hour for Cooling

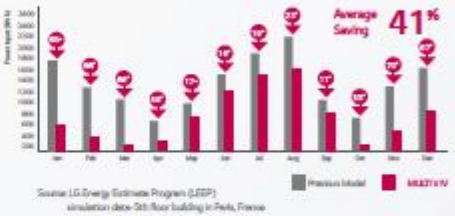


Operating Hour for Heating



World's First Class Seasonal Efficiency

MULTI V [IV] is up to 40% more efficient in part load conditions than previous model. The operational benefits of LG's MULTI V IV have been proven through rigorous testing. When connected with our wide variety of types and sizes of indoor units, MULTI V [IV] scored higher energy efficiency marks than conventional systems.



4th Generation MULTI V IV

The operational efficiency of VRF system is determined by its compressor, heat exchanger, oil and refrigerant technologies, sometimes referred to as the 'four key elements'. LG is dedicated to maximising the energy efficiency of its MULTI V solutions by locating and minimising 'hidden loss'. The result of heavy investment and extensive R&D, LGE's own technologies, including High Pressure Oil Return (HIPOR™), Active Refrigerant Control, Smart Oil Return and the Variable Heat Exchanger Circuit, maximises operating efficiency of the product and reduces the occurrence of energy loss.
The fourth generation inverter compressor which places MULTI V [IV] as the fourth generation LGE VRF system. And with breakthroughs in the four key areas of VRF technology, MULTI V [IV]. Providing more than just an impressive energy efficiency ratio, the integrated part-load efficiency or the innovative functions, MULTI V [IV] is not only entirely new but far superior to its predecessor, MULTI V III.

LG is proud to introduce to it's customers all around the world to its latest system air conditioning solution, MULTI V [IV]. This groundbreaking product is the embodiment of the company's consistent commitment to excellence and technological innovation.

LG HVAC SOLUTION

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004 MULTI V IV

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ECO V

076 **eco V**

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OUTDOOR UNITS

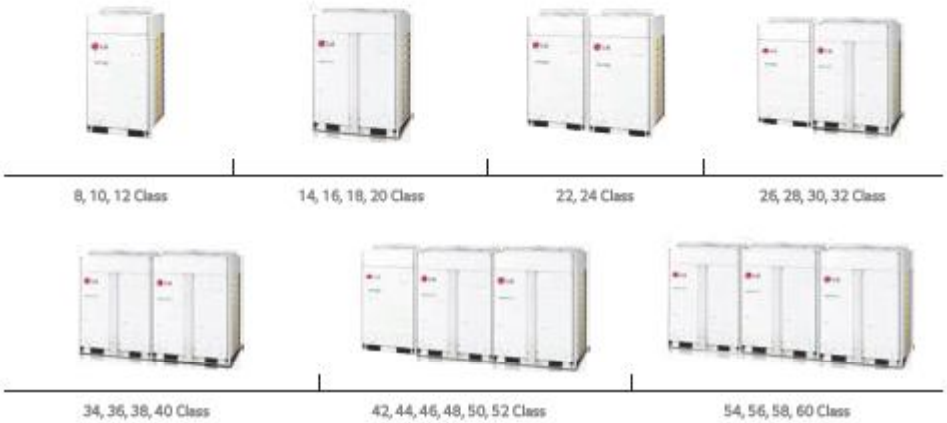
MULTI V series

MULTI V series offers outstanding energy savings, easy installation and connection to many different types of indoor units, making it easy to design.

MULTI V IV

OUTDOOR UNIT LINE UP

MULTI V IV HEAT PUMP / HEAT RECOVERY



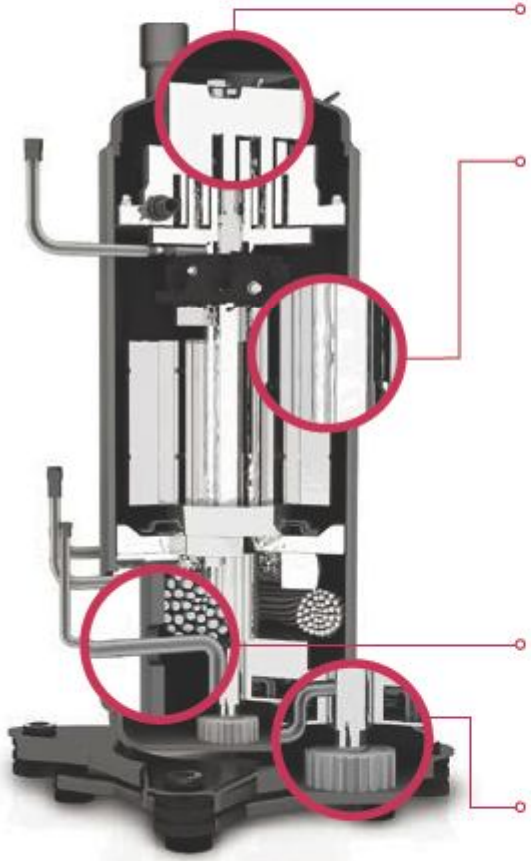
EXCEPTIONAL EFFICIENCY

HEAT PUMP SERIES

World's First Class, Rated and Part Load Efficiency

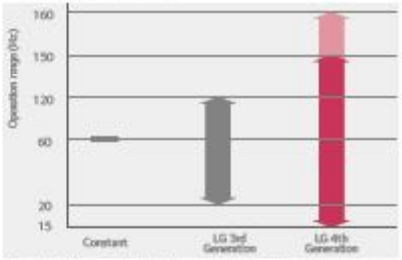
LG's 4th Generation Inverter Compressor

The new High-Side Shell (HSS) scroll inverter compressor and BLDC concentration motor coil optimizes part load efficiency, with the 50% reduction in weight and increase in high-frequency operation of 120Hz to 150Hz.



Vapor Injection

Extended Compressor Speed 150Hz
- Rapid operation response
- Capable of reaching required temperature quickly
- Increase part load efficiency



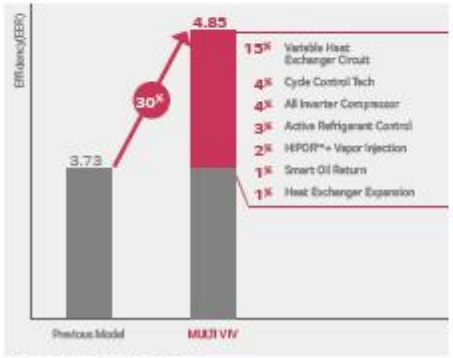
*Operation available up to 160 Hz dependent upon operating conditions

HiPOR™ (High Pressure Oil Return)

Smart Oil Return
- Oil level detection in real time
- Oil recovery occurs only when required
- Enhance user comfort by minimising temperature fluctuations.

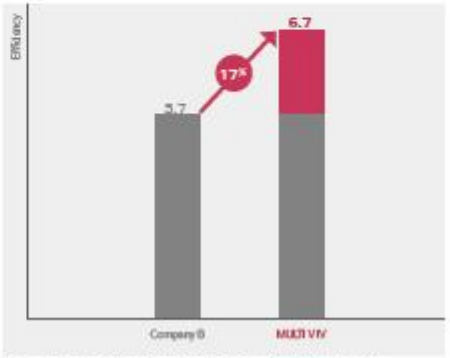
World's First Class, Rated and Part Load Efficiency

Rated Efficiency



* Comparison between 20HP in cooling mode

Part Load Efficiency



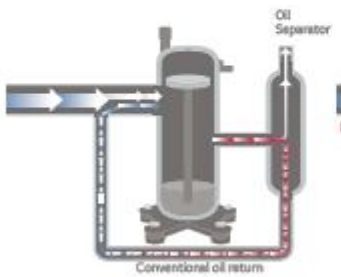
* Comparison between 20HP in cooling mode, part load efficiency based on internal test data

HiPOR™ (High Pressure Oil Return)

HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant circuit, minimising energy losses.

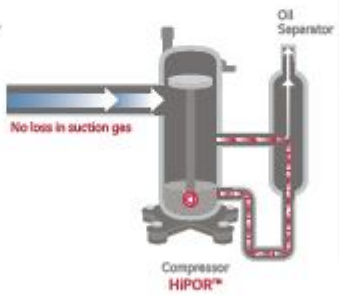
Conventional

Loss of low pressure refrigerant to the extent of the oil volume returned by the refrigerant pipe.



MULTI V IV

Maximizing reliability and efficiency of the compressor by reducing high pressure refrigerant loss.



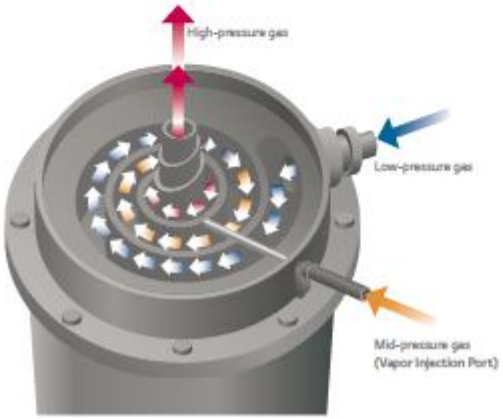
Efficiency Comparison

EXCEPTIONAL EFFICIENCY

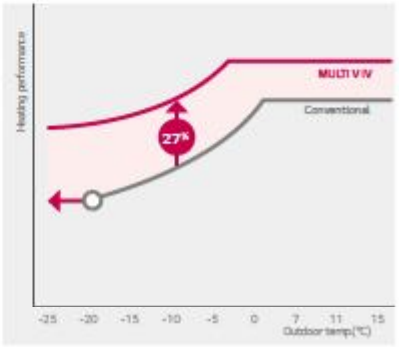
World's First Class, Rated and Part Load Efficiency

Vapor Injection

Vapor Injection uses a two-stage compression effect, which is designed to provide efficient heating in extremely cold environments. Combined with HiPOR™, this system boosts heating performance and enhances heating temperature range.



- Improved heating performance by 27%
- Minimum operating temperature lowered to -25°C

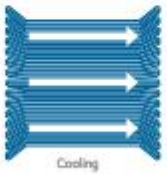


Variable Heat Exchanger Circuit

Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling.

Conventional

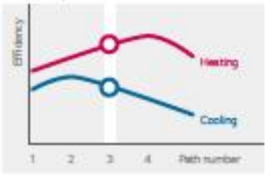
In conventional systems the number and direction of paths are fixed independent of temperature and operation mode. A fixed path limits efficiency.



MULTI V IV

In MULTI V [IV] variable Heat Exchanger Circuit adjusts the path number to match temperatures and operation modes, thereby contributing
to an increase in energy efficiency

Fixed paths
Compromises efficiency
for each operation



Variable heat exchange circuit
Maximizes efficiency
for all operations

Active Refrigerant Control

Active Refrigerant Control automatically controls the level of liquid refrigerant amount to maximise efficiency.

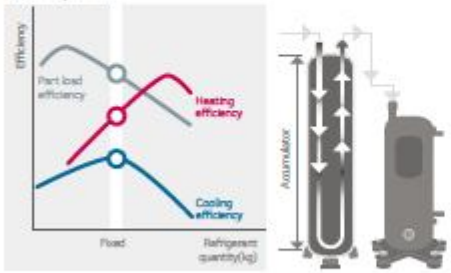
Conventional

Regardless of operation mode in a conventional VRF system a fixed amount of refrigerant is available which limits optimal efficiency of each modes operating.

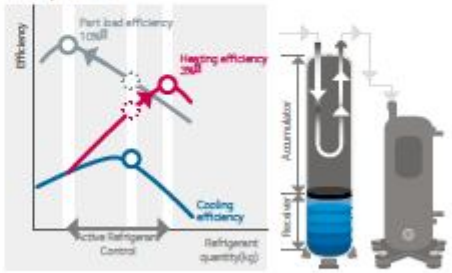
MULTI V IV

In MULTI V [IV] Active Refrigerant Control automatically monitors and adjusts the volume of circulating refrigerant for each cycle cooling or heating. This precise, five-step control leads to an improvement in energy efficiency, for cooling or heating whether port on full load operation.

Fixed refrigerant Volume
Compromises efficiency
for each operation



Maximizing efficiency
for all operations

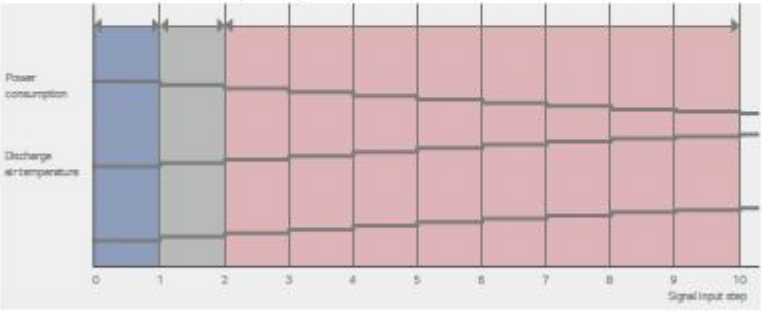


Flexible Capacity Control

It is possible for the Designer, Consultant or Buildings owner to control heating & cooling performance and save energy through outdoor capacity control.

- 5 Basic steps capacity control
- 10 steps control is possible with IO(Input & Output) module (option)
- Up to 40% input power reduction through energy saving operation

Demand control with IO module (In cooling mode)



* Reduction rate varies upon site conditions
** It will be available at the end of 2013
*** IO module also provides silent operation during night time, ODU/IDU alarm operation, error alarm and low ambient control

OUTSTANDING PERFORMANCE

On the Leading Edge of Innovation with Powerful Heating and Cooling Performance

Smart Oil Return

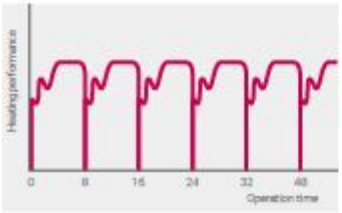
World first technology, which enhances system and compressor reliability, optimizes efficiency by checking compressor oil level with sensor in Real Time.

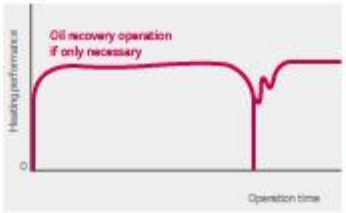
Conventional VRF

- Periodic oil recovery operation(every 8hr) is required as compressor oil level sensing technology is not present limiting continuous operation.
- During oil recovery operation, heating operation must be paused and total performance and operation is reduced. Noise caused by oil recovery operation

MULTI V [IV]

- Precise sensor monitors oil levels in Real Time performing recovery only when necessary
- An oil balancing and return algorithm works in tandem with the sensor to reduce power consumption, decrease energy wastage
- Oil recovery noise happens less often.





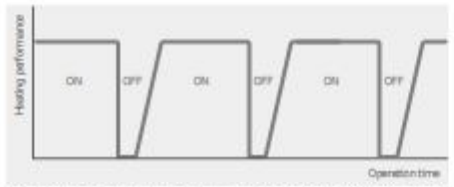
Oil Sensor
Measures the presence of oil in real-time

Continuous Heating Operation in Defrost

MULTI V [IV] uses the split-defrost technology for continuous heating operation, which provides consistent heating for the indoor environment to improve both heating capacity and indoor comfort.

Conventional VRF

Heating stops during defrosting operation.



MULTI V [IV]

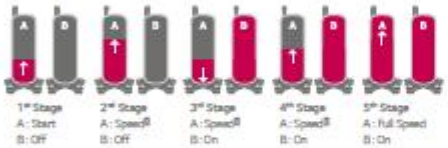
Continuous heating during part load defrosting operation.

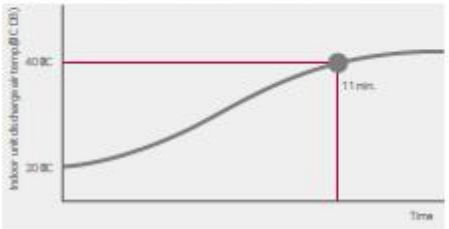
* Continuous heating operation can be switched to existing defrost mode depending on environmental conditions.

Faster Heating and Cooling via Advanced Inverter Technology

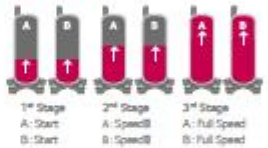
In conventional models, inverter compressor and on/off compressor operate one by one, which taking far longer to reach maximum capacity. Thanks to LG's all inverter compressor system and high performance cycle design, MULTI V [IV] delivers faster cooling or heating by operating two inverter compressors simultaneously.

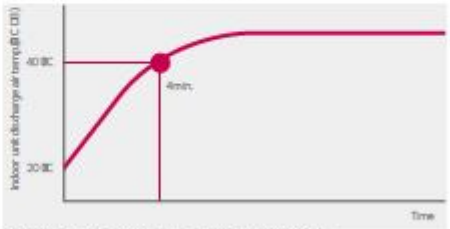
Conventional





MULTI V [IV]





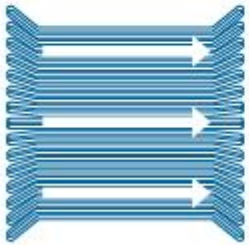
* Condition : Standard heating mode (Ambient air temp. 7℃, Indoor temp. 20℃)

Cooling Operation Range Down to –10°C

LG has expanded the MULTI V [IV] operating temperature range for continuous cooling from -5°C (23°F) to -10°C (14°F) to provide a better solution for zones that require four seasons cooling.

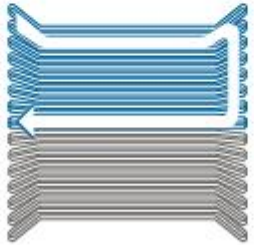
Conventional VRF

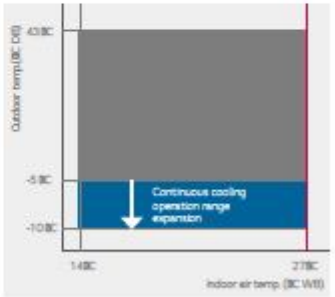
- Only allowed to use entire surface of heat exchanger which result into extremely low pressure
- Cooling operation range limited to -5C° and above



MULTI V [IV]

- Optimal low pressure by using part load surface of the heat exchanger
- Cooling operation range expanded to -10C°





MULTI V IV

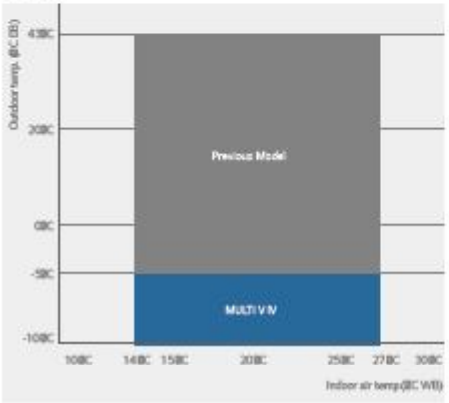
OUTSTANDING PERFORMANCE

On the Leading Edge of Innovation with Powerful Heating and Cooling Performance

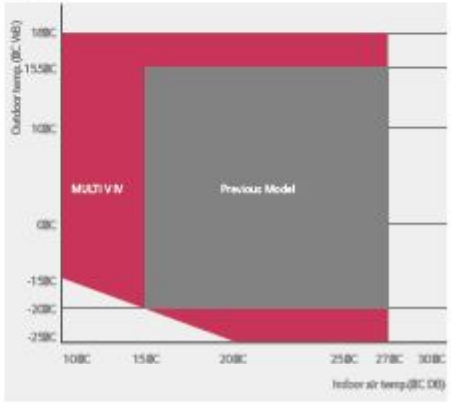
Wide Operation Range

MULTI V [IV] extended range of continuous cooling and heating operation through enhanced inverter compressor and control technology.

Cooling



Heating



Fan with Less Noise and Higher Air Volume

Cannon fan is applied with optimized shape of shroud, increasing air volume and decreasing noise level down to 4dB(A) compared to the previous value.

Cannon Fan

Minimized vortex and exfoliation provides high air volume, low noise level and high efficiency

8~12 Class

14~20 Class

❶ Sinusoidal leading edge
Low noise level with sinusoidal chord distribution (4dB(A) decreased)

❷ Grooved suction surface
Exfoliation of surface

❸ Tip vortex suppressor
Winglet technology applied for efficiency

DESIGN FLEXIBILITY

Easy Design with Convenient Features

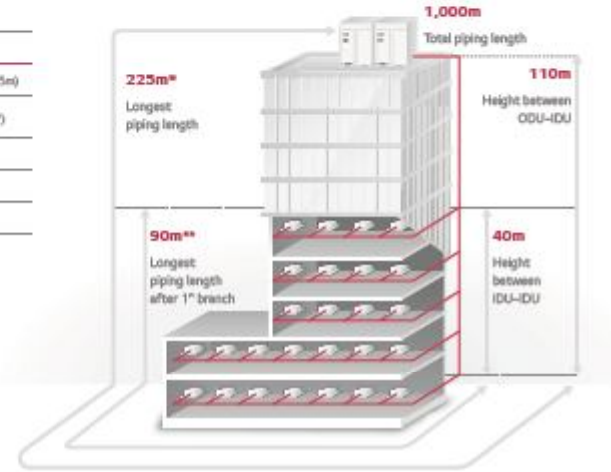
Expanded Piping Capabilities

MULTI V [IV] inverter technology and subcooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a high-rise building or complex facilities, reducing the designer's work time and providing more efficient design.

Total piping length	1,000m
Actual longest piping length** (Equivalent)	300m** (225m)
Longest piping length after 1st branch (Conditional application)	40m (90m**)
Height between ODU-IDU	110m
Height between IDU-IDU	40m
Height between ODU-ODU	5m

ODU: Outdoor unit
IDU: Indoor unit

** Conditional application. See product data book.



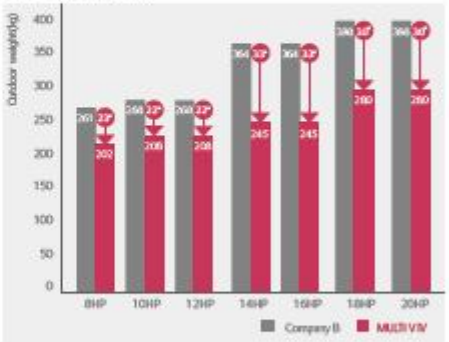
Light Weight Outdoor Units

30% lighter weight

- Less pressure on the roof
- Easier installation

Weight Comparison Table

- Less weight in all capacity



CYCLE &SERVICE OPTIMIZATION

Easy and Reliable, LG Introduces the Self-regulating Heating and Air Conditioning System.

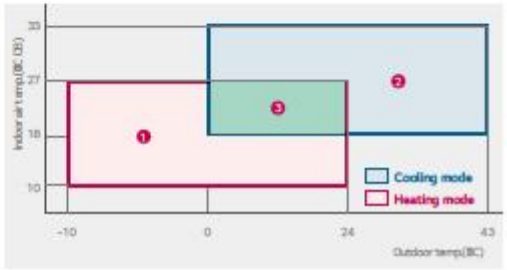
Upgraded FDD (Fault Detection & Diagnosis)

Newly upgraded FDD features provide the optimal solution for user reliability and easy maintenance.

- Start up time is reduced (60min ⇒ 45min)
- LGMV (LG Monitoring View) through a smartphone. See opposite.
- Piping & wiring error checking
- Auto start-up mode / reporting
- Black box function
- Simultaneous diagnosis
- Auto refrigerant quantity evaluation and charge
- Heating and cooling refrigerant quantity decision

New Refrigerant Quantity Decision Feature

LG MULTI V IV is the first VRF that has a Heating and Cooling mode start up function which permits whole year start up as well as refrigerant quantity evaluation

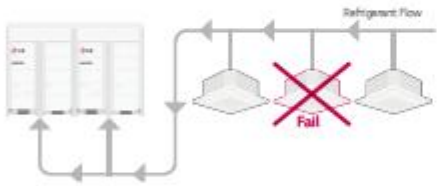


1. Refrigerant quantity evaluation during heating Operation
2. Refrigerant quantity evaluation during cooling Operation
3. Refrigerant quantity evaluation during cooling and heating Operation

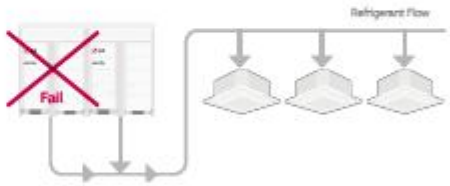
Auto Refrigerant Collection

In case of an indoor or outdoor unit replacement for service, refrigerant from entire system is transferred to the outdoor unit by pumping down and releasing back to the system by pumping out for ease of maintenance and service.

Pump down



Pump out



MULTI V IV

CYCLE &SERVICE OPTIMIZATION

Easy and Reliable, LG Introduces the Self-regulating Heating and Air Conditioning System.

Smartphone Monitoring & Control

Mobile LGMV (LG Monitoring View)

- Mobile LGMV helps technician to monitor and control the MULTI V IV system using Bluetooth connection. Technicians can check LGMV data 10m away from MULTI V IV outdoor with smartphone.

LG SAC(System Air-conditioning) Control App.

Central Controller (ACP (Advanced Control Platform) / AC Smart Premium) provides smartphone monitoring and control function for users. Group control is available via smartphone.

