



LG HVAC SOLUTION

MULTI VTM 2014



LG Electronics
AE Company, Commercial Air Conditioning

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MULTI V IV Development Philosophy

"Vitalizing every environment" is the ultimate goal of LG Air Conditioning and Energy Solution company. It is a vision to provide great vitality to everyone, everywhere on the globe – from consumers' private residences to commercial buildings and shared communal spaces. Under this unified goal, the company is committed to providing highly innovative heating, ventilation and air conditioning (HVAC) solutions, offering building users completely pleasant environments while being energy.

In the last few years, LG has focused on the development of variable refrigerant flow (VRF) technologies, the latest series of advanced air conditioning solutions. Standing at the forefront of realizing LG's aspirational philosophy is the development of the MULTI V IV: A product which extends the VRF model, ensuring startling operational efficiency in cooling as well as heating for high-rise buildings, while defying comparison to any conventional HVACs.

As many manufacturers have now incorporated VRF technologies into their products, the likelihood of further innovating on this platform has been perceived as being fairly low. LG has been able to achieve a technological breakthrough on its latest VRF system – the MULTI V IV, namely the drastic reduction in the cause of 'hidden energy loss', which is a big factor in the ineffective performance of HVAC.

In the development process of the MULTI V IV, LG has undertaken close observation, testing, analysis and extensive R&D, in order to create an industry-first technology aimed at improving operational efficiency. It is the latest innovation in LG's long experience in air conditioning which dates back to 1968 and another success for the company's dedicated R&D capacity. With HVAC innovation at the core of the product, the MULTI V IV represents a symbol of LG's unprecedented achievement, driven by the 'Vitalizing every environment' development philosophy.

The Rule of 20: The Reason Why We Focus on the Energy Efficiency

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 CO₂ 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

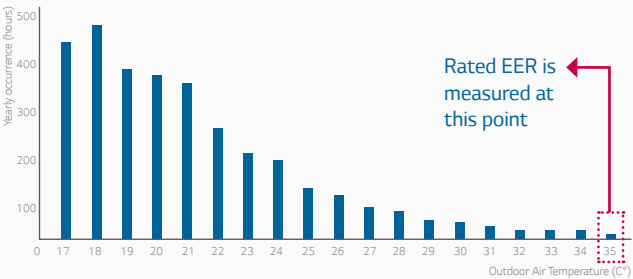
The EER and COP ratings have been the two most common coefficients in terms of efficiency measurement to date. HVAC manufacturers have focused on increasing these two values to see the improvement of products in operational efficiency.

However, rated EER or rated COP is limited in value, as it only measures power input in comparison with power output under specific conditions. Seasonal efficiency, provides a more realistic determination of performance. This system

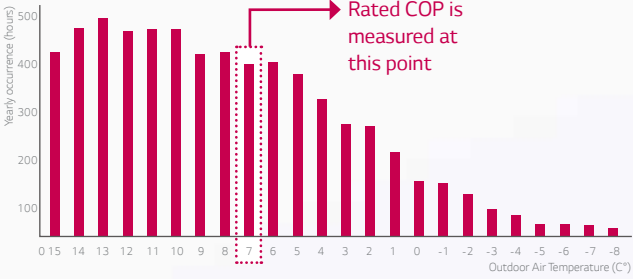
measures the ratio of cooling output to energy consumption over the course of a given season, taking varying temperatures into account for greater accuracy.

HVAC system generally operates in part load 98% of the time, typically situated between 40-80% of maximum output. This means that despite rated EER and rated COP, if part load efficiency is not properly examined, the reduced operational costs are not necessarily ensured.

Operating Hour for Cooling

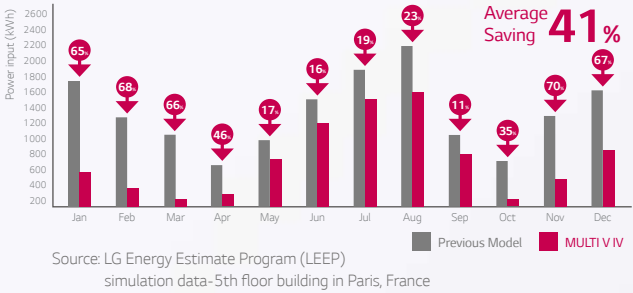


Operating Hour for Heating



World’s First Class Seasonal Efficiency

LG has continuously focused most of its capacity on increasing seasonal efficiency which is a more accurate indicator of the level of part load efficiency, as well as improving the value of rated EER and rated COP. As a result of the extensive R&D effort, the MULTI V IV is capable of ensuring up to average 41% more power input per year, compared to previous model, the MULTI V III.



‘The True Leader of 4’, MULTI V IV

In order for the MULTI V IV to achieve unbeatable seasonal efficiency, LG has made ceaseless efforts, driving breakthrough VRF technological advancements that make the MULTI V IV differentiated from its predecessor, the MULTI V III. Finally, LG has helped to raise the standard of VRF technologies by developing the true fourth generation VRF system, rather than merely upgrading several numerical indicators or offering generic functions.

Thus, LG is dedicated to the ‘four key elements’ that determine operational efficiency, which include compressor, heat exchanger, oil and refrigerant technology. These four elements play key roles to maximize the energy efficiency of its VRF solutions.

As the result of heavy investment and e xtensive R&D to remove all forms of hidden loss, company’s own technologies, including High Pressure Oil Return (HiPOR™), Active Refrigerant Control, Smart Oil Return and the Variable Heat Exchanger Circuit have been developed for the MULTI V IV, contributing to raise seasonal efficiency.

LG is proud to introduce customers worldwide to its latest air conditioning solution, MULTI V IV. This groundbreaking product represents the embodiment of the company’s consistent commitment to excellence and technological innovation.



LG HVAC SOLUTION INDEX



OUTDOOR UNITS

- 012 **MULTI V™** IV
- 050 **MULTI V™** MINI
- 056 **MULTI V™** SPACE II
- 062 **MULTI V™** WATER IV
- 088 **MULTI V™** WATER S



INDOOR UNITS

- 092 **ARTCOOL**
- 093 **Wall Mounted**
- 095 **Console**
- 096 **Ceiling Cassettes**
- 098 **Ceiling Concealed Ducts**
- 100 **Ceiling & Floor / Ceiling Suspended**
- 101 **Floor Standing**



HYDRO KIT

- 126 **HYDRO KIT**

ecoV™

- 134 **ecoV™**
- 142 **DX ecoV™**

ACCESSORIES

- 148 **Air conditioner Control System**
- 192 **Mechanical Accessories**
- 204 **Piping Accessories**

MULTI V™

OUTDOOR UNIT LINE UP

MULTI V™ IV HEAT PUMP / HEAT RECOVERY



8, 10, 12HP



14, 16, 18, 20HP



22, 24HP



26, 28, 30, 32HP



34, 36, 38, 40HP



42, 44, 46, 48, 50, 52HP



54, 56, 58, 60HP



62, 64, 66, 68, 70, 72, 74, 76, 78, 80HP

MULTI V™ MINI



4HP
1Ø, 220V



5, 6HP
1Ø, 220V



4, 5, 6HP
3Ø, 380V

MULTI V™ SPACE II



6, 8HP

MULTI V™ WATER IV HEAT PUMP / HEAT RECOVERY



8, 10, 12, 14, 16, 18, 20HP



22, 24, 26, 28, 30, 32, 34, 36, 38, 40HP



42, 44, 48, 50, 52, 54, 56, 58, 60HP



62, 64, 66, 68, 70, 72, 74, 76, 78, 80HP

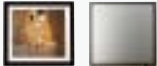
MULTI V™ WATER S



4, 5, 6HP

MULTI V™

INDOOR UNIT LINE UP

kW			1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	10.6	12.3	14.1	15.8	22.4	28.0
Btu / h			5k	7k	9k	12k	15k	18k	21k	24k	28k	36k	42k	48k	54k	76k	96k
ART COOL Series	Gallery																
	Mirror																
Wall Mounted																	
Console																	
Ceiling Cassettes	4 Way Cassette (570x570)																
	4 Way Cassette (840x840)																
	2 Way Cassette																
	1 Way Cassette																
Ceiling Concealed Ducts	Low Static																
	Built-in																
	High Static																
Fresh Air Intake Units																	
Ceiling & Floor																	
Ceiling Suspended																	
Floor Standing	With Case																
	Without Case																



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.

012 **MULTI V™ IV**

050 **MULTI V™ MINI**

056 **MULTI V™ SPACE IV**

060 **MULTI V™ WATER IV**

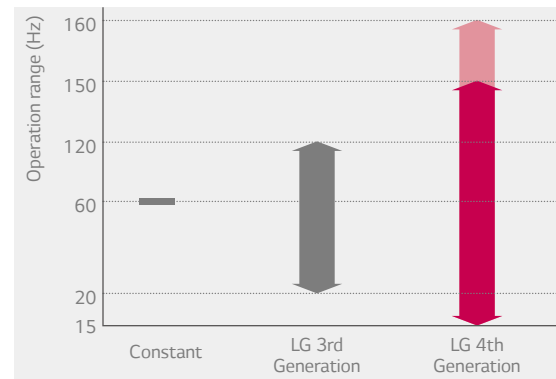
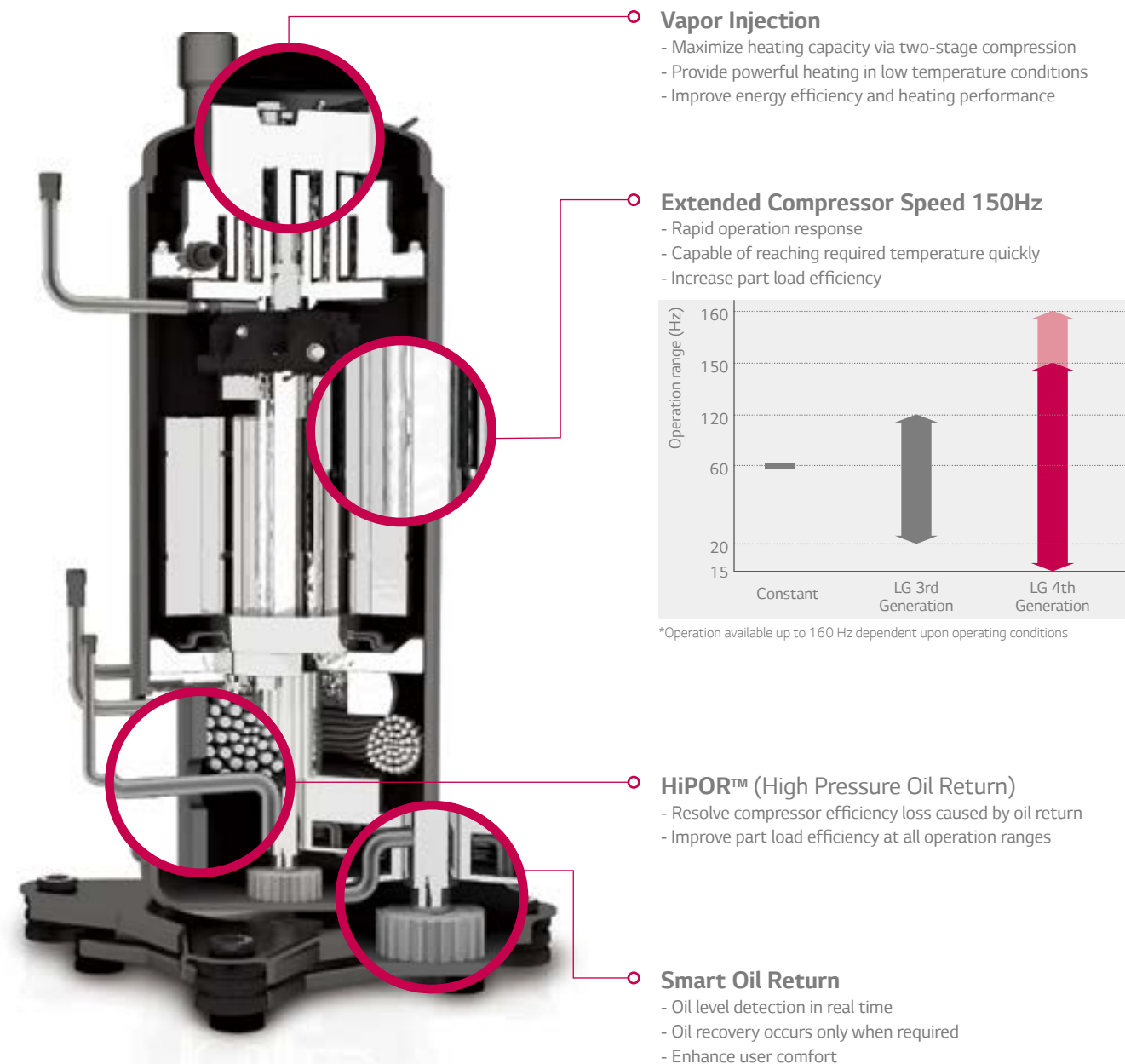
088 **MULTI V™ WATER S**

EXCEPTIONAL EFFICIENCY

World's first class, rated and part load efficiency

LG's 4th Generation Inverter Compressor

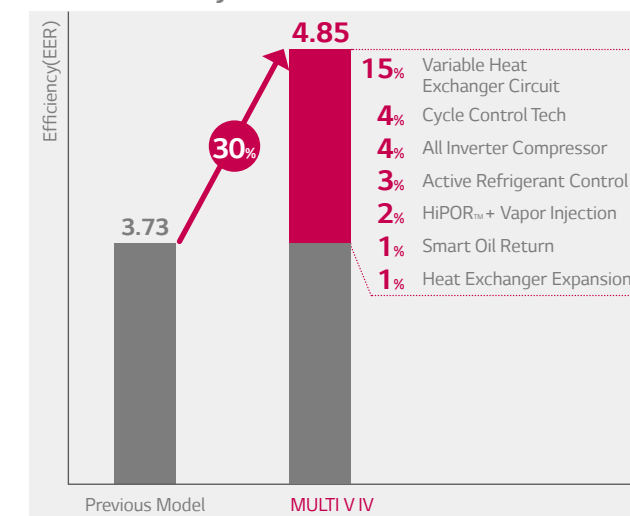
The new High-Side Shell (HSS) scroll inverter compressor and BLDC concentration motor coil optimizes part load efficiency, with 50% reduction in weight and increase in high-frequency operation of 120Hz to 150Hz.



*Operation available up to 160 Hz dependent upon operating conditions

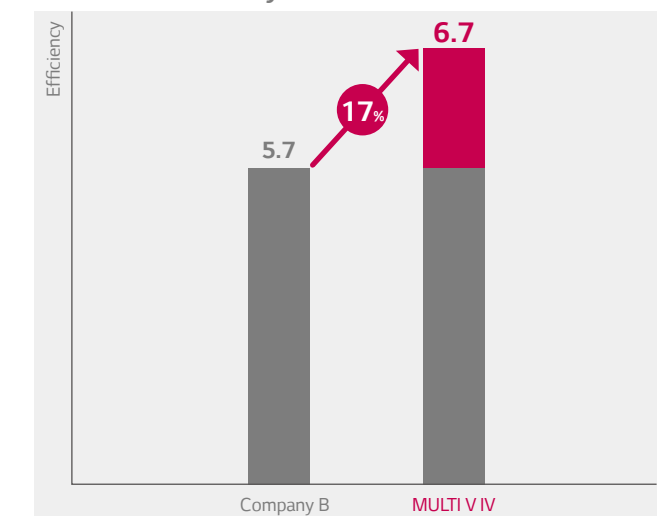
World's First Class, Rated and Part Load Efficiency

Rated Efficiency



* Comparison between 20HP in cooling mode

Part Load Efficiency



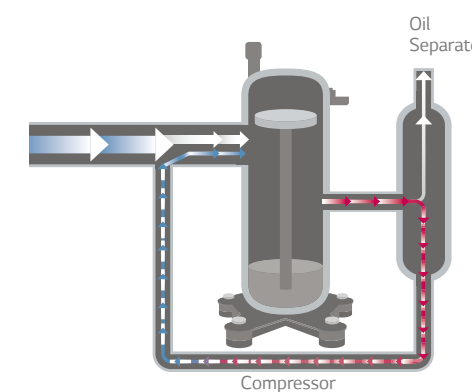
* Comparison between 20HP in cooling mode, part load efficiency based on internal test data

HiPOR™ (High Pressure Oil Return)

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

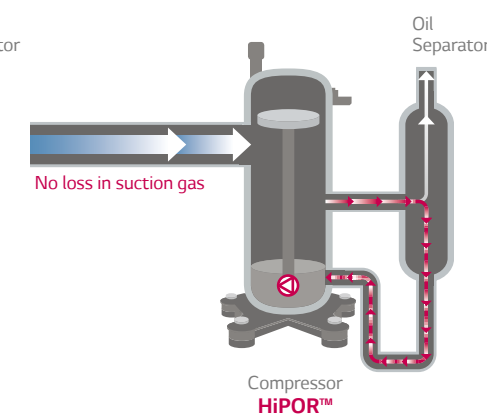
Conventional

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

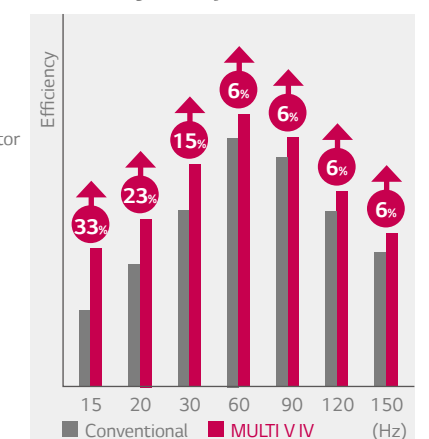


MULTI V IV

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



Efficiency Comparison



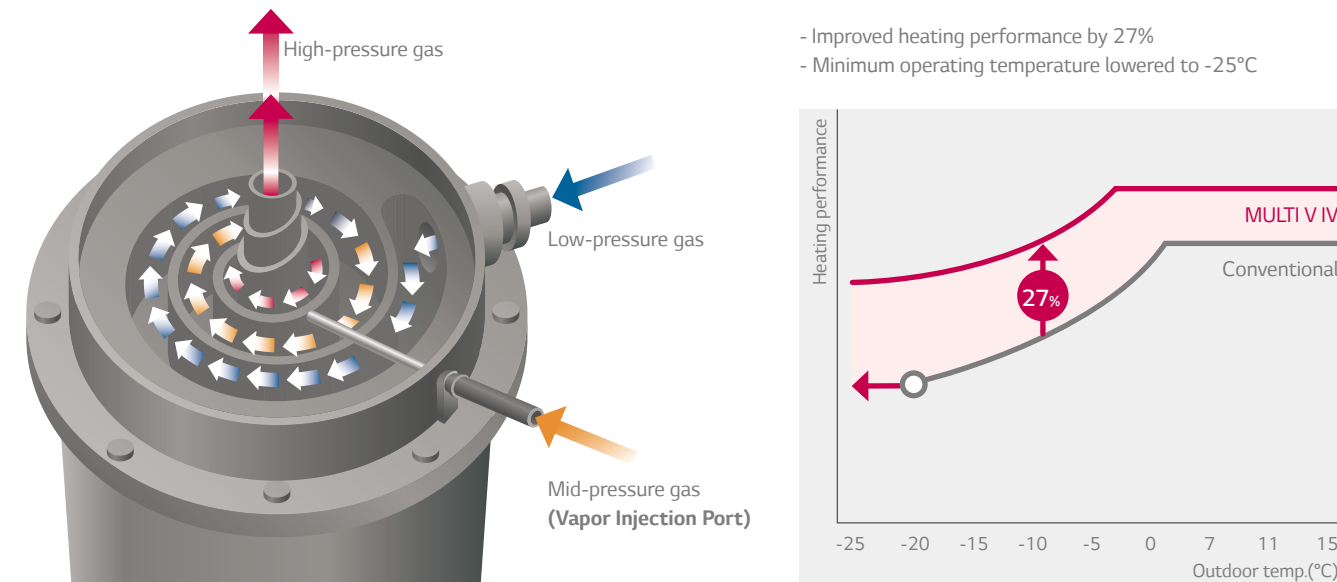
* Rating condition (Tc=54.4°C, Te=7.2°C)

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.