* Connection type : Bluetooth
To use Mobile LGMV application, exclusive Bluetooth module is required.

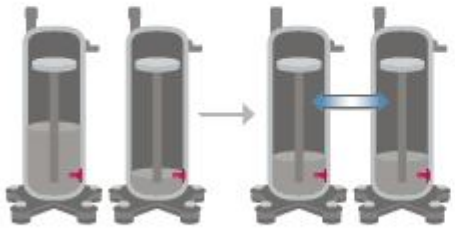
* Available from Oct 2013
Bluetooth module can be installed on the main board of the outdoor unit.

Smartphone specification			Effective communication distance of Bluetooth
Basic specification	Recommended specification	Exception	
- Android OS 2.2 - CPU 1 GHz - RAM 1 GB	- Android OS 4.0(ICS) or higher - CPU 1 GHz Dual Core or higher - RAM 1 GB or higher - 1280 x 720, 800 x 480 resolution (Optimized)	- Android OS 3.x (Honeycomb) - iPhone not supported	- Effective distance : 10m (Open Space) - Effective distance can be shortened based on the communication environment.

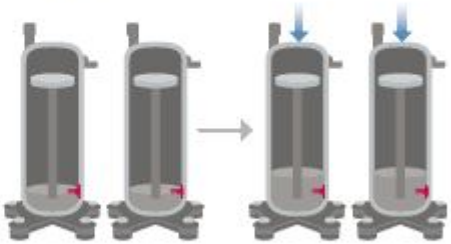
Auto Compressor Oil Management

Compressor reliability is improved with a oil level sensor that allows for oil balancing and oil return real time.

Auto Oil Balancing



Smart Oil Return



HEAT PUMP

Class					8	10	12
Model					ARUN080LTE4	ARUN100LTE4	ARUN120LTE4
Capacity	Cooling			kW	22.4	28.0	33.6
	Heating			kW	25.2	31.5	37.8
Low Temperature Capacity	Heating -7℃		Max	kW	25.2	31.5	37.8
Power Input	Cooling			kW	4.38	5.38	6.85
	Heating			kW	4.58	5.49	7.00
Low Temperature Power Input	Heating -7℃		Max	kW	6.54	9.13	11.52
COP	Cooling				5.11	5.20	4.91
	Heating				5.50	5.74	4.85
ESEER					7.90	7.56	7.48
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				1	1	1
Fan	Type				Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m³/min	210	210	210
				l/s	3500	3500	3500
Sound Pressure			Max	dBA	58.5	59	59
Sound Power			Max	dBA	78.0	79.0	79.0
Dimensions			W×H×D	mm	(920 × 1,680 × 760) × 1	(920 × 1,680 × 760) × 1	(920 × 1,680 × 760) × 1
Net Weight				kg	202 × 1	208 × 1	208 × 1
Refrigerant	Type				R410A	R410A	R410A
	Charge			kg	7.5	7.5	7.5
	Control				EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	2,400	2,600	2,600
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.×mm²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Piping Length	Total		Max	m	1,000	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110
	IDU-IDU		Max	m	40	40	40
Piping Connection	Liquid			mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)
	Gas			mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1-1/8)
Number of Outdoor Units					1	1	1
Number of Connectable Indoor Units ***			Max		13(20)	16(25)	20(30)
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT PUMP

Class					14	16	18	20
Model					ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN200LTE4
Capacity	Cooling			kW	39.2	44.8	50.4	56.0
	Heating			kW	44.1	50.4	56.7	63.0
Low Temperature Capacity	Heating -7℃		Max	kW	44.1	50.4	56.7	63.0
Power Input	Cooling			kW	8.48	10.42	9.85	11.54
	Heating			kW	9.60	11.40	11.25	13.36
Low Temperature Power Input	Heating -7℃		Max	kW	12.83	15.07	16.41	17.53
COP	Cooling				4.62	4.30	5.12	4.85
	Heating				4.59	4.42	5.04	4.72
ESEER					7.37	7.27	7.17	6.78
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				1	1	2	2
Fan	Type				Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m³/min	290	290	290	290
				l/s	4833	4833	4833	4833
Sound Pressure			Max	dBA	59	59	59.5	59.5
Sound Power			Max	dBA	79.0	79.0	79.5	79.5
Dimensions			W×H×D	mm	(1,240 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 1	(1,240 × 1,680 × 760)× 1	(1,240 × 1,680 × 760)× 1
Net Weight				kg	245 × 1	245 × 1	280 × 1	280× 1
Refrigerant	Type				R410A	R410A	R410A	R410A
	Charge			kg	10.5	10.5	10.5	10.5
	Control				EEV	EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	2,600	2,600	3,600	3,600
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.×mm²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Piping Length	Total		Max	m	1000	1000	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110	110
	IDU-IDU		Max	m	40	40	40	40
Piping Connection	Liquid			mm(inch)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)
	Gas			mm(inch)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
Number of Outdoor Units					1	1	1	1
Number of Connectable Indoor Units ***			Max		23(35)	26(40)	29(45)	32(50)
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 200%	50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT PUMP

Class					22	24
Model	Combination unit				ARUN220LTE4	ARUN240LTE4
	Independent unit				ARUN120LTE4	ARUN120LTE4
					ARUN100LTE4	ARUN120LTE4
Capacity	Cooling			kW	61.6	67.2
	Heating			kW	69.3	75.6
Low Temperature Capacity	Heating -7℃		Max	kW	69.3	75.6
Power Input	Cooling			kW	12.23	13.70
	Heating			kW	13.29	15.60
Low Temperature Power Input	Heating -7℃		Max	kW	20.65	23.04
COP	Cooling				5.04	4.91
	Heating				5.21	4.85
ESEER					7.51	7.48
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 15℃	-25℃ ~ 18℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				2	2
Fan	Type				Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m^3/min	210 x 2	210 x 2
				l/s	3500 x 2	3500 x 2
Sound Pressure			Max	dBA	62	62
Sound Power			Max	dBA	82.0	82.0
Dimensions			W×H×D	mm	(920 x 1,680 x 760) x 2	(920 x 1,680 x 760) x 2
Net Weight				kg	208 x 2	208 x 2
Refrigerant	Type				R410A	R410A
	Charge			kg	7.5 x 2	7.5 x 2
	Control				EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	5,200	5,200
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.xmm²	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Piping Length	Total		Max	m	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110
	IDU-IDU		Max	m	40	40
Piping Connection	Liquid			mm(inch)	15.88(5/8)	15.88(5/8)
	Gas			mm(inch)	28.58(1-1/8)	34.9(1-3/8)
Number of Outdoor Units					2	2
Number of Connectable Indoor Units ***			Max		35(44)	39(48)
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 160%	50 ~ 160%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT PUMP

Class					26	28	30	32
Model	Combination unit				ARUN260LTE4	ARUN280LTE4	ARUN300LTE4	ARUN320LTE4
	Independent unit				ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN200LTE4
					ARUN120LTE4	ARUN120LTE4	ARUN120LTE4	ARUN120LTE4
Capacity	Cooling			kW	72.8	78.4	84.0	89.6
	Heating			kW	81.9	88.2	94.5	100.8
Low Temperature Capacity	Heating -7℃		Max	kW	81.9	88.2	94.5	100.8
Power Input	Cooling			kW	15.33	17.27	16.70	18.39
	Heating			kW	17.40	19.20	19.05	21.16
Low Temperature Power Input	Heating -7℃		Max	kW	24.35	26.59	27.93	29.05
COP	Cooling				4.75	4.56	5.03	4.87
	Heating				4.71	4.59	4.96	4.76
ESEER					7.43	7.38	7.33	7.13
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 15℃	-25℃ ~ 15℃	-25℃ ~ 15℃	-25℃ ~ 15℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				2	2	3	3
Fan	Type				Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m^3/min	290 + 210	290 + 210	290 + 210	290 + 210
				l/s	4833 + 3500	4833 + 3500	4833 + 3500	4833 + 3500
Sound Pressure			Max	dBA	62	62	62.3	62.3
Sound Power			Max	dBA	82.0	82.0	82.3	82.3
Dimensions			W×H×D	mm	(1,240x1,680x760)x1 +(930x1,680x760)x1	(1,240x1,680x760)x1 +(930x1,680x760)x1	(1,240x1,680x760)x1+ (930x1,680x760)x1	(1,240x1,680x760)x1+ (930x1,680x760)x1
Net Weight				kg	245 x 1 + 208 x 1	245 x 1 + 208 x 1	280 x 1 + 208 x 1	280 x 1 + 208 x 1
Refrigerant	Type				R410A	R410A	R410A	R410A
	Charge			kg	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5
	Control				EEV	EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	5,200	5,200	6,200	6,200
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.xmm²	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Piping Length	Total		Max	m	1000	1000	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110	110
	IDU-IDU		Max	m	40	40	40	40
Piping Connection	Liquid			mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas			mm(inch)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
Number of Outdoor Units					2	2	2	2
Number of Connectable Indoor Units ***			Max		42(52)	45(56)	49(60)	52(64)
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 160%	50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT PUMP

Class					34	36	38	40
Model	Combination unit				ARUN340LTE4	ARUN360LTE4	ARUN380LTE4	ARUN400LTE4
	Independent unit				ARUN200LTE4	ARUN200LTE4	ARUN180LTE4	ARUN200LTE4
					ARUN140LTE4	ARUN160LTE4	ARUN200LTE4	ARUN200LTE4
Capacity	Cooling			kW	95.2	100.8	106.4	112
	Heating			kW	107.1	113.4	119.7	126
Low Temperature Capacity	Heating -7℃		Max	kW	107.1	113.4	119.7	126
Power Input	Cooling			kW	20.02	21.96	21.39	23.08
	Heating			kW	22.96	24.76	24.61	26.72
Low Temperature Power Input	Heating -7℃		Max	kW	30.36	32.60	33.94	35.06
COP	Cooling				4.76	4.59	4.97	4.85
	Heating				4.66	4.58	4.86	4.72
ESEER					7.08	7.03	6.98	6.78
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				3	3	4	4
Fan	Type				Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m³/min	290 x 2	290 x 2	290 x 2	290 x 2
				l/s	4833 x 2	4833 x 2	4833 x 2	4833 x 2
Sound Pressure			Max	dBA	62.3	62.3	62.5	62.5
Sound Power			Max	dBA	82.3	82.3	82.5	82.5
Dimensions			W×H×D	mm	(1,240×1,680×760)×2	(1,240×1,680×760)×2	(1,240×1,680×760)×2	(1,240×1,680×760)×2
Net Weight				kg	280 × 1 + 245 × 1	280 × 1 + 245 × 1	280 × 2	280 × 2
Refrigerant	Type				R410A	R410A	R410A	R410A
	Charge			kg	10.5 × 2	10.5 × 2	10.5 × 2	10.5 × 2
	Control				EEV	EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	6,200	6,200	6,200	6,200
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.×mm²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Piping Length	Total		Max	m	1000	1000	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110	110
	IDU-IDU		Max	m	40	40	40	40
Piping Connection	Liquid			mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas			mm(inch)	34.9(1-3/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Number of Outdoor Units					2	2	2	2
Number of Connectable Indoor Units ***			Max		55(64)	58(64)	61(64)	64
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 160%	50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT PUMP

Class					42	44	46
Model	Combination unit				ARUN420LTE4	ARUN440LTE4	ARUN460LTE4
	Independent unit				ARUN180LTE4	ARUN200LTE4	ARUN200LTE4
					ARUN140LTE4	ARUN140LTE4	ARUN160LTE4
					ARUN100LTE4	ARUN100LTE4	ARUN100LTE4
Capacity	Cooling			kW	117.6	123.2	128.8
	Heating			kW	132.3	138.6	144.9
Low Temperature Capacity	Heating -7℃		Max	kW	132.3	138.6	144.9
Power Input	Cooling			kW	23.71	25.40	27.36
	Heating			kW	26.34	28.45	30.25
Low Temperature Power Input	Heating -7℃		Max	kW	38.37	39.49	41.73
COP	Cooling				4.96	4.85	4.71
	Heating				5.02	4.87	4.79
ESEER					7.36	7.23	7.20
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				4	4	4
Fan	Type				Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
				l/s	4000 x 2 + 3500	4000 x 2 + 3500	4000 x 2 + 3500
Sound Pressure			Max	dBA	63.9	63.9	63.9
Sound Power			Max	dBA	83.9	83.9	83.9
Dimensions			W×H×D	mm	(1,240×1,680×760)×2 + (930×1,680×760)×1	(1,240×1,680×760)×2 + (930×1,680×760)×1	(1,240×1,680×760)×2 + (930×1,680×760)×1
Net Weight				kg	280×1+245×1+208×1	280×1+245×1+208×1	280×1+245×1+208×1
Refrigerant	Type				R410A	R410A	R410A
	Charge			kg	(10.5 × 2) + 7.5	(10.5 × 2) + 7.5	(10.5 × 2) + 7.5
	Control				EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	8,800	8,800	8,800
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.×mm²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Piping Length	Total		Max	m	1000	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110
	IDU-IDU		Max	m	40	40	40
Piping Connection	Liquid			mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas			mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Number of Outdoor Units					3	3	3
Number of Connectable Indoor Units ***			Max		64	64	64
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT PUMP

Class					48	50	52
Model	Combination unit				ARUN480LTE4	ARUN500LTE4	ARUN520LTE4
	Independent unit				ARUN200LTE4	ARUN200LTE4	ARUN200LTE4
					ARUN180LTE4	ARUN200LTE4	ARUN200LTE4
					ARUN100LTE4	ARUN100LTE4	ARUN120LTE4
Capacity	Cooling			kW	134.4	140.0	145.6
	Heating			kW	151.2	157.5	163.8
Low Temperature Capacity	Heating -7°C		Max	kW	151.2	157.5	163.8
Power Input	Cooling			kW	26.77	28.46	29.93
	Heating			kW	30.10	32.21	34.52
Low Temperature Power Input	Heating -7°C		Max	kW	43.07	44.19	46.58
COP	Cooling				5.02	4.92	4.86
	Heating				5.02	4.89	4.75
ESEER					7.16	7.03	7.01
Operation Range	Cooling		Min-Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
	Heating		Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				5	5	5
Fan	Type				Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m^3/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
				l/s	4833 x 2 + 3500	4833 x 2 + 3500	4833 x 2 + 3500
Sound Pressure			Max	dBA	64.1	64.1	64.1
Sound Power			Max	dBA	84.1	84.1	84.1
Dimensions			W×H×D	mm	(1,340×1,680×760)x2 + (930×1,680×760)x1	(1,340×1,680×760)x2 + (930×1,680×760)x1	(1,340×1,680×760)x2 + (930×1,680×760)x1
Net Weight				kg	280 x 2 + 208 x 1	280 x 2 + 208 x 1	280 x 2 + 208 x 1
Refrigerant	Type				R410A	R410A	R410A
	Charge			kg	(10.5 x 2) + 7.5	(10.5 x 2) + 7.5	(10.5 x 2) + 7.5
	Control				EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	9,800	9,800	9,800
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.×mm²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Piping Length	Total		Max	m	1000	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110
	IDU-IDU		Max	m	40	40	40
Piping Connection	Liquid			mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas			mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Number of Outdoor Units					3	3	3
Number of Connectable Indoor Units ***			Max		64	64	64
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT PUMP

Class					54	56	58	60
Model	Combination unit				ARUN540LTE4	ARUN560LTE4	ARUN580LTE4	ARUN600LTE4
	Independent unit				ARUN200LTE4	ARUN200LTE4	ARUN200LTE4	ARUN200LTE4
					ARUN200LTE4	ARUN200LTE4	ARUN200LTE4	ARUN200LTE4
					ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN200LTE4
Capacity	Cooling			kW	151.2	156.8	162.4	168.0
	Heating			kW	170.1	176.4	182.7	189.0
Low Temperature Capacity	Heating -7°C		Max	kW	170.1	176.4	182.7	189.0
Power Input	Cooling			kW	31.56	33.50	32.93	34.62
	Heating			kW	36.32	38.12	37.97	40.08
Low Temperature Power Input	Heating -7°C		Max	kW	47.89	50.13	51.47	52.59
COP	Cooling				4.79	4.68	4.93	4.85
	Heating				4.68	4.63	4.61	4.72
ESEER					6.98	6.94	6.91	6.78
Operation Range	Cooling		Min-Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
	Heating		Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				5	5	5	5
Fan	Type				Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m^3/min	290 x 3	290 x 3	290 x 3	290 x 3
				l/s	4833 x 3	4833 x 3	4833 x 3	4833 x 3
Sound Pressure			Max	dBA	64.1	64.1	64.3	64.3
Sound Power			Max	dBA	84.1	84.1	84.3	84.3
Dimensions			W×H×D	mm	(1,340×1,680×760)x3	(1,340×1,680×760)x3	(1,340×1,680×760)x3	(1,340×1,680×760)x3
Net Weight				kg	280 x2 + 245 x 1	280 x 2 + 245 x 1	280 x 3	280 x 3
Refrigerant	Type				R410A	R410A	R410A	R410A
	Charge			kg	10.5 x 3	10.5 x 3	10.5 x 3	10.5 x 3
	Control				EEV	EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	9,800	9,800	10,800	10,800
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.×mm²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Piping Length	Total		Max	m	1000	1000	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110	110
	IDU-IDU		Max	m	40	40	40	40
Piping Connection	Liquid			mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas			mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Number of Outdoor Units					3	3	3	3
Number of Connectable Indoor Units ***			Max		64	64	64	64
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

* ( ) : equivalent length
** Conditional Application
To make 40~90m of pipe length after first branch refer to the part of "Installation of outdoor units." in PDB
*** ( ) : the number of max. connectable outdoor units, for max indoor unit combination ratio (refer to the table below)

Note :

1. Capacities are based on the following conditions

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

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

2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. EEV : Electronic Expansion Valve
5. If SEER calculation corresponds with below conditions and power input of indoor units is not included.
   - Indoor temperature: 27°C(80.6°F) DB / 19°C(66.2°F) WB
   - Outdoor temperature conditions

Part Load Ratio	Outdoor Air Temp(°C(°F))DB)	Weighting Coefficients
100%	35(95)	0.03
75%	30(86)	0.33
50%	25(77)	0.41
25%	20(68)	0.23

- Formula : $0.03 \times EER_{100\%} + 0.33 \times EER_{75\%} + 0.41 \times EER_{50\%} + 0.23 \times EER_{25\%}$

CAUTION

- A combination operation over 100% cause to reduce each indoor unit capacity
- Combination ratio(50~200%)

No. of outdoor unit	Connection Capacity
Single unit	200%
Double unit	160%
Triple unit	130%

We can guarantee the capacity of the system only within 130% Combination. In combinations greater than 130% connection ratio system capacity will be diversified.
If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.
2) Over 130%, capacity is same as capacity of 130%. Same remark is valid for power input.

HIGH EFFICIENCY

World's First Class, Rated and Part Load Efficiency

Synchronized Heating and Cooling

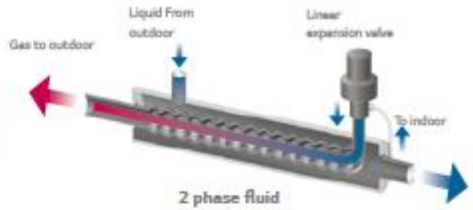
It's possible to reach COP up to 8.2 (Under condition to 40% of cooling and 60% of heating) in ideal conditions.
- Energy consumption can be decreased by 30%

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

High Efficiency Heat Recovery Unit

- High efficient double spiral tube type SCI circuit
- Maximum 8 indoor units connectable per a branch
- Easy installation with auto piping detect function
- Access allowed to internal parts for Service.
- Up to 16 kW

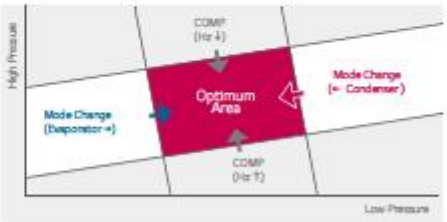
Double spiral tube heat exchanger



Advanced Mode Change (AMC)

AMC control provides an optimal cycle operation under any conditions.
Through this mode, system cycles can be more stable and maintain comfort for the user.

- Real time pressure control
- Optimal cycle in optimum area
- Minimise settling time after switching mode : MAX 5 min.



MULTI V IV

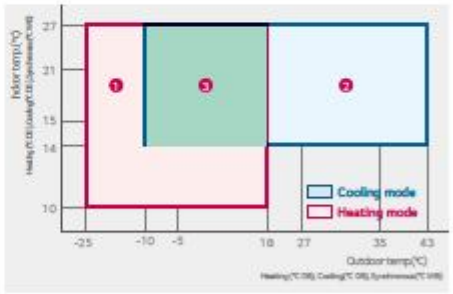
OUTSTANDING PERFORMANCE

Leading Edge of Innovation that includes Powerful Heating and Cooling Performance

Wide Operation Range

Low temperature operation range is expanded through condenser with various control.

- Heating mode : - 25°C WB ~ 18°C WB
- Cooling mode : - 10°C DB ~ 43°C DB
- Synchronous mode : -10°C WB ~ 16°C WB



1. Heating
2. Cooling
3. Synchronous Operation Area

Auto Changeover

Auto Changeover function operates cooling and heating to maintain optimal room temperature and increase energy savings.

Note: This function can only be made with the use of the AC Smart Premium controller, PQCSW421E0A.

Continuous Heating Operation

Improved continuous heating operation for Double, Triple and 4 outdoor unit system, defrost is performed by alternate outdoor units.
- Integrated heating capacity : 17% up

Heating mode oil return
- Continuous heating and oil return during heating mode

Conventional

MULTI V IV Heat Recovery

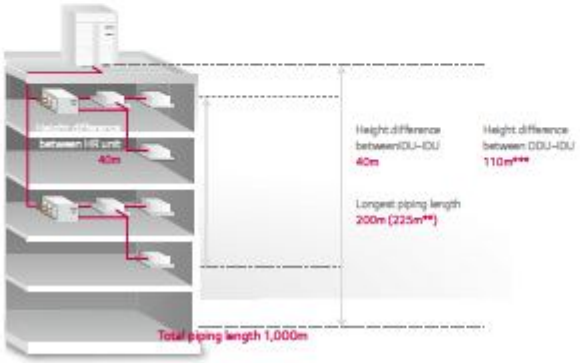
* Existing mode can be operated automatically depending on the condition of application.

DESIGN FLEXIBILITY

Easy Design with Convenient Features

Long Piping Length

As MULTI V [IV] uses inverter control technology and sub-cooling control circuit technology, it is possible to design a system with longer piping lengths and world-class elevation difference.



Total piping length	1,000m
Actual longest piping length** (Equivalent)	200m(225m*)
Longest piping length after 1st branch (Conditional application)	40m (90m**)
Height difference between ODU-IDU	110m
Height difference between IDU-IDU	40m
Height difference between ODU-ODU	5m
Height difference between IDU-HR unit	15m
Height difference between HR unit	40m

* Equivalent
** Conditional application
*** For outdoor unit above or below indoor units

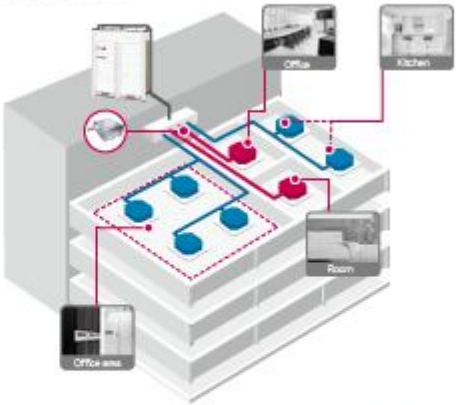
Convenient Free Zoning

MULTI V [IV] Heat recovery provides flexible control over individual zones for the user's convenience.

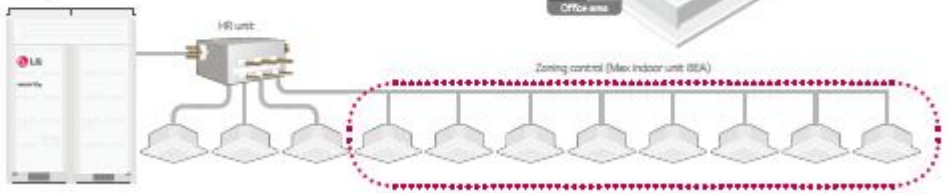
Individual Control
- Individual control over the spaces where ventilation is needed

Zone Control
- Max. of 8 indoor units can be connected on one branch
- Max. of 32 indoor units can be connected to one HR unit
- Same operational model can be operated by indoor units with zone control function installed

Combination of Individual and Zoning Installations
- Flexible piping design
- Saves on product and installation Costs



Zoning control



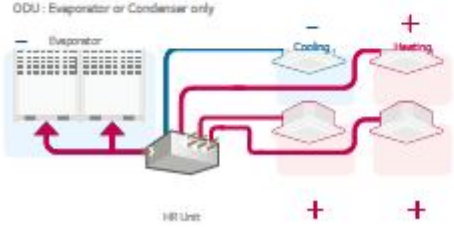
Simultaneous Operations of Outdoor Units

The outdoor units' heat exchanger can be operated for cooling and heating simultaneously.