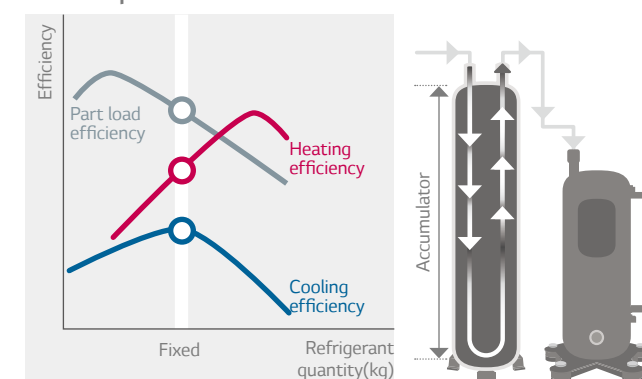
Active Refrigerant Control

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

Conventional

Regardless of operation mode, fixed amount of refrigerant is provided to the compressor, which limits optimal efficiency of each modes

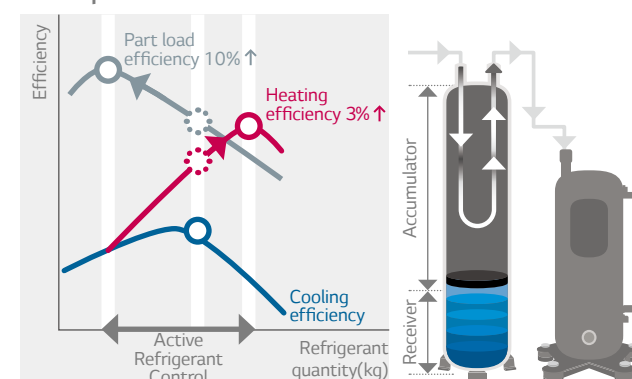
Compromising efficiency for each operation



MULTI V IV

Active Refrigerant Control automatically monitors and adjusts the volume of circulating refrigerant during each cycle. This precise, five-step control leads to an improvement in energy efficiency

Maximizing efficiency for all operations

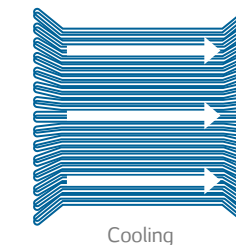


Variable Heat Exchanger Circuit

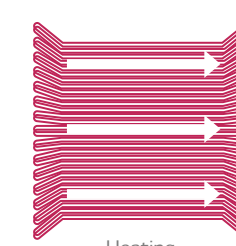
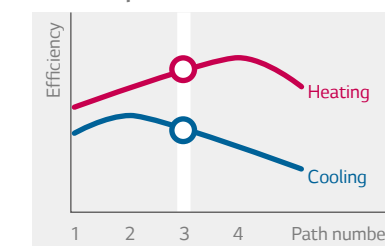
Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling.

Conventional

The number and direction of path are fixed independent of temperature and operation mode. A fixed path limits efficiency.

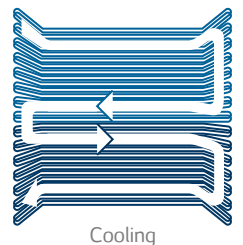


Compromising efficiency for each operation

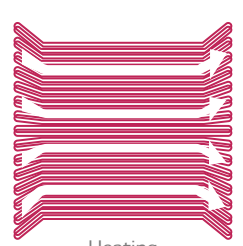
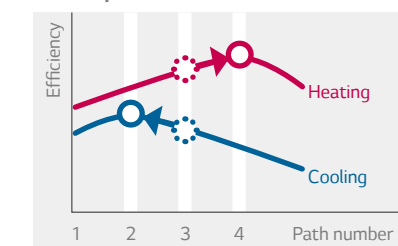


MULTI V IV

Variable Heat Exchanger Circuit adjusts the path number to match temperatures and operation modes, thereby contributing to an increase in energy efficiency



Maximizing efficiency for all operations

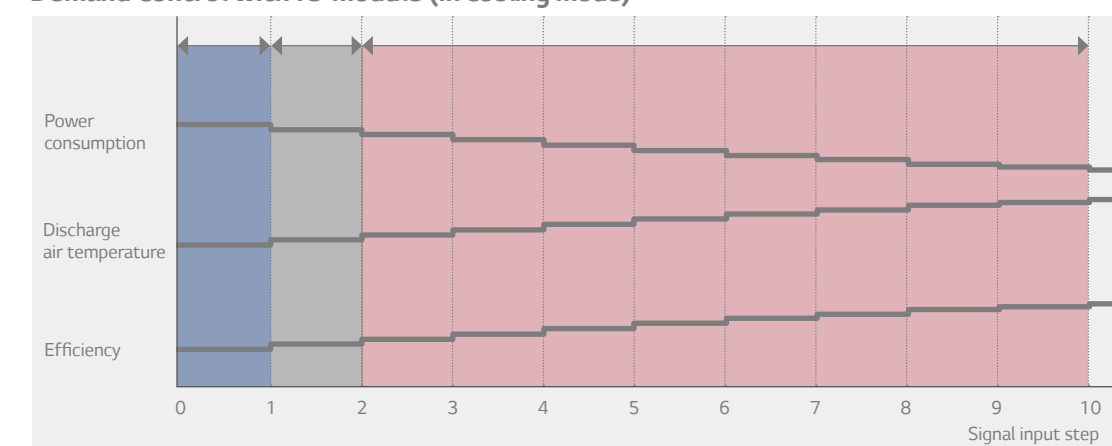


Flexible Capacity Control

It is possible for the user 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, IDU/ODU alarm operation, error alarm and low ambient control

OUTSTANDING PERFORMANCE

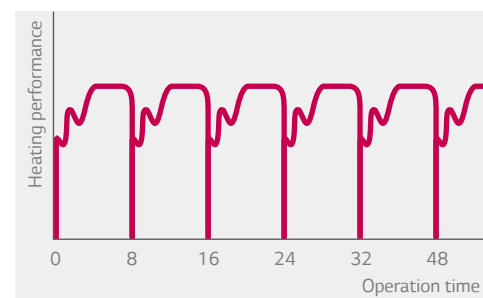
Always ahead of the competition and on the leading edge of innovation with powerful heating and unsurpassed cooling performance

Smart Oil Return

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

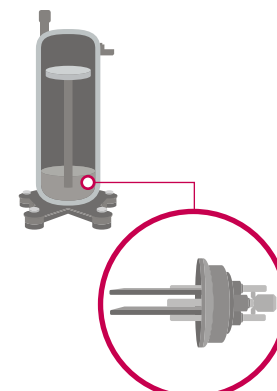
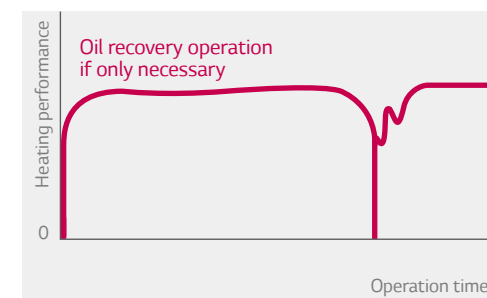
Conventional

- Periodic oil recovery operation (every 8hr) is required as compressor oil level sensing is not available
- During oil recovery operation, heating operation must be paused and total performance 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

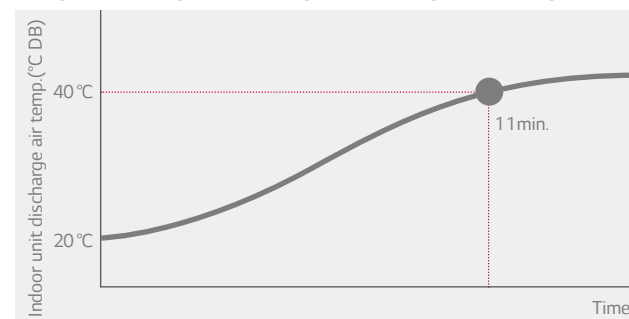
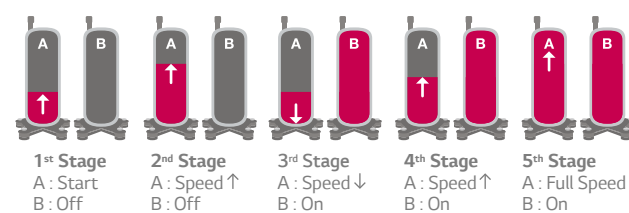


Oil Sensor
The value of the capacitance between the electrodes can measure the presence of oil in real-time