- Linear loading response
- Increased efficiency with simultaneous operation
- Minimised switch mode(continuous cooling and heating)

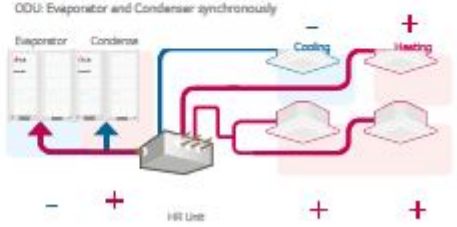
Conventional

ODU : Evaporator or Condenser only



MULTI V IV Heat Recovery

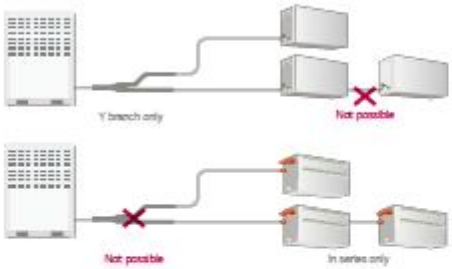
ODU: Evaporator and Condenser synchronously



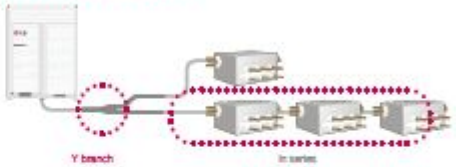
Flexible Connection of HR Unit

MULTI V [IV] heat recovery system allows flexible connection both in series and in a row.

Conventional



MULTI V IV Heat Recovery



HEAT RECOVERY

Class					8	10	12
Model					ARUB080LTE4	ARUB100LTE4	ARUB120LTE4
Capacity	Cooling			kW	22.4	28.0	33.6
	Heating			kW	25.2	31.5	37.8
Low Temperature Capacity	Heating -7°C		Max	kW	25.2	31.5	37.8
Power Input	Cooling			kW	4.38	5.38	6.85
	Heating			kW	4.58	5.49	7.80
Low Temperature Power Input	Heating -7°C		Max	kW	6.54	9.13	11.52
COP	Cooling				5.11	5.20	4.91
	Heating				5.50	5.74	4.85
Operation Range	Cooling		Min-Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
	Heating		Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				1	1	1
Fan	Type				Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m³/min	210	210	210
				l/s	3500	3500	3500
Sound Pressure			Max	dBA	58.5	59.0	59.0
Sound Power			Max	dBA	78.0	79.0	79.0
Dimensions			WxHxD	mm	(920 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1
Net Weight				kg	202 x 1	208 x 1	208 x 1
Refrigerant	Type				R410A	R410A	R410A
	Charge			kg	7.5	7.5	7.5
	Control				EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	2,400	2,600	2,600
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.xmm²	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Piping Length	Total		Max	m	1,000	1,000	1,000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110
	IDU-IDU		Max	m	40	40	40
Piping Connection	Liquid			mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)
	Low Pressure Gas			mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1-1/8)
	High Pressure Gas			mm(inch)	15.88(5/8)	19.05(3/4)	19.05(3/4)
Number of Outdoor Units					1	1	1
Number of Connectable Indoor Units ***			Max		13(20)	16(25)	20(30)
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT RECOVERY

Class				14	16	18	20
Model				ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
Capacity	Cooling		kW	39.2	44.8	50.4	56.0
	Heating		kW	44.1	50.4	56.7	63.0
Low Temperature Capacity	Heating -7℃	Max	kW	44.1	50.4	56.7	63.0
Power Input	Cooling		kW	8.48	10.42	9.85	11.54
	Heating		kW	9.60	11.40	11.25	13.36
Low Temperature Power Input	Heating -7℃	Max	kW	12.83	15.07	16.41	17.53
COP	Cooling			4.62	4.30	5.12	4.85
	Heating			4.59	4.42	5.04	4.72
Operation Range	Cooling	Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	2	2
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)	Max	m^3/min	290	290	290	290
			l/s	4833	4833	4833	4833
Sound Pressure		Max	dBA	59.0	59.0	59.5	59.5
Sound Power		Max	dBA	79.0	79.0	79.5	79.5
Dimensions		W×H×D	mm	(1,240×1,680×760)×1	(1,240×1,680×760)×1	(1,240×1,680×760)×1	(1,240×1,680×760)×1
Net Weight			kg	245×1	245×1	280×1	280×1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	10.5	10.5	10.5	10.5
	Control			EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity		cc	2,600	2,600	3,600	3,600
Power Supply			ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)			No.×mm^2	2C×1.0~1.5	2C×1.0~1.5	2C×1.0~1.5	2C×1.0~1.5
Piping Length	Total	Max	m	1,000	1,000	1,000	1,000
	Actual Longest Piping Length *	Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **	Max	m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	110	110	110	110
	IDU-IDU	Max	m	40	40	40	40
Piping Connection	Liquid		mm(inch)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)
	Low Pressure Gas		mm(inch)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
	High Pressure Gas		mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
Number of Outdoor Units				1	1	1	1
Number of Connectable Indoor Units ***		Max		23(35)	26(40)	29(45)	32(50)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 200%	50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT RECOVERY

Class				22	24
Model	Combination unit			ARUB220LTE4	ARUB240LTE4
	Independent unit			ARUB100LTE4	ARUB120LTE4
				ARUB120LTE4	ARUB120LTE4
Capacity	Cooling		kW	61.6	67.2
	Heating		kW	69.3	75.6
Low Temperature Capacity	Heating -7℃	Max	kW	69.3	75.6
Power Input	Cooling		kW	12.23	13.70
	Heating		kW	13.29	15.60
Low Temperature Power Input	Heating -7℃	Max	kW	20.65	23.04
COP	Cooling			5.04	4.91
	Heating			5.21	4.85
Operation Range	Cooling	Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)	Max	m^3/min	210×2	210×2
			l/s	3500×2	3500×2
Sound Pressure		Max	dBA	62.0	62.0
Sound Power		Max	dBA	82.0	82.0
Dimensions		W×H×D	mm	(920×1,680×760)×2	(920×1,680×760)×2
Net Weight			kg	208×2	208×2
Refrigerant	Type			R410A	R410A
	Charge		kg	7.5×2	7.5×2
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Capacity		cc	5,200	5,200
Power Supply			ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)			No.×mm^2	2C×1.0~1.5	2C×1.0~1.5
Piping Length	Total	Max	m	1,000	1,000
	Actual Longest Piping Length *	Max	m	200(225)	200(225)
	After 1st Y branch **	Max	m	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	110	110
	IDU-IDU	Max	m	40	40
Piping Connection	Liquid		mm(inch)	15.88(5/8)	15.88(5/8)
	Low Pressure Gas		mm(inch)	34.9(1-3/8)	34.9(1-3/8)
	High Pressure Gas		mm(inch)	28.58(1-1/8)	28.58(1-1/8)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units ***		Max		35(44)	39(48)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT RECOVERY

Class					26	28	30	32
Model	Combination unit				ARUB260LTE4	ARUB280LTE4	ARUB300LTE4	ARUB320LTE4
	Independent unit				ARUB120LTE4	ARUB120LTE4	ARUB120LTE4	ARUB120LTE4
					ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
Capacity	Cooling			kW	72.8	78.4	84.0	89.6
	Heating			kW	81.9	88.2	94.5	100.8
Low Temperature Capacity	Heating -7℃		Max	kW	81.9	88.2	94.5	100.8
Power Input	Cooling			kW	15.33	17.27	16.70	18.39
	Heating			kW	17.40	19.20	19.05	21.16
Low Temperature Power Input	Heating -7℃		Max	kW	24.35	26.59	27.93	29.05
COP	Cooling				4.75	4.54	5.03	4.87
	Heating				4.71	4.59	4.96	4.76
ESEER					-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
Operation Range	Cooling		Min-Max	℃ DB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
	Heating		Min-Max	℃ WB	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Type				2	2	3	3
	Number of Compressor				Propeller fan	Propeller fan	Propeller fan	Propeller fan
Fan	Type				DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Motor Type				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
	Max static pressure				290 + 210	290 + 210	290 + 210	290 + 210
Airflow Rate	Air Flow Rate(High)		Max	m³/min	290 + 210	290 + 210	290 + 210	290 x 2
				l/s	4833 + 3500	4833 + 3500	4833 + 3500	4833 x 2
Sound Pressure			Max	dBA	73.0	73.0	73.3	73.3
Sound Power			Max	dBA	82.0	82.0	82.3	82.3
Dimensions			W×H×D	mm	(1,240×1,680×765)x1 + (920x1,680×765)x1	(1,240×1,680×765)x1 + (920x1,680×765)x1	(1,240×1,680×765)x1 + (920x1,680×765)x1	(1,240×1,680×765)x1 + (920x1,680×765)x1
Net Weight				kg	R410A	R410A	R410A	R410A
Refrigerant	Type				10.5 + 7.5	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5
	Charge			kg	EEV	EEV	EEV	EEV
	Control				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Refrigerant Oil	Type				5,200	5,200	6,200	6,200
	Capacity			cc	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Power Supply				ø/V/Hz	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Transmission Cable (VCTF-SB)				No.×mm²	1,000	1,000	1,000	1,000
Piping Length	Total		Max	m	200(225)	200(225)	200(225)	200(225)
	Actual Longest Piping Length *		Max	m	40(90)	40(90)	40(90)	40(90)
	After 1st Y branch **		Max	m	110	110	110	110
Piping Level Difference	IDU-ODU		Max	m	40	40	40	40
	IDU-IDU		Max	m	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
Piping Connection	Liquid			mm(inch)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
	Gas			mm(inch)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
Number of Outdoor Units					2	2	2	2
Number of Connectable Indoor Units ***			Max		42(52)	45(56)	49(60)	52(64)
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 160%	50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT RECOVERY

Class					34	36	38	40
Model	Combination unit				ARUB340LTE4	ARUB360LTE4	ARUB380LTE4	ARUB400LTE4
	Independent unit				ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
					ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling			kW	95.2	100.8	112	112
	Heating			kW	107.1	113.4	126	126
Low Temperature Capacity	Heating -7℃		Max	kW	107.1	113.4	126	126
Power Input	Cooling			kW	20.02	21.96	23.08	23.08
	Heating			kW	22.96	24.76	26.72	26.72
Low Temperature Power Input	Heating -7℃		Max	kW	30.36	32.60	35.06	35.06
COP	Cooling				4.76	4.59	4.85	4.85
	Heating				4.66	4.58	4.72	4.72
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				3	3	4	4
Fan	Type				Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m³/min	290 x 2	290 x 2	290 x 2	290 x 2
				l/s	4833 x 2	4833 x 2	4833 x 2	4833 x 2
Sound Pressure			Max	dBA	62.3	62.3	62.5	62.5
Sound Power			Max	dBA	82.3	82.3	82.5	82.5
Dimensions			W×H×D	mm	(1,240×1,680×765) x 2	(1,240×1,680×765)x 2	(1,240×1,680×765)x 2	(1,240×1,680×765)x 2
Net Weight				kg	280 x 1 + 245 x 1	280 x 1 + 245 x 1	280 x 2	280 x 2
Refrigerant	Type				R410A	R410A	R410A	R410A
	Charge			kg	10.5 x 2	10.5 x 2	10.5 x 2	10.5 x 2
	Control				EEV	EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	6,200	6,200	6,200	6,200
Power Supply				ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.×mm²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Piping Length	Total		Max	m	1,000	1,000	1000	1000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110	110
	IDU-IDU		Max	m	40	40	40	40
Piping Connection	Liquid			mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas			mm(inch)	34.9(1-3/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
	High Pressure Gas			mm(inch)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
Number of Outdoor Units					2	2	2	2
Number of Connectable Indoor Units ***			Max		55(64)	58(64)	61(64)	64
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 160%	50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT RECOVERY

Class					42	44	46
Model	Combination unit				ARUB420LTE4	ARUB440LTE4	ARUB460LTE4
	Independent unit				ARUB100LTE4	ARUB100LTE4	ARUB100LTE4
					ARUB140LTE4	ARUB140LTE4	ARUB160LTE4
					ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling			kW	17.6	123.2	128.8
	Heating			kW	132.3	138.6	144.9
Low Temperature Capacity	Heating -7℃		Max	kW	132.3	138.6	144.9
Power Input	Cooling			kW	23.71	25.40	27.34
	Heating			kW	26.34	28.45	30.25
Low Temperature Power Input	Heating -7℃		Max	kW	38.37	39.49	41.73
COP	Cooling				0.74	4.85	4.71
	Heating				5.02	4.87	4.79
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				4	4	4
Fan	Type				Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
				l/s	4000 x 2 + 3500	4000 x 2 + 3500	4000 x 2 + 3500
Sound Pressure			Max	dBA	63.9	63.9	63.9
Sound Power			Max	dBA	83.9	83.9	83.9
Dimensions			WxHxD	mm	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240x1,680x760)x2 + (920x1,680x760)x1
Net Weight				kg	280 x 1 + 245 x 1 + 208 x 1	280 x 1 + 245 x 1 + 208 x 1	280 x 1 + 245 x 1 + 208 x 1
Refrigerant	Type				R410A	R410A	R410A
	Charge			kg	(10.5 x 2) + 7.5	(10.5 x 2) + 7.5	(10.5 x 2) + 7.5
	Control				EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	8,800	8,800	8,800
Power Supply				ø/W/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.xmm²	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Piping Length	Total		Max	m	1,000	1,000	1,000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110
	IDU-IDU		Max	m	40	40	40
Piping Connection	Liquid			mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas			mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
	High Pressure Gas			mm(inch)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
Number of Outdoor Units					3	3	3
Number of Connectable Indoor Units ***			Max		64	64	64
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT RECOVERY

Class					48	50	52
Model	Combination unit				ARUB480LTE4	ARUB500LTE4	ARUB520LTE4
	Independent unit				ARUB100LTE4	ARUB100LTE4	ARUB120LTE4
					ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
					ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling			kW	134.4	140.0	145.6
	Heating			kW	151.2	157.5	163.8
Low Temperature Capacity	Heating -7℃		Max	kW	151.2	157.5	163.8
Power Input	Cooling			kW	26.77	28.46	29.93
	Heating			kW	30.10	32.21	34.52
Low Temperature Power Input	Heating -7℃		Max	kW	43.07	44.19	46.58
COP	Cooling				5.02	4.92	4.86
	Heating				5.02	4.89	4.75
Operation Range	Cooling		Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating		Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				5	5	5
Fan	Type				Propeller fan	Propeller fan	Propeller fan
	Motor Type				DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure				8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Air Flow Rate(High)		Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
				l/s	4000 x 2 + 3500	4000 x 2 + 3500	4000 x 2 + 3500
Sound Pressure			Max	dBA	64.1	64.1	64.1
Sound Power			Max	dBA	84.1	84.1	84.1
Dimensions			WxHxD	mm	(1,240x1,680x760)x2 + (920x1,680x760)x1	(1,240x1,680x760)x2 + (920x1,680x760)x1	(1,240x1,680x760)x2 + (920x1,680x760)x1
Net Weight				kg	280 x 2 + 208 x 1	280 x 2 + 208 x 1	280 x 2 + 208 x 1
Refrigerant	Type				R410A	R410A	R410A
	Charge			kg	(10.5 x 2) + 7.5	(10.5 x 2) + 7.5	(10.5 x 2) + 7.5
	Control				EEV	EEV	EEV
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity			cc	9,800	9,800	9,800
Power Supply				ø/W/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)				No.xmm²	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Piping Length	Total		Max	m	1,000	1,000	1,000
	Actual Longest Piping Length *		Max	m	200(225)	200(225)	200(225)
	After 1st Y branch **		Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU		Max	m	110	110	110
	IDU-IDU		Max	m	40	40	40
Piping Connection	Liquid			mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas			mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
	High Pressure Gas			mm(inch)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
Number of Outdoor Units					3	3	3
Number of Connectable Indoor Units ***			Max		64	64	64
Ratio of the Connectable Indoor Units			Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat exchanger	Type				Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

HEAT RECOVERY

Class				34	36	38	40
Model	Combination unit			ARUB340LTE4	ARUB360LTE4	ARUB380LTE4	ARUB400LTE5
	Independent unit			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling		kW	151.2	156.8	162.4	168.0
	Heating		kW	170.1	176.4	182.7	189.0
Low Temperature Capacity	Heating -7℃	Max	kW	170.1	176.4	182.7	189.0
Power Input	Cooling		kW	31.56	33.50	32.93	34.62
	Heating		kW	36.32	38.12	37.97	40.06
Low Temperature Power Input	Heating -7℃	Max	kW	47.89	50.13	51.47	52.59
COP	Cooling			4.79	4.68	4.93	4.85
	Heating			4.68	4.63	4.81	4.72
Operation Range	Cooling	Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			5	5	5	5
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			0mmAq(0Pa)	0mmAq(0Pa)	0mmAq(0Pa)	0mmAq(0Pa)
Airflow Rate	Air Flow Rate(High)	Max	m³/min	280 x 3	280 x 3	280 x 3	280 x 3
			l/s	4833 x 3	4833 x 3	4833 x 3	4833 x 3
Sound Pressure		Max	dBA	64.1	64.1	64.3	64.3
Sound Power		Max	dBA	84.1	84.1	84.3	84.3
Dimensions		WxHxD	mm	(1,340 x 1,680 x 765)x 3	(1,340 x 1,680 x 765)x 3	(1,340 x 1,680 x 765)x 3	(1,340 x 1,680 x 765) x 3
Net Weight			kg	280 x 2 + 245 x 1	280 x 2 + 245 x 1	280 x 3	280 x 3
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	10.5 x 3	10.5 x 3	10.5 x 3	10.5 x 3
	Control			EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Capacity		cc	9,800	9,800	10,800	10,800
Power Supply			ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)			No x mm²	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Piping Length	Total	Max	m	1,000	1,000	1,000	1,000
	Actual Longest Piping Length *	Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st 'Y' branch **	Max	m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	110	110	110	110
	IDU-IDU	Max	m	40	40	40	40
Piping Connection	Liquid		mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas		mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
	High Pressure Gas		mm(inch)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
Number of Outdoor Units				3	3	3	3
Number of Connectable Indoor Units ***		Max		64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin	Wide Louver Plus Fin

* ( ) : equivalent length
** Conditional Application
To make 40~90m of pipe length after first branch refer to the part of "Installation of outdoor units" in PDB
*** ( ) : the number of max. connectable outdoor units, for max indoor unit combination ratio (refer to the table below)

Note :

1. Capacities are based on the following conditions

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

Heating - Indoor temp. 20℃(68℉)DB / 15℃(59℉)WB
Outdoor temp. 7℃(44.6℉)DB / 6℃(42.8℉)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. EEV : Electronic Expansion Valve

CAUTION

- A combination operation over 100% cause to reduce each indoor unit capacity
- Combination ratio(50~200%)

No. of outdoor unit	Conversion Capacity
Single unit	100%
Double unit	140%
Triple unit	130%

We can guarantee the capacity of the system only within 130% Combination. In combinations greater than 130% connection ratio system capacity will be diversified.
If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.
2) Over 130%, capacity is same as capacity of 130%, Same remark is valid for power input.

INDOOR UNIT

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

042 **Wall Mounted**

045 **Ceiling Concealed Ducts**

046 **Ceiling Cassettes**

048 **Ceiling & Floor / Ceiling Suspended**

049 **Floor Standing**

050 **Fresh Air Intake Unit**

MULTI V™

INDOOR UNIT LINE UP

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

		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.2	10.6	12.3	14.1	16.0	18.0	20.0	22.4	28.0
		Btu / h	5k	7k	9k	12k	15k	18k	24k	28k	36k	42k	48k	54k	62k	68k	76k	96k
SRAC	Wall Mounted			■	■	■	■	■	■									
	Gallery			■	■	■												
	Mirror			■	■	■	■	■	■									
Ceiling Cassette	4 Way Cassette (570x570)		■	■	■	■	■	■										
	4 Way Cassette (840x840)								■	■	■	■	■					
	2 Way Cassette							■	■									
	1 Way Cassette			■	■	■		■	■									
Ceiling Concealed Duct	Low Static		■	■	■	■	■	■	■									
	Built-in			■	■	■	■	■	■									
	High Static			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Ceiling & Floor					■	■												
Ceiling Suspended								■	■		■		■					
Floor Standing	With Case			■	■	■	■	■	■									
	Without Case			■	■	■	■	■	■									
Frech AirIntake Unit													■				■	■
Eco V II							■	■	■	■	■	■	■	■				

WALL MOUNTED

Gallery / Panel / Mirror

Aesthetic Design

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

How to Change the Picture

Mirror

Mirror
07/09/12/15GSER2
18/24GSBR2

Silver
07/09/12/15GSEV2
18/24GSBV2

Panel Type

Silver
07/09/12GSFV2

Gold
07/09/12GSFG2

Red
07/09/12GSFE2

White silver
07/09/12GSFH2

Digital Air Flow Control

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

Normal

Fast, wide and even

Jet cool

Speedy and powerful

Sleep mode

Indirect and low noise

WALL MOUNTED

Gallery / Panel / Mirror

Low Noise Level*

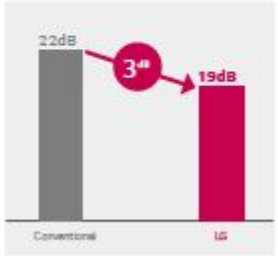
The indoor unit operates quietly in sleep mode for peace and quiet for in bedroom or office. For example, LG model ARNU09GSBL2, ARNU12GSBL2 in sleep mode is only 19dB. In addition, the outdoor units have reduced vibration and noise thanks to a super quiet fan and motor.

Conventional Fan

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

Skew Fan

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

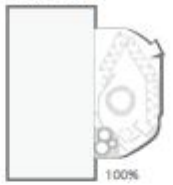


*In heating mode and oil recovery mode some refrigent noise may occationally be noticable.

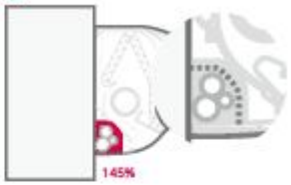
Wider Piping Space

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

Conventional

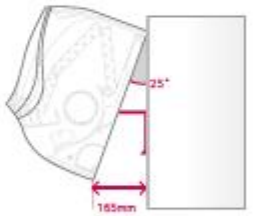


LG



Installation Support Clip

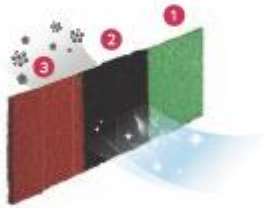
A support clip creates adequate space between the wall and the unit for easier installation.



WALL MOUNTED

Triple filter

Removes chemical particles and other odour emanating from different sources including tobacco.



1. **VOC filter**
   removes odour and hazardous VOCs that are discharged from household materials made out of chemical substances (carpet, paint, cleaners, furniture, etc.)
   (VOC= Volatile Organic Chemical)
2. **Formaldehyde filter**
   blocks formaldehyde.
3. **Common odour filter**
   removes ordinary odours.

Plasmaster Filter

Tiny dust particles are burnt and eliminated when captured by the electric field. The plasma air purifying system can reduce microscopic contaminants and dust. This filter removes house mites, micro dust, and pet fur.

How it works

NCB Filter

Nano-size carbon filters catch fine odourous particles doubly and completely, and removes odours from the household, thus offering a pleasant environment.

What is a NCB(Nano Carbon Ball) Filter?
Nano Carbon Ball consists of a vast system of pores of Ultra Nano size. These pores are highly adsorbent, forming a strong chemical bond / attraction to odourous gaseous, and liquid contaminant. Nano carbon, was used for the first time in the world as a deodourizing material.

Pre Filter

The pre filter enables easier cleaning of the air conditioner unit.

Easy to Open

Ez-Detachable Grille : The simple bottom to top cover makes cleaning of the air conditioner a lot easier.

Easy to Clean

Ez-Cleaning Filter : The filter is designed for easier handling and cleaning which thus enables longer use.

Auto Cleaning with odour prevention

The Odour Prevention function reduces unwanted odours and mould build up on the heat exchanger.

Drying

By reducing humidity and bacteria left in the air conditioner, the Odour Prevention function removes substances that might be harmful to human body.

Deodorizing

The indoor environment remains odourless with the advanced deodourizing function.

High Performing

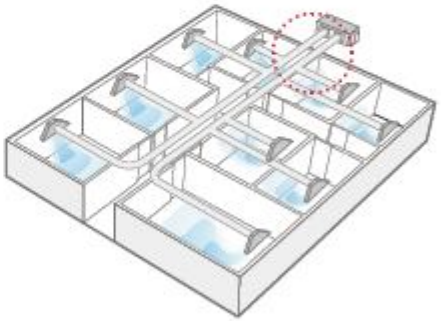
By preventing the pollution of the heat exchanger by various germs and bacteria, the cooling performance and longevity of the air conditioner is maintained.

MULTI V™

CEILING CONCEALED DUCT

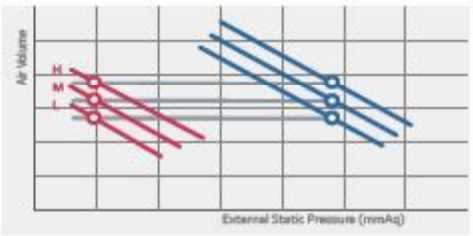
Operation for Multiple Rooms

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



E.S.P. Control

The BLDC motor and low noise fan means that air volume can be easily controlled by using the wired remote controller.
The BLDC motor can control the fan speed and air volume regardless of the external static pressure(E.S.P.)
With E.S.P control no additional accessories are needed to adjust the air flow and the energy consumption of the fan is also reduced.

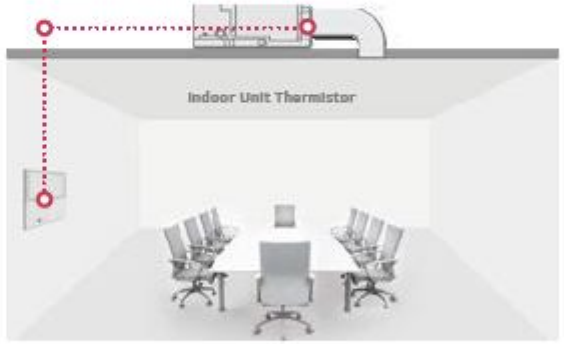


Two Thermistors Control

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

Remote Controller Thermistor

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



INDOOR UNIT

MULTI V™

CEILING CASSETTE

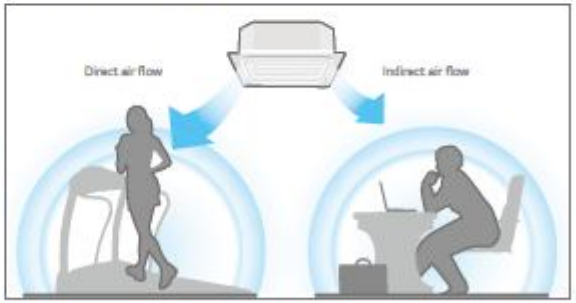
Independent Vane Control

It is possible to control each of the 4 vanes individually as the motors are connected separately to each vane.

All vane operation

Individual vane angle control

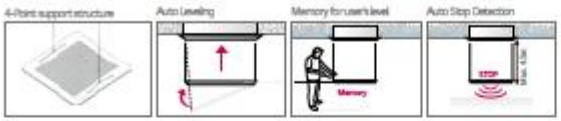
Independent Vane Control



Auto Elevation Grille

Easy filter cleaning with elevation grill

- Installation inside main body
- 4 points support structure
- Max 4.5m length
- Auto horizontal control
- Memory for user's level
- Model : PTEGM0



High Ceiling Mode

High ceiling mode provides powerful cooling and heating up to 4.2m in height, from ceiling to floor.

Reduced Height

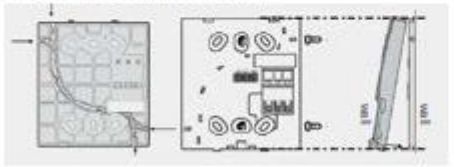
The indoor unit with slim and compact dimensions has reduced the restriction which enables successful installation in various spaces.

	6.0~7.2 kW	8.3~11.0 kW
conventional	218mm	288mm
LG	204mm	246mm

Flexible Connection

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

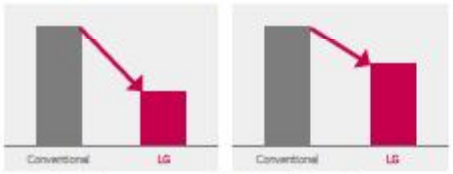
Easy & solid attachment to the wall



Swirl Swing

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

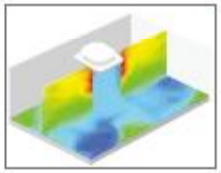
Comparison of temperatures



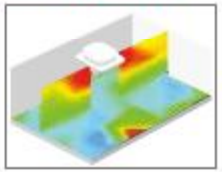
Vertical Temp. differences

Horizontal Temp. differences

Normal air flow



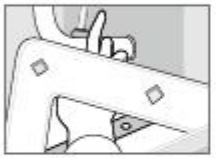
Swirl swing (pleasant air)



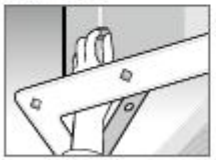
Convenient Panel Installation

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

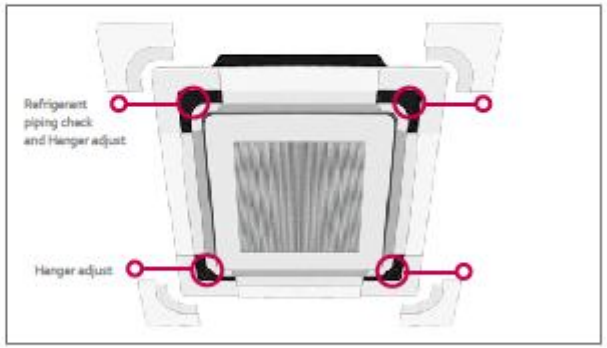
Drain leakage check



Hangar adjust



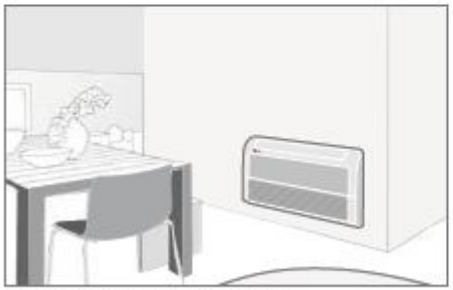
Detachable Corner Design



CEILING & FLOOR
CEILING SUSPENDED

Flexible Installation

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



* Ceiling & Floor : ARNU09GVEA2, ARNU12GVEA2

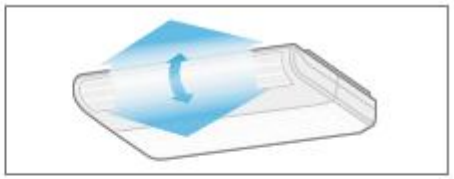
Airflow Direction Control

Horizontal Airflow Direction Control

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

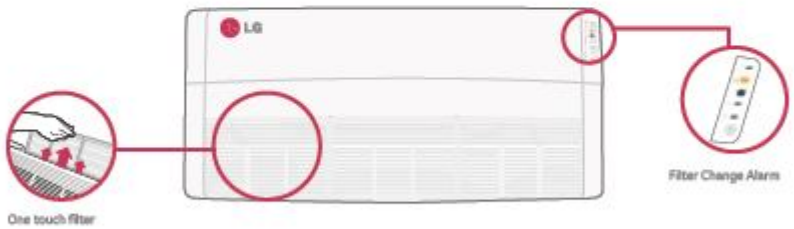
Vertical Airflow Direction Control

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



One Touch Filter

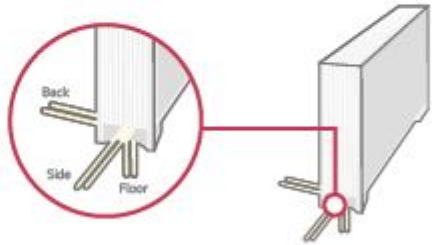
The filter change alarm informs you when the unit has been operating for 2,400 hours. It is very easy to clean or change the filter.



FLOOR STANDING

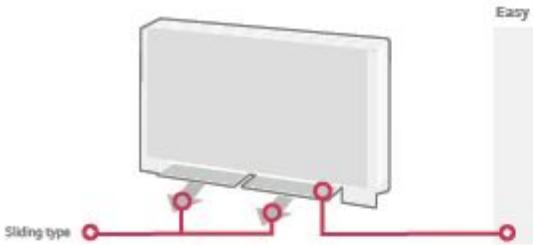
3 way Flexible Installation

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

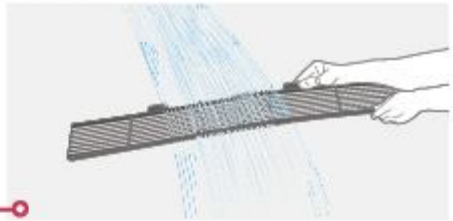


Sliding Type Filter

Easy maintenance and extended product life with sliding type filter



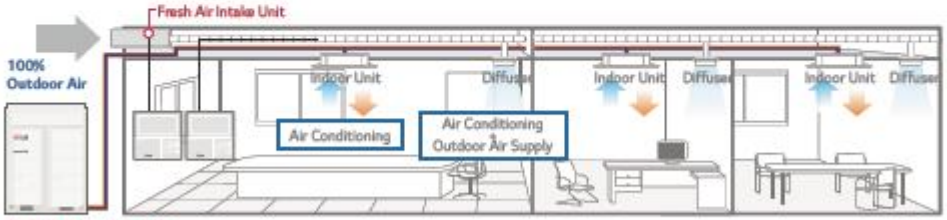
Easy cleaning



FRESH AIR INTAKE UNIT

Fresh Air Supply

The MULTI V™ Fresh Air Unit (FAU) is the alternative solution for ventilation, which supplies the fresh air indoors as well as being able to cool and heat air. It means the indoor space can have positive air pressure consistently.



MULTI V IV Outdoor unit

Economic Operation

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

Spring Season

MULTI V IV Outdoor unit

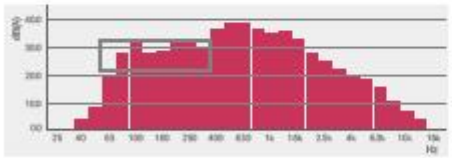
Autumn Season

MULTI V IV Outdoor unit

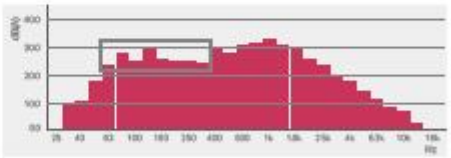
BLDC Fan Motor

BLDC Fan Motor reduces noise at low frequency operation as well as give infinate control of fan speed, air quality and ESP.

AC Tap Motor



BLDC motor



Fresh Air Intake Unit

ARNU48GBRZ2 ARNU76GB8Z2 ARNU96GB8Z2

ARNU48GBRZ2

ARNU76GB8Z2

ARNU96GB8Z2

Model				ARNU48GBRZ2	ARNU76GB8Z2	ARNU96GB8Z2
Capacity	Cooling		kW	14.1	22.4	28.0
	Heating		kW	13.5	21.4	26.7
Power Input	Cooling		W	169	230	360
	Heating		W	169	230	360
Power Supply			ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate (High mode)	H/M/L		m³/min	18.8/14.7/14.7	23.7/13.2/13.2	35.7/23.7/23.7
			l/s	131 / 245 / 245	395 / 220 / 220	595 / 395 / 395
External Static Pressure	High Mode - Factory Set		mmAq(Pa)	10(0.7)	22(0.86)	22(0.86)
High Mode - Factory Set		H/M/L	dBA	44 / 42 / 42	49 / 47 / 47	50 / 48 / 48
Dimensions	Body	WxHxD	mm	1,230 x 300 x 590	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg(lbs)	45(99)	73(161)	73(161)
Piping Connection	Liquid		mm(inch)	9.53(3/8)	9.53(3/8)	9.53(3/8)
	Gas		mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Drain	I.D.	mm(inch)	25(31/32)	25(31/32)	25(31/32)
Fan motor output x Number			W	195 x 1	375 x 1	375 x 1

Notes:
1. Capacities are based on the following conditions:
   Cooling: Outdoor temp. 32°C(91.4°F)DB / 28°C(82.4°F)WB
   IDU-ODU Piping Length : 7.5m
   Level Difference of Zero
   Heating: Outdoor temp. 0°C(32°F)DB / -2.9°C(26.78°F)WB
   Interconnecting Piping Length : 7.5m
   Level Difference of Zero
2. Capacities are net capacities.
3. Noise Level is under standard mode(For actual High Mode(Factory set) condition, Noise Level may exceed the standard level by 1.5dB(A))
4. Due to our policy of innovation some specifications may be changed without prior notification.

Installation Scene

Caution

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

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

Wired Remote Controller
Standard Type

PQRCVSL0QW

ARNU07GSF*2 ARNU09GSF*2 ARNU12GSF*2

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

Model				ARNU07GSF*2	ARNU09GSF*2	ARNU12GSF*2
Capacity	Cooling		kW	2.2	2.8	3.6
	Heating		kW	2.5	3.2	4.0
Power Input	Cooling		W	35	35	35
	Heating		W	35	35	35
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m³/min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
			l/s	135 / 105 / 70	135 / 105 / 70	155 / 128 / 100
Sound Pressure		H/M/L	dBA	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Dimensions	Body	WxHxD	mm	600 x 600 x 146	600 x 600 x 146	600 x 600 x 146
Net Weight			kg(lbs)	15(33.1)	15(33.1)	15(33.1)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drain	I.D.	mm(inch)	12.2(15/32)	12.2(15/32)	12.2(15/32)

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU07GSF*2	ARNU09GSF*2	ARNU12GSF*2
Dry Contact	Without Case (1 Contact Point)	PQDSA		
	With Case (1 Contact Point)	PQDSB / PQDSB1		
	With Case (2 Contact Point)	PQDSBC		

Wired Remote Controller			Wireless Remote Controller
Standard Type	Simple Type	Simple Type for Hotel	
			
PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

ARNU07GSE*2 ARNU09GSE*2 ARNU12GSE*2 ARNU15GSE*2
ARNU18GSB*2 ARNU24GSB*2

- R : Mirror
- V : Silver

Model				ARNU07GSE*2	ARNU09GSE*2	ARNU12GSE*2	ARNU15GSE*2	ARNU18GSB*2	ARNU24GSB*2
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling		W	40	40	40	40	35	35
	Heating		W	40	40	40	40	35	35
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m³/min	7.0 / 6.0 / 4.0	8.0 / 7.0 / 5.0	10.0 / 8.0 / 6.0	10.5 / 8.0 / 6.0	14.4 / 13.0 / 11.0	17.9 / 14.4 / 12.0
			l/s	117 / 100 / 67	133 / 117 / 83	167 / 133 / 100	175 / 133 / 100	240 / 217 / 183	298 / 240 / 200
Sound Pressure		H/M/L	dBA	37 / 33 / 29	39 / 35 / 29	41 / 36 / 27	42 / 36 / 27	37 / 34 / 31	43 / 37 / 32
Dimensions	Body	WxHxD	mm	915 x 282 x 165	915 x 282 x 165	915 x 282 x 165	915 x 282 x 165	1,107 x 299 x 200	1,107 x 299 x 200
Net Weight			kg(lbs)	11.2(24.7)	11.2(24.7)	11.2(24.7)	11.2(24.7)	15(33.1)	15(33.1)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)
	Drain	I.D.	mm(inch)	16(5/8)	16(5/8)	16(5/8)	16(5/8)	16(5/8)	16(5/8)

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU07GSE*2	ARNU09GSE*2	ARNU12GSE*2	ARNU15GSE*2	ARNU18GSB*2	ARNU24GSB*2
Dry Contact	Without Case (1 Contact Point)	PQDSA					
	With Case (1 Contact Point)	PQDSB / PQDSB1					
	With Case (2 Contact Point)	PQDSBC					

Wired Remote Controller			Wireless Remote Controller
Standard Type	Simple Type	Simple Type for Hotel	
			
PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Model				ARNU07GSBL2	ARNU09GSBL2	ARNU12GSBL2	ARNU15GSBL2
Capacity	Cooling		kW	2.2	2.8	3.6	4.5
	Heating		kW	2.5	3.2	4.0	5.0
Power Input	Cooling		W	21.0	21.0	21.0	21.0
	Heating		W	21.0	21.0	21.0	21.0
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m^3/min	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
			l/s	117 / 108 / 92	137 / 117 / 92	158 / 137 / 108	175 / 150 / 117
Sound Pressure		H/M/L	dBA	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	40 / 36 / 32
Dimensions	Body	WxHxD	mm	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215
Net Weight			kg(lbs)	10.0 (22.0)	10.0 (22.0)	10.0 (22.0)	10.0 (22.0)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drain	I.D.	mm(inch)	16(5/8)	16(5/8)	16(5/8)	16(5/8)

Note: 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU07GSBL2	ARNU09GSBL2	ARNU12GSBL2	ARNU15GSBL2
Dry Contact	Without Case (1 Contact Point)	PQDSA			
	With Case (1 Contact Point)	PQDSB / PQDSB1			
	With Case (2 Contact Point)	PQDSBC			

Wired Remote Controller			Wireless Remote Controller
Standard Type	Simple Type	Simple Type for Hotel	
			
PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FD0

Model				ARNU18GSCL2	ARNU24GSCL2
Capacity	Cooling		kW	5.6	7.1
	Heating		kW	6.3	8.0
Power Input	Cooling		W	39.5	39.5
	Heating		W	39.5	39.5
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m^3/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
			l/s	208 / 200 / 188	233 / 212 / 192
Sound Pressure		H/M/L	dBA	38 / 35 / 33	43 / 39 / 35
Dimensions	Body	WxHxD	mm	1,030 × 325 × 255	1,030 × 325 × 255
Net Weight			kg(lbs)	14.0 (30.9)	14.0 (30.9)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	15.88(5/8)
	Drain	I.D.	mm(inch)	16(5/8)	16(5/8)

Note: 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU18GSCL2	ARNU24GSCL2
Dry Contact	Without Case (1 Contact Point)	PQDSA	
	With Case (1 Contact Point)	PQDSB / PQDSB1	
	With Case (2 Contact Point)	PQDSBC	

Wired Remote Controller			Wireless Remote Controller
Standard Type	Simple Type	Simple Type for Hotel	
			
PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FD0

4 Way Cassette (570×570)

ARNU05GTRA2 / ARNU07GTRA2 / ARNU09GTRA2
ARNU12GTRA2 ARNU15GTQA2 / ARNU18GTQA2

Model				ARNU05GTRA2	ARNU07GTRA2	ARNU09GTRA2	ARNU12GTRA2	ARNU15GTQA2	ARNU18GTQA2
Capacity	Cooling		kW	1.6	2.2	2.8	3.6	4.5	5.6
	Heating		kW	1.8	2.5	3.2	4.0	5.0	6.3
Power Input	Cooling		W	30	30	30	30	30	30
	Heating		W	30	30	30	30	30	30
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m^3/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0
			l/s	125 / 117 / 110	125 / 117 / 110	133 / 125 / 118	145 / 133 / 117	183 / 167 / 155	187 / 183 / 167
Sound Pressure		H/M/L	dBA	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34
Dimensions	Body	WxHxD	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570
Net Weight			kg(lbs)	13.1(28.9)	13.1(28.9)	14.3(31.3)	14.3(31.3)	15.5(34.2)	15.5(34.2)
Neoplasma Purifying Filter				PTPNQ0	PTPNQ0	PTPNQ0	PTPNQ0	PTPNQ0	PTPNQ0
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drain	I.D.	mm(inch)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)
Decoration Panel	Model			PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC
	Colour			Morning fog	Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions	WxHxD	mm	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700
	Weight		kg	3	3	3	3	3	3

Note: 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length: 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length: 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU05GTRA2	ARNU07GTRA2	ARNU09GTRA2	ARNU12GTRA2	ARNU15GTQA2	ARNU18GTQA2
Dry Contact	Without Case (1 Contact Point)	PQDSA					
	With Case (1 Contact Point)	PQDSB / PQDSB1					
	With Case (2 Contact Point)	PQDSBC					
Front Panel		PT-UQC					

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUD50(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

4 Way Cassette (840×840)

ARNU24GTPA2 / ARNU28GTPA2
ARNU36GTNA2 / ARNU42GTMA2 / ARNU48GTMA2

Model				ARNU24GTPA2	ARNU28GTPA2	ARNU36GTNA2	ARNU42GTMA2	ARNU48GTMA2
Capacity	Cooling		kW	7.1	8.2	10.6	12.3	14.1
	Heating		kW	8.0	9.2	11.9	13.8	15.9
Power Input	Cooling		W	33	33	144	144	144
	Heating		W	33	33	144	144	144
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m^3/min	17 / 15 / 13	19 / 16 / 14	25 / 21 / 19	30 / 27 / 24	31 / 29 / 27
			l/s	283 / 250 / 217	317 / 267 / 233	417 / 350 / 317	500 / 450 / 400	517 / 483 / 450
Sound Pressure		H/M/L	dBA	36 / 34 / 31	39 / 35 / 33	43 / 40 / 37	44 / 41 / 38	46 / 43 / 41
Dimensions	Body	WxHxD	mm	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight			kg(lbs)	20.8(45.8)	20.8(45.8)	23.5(51.8)	25.6(56.4)	25.6(56.4)
Neoplasma Purifying Filter				PTPKM0	PTPKM0	PTPKM0	PTPKM0	PTPKM0
Piping Connection	Liquid		mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas		mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Drain	I.D.	mm(inch)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)
Decoration Panel	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Colour			Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions	WxHxD	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.6	5.6	5.6	5.6	5.6

Note: 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length: 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length: 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU24GTPA2	ARNU28GTPA2	ARNU36GTNA2	ARNU42GTMA2	ARNU48GTMA2
Dry Contact	Without Case (1 Contact Point)	PQDSA				
	With Case (1 Contact Point)	PQDSB / PQDSB1				
	With Case (2 Contact Point)	PQDSBC				
Front Panel		PT-UMC1				
Auto Elevation Grille		PTEGM0				
Ventilation Kit		PTVM410 / PTVM420 / PTVM430				

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUD50(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

2 Way Cassette

ARNU18GTLA2 ARNU24GTLA2

Model				ARNU18GTLA2	ARNU24GTLA2
Capacity	Cooling		kW	5.6	7.1
	Heating		kW	6.3	8.0
Power Input	Cooling		W	70	70
	Heating		W	70	70
Power Supply			ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate	H/M/L		m³/min	13 / 12 / 10	17 / 15 / 13
			l/s	217 / 200 / 167	283 / 250 / 217
Sound Pressure		H/M/L	dBA	40 / 36 / 32	42 / 38 / 34
Dimensions	Body	WxHxD	mm	830 x 225 x 550	830 x 225 x 550
Net Weight			kg(lbs)	22(48.5)	22(48.5)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	15.88(5/8)
	Drain	I.D.	mm(inch)	25(31/32)	25(31/32)
Decoration Panel	Model			PT-HLC	PT-HLC
	Colour			Morning fog	Morning fog
	Dimensions	WxHxD	mm	1,050 x 20 x 640	1,050 x 20 x 640
	Weight		kg	4.0	4.0

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU18GTLA2	ARNU24GTLA2
Dry Contact	Without Case (1 Contact Point)	PQDSA	
	With Case (1 Contact Point)	PQDSB / PQDSB1	
	With Case (2 Contact Point)	PQDSBC	
Front Panel		PT-HLA	

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUD50(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

1 Way Cassette

ARNU07GTUA2 ARNU09GTUA2 ARNU12GTUA2
ARNU18GTTA2 ARNU24GTTA2

Grid Type

Model				ARNU07GTUA2	ARNU09GTUA2	ARNU12GTUA2	ARNU18GTTA2	ARNU24GTTA2
Capacity	Cooling		kW	2.2	2.8	3.6	5.6	7.1
	Heating		kW	2.5	3.2	4.0	6.3	7.1
Power Input	Cooling		W	40	40	40	70	70
	Heating		W	40	40	40	70	70
Power Supply			ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate	H/M/L		m³/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
			l/s	137 / 122 / 107	153 / 143 / 137	167 / 153 / 137	222 / 202 / 182	243 / 222 / 192
Sound Pressure		H/M/L	dBA	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Dimensions	Body	WxHxD	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1,180 x 132 x 450	1,180 x 132 x 450
Net Weight			kg(lbs)	14.7(32.4)	14.7(32.4)	14.7(32.4)	18.7(41.23)	18.7(41.23)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)
	Drain	I.D.	mm(inch)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)
Decoration Panel	Model			PT-UUC(Grill), PT-UUD(Panel)	PT-UUC(Grill), PT-UUD(Panel)	PT-UUC(Grill), PT-UUD(Panel)	PT-UTC(Grill), PT-UTD(Panel)	PT-UTC(Grill), PT-UTD(Panel)
	Colour			White	White	White	White	White
	Dimensions	WxHxD	mm	1,100 x 34 x 300	1,100 x 34 x 300	1,100 x 34 x 300	1,420 x 34 x 300	1,420 x 34 x 300
	Weight		kg	4.6	4.6	4.6	5.5	5.5

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU07GTUA2	ARNU09GTUA2	ARNU12GTUA2	ARNU18GTTA2	ARNU24GTTA2
Dry Contact	Without Case (1 Contact Point)	PQDSA				
	With Case (1 Contact Point)	PQDSB / PQDSB1				
	With Case (2 Contact Point)	PQDSBC				
Front Panel		PT-UUC				

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUD50(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

INDOOR UNIT

Model				ARNU05GL1G2	ARNU07GL1G2	ARNU09GL1G2
Capacity	Cooling		kW	1.7	2.2	2.8
	Heating		kW	1.9	2.5	3.2
Power Input	Cooling		W	40	40	40
	Heating		W	40	40	40
Power Supply			ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate (High mode)	H/M/L		m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
			l/s	112 / 103 / 92	125 / 108 / 92	150 / 117 / 92
External Static Pressure	high mode-factory mode		mmAq(Pa)	2.5ø(25)	2.5ø(25)	2.5ø(25)
Sound Pressure		H/M/L	dBA	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22
Dimensions	Body	WxHxD	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
Net Weight			kg(lbs)	17.5(38.6)	17.5(38.6)	17.5(38.6)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drain	I.D.	mm(inch)	25.4(1)	25.4(1)	25.4(1)
Fan motor output x Numver			W	19 x 1	19 x 1	19 x 1