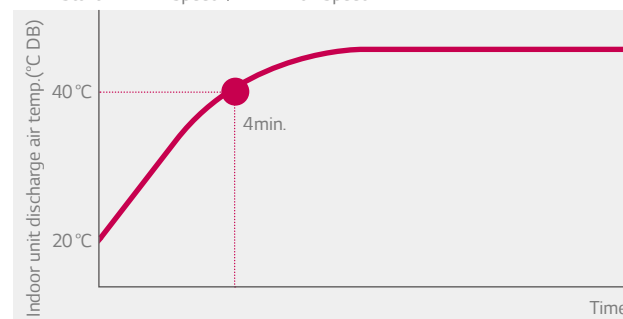
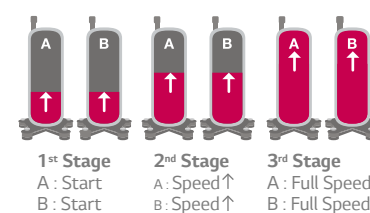
Fast Heating and Cooling via Advanced Inverter

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

Conventional



MULTI V IV



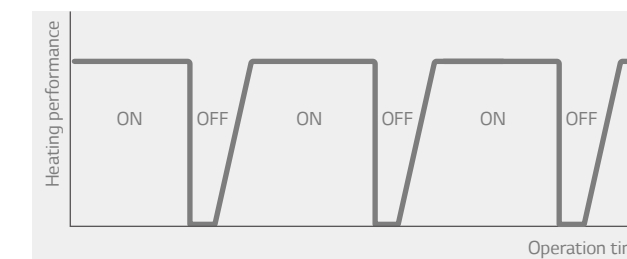
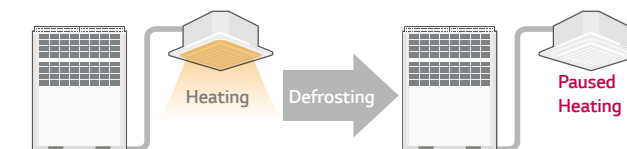
* Condition : Standard heating mode (Ambient air temp. 7°C, Indoor temp. 20°C)

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.

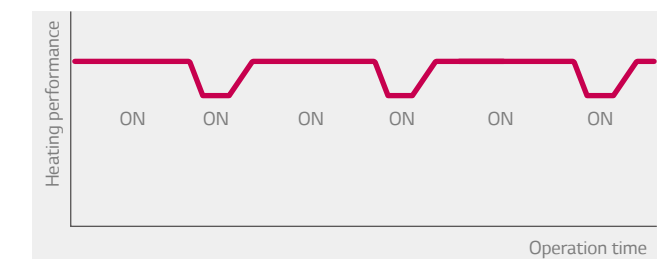
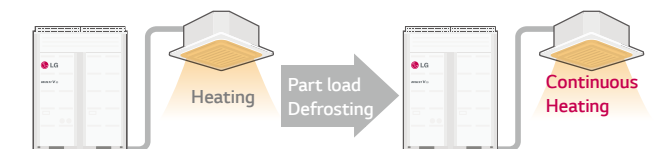
Conventional

Heating stops during defrosting operation.



MULTI V IV

Continuous heating during part load defrosting operation.



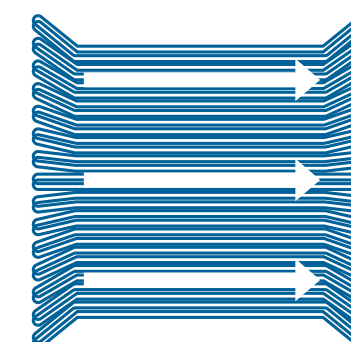
* Continuous heating operation can be switched to existing defrost mode depending on environmental conditions.

Cooling Operation Range Down to -10°C (14°F)

LG has expanded the 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 such as server rooms.

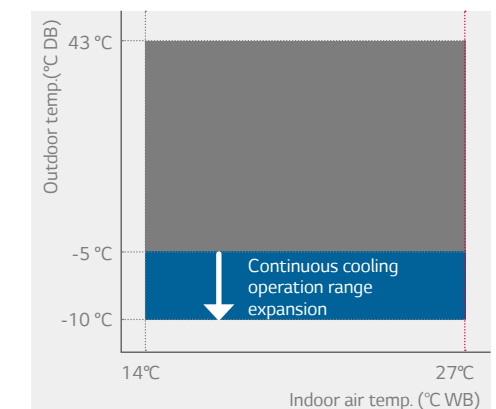
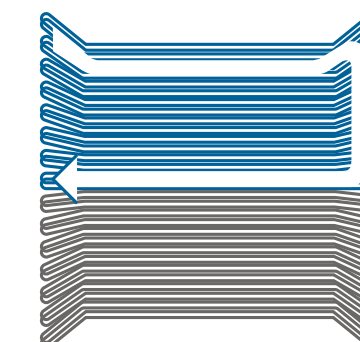
Conventional

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



MULTI V IV

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



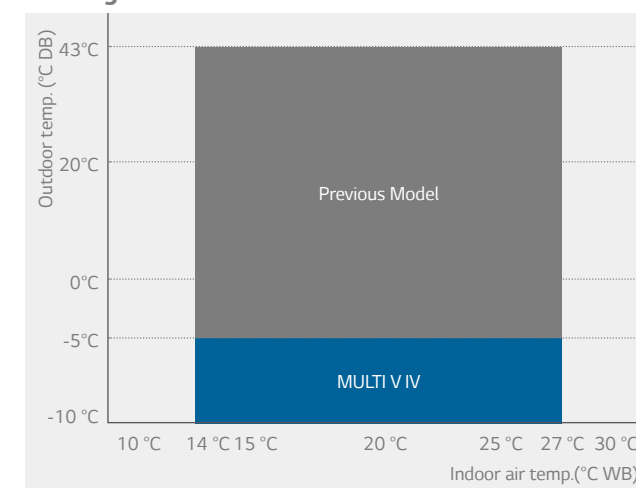
OUTSTANDING PERFORMANCE

Always ahead of the competition and on the leading edge of innovation with powerful heating and unsurpassed cooling performance

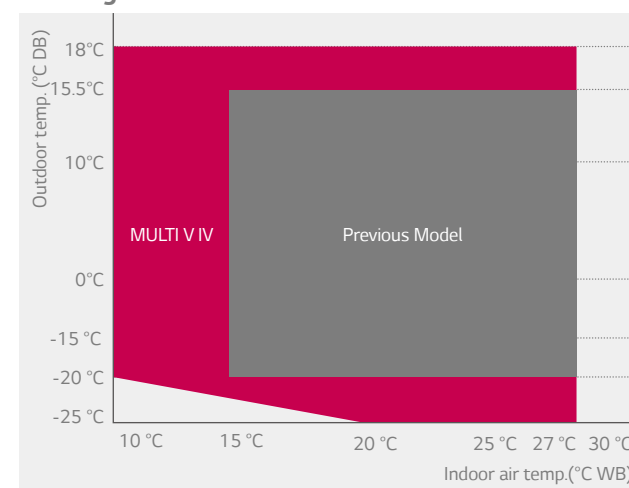
Wide Operation Range

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 by 50CMM 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



① Sinusoidal leading edge
Low noise level with sinusoidal chord distribution (4dB(A) decreased)



② Grooved suction surface
Exfoliation of surface



③ Tip vortex suppressor
Winglet technology applied for efficiency



8-12HP



14-20HP

DESIGN WITHOUT LIMITS

Easy design with the most 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.

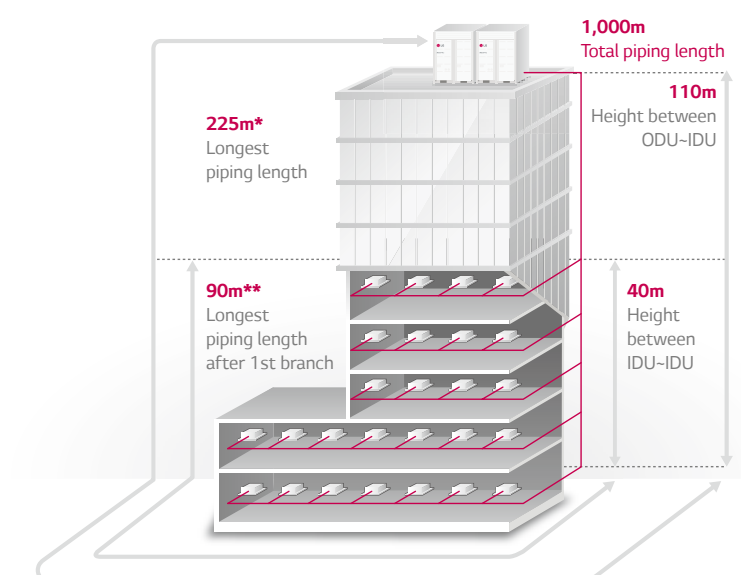
Total piping length	1,000m
Actual longest piping length** (Equivalent*)	200m** (225m*)
Longest piping length after 1 st branch (Conditional application)	40m (90m**)
Height between ODU-IDU	110m
Height between IDU-IDU	40m
Height between ODU-ODU	5m

ODU : Outdoor unit

IDU : Indoor unit

* Equivalent

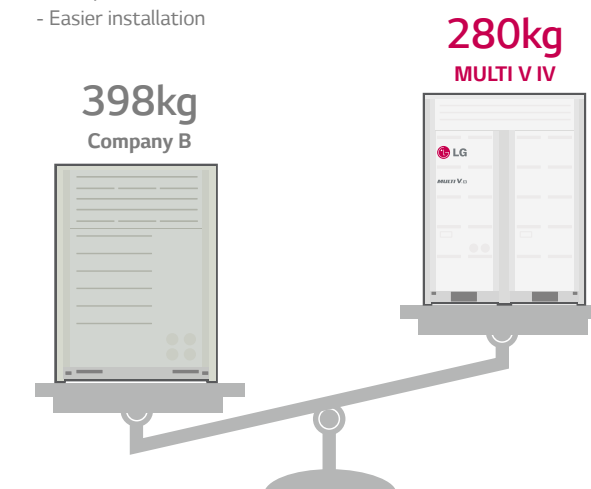
** Conditional application



Light Weight Outdoor Units

30% lighter weight than major competitors

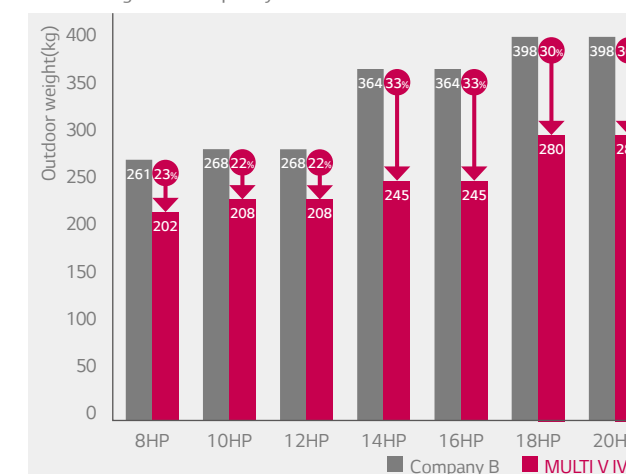
- Less pressure on the roof
- Easier installation