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU05GL1G2	ARNU07GL1G2	ARNU09GL1G2
Dry Contact	Without Case (1 Contact Point)	PQDSA		
	With Case (1 Contact Point)	PQDSB / PQDSB1		
	With Case (2 Contact Point)	PQDSBC		

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDS0(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Model				ARNU12GL2G2	ARNU15GL2G2	ARNU18GL2G2	ARNU24GL3G2
Capacity	Cooling		kW	3.6	4.5	5.6	7.1
	Heating		kW	4.0	5.0	6.3	8.0
Power Input	Cooling		W	85	85	85	115
	Heating		W	85	85	85	115
Power Supply			ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate (High mode)	H/M/L		m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
			l/s	167 / 142 / 117	208 / 167 / 142	250 / 208 / 167	333 / 267 / 200
External Static Pressure	high mode-factory mode		mmAq(Pa)	2.5ø(25)	2.5ø(25)	2.5ø(25)	2.5ø(25)
Sound Pressure		H/M/L	dBA	30 / 27 / 25	33 / 30 / 28	35 / 32 / 29	36 / 33 / 28
Dimensions	Body	WxHxD	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700
Net Weight			kg(lbs)	23(50.7)	23(50.7)	23(50.7)	27(59.5)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)
	Drain	I.D.	mm(inch)	25.4(1)	25.4(1)	25.4(1)	25.4(1)
Fan motor output x Numver			W	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU12GL2G2	ARNU15GL2G2	ARNU18GL2G2	ARNU24GL3G2
Dry Contact	Without Case (1 Contact Point)	PQDSA			
	With Case (1 Contact Point)	PQDSB / PQDSB1			
	With Case (2 Contact Point)	PQDSBC			

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDS0(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Model				ARNU07GB3G2	ARNU09GB3G2	ARNU12GB3G2	ARNU15GB3G2
Capacity	Cooling		kW	2.2	2.8	3.6	4.5
	Heating		kW	2.5	3.2	4.0	5.0
Power Input	Cooling		W	30	30	30	30
	Heating		W	30	30	30	30
Power Supply			ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate	H/M/L		m³/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0
			l/s	133 / 108 / 92	150 / 117 / 100	167 / 133 / 108	183 / 167 / 133
External Static Pressure	high mode-factory mode		mmAq(Pa)	2(20)	2(20)	2(20)	2(20)
Sound Pressure		H/M/L	dBA	33 / 32 / 29	34 / 33 / 32	35 / 34 / 33	41 / 40 / 37
Dimensions	Body	WxHxD	mm	820 x 190 x 575	820 x 190 x 575	820 x 190 x 575	820 x 190 x 575
	Suction Grille	WxHxD	mm	910 x 56 x 359	910 x 56 x 359	910 x 56 x 359	910 x 56 x 359
	Suction Canvas	WxHxD	mm	821 x 42~250 x 274	821 x 42~250 x 274	821 x 42~250 x 274	821 x 42~250 x 274
Net Weight			kg(lbs)	21(46.3)	21(46.3)	21(46.3)	21(46.3)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drain	I.D.	mm(inch)	25.4(1)	25.4(1)	25.4(1)	25.4(1)
Fan motor output x Number			W	30 x 1	30 x 1	30 x 1	30 x 1

Note: 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU07GB3G2	ARNU09GB3G2	ARNU12GB3G2	ARNU15GB3G2
Dry Contact	Without Case (1 Contact Point)	PQDSA			
	With Case (1 Contact Point)	PQDSB / PQDSB1			
	With Case (2 Contact Point)	PQDSBC			

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDSO(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Model				ARNU18GB4G2	ARNU24GB4G2
Capacity	Cooling		kW	5.6	7.1
	Heating		kW	6.3	8.0
Power Input	Cooling		W	80	80
	Heating		W	80	80
Power Supply			ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate	H/M/L		m³/min	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
			l/s	233 / 200 / 167	283 / 250 / 167
External Static Pressure	high mode-factory mode		mmAq(Pa)	2(20)	2(20)
Sound Pressure		H/M/L	dBA	43 / 40 / 37	46 / 43 / 37
Dimensions	Body	WxHxD	mm	1,100 x 190 x 575	1,100 x 190 x 575
	Suction Grille	WxHxD	mm	1,188 x 56 x 359	1,188 x 56 x 359
	Suction Canvas	WxHxD	mm	1,100 x 42~250 x 274	1,100 x 42~250 x 274
Net Weight			kg(lbs)	26(57.3)	26(57.3)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	15.88(5/8)
	Drain	I.D.	mm(inch)	25.4(1)	25.4(1)
Fan motor output x Number			W	80 x 1	80 x 1

Note: 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU18GB4G2	ARNU24GB4G2
Dry Contact	Without Case (1 Contact Point)	PQDSA	
	With Case (1 Contact Point)	PQDSB / PQDSB1	
	With Case (2 Contact Point)	PQDSBC	
Suction Grille		P8SGB30	
Suction Canvas		P8SC30	

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDSO(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

ARNU07GBHA2 ARNU09GBHA2 ARNU12GBHA2
ARNU15GBHA2 ARNU18GBHA2 ARNU24GBHA2

Model				ARNU07GBHA2	ARNU09GBHA2	ARNU12GBHA2	ARNU15GBHA2	ARNU18GBHA2	ARNU24GBHA2
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling		W	150	150	150	150	150	150
	Heating		W	150	150	150	150	150	150
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240/50	1 / 220~240/50	1 / 220~240/50	1 / 220~240/50	1 / 220~240/50
Airflow Rate	H/M/L		m³/min	6.5/5.8/5.4	9.1/6.5/5.8	9.6/8.1/6.5	11.3/9.6/6.5	13.0/11.3/9.6	16.0/14.4/13.0
			l/s	108/97/90	135/108/97	160/135/108	188/160/108	217/188/160	267/240/217
External Static Pressure	high mode-factory mode		mmAq(Pa)	8(78)	8(78)	8(78)	8(78)	8(78)	8(78)
Sound Pressure		H/M/L	dBA	26 / 25 / 23	26 / 25 / 23	27 / 26 / 23	29 / 27/25	30 / 29 / 26	33 / 31 /28
Dimensions	Body	WxHxD	mm	882x 260x 450	882 x 260 x 450	882x 260x 450	882 x 260 x 450	882x 260x 450	882x 260 x 450
Net Weight			kg(lbs)	26(57.4)	26(57.4)	26(57.4)	26(57.4)	26.5(58.4)	26.5(58.4)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)
	Drain	I.D.	mm(inch)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)
Fan motor output x Number			W	110x1	110x1	110x1	110x1	110x1	110x1

Note: 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU07GBHA2	ARNU09GBHA2	ARNU12GBHA2	ARNU15GBHA2	ARNU18GBHA2	ARNU24GBHA2
Dry Contact	Without Case (1 Contact Point)	PQDSA					
	With Case (1 Contact Point)	PQDSB / PQDSB1					
	With Case (2 Contact Point)	PQDSBC					

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDSD(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

ARNU28GBGA2 ARNU36GBGA2

Model				ARNU28GBGA2	ARNU36GBGA2
Capacity	Cooling		kW	8.2	10.6
	Heating		kW	9.2	11.9
Power Input	Cooling		W	450	450
	Heating		W	450	450
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m³/min	25.9 / 24.1 / 21.0	32.3 / 29.0 / 25.3
			l/s	432 / 402 / 353	538 / 483 / 422
External Static Pressure	high mode-factory mode		mmAq(Pa)	10(98)	10(98)
Sound Pressure		H/M/L	dBA	29 / 25 / 23	33 / 31 / 28
Dimensions	Body	WxHxD	mm	1,182 x 298x 450	1,182 x 298x 450
Net Weight			kg(lbs)	38.0(83.8)	38(83.8)
Piping Connection	Liquid		mm(inch)	9.52(3/8)	9.52(3/8)
	Gas		mm(inch)	15.88(5/8)	15.88(5/8)
	Drain	I.D.	mm(inch)	25(31/32)	25(31/32)
Fan motor output x Number			W	350x1	350x1

Note: 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU28GBGA2	ARNU36GBGA2
Dry Contact	Without Case (1 Contact Point)	PQDSA	
	With Case (1 Contact Point)	PQDSB / PQDSB1	
	With Case (2 Contact Point)	PQDSBC	

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDSD(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Model				ARNU42GBRK2	ARNU48GBRK2	ARNU54GBRK2
Capacity	Cooling		kW	12.3	14.1	16
	Heating		kW	13.8	15.9	18.1
Power Input	Cooling		W	368	477	565
	Heating		W	368	477	565
Power Supply			ø/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50
Airflow Rate	H/M/L		m³/min	40.0 / 38.3 / 35.7	48.0 / 45.3 /40.0	52.0 / 48.0 / 45.3
			l/s	667 / 638 / 595	800 / 755 / 667	867 / 800 / 755
External Static Pressure	high mode-factory mode		mmAq(Pa)	12(118)	12(118)	12(118)
Sound Pressure		H/M/L	dBA	41/40/39	43/42/41	46/43/42
Dimensions	Body	WxHxD	mm	1,230x590x380	1,230x590x380	1,230x590x380
Net Weight			kg(lbs)	53(117)	53(117)	53(117)
Piping Connection	Liquid		mm(inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas		mm(inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)
	Drain	I.D.	mm(inch)	25	25	25
Fan motor output x Number			W	185x2	185x2	185x2

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU42GBRK2	ARNU48GBRK2	ARNU54GBRK2
Dry Contact	Without Case (1 Contact Point)	PQDSA		
	With Case (1 Contact Point)	PQDSB / PQDSB1		
	With Case (2 Contact Point)	PQDSBC		

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDS0(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Model				ARNU68GBBK2	ARNU76GBBK2	ARNU96GBBK2
Capacity	Cooling		kW	20	22.4	28
	Heating		kW	22.5	25.2	31.5
Power Input	Cooling		W	550	850	900
	Heating		W	550	850	900
Power Supply			ø/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50
Airflow Rate	H/M/L		m³/min	77.0 / 67.6 / 67.6	78.0 / 72.1 / 72.1	81.1 / 78.0 / 78.0
			l/s	1,283 / 1,127 / 1,127	1,300 / 1,202 / 1,202	1,352 / 1,300 / 1,300
External Static Pressure	high mode-factory mode		mmAq(Pa)	15(147)	18(176)	18(176)
Sound Pressure		H/M/L	dBA	46/43/43	46/45/45	47/46/46
Dimensions	Body	WxHxD	mm	1562x688x460	1562x688x460	1562x688x460
Net Weight			kg(lbs)	87(192)	87(192)	87(192)
Piping Connection	Liquid		mm(inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas		mm(inch)	Ø19.05(3/4)	Ø19.05(3/4)	Ø22.2(7/8)
	Drain	I.D.	mm(inch)	25	25	25
Fan motor output x Number			W	375x2	375x2	375x2

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU68GBBK2	ARNU76GBBK2	ARNU96GBBK2
Dry Contact	Without Case (1 Contact Point)	PQDSA		
	With Case (1 Contact Point)	PQDSB / PQDSB1		
	With Case (2 Contact Point)	PQDSBC		

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDS0(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Ceiling & Floor

ARNU09GVEA2 ARNU12GVEA2

Model				ARNU09GVEA2	ARNU12GVEA2
Capacity	Cooling		kW	2.8	3.6
	Heating		kW	3.2	4.0
Power Input	Cooling		W	30	30
	Heating		W	30	30
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
			l/s	127 / 115 / 103	153 / 127 / 115
Sound Pressure		H/M/L	dBA	36 / 33 / 28	39 / 36 / 30
Dimensions	Body	WxHxD	mm	900 x 490 x 200	960 x 490 x 200
Net Weight			kg(lbs)	13.7(30.2)	13.7(30.2)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)
	Drain	I.D.	mm(inch)	16(5/8)	16(5/8)

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU09GVEA2	ARNU12GVEA2
Dry Contact	Without Case (1 Contact Point)	PQDSA	
	With Case (1 Contact Point)	PQDSB / PQDSB1	
	With Case (2 Contact Point)	PQDSBC	

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUD50(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Ceiling Suspended

URNU18GVJA2 URNU24GVJA2 URNU36GVKA2 URNU48GVLA2

URNU48GVLA2

URNU18GVJA2 / URNU24GVJA2

URNU36GVKA2

Model				URNU18GVJA2	URNU24GVJA2	URNU36GVKA2	URNU48GVLA2
Capacity	Cooling		kW	5.6	7.1	10.6	14.1
	Heating		kW	6.3	8.0	11.9	15.9
Power Input	Cooling		W	63	63	140	190
	Heating		W	63	63	140	190
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m³/min	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0	24.6 / 23 / 21.4	35 / 33 / 30
			l/s	267 / 233 / 200	300 / 267 / 233	410 / 383 / 357	583 / 533 / 500
Sound Pressure		H/M/L	dBA	42 / 40 / 37	43 / 41 / 39	48 / 46 / 44	49 / 48 / 47
Dimensions	Body	WxHxD	mm	950 x 650 x 220	950 x 650 x 220	1350 x 650 x 220	1750 x 650 x 220
Net Weight			kg(lbs)	24.6(54.2)	24.6(54.2)	35.0(77.2)	45.0(99.2)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	15.9(5/8)	15.9(5/8)	15.9(5/8)
	Drain	I.D.	mm(inch)	16(5/8)	16(5/8)	16(5/8)	16(5/8)

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		URNU18GVJA2	URNU24GVJA2	URNU36GVKA2	URNU48GVLA2
Dry Contact	Without Case (1 Contact Point)	PQDSA			
	With Case (1 Contact Point)	PQDSB / PQDSB1			
	With Case (2 Contact Point)	PQDSBC			

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUD50(white)	PQRCVSL0QW	PQRCVCL0QW (white)	PQRCHCA0QW(White)	PQWRHQ0FDB

INDOOR UNIT

Floor Standing with Case

ARNU07GCEA2 ARNU09GCEA2 ARNU12GCEA2
ARNU15GCEA2 ARNU18GCFA2 ARNU24GCFA2

Model				ARNU07GCEA2	ARNU09GCEA2	ARNU12GCEA2	ARNU15GCEA2	ARNU018GCFA2	ARNU024GCFA2
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling		W	30	30	30	30	80	80
	Heating		W	30	30	30	30	80	80
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m^3/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
			l/s	142 / 125 / 108	158 / 142 / 125	175 / 158 / 142	192 / 167 / 158	267 / 233 /200	300 / 267 / 233
Sound Pressure		H/M/L	dBA	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Dimensions	Body	WxHxD	mm	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,345 x 635 x 203	1,345 x 635 x 203
Net Weight			kg(lbs)	27(59.5)	27(59.5)	27(59.5)	27(59.5)	34(75.0)	34(75.0)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.9(5/8)
	Drain	I.D.	mm(inch)	12(15/32)	12(15/32)	12(15/32)	12(15/32)	12(15/32)	12(15/32)

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU07GCEA2	ARNU09GCEA2	ARNU12GCEA2	ARNU15GCEA2	ARNU018GCFA2	ARNU024GCFA2
Dry Contact	Without Case (1 Contact Point)	PQDSA					
	With Case (1 Contact Point)	PQDSB / PQDSB1					
	With Case (2 Contact Point)	PQDSBC					

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDS0(white)	PQRCVSL0QW	PQRCVCL0QW(white)	PQRCHCA0QW(White)	PQWRHQ0FDB

Floor Standing without Case

ARNU07GCEU2 ARNU09GCEU2 ARNU12GCEU2
ARNU15GCEU2 ARNU18GCFU2 ARNU24GCFU2

Model				ARNU07GCEU2	ARNU09GCEU2	ARNU12GCEU2	ARNU15GCEU2	ARNU18GCFU2	ARNU24GCFU2
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling		W	30	30	30	30	80	80
	Heating		W	30	30	30	30	80	80
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Airflow Rate	H/M/L		m^3/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
			l/s	142 / 125 / 108	158 / 142 / 125	175 / 158 / 142	192 / 167 / 158	267 / 233 /200	300 / 267 / 233
Sound Pressure		H/M/L	dBA	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Dimensions	Body	WxHxD	mm	970 x 639 x 190	970 x 639 x 190	970 x 639 x 190	970 x 639 x 190	1,256 x 639 x 190	1,256 x 639 x 190
Net Weight			kg(lbs)	20(44.1)	20(44.1)	20(44.1)	20(44.1)	23(59.5)	23(59.5)
Piping Connection	Liquid		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)
	Gas		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.9(5/8)
	Drain	I.D.	mm(inch)	12(15/32)	12(15/32)	12(15/32)	12(15/32)	12(15/32)	12(15/32)

Note : 1.Capacities are based on the following conditions
Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
Interconnecting piping length 7.5m / Level difference of zero
Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m / Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU07GCEU2	ARNU09GCEU2	ARNU12GCEU2	ARNU15GCEU2	ARNU18GCFU2	ARNU24GCFU2
Dry Contact	Without Case (1 Contact Point)	PQDSA					
	With Case (1 Contact Point)	PQDSB / PQDSB1					
	With Case (2 Contact Point)	PQDSBC					

Wired Remote Controller				Wireless Remote Controller
Deluxe Type	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDS0(white)	PQRCVSL0QW	PQRCVCL0QW(white)	PQRCHCA0QW(White)	PQWRHQ0FDB

INDOOR UNIT

FUNCTIONS

LG Life's Good

	Art Cool	Mirror	Standard	4way Cassette	2 way Cassette	1 way Cassette	Low Static	Built-in	High Static	Ceiling & Floor	Ceiling Suspended	Floor Standing
												
Deodorising Triple Filter			•									
NEO Plasma Air Purifying System	•	•	•	•	•	•						
Jet Cool	•	•	•	•	•	•				•	•	
Dehumidification	•	•	•	•	•	•	•	•	•	•	•	•
Hot Start (Heat pump only)	•	•	•	•	•	•	•	•	•	•	•	•
Child Lock Function (Wired remote controller only)	•	•	•	•	•	•	•	•	•	•	•	•
Soft Dry Operation Mode			•	•	•	•	•	•	•	•	•	•
Low Standby Power	•	•	•	•	•	•	•	•	•	•	•	•
Group Control (Wired remote controller only)	•	•	•	•	•	•	•	•	•	•	•	•
Auto Changeover (MULTI V Heat Recovery only)	•	•	•	•	•	•	•	•	•	•	•	•
Auto Clean	•	•	•		•	•						
Sleep Mode Auto Operation	•	•	•	•	•	•	•	•	•	•	•	•
Auto Restart	•	•	•	•	•	•	•	•	•	•	•	•
4-Way Air Deflection				•								
Swirl Swing	•	•		•	•							
Weekly Program (Wired remote controller only)	•	•	•	•	•	•	•	•	•	•	•	•
Two Thermistor Control (Wired remote controller only)	•	•	•	•	•	•	•	•	•	•	•	•
Changable Panel	•	•				•						
Second Remote Control	•	•	•	•	•	•	•	•	•	•	•	•

*Requires AC Smart Premium, PQCSW421BBA, to perform this function.

eco V™

ENERGY RECOVERY VENTILATOR

MULTI V series Offers outstanding energy savings, easy installation and connection to many different types of indoor units, making it easy to design and install.

ecoV™

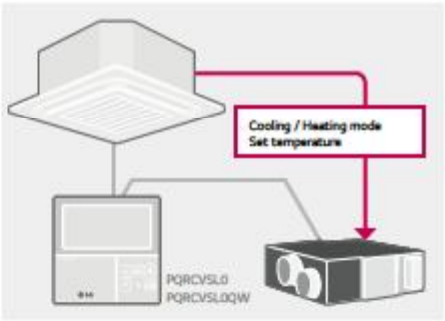
Energy recovery ventilator

High Efficiency Heat Exchanger

Efficiency and comfort is ensured through the high-efficiency energy recovery central core which recovers energy from the indoor air and transfers it to the fresh incoming air without mixing airstream.

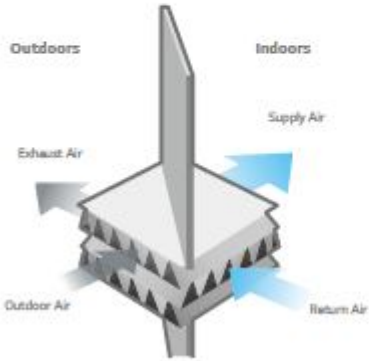
Interlocking with Air Conditioning System

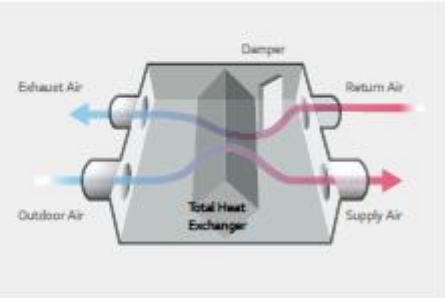
- ECO V can be interlocked with air conditioners or controlled individually.
- This function can be operated when the system is connected with a remote control.



Compulsory Exhausting System

The exhausting system using high static and sirocco fan removes contaminants effectively from indoor air. Supply and exhaust air flows are completely separated in the total heat exchanger, ECO V can filter out the impurities before supplying outdoor air and make indoor air fresh and healthy.

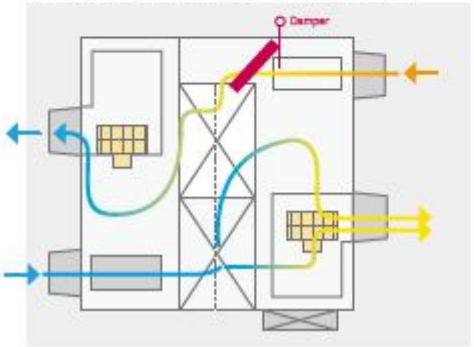




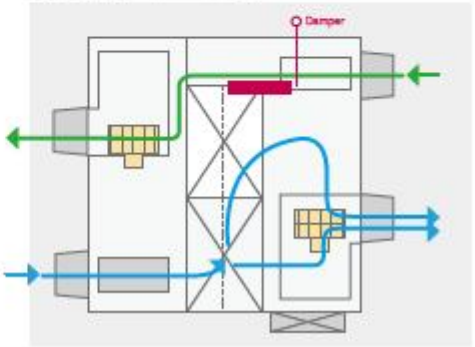
Bypass Ventilation

ECO V automatically switches the ventilation mode (Enthalpy Heat Exchange Mode / Bypass Mode) according to the indoor/outdoor temperature. (Only applied to 500 CMH models or above)

Enthalpy Heat Exchange Mode (Summer / Winter)



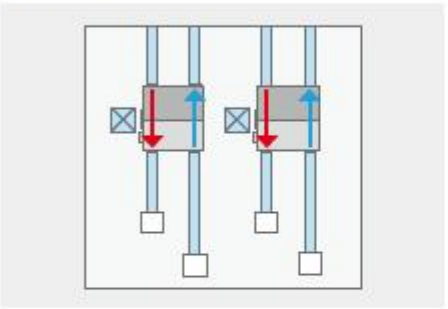
Bypass Mode (Seasonal Change)



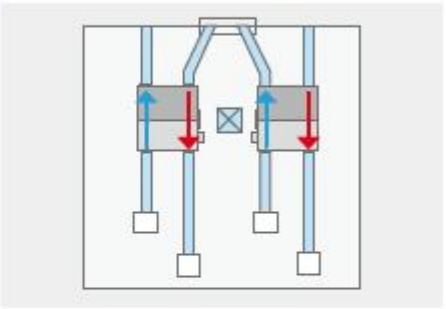
Flexibility of Installation

It's possible to install ECO V upside down when you need only one inspection hole.

Normal installation of 2 units



Reverse installation of 1 unit (Left unit)



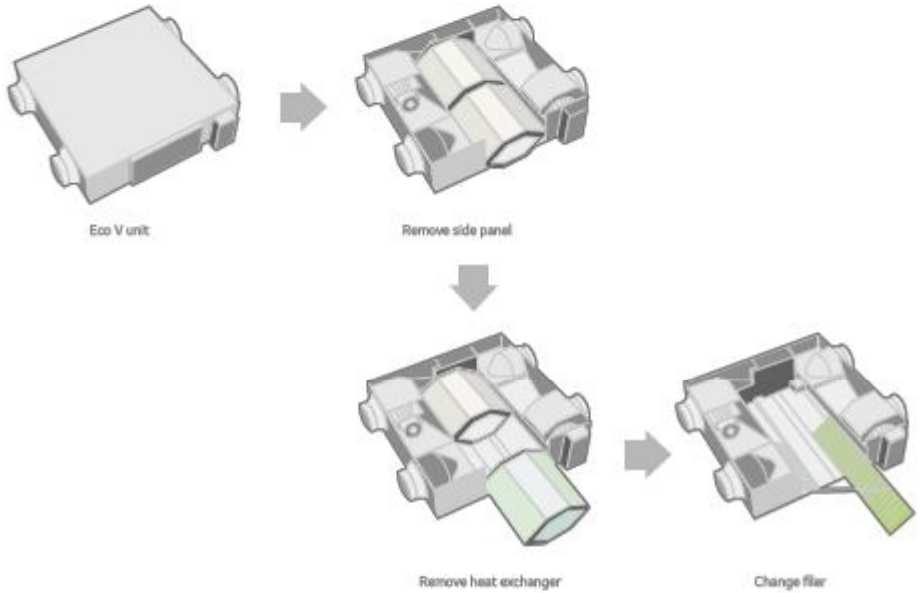
Inspection chamber

ecoV™

Energy recovery ventilator

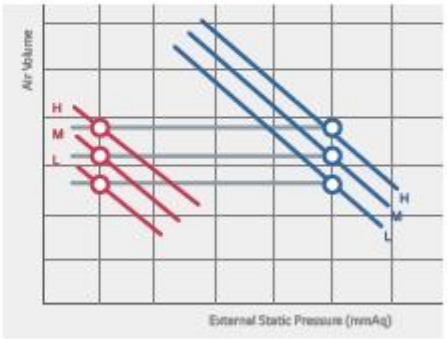
Easy Cleaning and Filter Change

It is easy and convenient to change and clean the filter. (Only applied to 500 CMH models or above)



EZTuning (External Static Pressure Control)

The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.

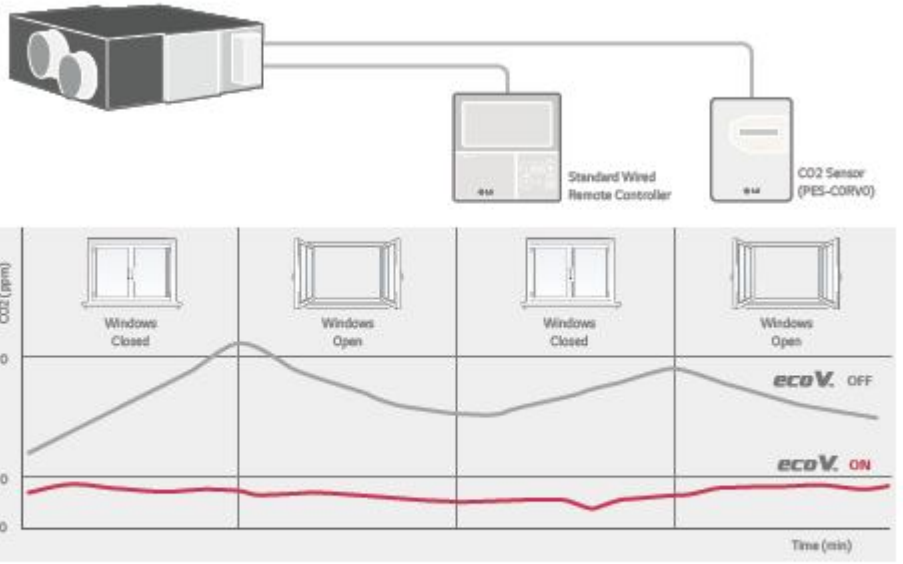


Fast Ventilation Mode

Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

CO_2 Concentration Control

Using CO2 sensor, ECO V controls exhaust air flow automatically to keep indoor air fresh under settled CO2 concentration.



LZ-H025GBA2 / LZ-H035GBA2

LZ-H050GBA2

Model				LZ-H025GBA2	LZ-H035GBA2	LZ-H050GBA2
Nominal Capacity			CMH(CFM)	250(147)	350(206)	500(294)
Power Supply			ø/V/Hz	1, 220-240, 50-60		
ECO V Mode	Step	SH/H/L	-	SUPER-HIGH / HIGH / LOW		
	Current	SH/H/L	Amps	1.04/0.97/0.7	1.73/1.58/0.77	1.92/1.58/0.79
	Power Input	SH/H/L	W	110/105/75	200/180/80	230/220/85
	Air Flow	SH/H/L	CMH(CFM)	250/250/150 (147/147/88)	350/350/210 (206/206/124)	500/500/320 (294/294/124)
	External Static Pressure	SH/H/L	Pa(inwg)	150/130/110 (0.60/0.52/0.44)	170/150/100 (0.68/0.60/0.40)	150/100/50 (0.60/0.40/0.2)
	Temperature Exchange Efficiency	SH/H/L	%	80/80/85	83/83/87	75/75/79
	Enthalpy Exchange Efficiency	Heating(SH/H/L)	%	70/70/78	80/80/85	72/72/77
		Cooling(SH/H/L)	%	64/64/68	78/78/83	70/70/75
	Noise Level (Sound Level, 1.5m)	SH/H/L	dBA	32/28/21	33/28/23	34/35/25
Bypass Mode	Step			-/-/-		SUPER-HIGH / HIGH / LOW
	Current			-/-/-		1.92/1.58/0.79
	Power input			-/-/-		230/220/85
	Air Flow			-/-/-		500/500/320 (294/294/124)
	External Static Pressure			-/-/-		150/100/50 (0.60/0.40/0.20)
	Noise Level (Sound Level, 1.5m)			-/-/-		34/35/25
Heat Exchanger		Type	dBA	Crossflow		
Net Weight			kg(lb)	32(70.5)		44(97)
Dimension		WxHxD	mm (inch)	750x250x680(29.52x9.84x26.77)		988x273x1,014(38.9x10.75x39.92)
Duct Work		Qty	EA	4		
		Size(ø)	mm (inch)	ø150(ø5.91)		ø200(ø7.87)
Supply Air Fan		Qty	EA	1		
		Type	-	Direct-Drive		
Exhaust Air Fan		Qty	EA	1		
		Type	-	Direct-Drive		
Filters		Qty	EA	2		
		Type	-	Cleanable		
		Size(WxHxD)	mm (inch)	600x10x150(23.62x0.39x5.91)		855x10x166(33.66x0.39x6.54)
Remote Controller			W	PQRCVSL0 / PQRCVSL0QW		
Dry Contact				PQDSB / PQDSB1		

Notes:
1. eco V Mode - Enthalpy Heat Recovery Ventilation mode
2. Noise level:
- The operating conditions are assumed to be standard.
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.

Wired Remote Controller
Standard Type

PQRCVSL0QW

LZ-H080GBA2 / LZ-H100GBA2

LZ-H150GBA2 / LZ-H200GBA2

Model				LZ-H080GBA2	LZ-H100GBA2	LZ-H150GBA2	LZ-H200GBA2
Nominal Capacity			CMH(CFM)	800(471)	1,000(589)	1,500(883)	2,000(1,177)
Power Supply			ø/V/Hz	1, 220-240, 50-60			
ECO V Mode	Step	SH/H/L	-	SUPER-HIGH / HIGH / LOW			
	Current	SH/H/L	Amps	2.77/2.16/1.44	3.41/2.91/1.76	5.6/5.4/2.9	6.8/5.9/3.6
	Power Input	SH/H/L	W	360/370/165	470/385/210	720/540/340	930/770/420
	Air Flow	SH/H/L	CMH(CFM)	800/800/660 (471/471/388)	1,000/1,000/800 (589/589/471)	1,500/1,500/1,200 (883/883/706)	2,000/2,000/1,600 (1,177/1,177/942)
	External Static Pressure	SH/H/L	Pa(inwg)	200/110/60 (0.80/0.44/0.24)	160/90/50 (0.64/0.36/0.20)	200/110/60 (0.80/0.44/0.24)	160/90/50 (0.64/0.36/0.20)
	Temperature Exchange Efficiency	SH/H/L	%	79/79/82	75/75/78	79/79/82	75/75/78
	Enthalpy Exchange Efficiency	Heating(SH/H/L)	%	70/70/75	66/66/71	70/70/75	66/66/71
		Cooling(SH/H/L)	%	65/65/70	61/61/66	65/65/70	61/61/66
	Noise Level (Sound Level, 1.5m)	SH/H/L	dBA	36/34/30	37/35/31	39/37/33	39/37/33
Bypass Mode	Step			SUPER-HIGH / HIGH / LOW			
	Current			2.77/2.16/1.44	3.41/2.91/1.76	5.6/5.4/2.9	6.8/5.9/3.6
	Power input			360/370/165	470/385/210	720/540/340	930/770/420
	Air Flow			800/800/660 (471/471/388)	1,000/1,000/800 (589/589/471)	1,500/1,500/1,200 (883/883/706)	2,000/2,000/1,600 (1,177/1,177/942)
	External Static Pressure			200/110/60 (0.80/0.44/0.24)	160/90/50 (0.64/0.36/0.20)	200/110/60 (0.80/0.44/0.24)	160/90/50 (0.64/0.36/0.20)
	Noise Level (Sound Level, 1.5m)			36/34/30	37/35/31		
Heat Exchanger		Type	dBA	Crossflow			
Net Weight			kg(lb)	60(132)		140(308)	
Dimension		WxHxD	mm (inch)	1,062x365x1,140(41.9x14.4x44.9)		1,313x737x1,140(51.7x29.0x44.9)	
Duct Work		Qty	EA	4		4+2	
		Size(ø)	mm (inch)	ø250(ø9.84)		ø250(ø9.84)+ø350(ø13.77)	
Supply Air Fan		Qty	EA	1		2	
		Type	-	Direct-Drive			
Exhaust Air Fan		Qty	EA	1		2	
		Type	-	Direct-Drive			
Filters		Qty	EA	2		4	
		Type	-	Cleanable			
		Size(WxHxD)	mm (inch)	600x10x150(23.62x0.39x5.91)		1,056x10x212.5(41.57x0.39x8.37)	
Remote Controller			W	PQRCVSL0 / PQRCVSL0QW			
Dry Contact				PQDSB / PQDSB1			

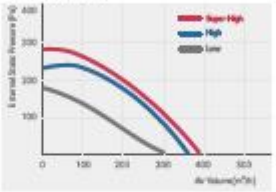
Notes:
1. eco V Mode - Enthalpy Heat Recovery Ventilation mode
2. Noise level:
- The operating conditions are assumed to be standard.
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.

Wired Remote Controller
Standard Type

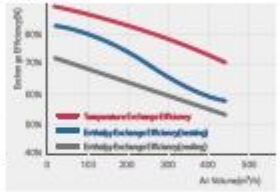
PQRCVSL0QW

LZ-H025GBA2

Ventilation

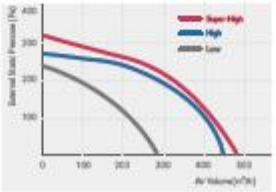


Efficiency

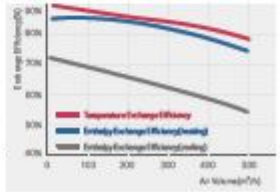


LZ-H035GBA2

Ventilation

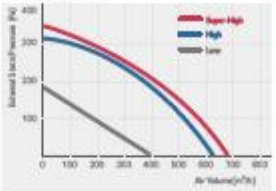


Efficiency

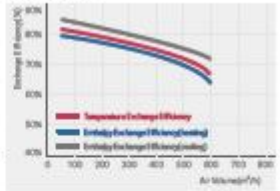


LZ-H050GBA2

Ventilation

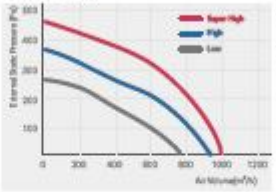


Efficiency

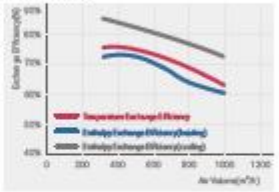


LZ-H080GBA2

Ventilation

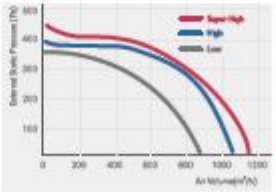


Efficiency

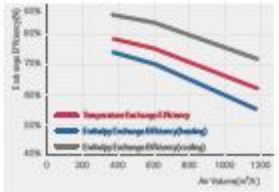


LZ-H100GBA2

Ventilation

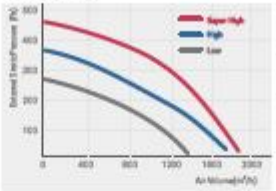


Efficiency

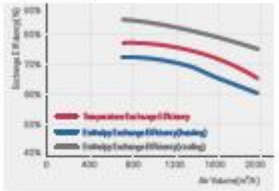


LZ-H150GBA2

Ventilation

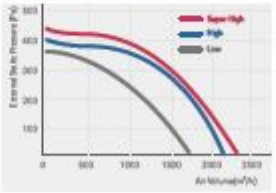


Efficiency

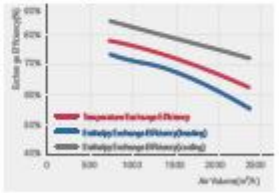


LZ-H200GBA2

Ventilation



Efficiency



ACCESSORIES

MULTI V series Offers outstanding energy savings, easy installation and connection to many different types of indoor units, making it easy to design and install.

086 **Air Conditioner Control System**

124 **Mechanical Accessories**

131 **Piping Accessories**

ACCESSORIES

Air Conditioner Control System LINE UP

Remote Controller

Wired Remote Controller

Standard	Deluxe	Simple	Premium
			
PQRCVSL0QW	PQRCUDS0 (White)	PQRCVCL0QW (White/Simple)	PREMTA000
			
		PQRCHCA0QW (White/Simple for Hotel)	

Wireless Remote Controller

PQWRCQ0FDB(C/O)
PQWRHQ0FDB(H/P)

Central Controller

Simple Central Controller

AC EZ
PQCSZ250S0

Central Controller

AC Smart Premium

AC Smart Premium
PQCSW421E0A

ACP & AC Manager Plus

ACP Standard
PQCPC22N0

ACP Premium
PQCPC22A0

AC Manager Plus
PQCSSA21E0

Gateway

Building Network Unit

LonWorks
PLNWKB000

BACnet
PQNFB17C0

PI 485 & DO Kit

PI 485
PMNFP14A1
PHNFP14A0
PSNFP14A0

DO Kit
PQNFP00T0

Electronic Accessories

- PDI
- PDI Premium
- Dry Contact
- Variable Water Flow Control Kit
- Independent Power Module
- Remote Temperature Sensor
- Cool/Heat Selector
- Group Control Wire

REMOTE CONTROLLER

Standard Wired Remote Controller
> Page 89

Deluxe Wired Remote Controller
> Page 90

Simple Wired Remote Controller
> Page 91

Wireless Remote Controller
> Page 92

Premium Wired Remote Controller
> Page 93

Remote Controller Line Up

Categories	PQRCVSL0QW	PQRCUDS0	PQRCVCL0QW	PQRCHCA0QW	PQWRHQ0FDB (H/P)	PREMTA000
On / Off	O	O	O	O	O	O
Fan speed	O	O	O	O	O	O
Temperature setting	O	O	O	O	O	O
Mode change	O	O	O	-	O	O
Auto swing	O	O	O	O	O	O
Vane control(Louver direction)	O	O	O	-	O	O
E.S.P function	O	O	O	O	-	O
Reservation	O	O	-	-	O	O
Timer Function	O	O	-	-	O	O
Electric failure compensation	O	-	-	-	-	50 hours
Child lock	O	O	O	O	-	O

STANDARD WIRED REMOTE CONTROLLER

Providing easy control of one or a group of indoor units to various applications

PQRCVSL0QW

PQRCVSL0QW
(White)

Features

Categories	PQRCVSL0QW
Operating mode	On/Off / Fan speed / Mode / Temp.
Max. no. of indoor units	16 indoor units
On / Off LED	O
Room temp.	O
Fan / Plasma / Swirl / Heater	O
Vane control(Louver direction) / Auto swing / Fan auto	O
E.S.P function	O
Reservation	On/Off / Weekly / Simple / Sleep / Holiday
Timer function	O
Child lock	O
Electric failure compensation	Max.3 hours
Wireless remocon receiver	O
Main/Sub setting of indoor units (For override function)	Applicable for MULTI V II, III and IV series.
2 Controllers to 1 indoor unit	Applicable for MULTI V II, III and IV series.
Group and central control at the same time	Applicable for MULTI V II, III and IV series.
Ventilation mode setting	Applicable for ECO V II series.
Rapid ventilation	Applicable for ECO V II series.
Power saving ventilation	Applicable for ECO V II series.
Size(mm)	120 x 121 x 16
Backlight Unit	O

* Terminal Block included. (Applied to models produced since '10 Nov.)
* Refer to each model PDB for applicable models.

DELUXE WIRED REMOTE CONTROLLER

Touch screen with a premium design for high end interior designs

PQRCUDS0

PQRCUDS0
(White)

Features

Categories	PQRCUDS0
Operating mode	On/Off / Fan speed / Mode / Temp.
Touch screen / LCD back_light	o
Room temp	o
Fan / Plasma / Swirl / Heater	o
Vane control(Louver direction) / Auto swing	o
E.S.P function	o
Reservation	Weekly / Simple
Timer function	o
Child lock	o

* Refer to each model PDB for applicable models.

SIMPLE WIRED REMOTE CONTROLLER

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

Simple

PQRCVCL0QW (White)

Simple for Hotel

PQRCHCA0QW (White)

PQRCVCL0QW
PQRCHCA0QW

Features

Categories	PQRCVCL0QW	PQRCHCA0QW
Operating mode	On/Off / Fan speed / Mode / Temp.	On/Off / Fan speed / Mode / Temp.
Room temp	o	o
Child lock	o	o
Mode Change	Cooling / Heating / Fan / Dehumidify / Auto	Only changeable by central controller
Backlight	o	o

* Refer to each model PDB for applicable models.

WIRELESS REMOTE CONTROLLER

Wireless control to operate air conditioners more conveniently

PQWRHQ0FDB (H/P)

Features

Model name	PQWRHQ0FDB (H/P)
Operating mode	On/Off / Fan speed / Mode / Temperature
Room temperature checking	o
Chaos swing / Jet cool	o
On/Off timer	o
Sleep mode auto	o
Main / Sub setting of indoor units (For override function)	Applicable for MULTI V II, III and IV series.

* Refer to each model block for applicable models.

Applicable Models

Model name	PQWRHQ0FDB (H/P)
CST, SBAC, CVT, Duct*, Floor Standing	o

* Combination with other remote controllers for various indoor units.
* All Duct products can be controlled through wireless remote controller when wired remote controller is installed.

PREMIUM WIRED REMOTE CONTROLLER

5inch full touch screen with a premium design

PREMTA000

* Available from July

Features

1) Self administration function for Energy saving
- Air-conditioning saving mode / Continuous operation time limit / Electricity consumption monitoring.
- Weekly / Monthly / Yearly Trend / Target setting alarm.
- Temperature scope locking (cooling / heating)

2) User friendly design
- Full touch type / Intuitive UI&GUI design / Display Configuration.

3) Enhanced schedule function
- Yearly schedule function / Schedule pattern

4) Various localized function mode
- 2 Set point / Setback / Override / 8 Zone Control / Summer Time.

Model name	PREMTA000
Operating mode	On/Off / Fan speed / Mode / Temperature
Maximum number of indoor units	16
On/Off LED	o
Room temperature	o
Fan / Plasma / Swirl / Heater	o
Vane control (Louver direction) / Auto swing / Fan auto	o
E.S.P (External Static Pressure) function	o
Reservation	Timer (simple/sleep) / Daily(On/Off) / Weekdays / Yearly / Holiday
Time function	o
Child lock	o All / Individual (On/Off, Mode, Temperature)
Electric failure compensation	90 hours
Wireless remocon receiver	o (Only for ceiling duct type indoor unit)
Main/Sub setting of indoor units (For override function)	Applicable for MULTI V II, III and IV series.
2 Controllers to 1 indoor unit	* Applicable for after MULTI V IV Series indoor unit.
Group and central control at the same time	Applicable for MULTI V II, III and IV series.
Ventilation mode setting	Applicable for ERV II series.
Rapid ventilation	Applicable for ERV II series.
Power saving ventilation	Applicable for ERV II series.
Dimensions (W X H X D, mm)	137 x 121 x 16.5
Display	5" TFT color LCD (480 x 272)
Touch type	RESISTIVE Touch pannel

* Must check compatibility between indoor unit and remote controller before installation with 2 controllers to 1 indoor unit function (see user&installer manual for this product).

CENTRAL CONTROLLER

AC EZ
› pg.95

AC Smart Premium
› pg.96

ACP
(Standard, Premium)
› pg.98

AC Manager Plus
› pg.100

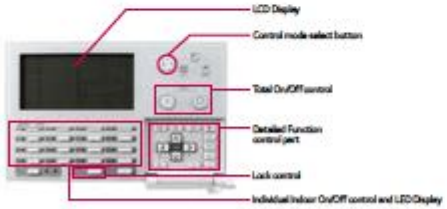
Central Controller Line Up

Categories	 PQCSZ250S0	 PQCSW421E0A	 PQCPC22N0 PQCPC22A0	 PQCSSA21E0
On / Off	O	O	O	O
Max. no. of indoor units	32(16/16)	128	256	8,192
Mode change	O	O	O	O
Control of each room	O	O	O	O
Total lock	O	O	O	O
Error check	LED/LCD display	Self- diagnosis	Self- diagnosis	Self- diagnosis
Fan speed /Temperature control	O	O	O	O
Schedule	Weekly	Weekly / Yearly	Weekly / Yearly	Weekly / Yearly
Ventilation control	O	O	O	O
PDI Monitoring	-	O	O	O
Web access	-	O	O	O
Set temp. range restriction	-	O	O	O
Auto Changeover	-	O	O	O
Temperature limit control	-	O	O	O
History	-	O	O	O
Interlocking function	-	O	-	O
Multi languages	-	O	-	O
Visual Navigation	-	O	-	O

AC EZ

In addition to On/Off control, more functions such as operation mode, fan speed, and scheduling can be run and monitored

PQCSZ250S0

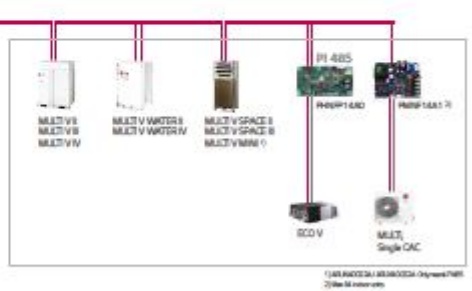


Features

Categories	PQCSZ250S0
Max. Indoor unit to control	32 Indoor Units
Individual Control	On/Off / Operation Mode / Fan Speed / Temp
Lock function	Central
Mode change	Cooling / Heating / Fan / Dehumidification / Auto
Schedule	8 event schedule/day
Ventilation control	On/Off / Ventilation Mode / Rapid Ventilation
Display(All Indoor status indication)	Operation, Set temp, Room Temp, Schedule
Size(mm)	190x120x17
Power	DC 12V

Combination

PQCSZ250S0



ACCESSORIES

AC SMART PREMIUM

New AC Smart Premium provides a user-friendly GUI with 10.2 inch screen

PQCSW421E0A

Home Screen

- Visual Navigation
- User friendly GUI
- Screen size up(10.2inch) and Resolution(1024*600)
- 2 D/I and 2 D/O ports for interlocking function
- Energy bill calculation function
- 2 Point Setback
- 2 Point Auto Changeover
- E-mail of Statistics

Improved web functions / Intuitive GUI design

With its user-friendly Web GUI, AC Smart Premium shows current status of air-conditioners and summary of schedule.

Visual Navigation

Floor plan (jpg format) can be edited according to the air-conditioner's location and shows the status.

Energy report

AC Smart premium shows statistical data about indoor units (Operation hours / Power consumption).

AHU Control

AC Smart Premium provides various control functions to users.

Control / Monitoring

Controls and monitors the operation status of the air conditioner / ventilator devices.

Schedule

Operates the air conditioners, ventilators, AHU, AWHP, Hydro Kit and DO Kit connected to AC Smart Premium according to the schedule.

Automation control

- Peakpower : Sets a peak operation rate so that the air conditioner doesn't exceed the set value.
- Demand : Sets the demand power control function that monitors power consumption of the air conditioner indoor units in real time, so that the target power consumption amount is not exceeded.

Statistics

Displays power consumption or usage of the air conditioners.

Report

Displays the history of any errors that have occurred in the airconditioners.

Device Setting

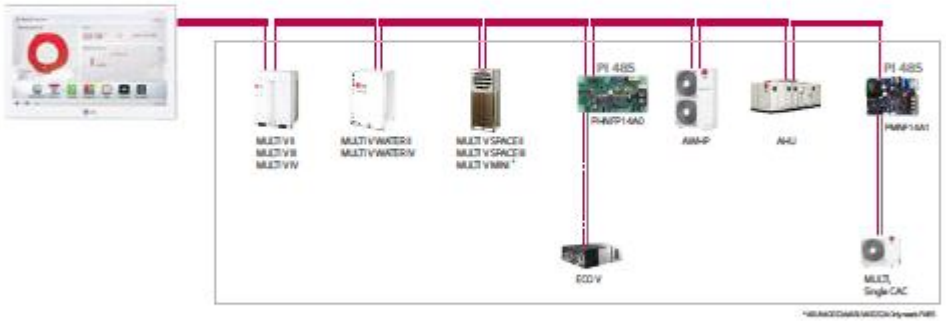
Registers, modifies or deletes air conditioners, ventilators, AHU, AWHP, Hydro Kit and DO Kit connected to AC Smart Premium.

Configure

General contents, user accounts, network, E-mail account, set up TMS contents etc.