* 20HP Continuous heating model comparison

Weight Comparison Table

- Less weight in all capacity

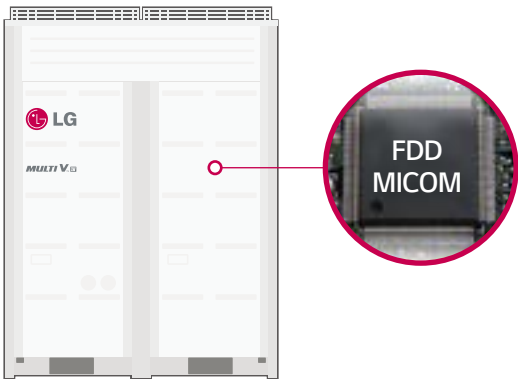


CYCLE & SERVICE OPTIMIZATION

Self-diagnostic maintenance solution, offering smart and reliable functionality

Upgraded FDD (Fault Detection & Diagnosis)

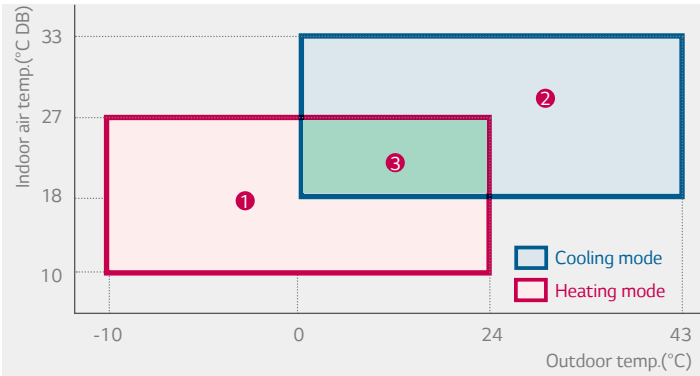
Newly upgraded FDD elements provide the optimal solution for user reliability and easy maintenance.



- Start up time reduction (60min→45min)
- Available to use LGMV (LG Monitoring View) through a smartphone
- Piping & wiring error check-up
- Auto start-up mode / report
- 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

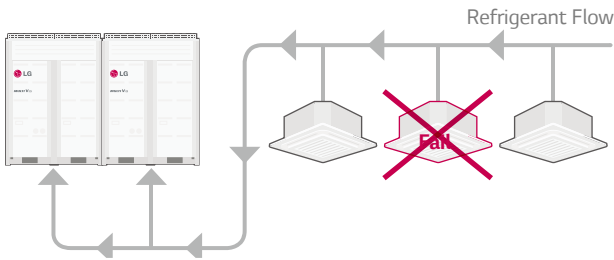


- 1 Refrigerant quantity evaluation during heating Operation
- 2 Refrigerant quantity evaluation during cooling Operation
- 3 Refrigerant quantity evaluation during cooling and heating Operation

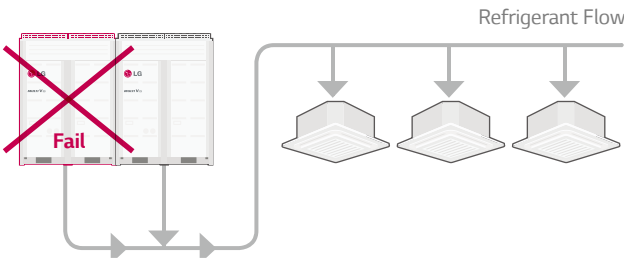
Auto Refrigerant Collection

In case of an indoor or outdoor unit replacement for service, refrigerant from the malfunctioning unit is transferred to the outdoor unit by pumping down or to an indoor unit by pumping out for easy service.

Pump down



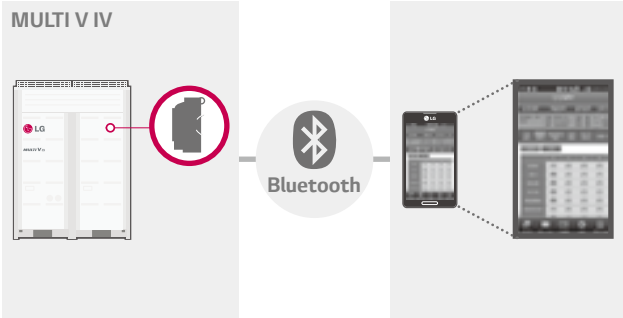
Pump out



Smartphone Monitoring & Control

Mobile LGMV (LG Monitoring View)

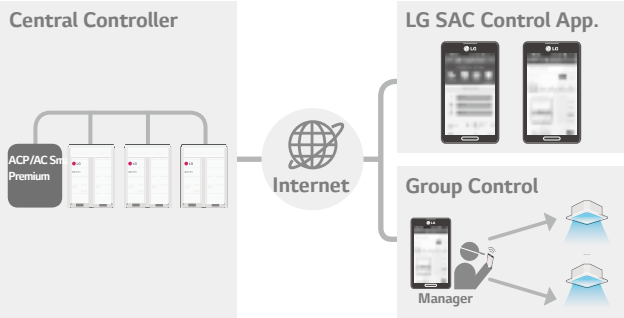
- Mobile LGMV helps users to monitor and control the MULTI V IV system cycle using Bluetooth module. Technicians can check LGMV data 10m away from MULTI V IV outdoor with smartphone.



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

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.



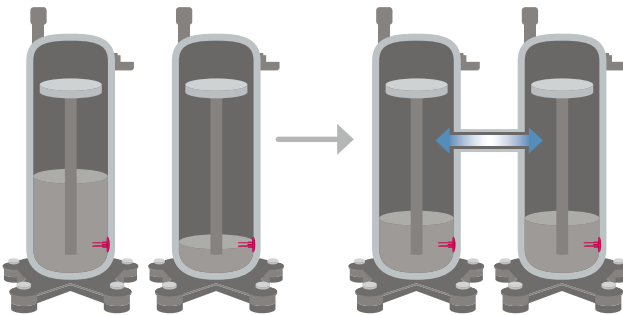
* Available from 2H 2014

Smartphone specification			
App	Recommended specification	Exception	Effective communication distance of Bluetooth
Mobile LGMV	- Android OS 4.0(ICS) or higher - CPU 1 GHz Dual Core or higher - RAM 1GB 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.
SAC Control App	- Android phone (ver. 4.04 or Higher) - Apple iPhone (iOS6 or Higher)		

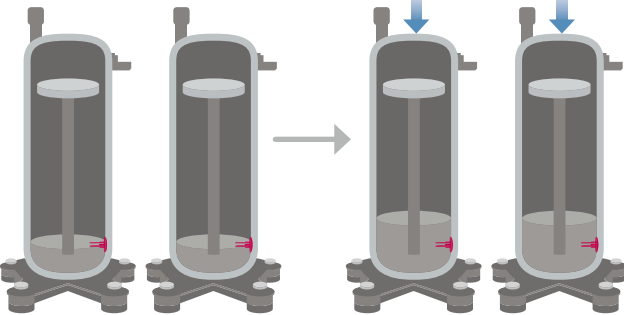
Auto Compressor Oil Management

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

Auto Oil Balancing



Smart Oil Return





HP				8	10	12
Model	Combination unit			ARUN080LTE4	ARUN100LTE4	ARUN120LTE4
	Independent unit			ARUN080LTE4	ARUN100LTE4	ARUN120LTE4
Capacity	Cooling	Nom	kW	22.4	28.0	33.6
	Heating	Nom	kW	25.2	31.5	37.8
Low Temperature Capacity	Heating -7°C	Max	kW	25.2	31.5	37.8
Power Input	Cooling	Nom	kW	4.38	5.38	6.85
	Heating	Nom	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
ESEER				7.90	7.54	7.48
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	Cooling	Max	m³/min	210	210	210
Sound Pressure		Max	dBA	58.5	59	59
Sound Power		Max	dBA	78.0	79.0	79.0
Dimensions		WxHxD	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)
Power Supply			ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)			No.x 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



HP				14	16	18	20
Model	Combination unit			ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN200LTE4
	Independent unit			ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN200LTE4
Capacity	Cooling	Nom	kW	39.2	44.8	50.4	56.0
	Heating	Nom	kW	44.1	50.4	56.7	63.0
Low Temperature Capacity	Heating -7°C	Max	kW	44.1	50.4	56.7	63.0
Power Input	Cooling	Nom	kW	8.48	10.42	9.85	11.54
	Heating	Nom	kW	9.60	11.40	11.25	13.36
Low Temperature Power Input	Heating -7°C	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	°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			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	Cooling	Max	m³/min	290	290	290	290
Sound Pressure		Max	dBA	59	59	59.5	59.5
Sound Power		Max	dBA	79.0	79.0	79.5	79.5
Dimensions		WxHxD	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)
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 × 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