Combination

It is possible to control the unit (IDU, Ventilator, on/off, AWHP, Hydro Kit, ECO V DX, AHU) and register the units.



ACP (STANDARD / PREMIUM)

With its Linux based web server, users can control up to 256 indoor units or 128 ECO V units for functions such as temperature setting, schedule, peak, power control, etc

Standard

PQCPC22N0

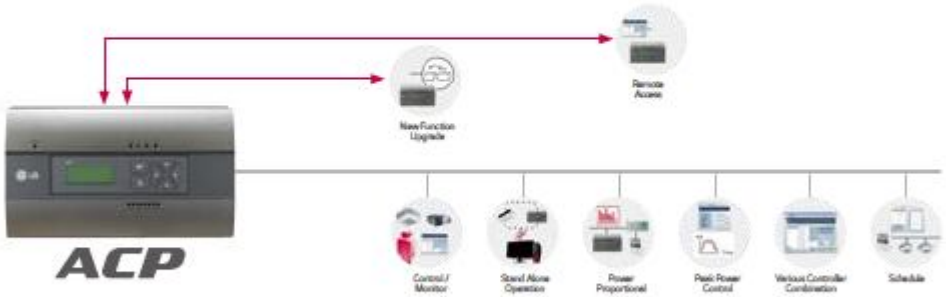
Premium

PQCPC22A0

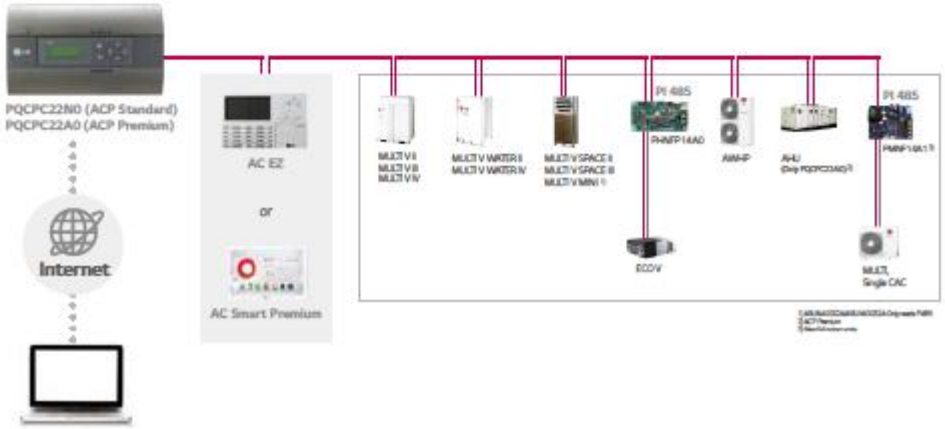
Product Name	ACP Standard	ACP Premium
External I/O Port No.	D/I 2, D/O 2	D/I 10, D/O 4
Interfaceable Products	Air conditioner/ ECO V/ ECO V DX/ AWHP / Hydro kit	Air conditioner/ ECO V/ ECO V DX/ AWHP/ Hydro Kit / AHU

Features

Categories	PQCPC22N0 / PQCPC22A0
Max.no. of indoor units	256 indoor units
Control / Monitoring	O
Schedule management	O
Lock function	Mode, Temperature, Fan
Temperature range restriction	18℃ ~ 30℃
Temperature limit function	O
Auto Changeover function	O
History function	Error history
Peak control	O
PDI monitoring	Need of PDI
Auto Address Setting Function	O (With AC Manager Plus only)
Statistics function	O (With AC Manager Plus only)
Peak Priority funtion	O
ECO V, ECO V DX Control	O



Combination



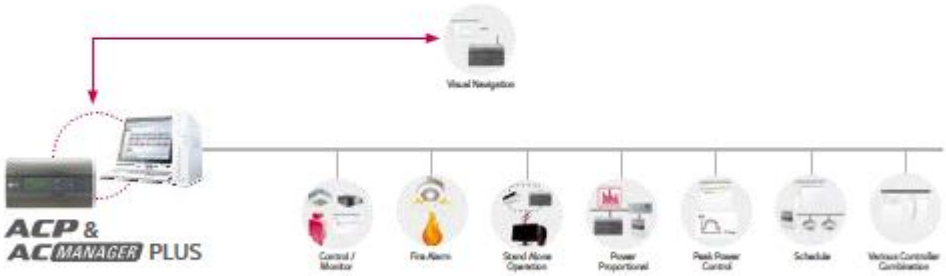
AC MANAGER PLUS

Provides efficient control and monitoring system for up to 8,192 indoor units by connecting 32 ACPs

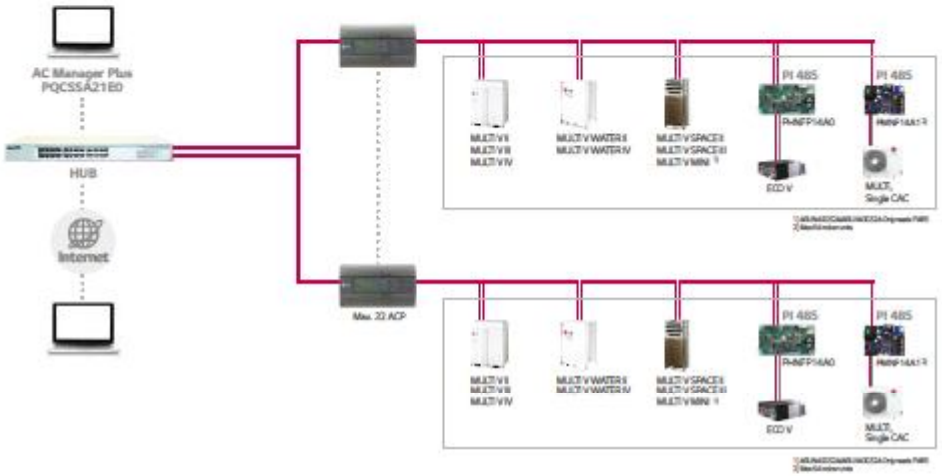
PQCSSA21E0

Features

Categories	PQCSSA21E0
Max.no. of indoor units	8,192 indoor units (32 ACP)
Control / Monitoring	O
Schedule management	O
Lock function	Mode/Temp/Fan speed/Total
Temperature range restriction	O
Temperature limit function	O
Auto Changeover function	O
History function	Monitoring & Error history
Peak control	O
PDI monitoring	Need of PDI
Printing function	O
Statistics function	O
Time limit function	O
ECO V, ECO V DX Control	O
Peak Priority function	O
Interlocking function	O
AHU Control Function	O
Hydro Kit, AWHP Control	O



Combination



ACP & AC MANAGER Plus Application

GATEWAY

BNU
(LONWORKS®)

› pg.104

BNU
(BACnet / Modbus)

› pg.105

PI 485

› pg.106

DO Kit

› pg.107

BNU-LW BMS Gateway
LonWorks®
Interface between BMS and LG Air-Conditioners

PLNWKB000

Interface between BMS and LG Air-Conditioners
- LonMark certified : Operation system based on LNS(LonWorks® Network Service)

Control various types of equipment from the customer's own PC.
- With its Linux based web server, users can control functions such as temperature setting, schedule, peak, power control, etc.

Features

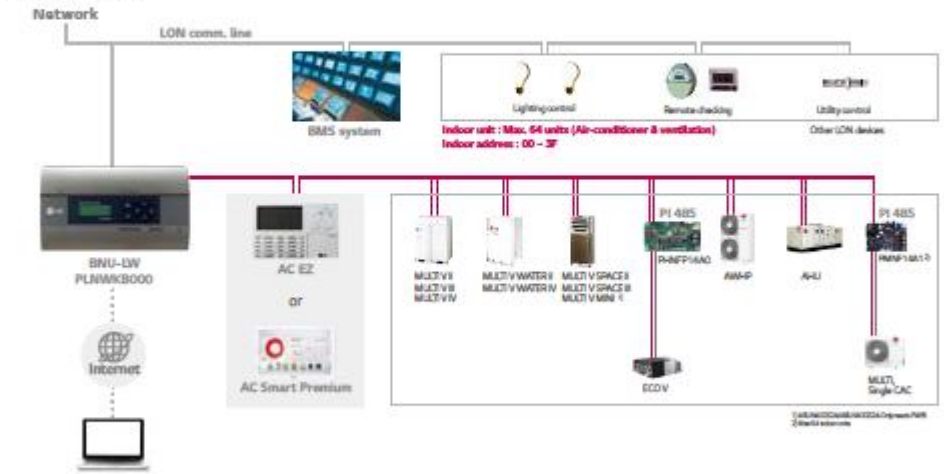
- **Connect to use LonWorks® protocol and LG Air-conditioner protocol**
- **Process ability**
  - EHP Type : 64 unit (indoors, ventilators and AWHP)
  - AHU Type : 16 unit (AHU)
- **Self installation verification function using Internet (Web server included)**
  - Setting gateway
  - Diagnosis of communication status on LG Air-conditioner network
- **Connection to remote total management system (LG system)**
- **Offers ACP Function (Central Controller) which allows the customer to efficiently control various types of equipment from the customer's own PC.**

For more information, see 131 page

Controlling	Monitoring
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
-	Current Space temp. status report
-	Error status report
User mode setting (for only ventilator)	User mode status report (for only ventilator)

Combination

LonWorks®



BNU-BN BMS Gateway
BACnet
Interface between BMS and LG Air-Conditioners
- BTL certified : Operation system based on BACnet Service.

PQNFB17C0

Improved BMS connection
- With its Linux based web server, users can control up to 256 indoor units or 128 ECO V units for functions such as temperature setting, schedule, peak, power control, etc.

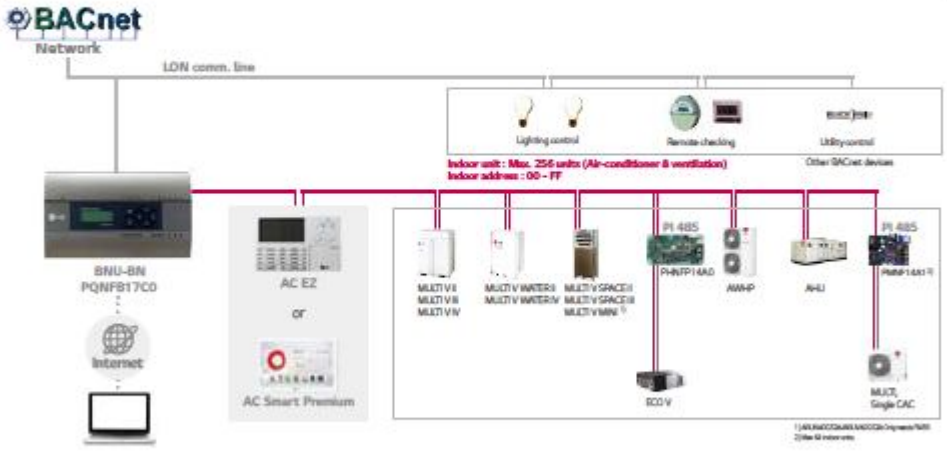
Features

- **Through embedded web control function in BAC net, one can access the air conditioner and external devices through BMS.**
- **ACP New platform & Smart base GUI driven**
- **256 indoor unit, 256 Eco-v unit, 256AWHP unit, 16 AHU (Max 256)**
- **Compatible with AC Ez and AC Smart Premium**
- **External devices such as fire alarm, motion detector can be connected to gateway and their function can be interlinked with air conditioner operation using BACnet.**
- **Compatible with MULTI V, Multi, Single system & AWHP**
- **Supports a 1°F control**
- **BTL certification (B-ASC)**
- **Offers ACP Function (Central Controller) which allows the customer to efficiently control various types of equipment from the customer's own PC.**

For more information, see 131 page

Controlling	Monitoring
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
-	Current Space temp. status report
-	Error status report
User mode setting (for only ventilator)	User mode status report (for only ventilator)
-	Accumulator power distribution status report
Upper limit temp. setting	Upper limit temp. status report
Low limit temp. setting	Low limit temp. status report
Mode lock setting	Mode lock status report
AC operation mode setting (ECO V DX only)	AC operation mode status report (ECO V DX only)
AC On/Off command (ECO V DX only)	AC On/Off status report (ECO V DX only)

Combination



PI 485

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

PMNFP14A1
PHNFP14A0
PSNFP14A0

Features

- **Model name : PMNFP14A1**
- **Power : Single phase AC 220V 50/60Hz**
- **1 for each outdoor unit (max 64 indoor units)**
- MULTI V MINI (ARUN40GS2A/ARUV40GS2A Only needs PI485)
- SCAC
- MULTI
- AWHP

- **Model name : PHNFP14A0**
- **Power : Connected with the indoor units**
- **1 for each unit**
- Eco V

- **Model name : PSNFP14A0**
- **Power : Connected with the indoor units**
- **1 for each indoor unit**
- Non-inverter products

* Provided with a case to be installed on the exterior.

* MULTI V I & II & IV series don't need any other PI 485 because MULTI V I & II & IV series have PI 485 in its outdoor unit PCB.

DO KIT

Connected between AC Manager Plus (or ACP, AC Smart) and external devices, which can switch On/Off devices such as light, pump, motor, etc

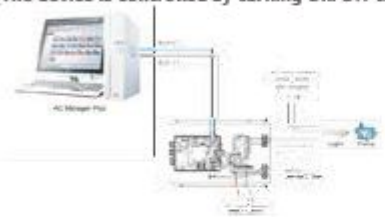
PQNFP00T0

Features

- When the product input is less or equal to 25A
(The device is controlled by turning On/Off the power supply line of the product.)

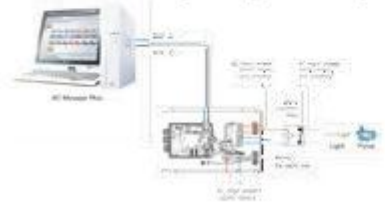
1. Pull out the power or shut down the breaker.
2. Connect the power line from the breaker to the additional relay cable.
3. Connect the device power line to the additional relay cable.
4. Finish the connected area with the insulating tape.

- When the product input is greater or equal to 25A
(The device is controlled by turning On/Off the indoor/outdoor communication line.)



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

- When the product input is greater than or equal to 25A
(The device is controlled by turning On/Off the power supply line of the product thrue a field-supplied relay)



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

ACS
ELECTRONIC ACC.

PDI

› pg.110

PDI Premium

› pg.112

Dry Contact

› pg.114

Remote Temperature Sensor

› pg.120

Cool / Heat Selector

› pg.121

Group Control Wire

› pg.122

PDI
(POWER DISTRIBUTION INDICATOR)

For multi indoor units connected to an outdoor unit, the individual unit's total system power consumption can be displayed on the device. This system can also be connected to a remote metering system

PQNUD1S00

Features

- Accumulated total power consumption indicated
- Accumulated/Current power consumption of each indoor unit indicated.
- Accumulated power consumption by month indicated
- Max. connectable no. of indoor units : 64 indoor units
- 1 PDI per 1 outdoor unit
- Power failure-proof function : Data back up on EEPROM even if power turns off
- Connectable to PC based central controllers
- Simple connection with the remote metering system (RS485 approach)
- Power distribution indication formula

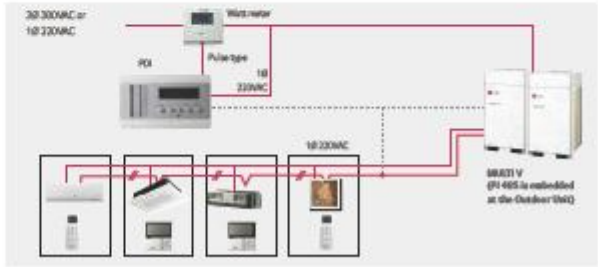
Power used per room = Total power consumed for an external unit × Weight by room total weight

*Weight by room: Weight calculated based on the temperature set by room, mode and operating time.

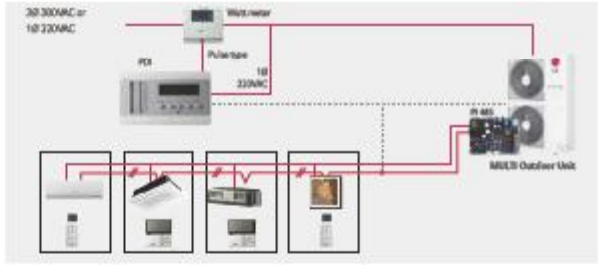
Combination

Independent operation of PDI

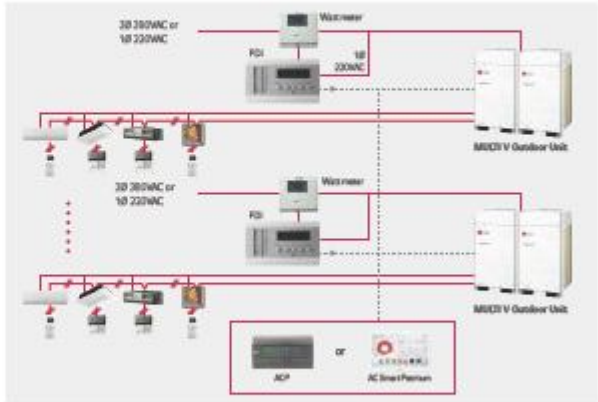
- MULTI V III / MULTI V IV / MULTI V WATER II / MULTI V WATER IV / MULTI V SPACE / MULTI V SPACE II / MULTI V SPACE III / MULTI V MINI MULTI V PLUS II / MULTI V SYNC II



- MULTI



- Operation with other central controllers



PDI PREMIUM

For multi indoor units connected to an outdoor unit, the individual unit's total system power consumption can be displayed on this device. This system can also be connected to a remote metering system.

PQNUD1S40

Error display
Shows accumulated power consumption of the system.

```
ERROR - 01
NO COMMUNICATION
WITH AIRCONDITIONER
IDU ADDRESS [00 - 07]
```

If communication with the product is not smooth

```
ERROR - 02
NO SIGNAL FROM WHM1
```

If no power detection signal is available

Features

- Connection to max 8 outdoor.
- Accumulated total power consumption of outdoor and indoor unit.
- Accumulated / Current Power Consumption of each indoor unit.
- Max 128 indoor units.
- RS-485 type wattmeter can be interlocked.
- Data Back up.

Instantaneous power screen
Shows the estimated value based on one minute power consumption.

```
INSTANT    P(1)      0    W   → Overall instantaneous power of P(1) wattmeter
ID - 01 :            0    W   ┐
ID - 02 :            0    W   ├→ Instantaneous power of each applicable indoor unit
ID - 03 :            0    W   ┘
```

Wattmeter number

Each indoor unit number

Total accumulated power consumption display
Shows accumulated power consumption of the system.

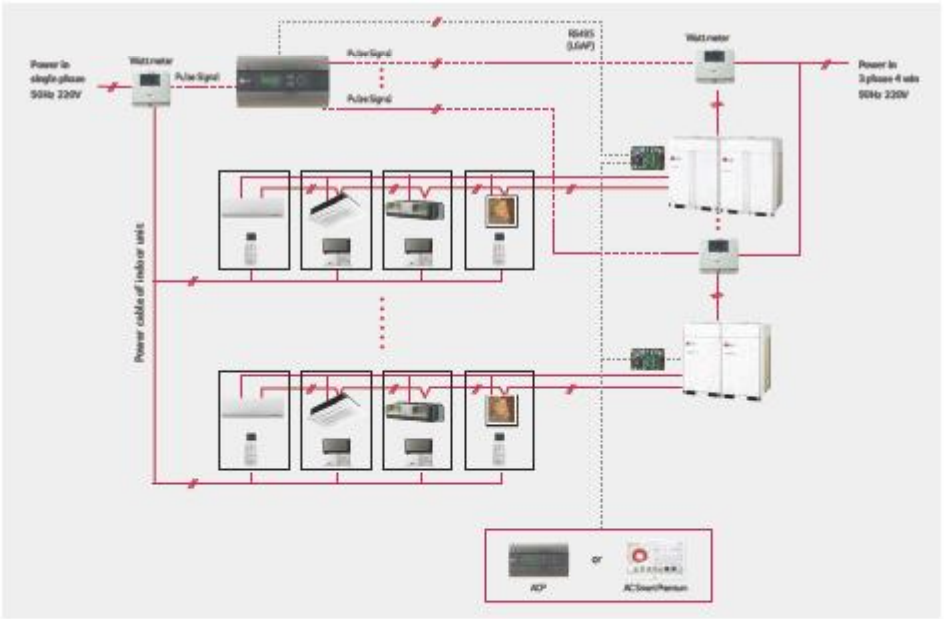
```
ACCUM (P1)      0 . 0kWh   → Overallaccumulated power of P(1) wattmeter
ID - 01 :       0 . 0kWh   ┐
ID - 02 :       0 . 0kWh   ├→ Accumulated power of each applicable indoor unit
ID - 03 :       0 . 0kWh   ┘
```

Wattmeter number

Each indoor unit number

Combination

- Using Pulse Type Wattmeter : Independent operation of power indicator



DRY CONTACT

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

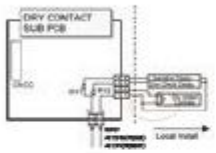
PQDSA(1)
PQDSB(1)
PQDSBC

Features

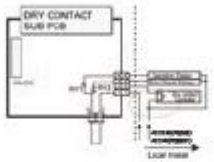
Categories	PQDSA/ PQDSB	PQDSA1/ PQDSB1	PQDSBC
Contact point	1 Control point	1 Control point	2 Control points
Power input	AC 220V from outside power source	AC 24V from outside power source	DC 5V&12V from indoor unit PCB
Voltage / Non voltage input	-	-	O
On/Off control	O	O	O
Lock / Unlock	-	-	O
Fan speed setting	-	-	O
Thermo off	-	-	O
Energy saving	-	-	O
Temperature setting	-	-	O
Error monitoring	O	O	O
Operation monitoring	O	O	O

* Refer to each model PCB for applicable models
* With case model : PQDSB(1), PQDSBC / Without case model : PQDSA(1)

PQDSA(1), PQDSB(1)

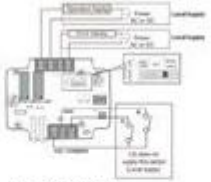


To apply power source through PCB

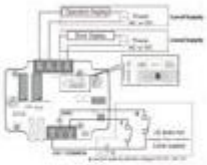


To apply power source directly to external source

PQDSBC



In case Non Voltage signal



In case Voltage signal

Combination

System Structure

DRY CONTACT

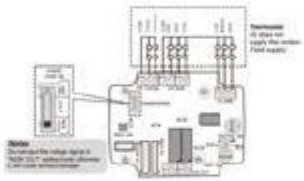
Connection between an indoor unit and external devices to control various functions

PQDSBNGCM1

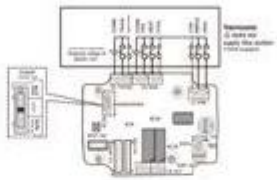
Features

Categories	PQDSBNGCM1
Dimensions	103 x 78 x 35 mm
Contact Point	8 contact point
Voltage / Non voltage input	O
On/Off control	O
Mode control	O (Cool, Heat, Fan)
Fan Speed Setting	O (Low, Middle, High)
Thermo off	O
Error Monitoring	O
Operation monitoring	O
Contact (output)	2 contact (operating, error)
Rotary switch 1	Operating set temp selection
Rotary switch 2	Operating logic selection

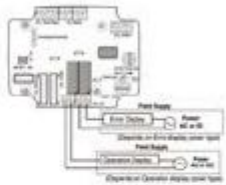
PQDSBNGCM1



- For no power contact point signal input



- For power contact point signal input



- Indoor unit monitoring

Combination

DRY CONTACT

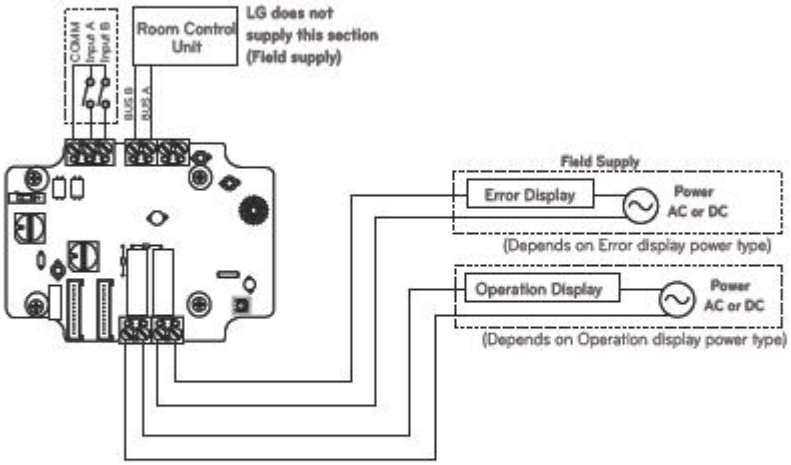
Connection between an indoor unit and external devices to control various functions

PQDSBCGCD0

Features

1) Model name : PQDSBCGCD0
2) Specification
- Dimensions(mm) : 105x78x35
- Applied Model : MULTI V II, MULTI V III, MULTI V IV
- Function
  - Contact Point : 2 contact point (operation depends on the Control Mode_SW setting)
  - PI 485 Communication Mode Input : LGAP 485 Communication
  - Voltage/Non Voltage Input
  - Error Monitoring Output
  - Operation Monitoring Output

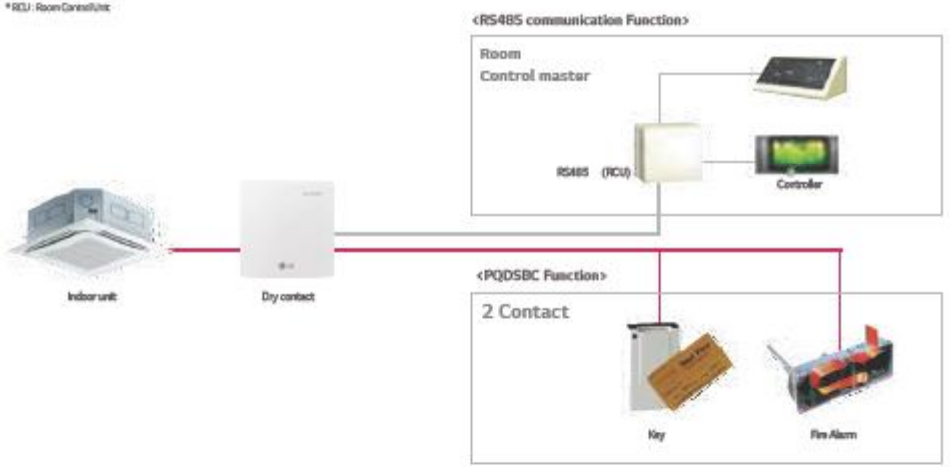
3) Description
The product is especially designed for interface with other controllers using dry contact communication or RS485 communication



Combination

RS485 Communication Function

*RCU : Room Control Unit



I/O MODULE (INPUT / OUTPUT MODULE)

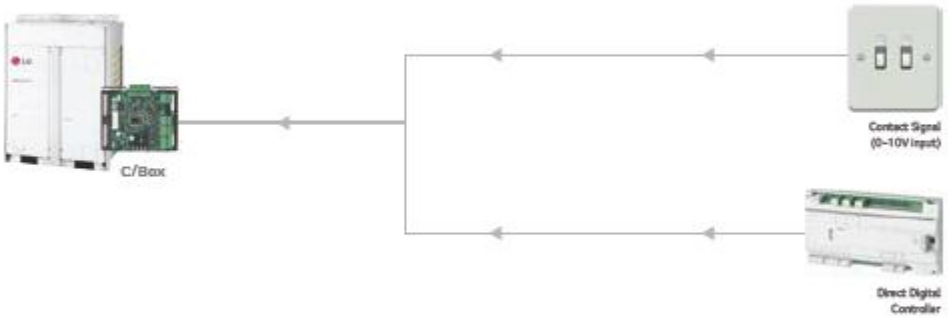
UART to external device interface module for system air conditioner

PVDSMN000

Features

1) Model name : PVDSMN000
2) Specification
• Applied Model : Only MULTI V IV
• Function
- Demand control
- Low speed control (Night low noise operation)
- Operation, error output
- Comp off, system off
3) Description
I/O (Input / Output Module) Module is communication interface module for connection between Multi V IV and external I/O (Input / Output Module) devices.