HP				22	24
Model	Combination unit			ARUN220LTE4	ARUN240LTE4
	Independent unit			ARUN120LTE4	ARUN120LTE4
				ARUN100LTE4	ARUN120LTE4
Capacity	Cooling	Nom	kW	61.6	67.2
	Heating	Nom	kW	69.3	75.6
Low Temperature Capacity	Heating -7°C	Max	kW	69.3	75.6
Power Input	Cooling	Nom	kW	12.23	13.70
	Heating	Nom	kW	13.29	15.60
Low Temperature Power Input	Heating -7°C	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	°C DB	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C
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	Cooling	Max	m³/min	210 x 2	210 x 2
Sound Pressure		Max	dBA	62	62
Sound Power		Max	dBA	82.0	82.0
Dimensions		WxHxD	mm	(920 × 1,680 × 760) × 2	(920 × 1,680 × 760) × 2
Net Weight			kg	208 x 2	208 x 2
				R410A	R410A
Refrigerant	Type			7.5 x 2	7.5 x 2
	Charge	kg			
Refrigerant Oil	Control			EEV	EEV
	Type			FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	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
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



HP				26	28	30	32
Model	Combination unit			ARUN260LTE4	ARUN280LTE4	ARUN300LTE4	ARUN320LTE4
	Independent unit			ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN200LTE4
				ARUN120LTE4	ARUN120LTE4	ARUN120LTE4	ARUN120LTE4
Capacity	Cooling	Nom	kW	72.8	78.4	84.0	89.6
	Heating	Nom	kW	81.9	88.2	94.5	100.8
Low Temperature Capacity	Heating -7°C	Max	kW	81.9	88.2	94.5	100.8
Power Input	Cooling	Nom	kW	15.33	17.27	16.70	18.39
	Heating	Nom	kW	17.40	19.20	19.05	21.16
Low Temperature Power Input	Heating -7°C	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				7.43	7.38	7.33	7.13
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			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	Cooling	Max	m³/min	290 + 210	290 + 210	290 + 210	290 + 210
Sound Pressure		Max	dBA	62	62	62.3	62.3
Sound Power		Max	dBA	82.0	82.0	82.3	82.3
Dimensions		WxHxD	mm	(1,240 × 1,680 × 760) × 1+ (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 1+ (920 × 1,680 × 760) × 1	(1,240×1,680×760)×1 + (920×1,680×760)×1	(1,240×1,680×760)×1 + (920×1,680×760)×1
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
				R410A	R410A	R410A	R410A
Refrigerant	Type			10.5 + 7.5	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5
	Charge	kg					
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
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	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



HP				34	36
Model	Combination unit			ARUN340LTE4	ARUN360LTE4
	Independent unit			ARUN200LTE4	ARUN200LTE4
				ARUN140LTE4	ARUN160LTE4
Capacity	Cooling	Nom	kW	95.2	100.8
	Heating	Nom	kW	107.1	113.4
Low Temperature Capacity	Heating -7°C	Max	kW	107.1	113.4
Power Input	Cooling	Nom	kW	20.02	21.96
	Heating	Nom	kW	22.96	24.76
Low Temperature Power Input	Heating -7°C	Max	kW	30.36	32.60
COP	Cooling			4.76	4.59
	Heating			4.66	4.58
ESEER				7.08	7.03
Operation Range	Cooling	Min-Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2	290 x 2
Sound Pressure		Max	dBA	62.3	62.3
Sound Power		Max	dBA	82.3	82.3
Dimensions		WxHxD	mm	(1,240×1,680×760)×2	(1,240 × 1,680 × 760) × 2
Net Weight			kg	280 × 1 + 245 × 1	280 × 1 + 245 × 1
Refrigerant	Type			R410A	R410A
	Charge		kg	10.5 × 2	10.5 × 2
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	2C × 1.0 ~ 1.5	2C × 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)	19.05(3/4)	19.05(3/4)
	Gas		mm(inch)	34.9(1-3/8)	41.3(1-5/8)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units ***		Max		55(64)	58(64)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin



HP				38	40
Model	Combination unit			ARUN380LTE4	ARUN400LTE4
	Independent unit			ARUN200LTE4	ARUN200LTE4
				ARUN180LTE4	ARUN200LTE4
Capacity	Cooling	Nom	kW	106.4	112.0
	Heating	Nom	kW	119.7	126.0
Low Temperature Capacity	Heating -7°C	Max	kW	119.7	126.0
Power Input	Cooling	Nom	kW	21.39	23.08
	Heating	Nom	kW	24.61	26.72
Low Temperature Power Input	Heating -7°C	Max	kW	33.94	35.06
COP	Cooling			4.97	4.85
	Heating			4.86	4.72
ESEER				6.98	6.78
Operation Range	Cooling	Min-Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			4	4
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2	290 x 2
Sound Pressure		Max	dBA	62.5	62.5
Sound Power		Max	dBA	82.5	82.5
Dimensions		WxHxD	mm	(1,240 × 1,680 × 760) × 2	(1,240 × 1,680 × 760) × 2
Net Weight			kg	280 × 2	280 × 2
Refrigerant	Type			R410A	R410A
	Charge		kg	10.5 × 2	10.5 × 2
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	2C × 1.0 ~ 1.5	2C × 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)	19.05(3/4)	19.05(3/4)
	Gas		mm(inch)	41.3(1-5/8)	41.3(1-5/8)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units ***		Max		61(64)	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin



HP				42	44	46
Model	Combination unit			ARUN420LTE4	ARUN440LTE4	ARUN460LTE4
	Independent unit			ARUN180LTE4	ARUN200LTE4	ARUN200LTE4
				ARUN140LTE4	ARUN140LTE4	ARUN160LTE4
				ARUN100LTE4	ARUN100LTE4	ARUN100LTE4
Capacity	Cooling	Nom	kW	117.6	123.2	128.8
	Heating	Nom	kW	132.3	138.6	144.9
Low Temperature Capacity	Heating -7°C	Max	kW	132.3	138.6	144.9
Power Input	Cooling	Nom	kW	23.71	25.40	27.34
	Heating	Nom	kW	26.34	28.45	30.25
Low Temperature Power Input	Heating -7°C	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	°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			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	Cooling	Max	m³/min	250 x 2 + 210	290 x 2 + 210	290 x 2 + 210
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 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1	(1,240×1,680×760)×2 + (920×1,680×760)×1
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 × 2) + 7.5	(10.5 × 2) + 7.5	(10.5 × 2) + 7.5
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		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. x 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



HP				48	50	52
Model	Combination unit			ARUN480LTE4	ARUN500LTE4	ARUN520LTE4
	Independent unit			ARUN200LTE4	ARUN200LTE4	ARUN200LTE4
				ARUN180LTE4	ARUN200LTE4	ARUN200LTE4
				ARUN100LTE4	ARUN100LTE4	ARUN120LTE4
Capacity	Cooling	Nom	kW	134.4	140.0	145.6
	Heating	Nom	kW	151.2	157.5	163.8
Low Temperature Capacity	Heating -7°C	Max	kW	151.2	157.5	163.8
Power Input	Cooling	Nom	kW	26.77	28.46	29.93
	Heating	Nom	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	Cooling	Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure		Max	dBA	64.1	64.1	64.1
Sound Power		Max	dBA	84.1	84.1	84.1
Dimensions		WxHxD	mm	(1,240×1,680×760)×2 + (920×1,680×760)×1	(1,240×1,680×760)×2 + (920×1,680×760)×1	(1,240×1,680×760)×2 + (920×1,680×760)×1
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 × 2) + 7.5	(10.5 × 2) + 7.5	(10.5 × 2) + 7.5
Refrigerant Oil	Control			EEV	EEV	EEV
	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	3 / 380-415 / 50	3 / 380-415 / 50	3 / 380-415 / 50
Transmission Cable (VCTF-SB)			No. x 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



HP				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	Nom	kW	151.2	156.8	162.4	168.0
	Heating	Nom	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	Nom	kW	31.56	33.50	32.93	34.62
	Heating	Nom	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	4.81	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	6	6
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	Cooling	Max	m³/min	290 x 3	290 x 3	290 x 3	290 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	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3
Net Weight			kg	280 x 2 + 245 x 1	280 x 2 + 245 x 1	280 x 3	280 x 3
	Type			R410A	R410A	R410A	R410A
	Charge	kg		10.5 x 3	10.5 x 3	10.5 x 3	10.5 x 3
Refrigerant	Control			EEV	EEV	EEV	EEV
	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Refrigerant Oil	Type						
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	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



HP				62	64	66	68	70
Model	Combination unit			ARUN620LTE4	ARUN640LTE4	ARUN660LTE4	ARUN680LTE4	ARUN700LTE4
	Independent unit			ARUN180LTE4	ARUN180LTE4	ARUN180LTE4	ARUN200LTE4	ARUN200LTE4
				ARUN160LTE4	ARUN180LTE4	ARUN180LTE4	ARUN200LTE4	ARUN200LTE4
				ARUN140LTE4	ARUN140LTE4	ARUN160LTE4	ARUN140LTE4	ARUN160LTE4
				ARUN140LTE4	ARUN140LTE4	ARUN140LTE4	ARUN140LTE4	ARUN140LTE4
Capacity	Cooling	Nom	kW	173.6	179.2	184.8	190.4	196.0
	Heating	Nom	kW	195.3	201.6	207.9	214.2	220.5
Low Temperature Capacity	Heating -7°C	Max	kW	195.3	201.6	207.9	214.2	220.5
Power Input	Cooling	Nom	kW	37.23	36.66	38.60	40.04	41.98
	Heating	Nom	kW	41.85	41.70	43.50	45.92	47.72
Low Temperature Power Input	Heating -7°C	Max	kW	57.14	58.48	60.72	60.72	62.96
COP	Cooling			4.66	4.89	4.79	4.76	4.67
	Heating			4.67	4.83	4.78	4.66	4.62
ESEER				7.30	7.27	7.25	7.08	7.05
Operation Range	Cooling	Min-Max	°C DB	-10°C ~ 43°C	-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	-15°C ~ 18°C
Compressor	Type			Hermetically Sealed	Hermetically Sealed	Hermetically Sealed	Hermetically Sealed	Hermetically Sealed
	Number of Compressor			5	6	6	6	6
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4
Sound Pressure		Max	dBA	65.2	65.3	65.3	65.3	65.3
Sound Power		Max	dBA	85.2	85.3	85.3	85.3	85.3
Dimensions		WxHxD	mm	(1,240x1,680x760)x4	(1,240x1,680x760)x4	(1,240x1,680x760)x4	(1,240x1,680x760)x4	(1,240x1,680x760)x4
Net Weight			kg	280 x 1 + 245 x 3	280 x 2 + 245 x 2	280 x 2 + 245 x 2	280 x 2 + 245 x 2	280 x 2 + 245 x 2
	Type			R410A	R410A	R410A	R410A	R410A
	Charge	kg		10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4
Refrigerant	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Refrigerant Oil	Type							
Power Supply			ø/V/Hz	3 / 380~415 / 50	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	2C x 1.0 ~ 1.5
Piping Length	Total	Max	m	1000	1000	1000	1000	1000
	Actual Longest Piping Length *	Max	m	200(225)	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	110	110	110	110	110
	IDU-IDU	Max	m	40	40	40	40	40
Piping Connection	Liquid		mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas		mm(inch)	44.5(1-3/4)	44.5(1-3/4)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
Number of Outdoor Units				4	4	4	4	4
Number of Connectable Indoor Units ***		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	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	Wide Louver Plus Fin



HP				72	74	76	78	80
Model	Combination unit			ARUN720LTE4	ARUN740LTE4	ARUN760LTE4	ARUN800LTE4	ARUN800LTE4
	Independent unit			ARUN200LTE4	ARUN200LTE4	ARUN200LTE4	ARUN200LTE4	ARUN200LTE4
				ARUN200LTE4	ARUN200LTE4	ARUN200LTE4	ARUN200LTE4	ARUN200LTE4
				ARUN180LTE4	ARUN180LTE4	ARUN180LTE4	ARUN200LTE4	ARUN200LTE4
				ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN180LTE4	ARUN200LTE4
Capacity	Cooling	Nom	kW	201.6	207.2	212.8	218.4	224.0
	Heating	Nom	kW	226.8	233.1	239.4	245.7	252.0
Low Temperature Capacity	Heating -7°C	Max	kW	226.8	233.1	239.4	245.7	252.0
Power Input	Cooling	Nom	kW	41.41	43.35	42.78	44.47	46.16
	Heating	Nom	kW	47.57	49.37	49.22	51.33	53.44
Low Temperature Power Input	Heating -7°C	Max	kW	64.30	66.54	65.20	69.00	70.12
COP	Cooling			4.87	4.78	4.97	4.91	4.85
	Heating			4.77	4.72	4.86	4.79	4.72
ESEER				7.03	7.00	6.98	6.88	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	-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	-15°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			7	7	8	8	8
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4
Sound Pressure		Max	dBA	65.4	65.4	65.5	65.5	65.5
Sound Power		Max	dBA	85.4	85.4	85.5	85.5	85.5
Dimensions	WxHxD	mm		(1,240×1,680×760)×4	(1,240×1,680×760)×4	(1,240×1,680×760)×4	(1,240×1,680×760)×4	(1,240×1,680×760)×4
Net Weight		kg		280 x 3 + 245 x 1	280 x 3 + 245 x 1	280 x 4	280 x 4	280 x 4
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge	kg		10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4
	Control			EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Power Supply		ø/V/Hz		3 / 380-415 / 50	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	2C x 1.0 ~ 1.5
Piping Length	Total	Max	m	1000	1000	1000	1000	1000
	Actual Longest Piping Length *	Max	m	200(225)	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	110	110	110	110	110
	IDU-IDU	Max	m	40	40	40	40	40
Piping Connection	Liquid	mm(inch)		22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas	mm(inch)		53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
Number of Outdoor Units				4	4	4	4	4
Number of Connectable Indoor Units ***		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	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	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 indoor 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 Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m Interconnecting piping length 7.5m
Level difference of zero 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. ESEER 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 x EER_{100%} + 0.33 x EER_{75%} + 0.41 x EER_{50%} + 0.23 x 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%
Over triple unit	130%

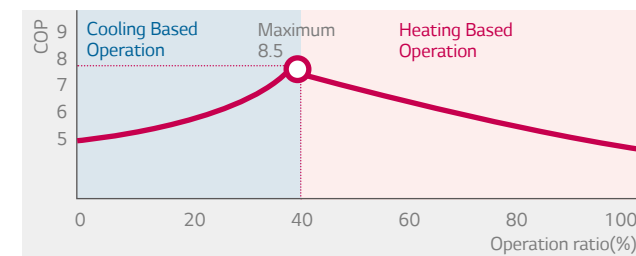
We can guarantee the operation only within 130% Combination.
If you want to connect more than 130% combination, please conta-ct us and discuss the requirement like below.
1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.
2) Over 130%, capacity is same as capacity of 130%. Same remark is valid for power input.

EXCEPTIONAL EFFICIENCY

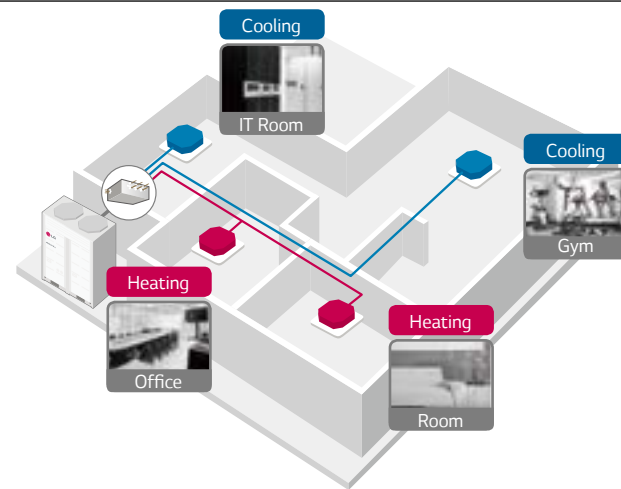
World's first class, rated and part load efficiency

Synchronized Heating and Cooling

- Possible to reach COP up to 8.5
(Under condition to 40% of cooling and 60% of heating)
- Energy consumption can be decreased by 30%

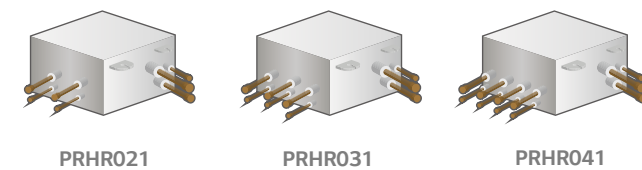


* Outdoor temperature : 7°C DB / 6°C WB
* Indoor temperature : 20°C DB / 15°C WB

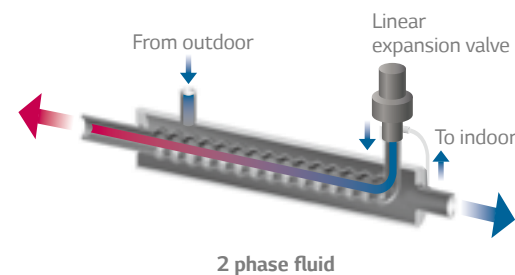


High Efficiency Heat Recovery Unit

- Adapting high efficient double spiral tube heat exchanger in heat recovery unit
- Maximum 8 indoor units connectable per a branch
- Up to 16 kW per a branch
- Easy installation with auto piping detect function
- Access allowed to internal parts for service.



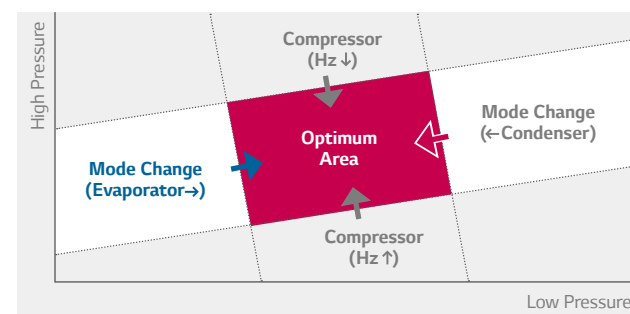
Double spiral tube heat exchanger



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
- Minimize settling time after switching mode : ~ 5 minutes



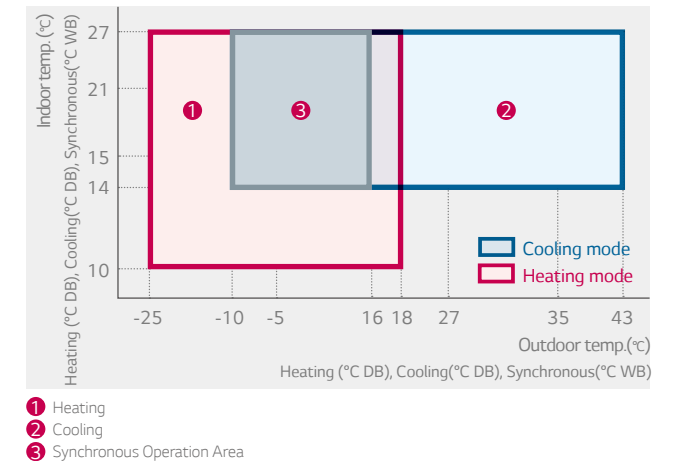
OUTSTANDING PERFORMANCE

Always ahead of the competition and on the leading edge of innovation with powerful heating and unsurpassed cooling performance

Wide Operation Range

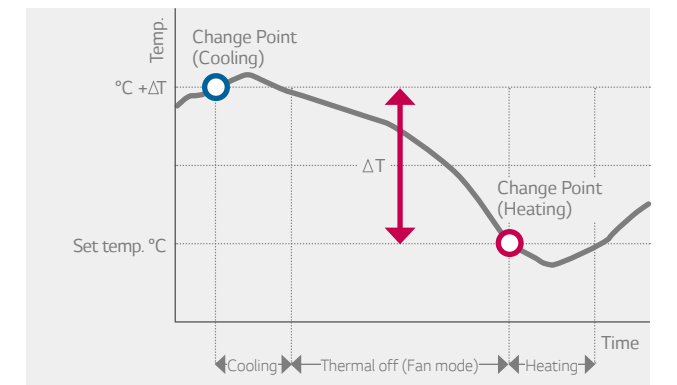
Low temperature operation range is expanded through condenser with various control.