Combination



VARIABLE WATER FLOW CONTROL KIT

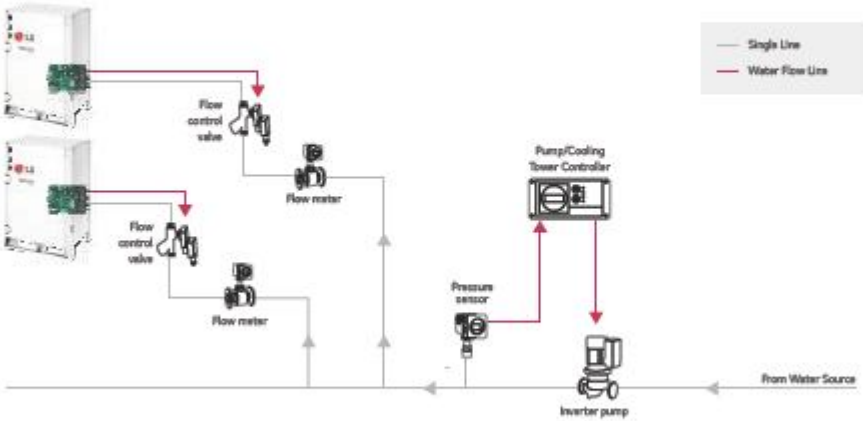
Accessory developed for controlling the water flow

PRVCO

Features

1) Model name : PRVC0
2) Specification
• Applied Model : MULTI V WATER
• Function
- Water pump valve control (0~10V)
- Minimum voltage setting available
- Operation, error output (display)
• Advantage
- Water flow consumption reduction
- Pump electricity consumption reduction
3) Description
The product is specially designed to control the water pump valve in MULTI V Water system.

Combination



• Flow control valve : Regulates the flow or pressure of a fluid, normally responding to signals generated by independent devices.
• Flow Meter : Measures mass flow rate of a fluid traveling through a tube. (The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.)
• Pressure Sensor : Measures the pressure.

REMOTE TEMPERATURE SENSOR

Sensor for detecting room temperature

PQRSTA0

Features

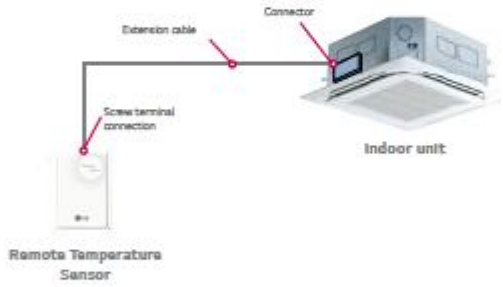
- Helps to detect the exact room temperature.
- Applied to ceiling cassette, ceiling concealed duct, AWHP and Hydro Kit.

Parts Included

- Remote temperature sensor
- Extension cable (1.5m)
- 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.



COOL / HEAT SELECTOR

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

PRDSBM

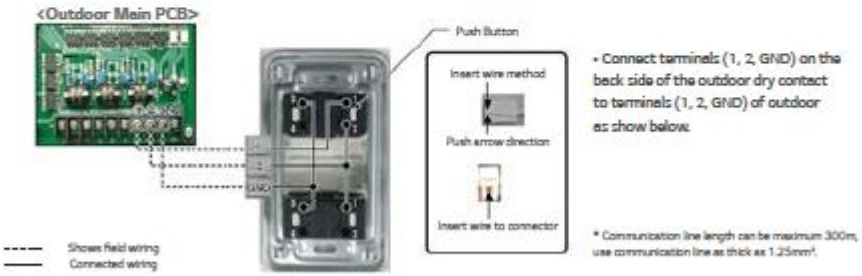
Features

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

Models Applied

- MULTI V PLUS
- MULTI V WATER III, IV
- MULTI V MINI
- MULTI V III, IV
- MULTI V SPACE II

Wiring Diagram



- Connect terminals (1, 2, GND) on the back side of the outdoor dry contact to terminals (1, 2, GND) of outdoor as show below.

* Communication line length can be maximum 300m, use communication line as thick as 1.25mm².

GROUP CONTROL WIRE

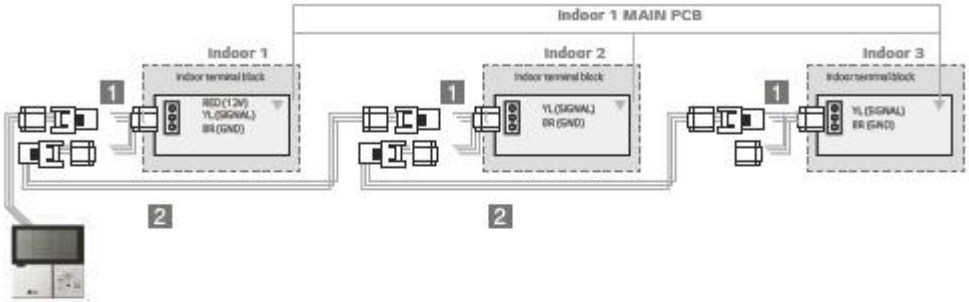
Cables used to connect a wired remote controller to as many as 16 indoor units

PZCWRCG3

Features

Categories	PZCWRCG3
Y-type cable	25cm length
Long Cable	9.6m length

Wiring Diagram



Note 1 Cable assembly for indoor units.
2 Cable assembly for connecting indoor to indoor
- Please connect cable assembly 1 with already connected indoor unit.

MECHANICAL ACCESSORIES

Drain Pump Kit

› pg.126

Auto Elevation Grille

› pg.128

Ventilation Kit (Fresh kit) for New Cassette

› pg.129

Cassette Cover

› pg.130

Mechanical Accessories Line up and Application

Categories	SCAC Type	MULTI Type	MULTI V Type	Remark
ARTCOOL Panel	O	O	O	ARTCOOL indoor unit
Electric Heater	O	-	-	Single package / Ducted split
Drain Pump Kit	O	O	-	Ceiling concealed duct
Auto Elevation Grille	O	-	O	4 Way Cassette
Cassette Cover	O	O	O	4 Way Cassette

DRAIN PUMP KIT

Drains away condensed water

ABDPE
ABDPG
ABDPT


ABDPE


ABDPG


ABDPT

Features

- In some places where natural drainage is not possible, a drain pump can be used to pump out condensed water from indoor units.
- Drain pump assembly (AC 220~240V, 50/60Hz)

Models Applied

- Ceiling concealed duct (refer PDB for applicable models)

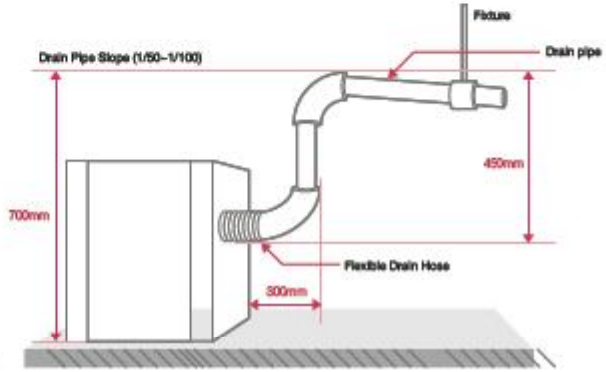
Accessory Model Name

- Ceiling concealed duct (refer PDB for applicable models)

Category	E Chassis	G/H/R Chassis	T Chassis
	ABDPE	ABDPG	ABDPT
MULTI V Type	Default	Default	Default
MULTI Type	O	O	O
SCAC Type	O	O	-

Application

High head drain pump automatically drains water up to 700mm of drain-head height.



* Included in H-Inverter
* Supplied as acacessory for Standard Inverter (ABDPG)

Parts Included

For E Chassis Models :

- Drain pump assembly (1EA)
  (AC 220~240V,50/60Hz,400CMM)
- Elbow (Ø32)(1EA)
- Hose (1EA)
- Tie wrap (2EA)
- Screw (10EA)
- Rubber (1EA)
- Installationmanual (1EA)

For G/H/R/T Chassis Models :

- Drain pump assembly (1EA)
  (AC 220~240V,50/60Hz,400CMM)
- Screw (4EA)
- Cap (1EA)
- Installation manual (1EA)

AUTO ELEVATION GRILLE

Easy filter cleaning with elevation grille

PTEGM0

Features

Easy filter cleaning with elevation grill

- Installation inside main body
- Auto horizontal control
- 4 points support structure
- Height Memory
- Max 4.5m length
- Model : PTEGM0(TM, TN, TP)

*Operating with wired remote controller PQRCVSL0(2W0) and wireless remote controller included in PTEGM0.

Models Applied

- 4-way cassette : Single CAC, MULTI, MULTI V (refer PDB for applicable models)

Parts Supplied

- Inlet Grille (1EA)
- Auto elevation grille kit (1EA)
- Wireless Remote Controller (1EA)
- Screws (4EA)
- Installation manual (1EA)

Application

- Auto elevation grille kit
- Install the kit inside the indoor unit
- Install the front panel and the inlet grille
- Operate the auto elevation grille by the wireless remote controller
- Easy maintenance

VENTILATION KIT

Fresh air can be supplied from outside through this ventilation kit

PTVK410
PTVK420
PTVK430

PTVK410 PTVK420 PTVK430

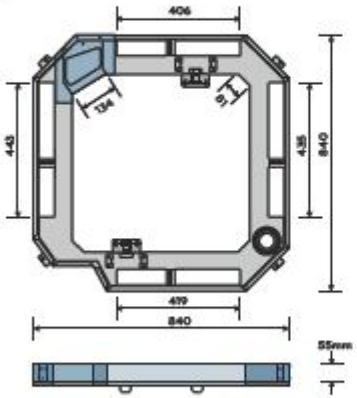
Features

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

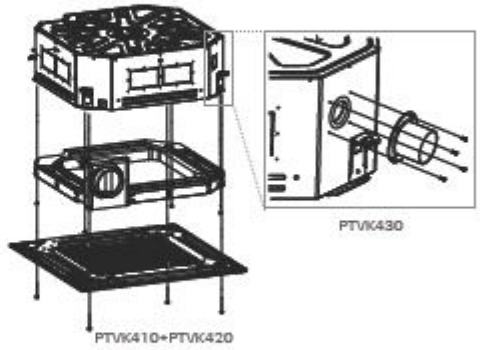
Models Applied

- There are 2 solutions for fresh air
  - PTVK410+PTVK420 (for chassis TP, TN, TM)
  - PTVK430 (for chassis TR, TQ, TP, TN, TM)
- * Users can purchase and use PTVK430 in addition to PTVK410+PTVK420 in need to phase in larger outdoor air volume.

Dimensions



Assembly Diagram



PTVK430

PTVK410+PTVK420

CASSETTE COVER

Air purifying filter to prevent dust and allergens

PTDCM
PTDCQ

Features

- Specially designed for indoor unit.
- Covers the side area of cassette.
- Light weight.
- Suitable when false ceiling is unavailable.

Models Applied

- 4-way cassette (TP, TN, TM, TQ, TR)

Parts Supplied

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

Accessory Model Name

Model	Front Panel		Weight(kg)		Dimensions(mm)		
			NET	Gross	W	H	D
PTDCM	PT-UMC/ PT-UMC1	TP/TN	5.9	8.8	1,157	1,157	288
		TN	5.9	8.8	1,157	1,157	310
PTDCQ	PT-UQC	TR	5.0	7.3	907	907	288
		TQ	5.0	7.3	907	907	310

PIPING ACCESSORIES

Heat Recovery Unit

› pg.132

Y Branch & Header Branch(MULTI V)

› pg.134

Heat Recovery Unit

PRHR021
PRHR031
PRHR041


PRHR021


PRHR031


PRHR041

Features

- Max. 32 indoor units can be connected. (Max 8 indoor units per branch)
- Due to the automatic search algorithm for piping detection, easy installation
- Subcooling cycle in HR unit provides high system efficiency

Applicable Models

- MULTI V SYNC
- MULTI V SYNC II
- MULTI V WATER II Heay Redovery
- MUTI V III Heat Recovery

Specification

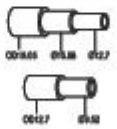
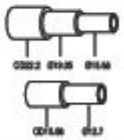
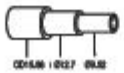
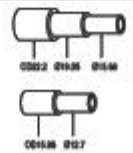
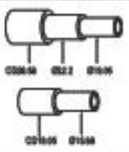
Model				PRHR021	PRHR031	PRHR041
Number of branch			EA	2	3	4
Max. connectable capacity of indoor units (Per branch/unit)			kW	10/32	10/48	10/58
Max. number of connectable indoor units per branch			EA	8	8	8
Nomal Input	Cooling		kW	0.020	0.040	0.040
0.040	Heatin		kW	0.020	0.040	0.040
Net. Weight			kg	18	20	22
Dimensions(WxHxD)			mm	801x218x617	801x218x617	801x218x617
Piping connections	Indoor Unit	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
		Gas	mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Outdoor Unit	Liquid	mm(inch)	9.52(3/8)	15.88(5/8)	15.88(5/8)
		Low pressure	mm(inch)	22.2(7/8)	28.58(11/8)	28.58(11/8)
		High pressure	mm(inch)	19.05(3/4)	22.2(7/8)	22.2(7/8)
Power Supply			ø/V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50

Dimensions

- HR unit (1EA)
- Hanging bolts M10 or M8 (4EA)
- Nut M8 or M10 (8EA)
- Washers M10 (8EA)
- Reducers

Reducers for Indoor Unit and HR Unit

(Unit: mm)

Model		Liquid pipe	High pressure	Low pressure
Indoor unit reducer				
HR unit reducer	PRHR021			
	PRHR031/ PRHR041			

Convenient Zoning

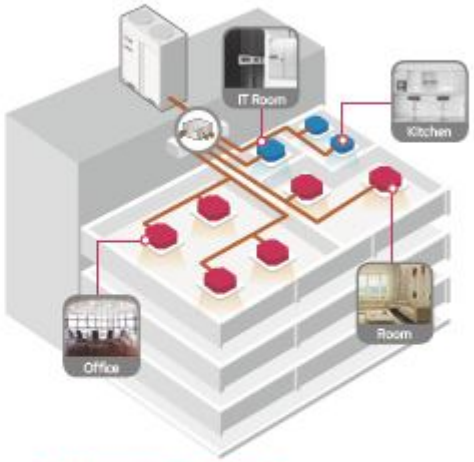
MULTI V IV heat recovery provides flexible control over individual zones for the user's convenience.

Individual Control
- Replace with individual control in spaces for which ventilation is needed

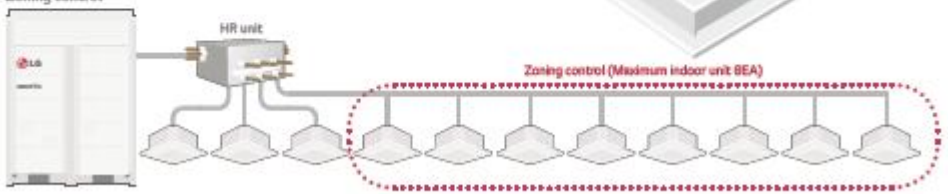
Zone Control
- Maximum of 8 indoor units can be connected to one branch
- Maximum of 32 indoor units can be connected to one HR unit
- Same operational model can be operated by indoor units with zone control function installed

Combination of Individual and Zoning Installations
- Flexible piping design

Saves on product and installation Costs



Zoning control



Y BRANCH AND HEADER BRANCH (MULTI V™)

For refrigerant distribution of indoor units

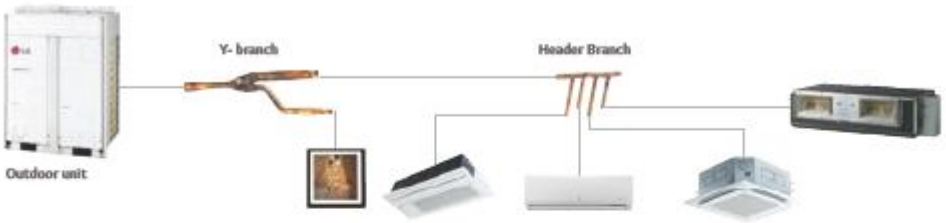

Y Branch


Header Branch

Features

- Various Y-branch pipes of different capacities make MULTI V installation more convenient.
- Y-branch and header branch for both gas and liquid are provided.
- Insulation material is provided for covering the branches.

Piping Diagram



Applicable Models

- MULTI V PLUS
- MULTI V PLUS II
- MULTI V III
- MULTI V IV
- MULTI V MINI
- MULTI V SPACE II
- MULTI V SPACE III
- MULTI V WATER II
- MULTI V WATER IV
- MULTI V Heat Recovery

Accessory Model Name

Header Branch

- R410A

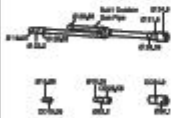
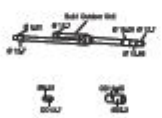
(Unit : mm)

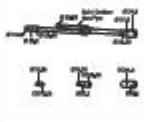
Model	Gas pipe	Liquid pipe
4 branch / ARBL054		
7 branch / ARBL057		
4 branch / ARBL104		
7 branch / ARBL107		
10 branch / ARBL1010		
10 branch / ARBL2010		

PIPING ACCESSORIES

- R410A / MULTI V PLUS, MULTI V PLUS II

(Unit : mm)

2 Outdoor Units		
Model	Low Pressure Gas pipe	Liquid pipe
ARCNN20		

3 Outdoor Units		
Model	Low Pressure Gas pipe	Liquid pipe
ARCNN20		
ARCNN30		

- R410A / MULTI V SYNC, MULTI V SPACE II

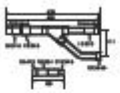
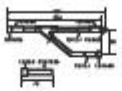
(Unit : mm)

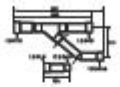
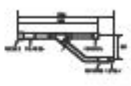
2 Outdoor Units			
Model	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARCNB21			

2 Outdoor Units			
Model	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARCNB20			
ARCNB30			

- R410A / MULTI V III, MULTI V IV

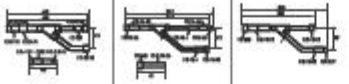
(Unit : mm)

2 Outdoor Units		
Model	Low Pressure Gas pipe	Liquid pipe
ARCNN21		

3 Outdoor Units		
Model	Low Pressure Gas pipe	Liquid pipe
ARCNN31		

- R410A / MULTI V III Heat Recovery

(Unit : mm)

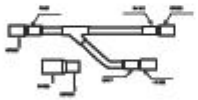
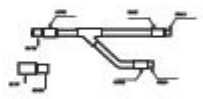
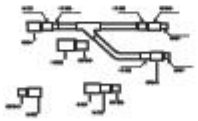
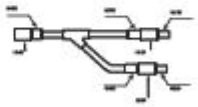
2 Outdoor Units			
Model	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARCNB21			

3 Outdoor Units			
Model	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARCNB31			

PIPING ACCESSORIES

• R410A / **MULTI V PLUS, MULTI V PLUS II, MULTI V III, MULTI V IV, MULTI V MINI, MULTI V SPACE II, MULTI V SPACE III, MULTI V WATER II, MULTI V WATER IV**

(Unit : mm)

Model	Gas pipe	Liquid pipe
ARBLN01621		
ARBLN03321		

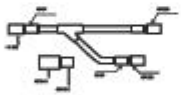
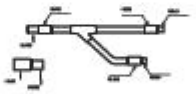
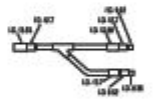
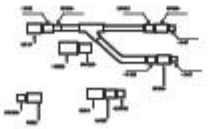
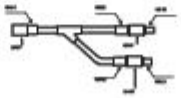
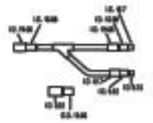
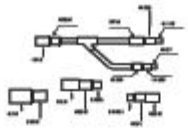
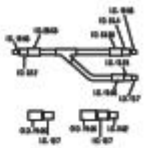
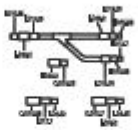
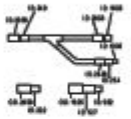
• R410A / **MULTI V PLUS, MULTI V PLUS II, MULTI V III, MULTI V IV, MULTI V WATER II, MULTI V WATER IV**

(Unit : mm)

Model	Gas pipe	Liquid pipe
ARBLN07121		
ARBLN14521		

• R410A / **MULTI V III, MULTI V IV, MULTI V WATER II, MULTI V WATER IV, MULTI V SYNC, MULTI V SYNC II**

(Unit : mm)

Model	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARBLB01621			
ARBLB03321			
ARBLB07121			
ARBLB14521			

The Total HVAC and Energy Solution Provider

Ever since manufacturing Korea's first homegrown air conditioner in 1968, LG has remained at the forefront of air conditioning innovation. For eight of the last 10 years, LG has been the world's top selling manufacturer of residential air conditioning solutions. And in 2008, LG became the first company to sell a cumulative total of more than 100 million air conditioners.

Building on its success and technological leadership in the residential air conditioning sector, LG has moved into system air conditioning as well. The company's range of high-performance system air conditioning products provides effective temperature control to large-scale buildings and facilities. Over time, LG has evolved into the total HVAC and energy solution provider, investing in new technologies and adding chillers, VRF systems, and building management systems (BMS) into its comprehensive product portfolio.

Along with a wide range of innovative solutions, LG delivers unrivalled customer service. The company produces world class air conditioning professionals at its AC academies, of which there are more than 100 worldwide. These centers of excellence provide detailed product workshops and training programs that offer invaluable hands-on experience. LG also provides useful tools for HVAC system engineers and installers, including its timesaving LG Air Conditioner Technical Solution (LATS) software.

Additionally, LG operates several state-of-the-art R&D facilities in various countries. One such facility is the Energy Lab, a purpose-built R&D and testing center in northern France. Helping to keep the company ahead of the competition, the scientists and engineers at the Energy Lab study the effects of different environmental conditions on LG's products. This in-depth research and analysis enables LG to tailor its solutions to the specific environmental demands of each individual market.

With 10 manufacturing plants throughout the world, LG produces in excess of 17 million reliable compressors and 16 million first-class HVAC solutions per year. Combining the best technologies with the best ideas, LG's high quality products are now enjoyed by consumers in over 100 countries.