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



Auto Changeover

Auto Changeover function operates cooling and heating to maintain optimal room temperature and increase energy savings. It can be set with AC Smart Premium.

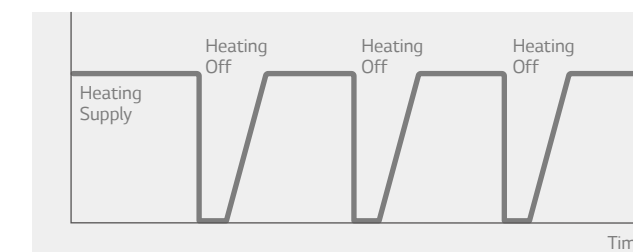


Continuous Heating Operation

Improved continuous heating operation (In case of series unit, alternative defrost per unit)

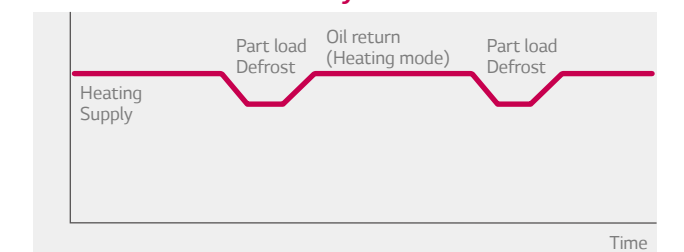
- Integrated heating capacity : 17% up
- Heating mode oil return
- Continuous heating and oil return during heating mode

Conventional



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

MULTI V IV Heat Recovery

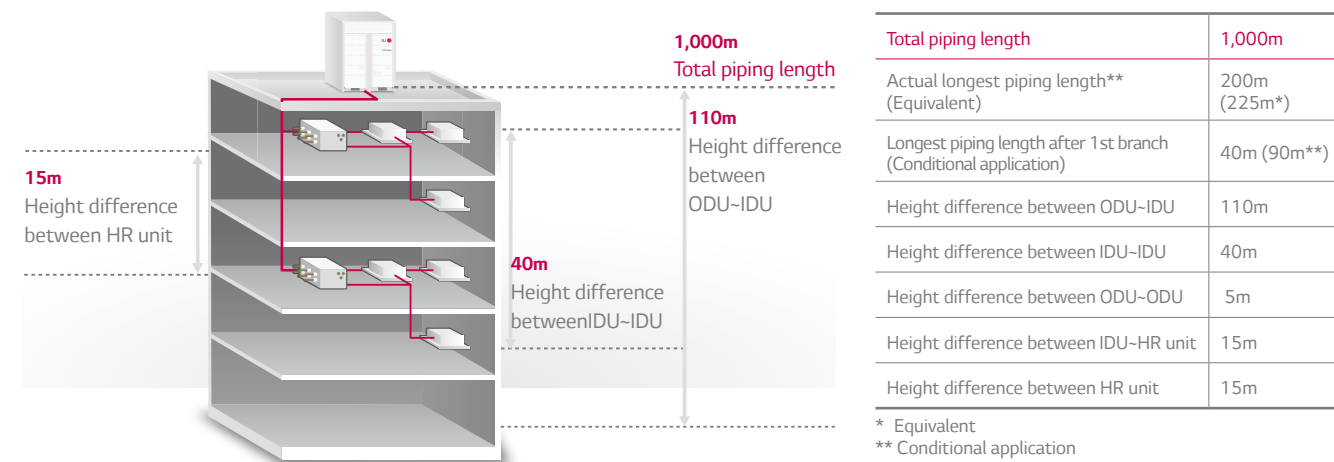


DESIGN WITHOUT LIMITS

Easy design with the most convenient features

Long Piping Length

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



Convenient Free Zoning

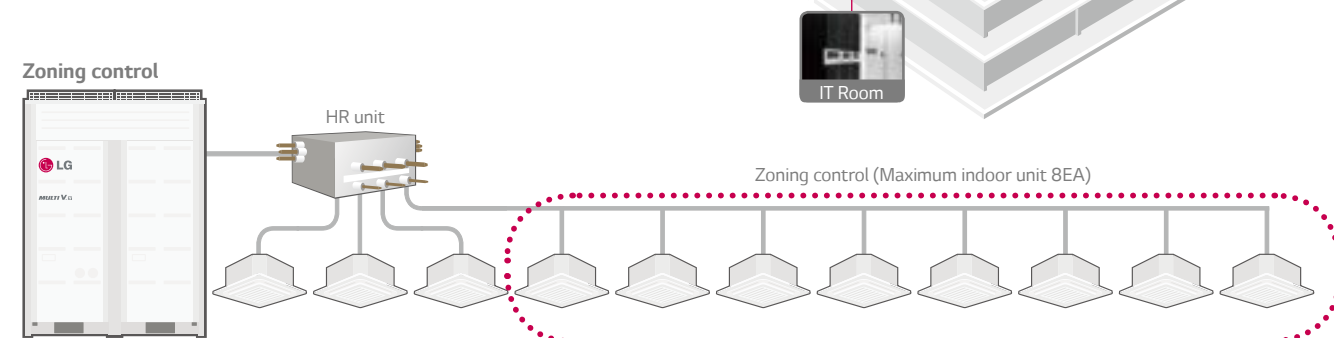
MULTI V IV heat recovery provides flexible control over individual zones for the user's convenience.

Zone Control

- Maximum of 8 indoor units can be connected on 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



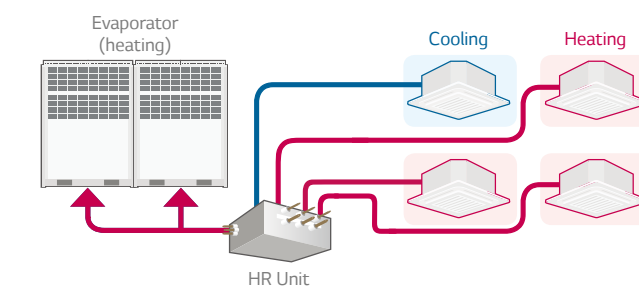
Simultaneous Operations of Outdoor Units

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

- Linear loading response
- Increase efficiency with simultaneous operation
- Minimize to switch mode for continuous operation

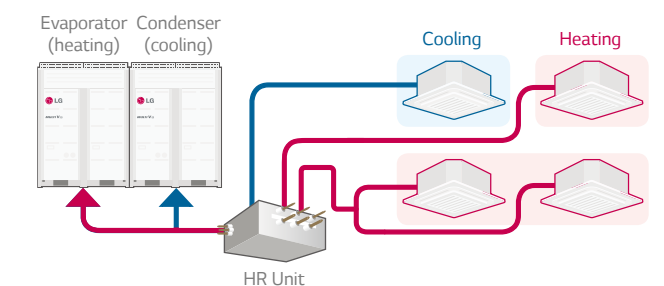
Conventional

ODU : Evaporator or Condenser only



MULTI V IV Heat Recovery

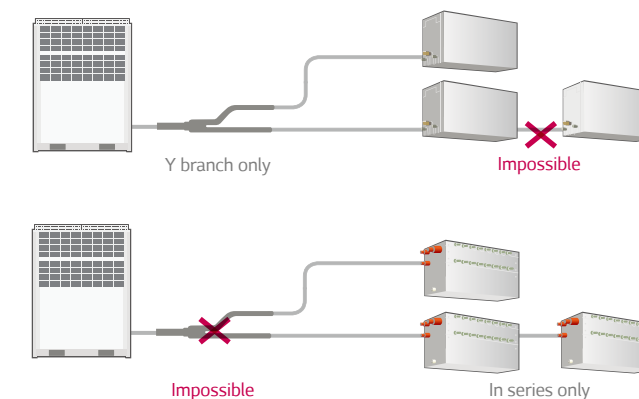
ODU: Evaporator and Condenser synchronously



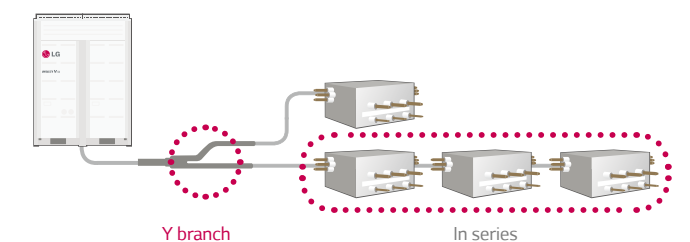
Flexible Connection of Heat Recovery Unit

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

Conventional



MULTI V IV Heat Recovery





HP				8	10	12
Model	Combination unit			ARUB080LTE4	ARUB100LTE4	ARUB120LTE4
	Independent unit			ARUB080LTE4	ARUB100LTE4	ARUB120LTE4
Capacity	Cooling	Nom	kW	22.4	28.0	33.6
	Heating	Nom	kW	25.2	31.5	37.8
Low Temperature Capacity	Heating -7°C	Max	kW	25.2	31.5	37.8
Power Input	Cooling	Nom	kW	4.38	5.38	6.85
	Heating	Nom	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	Cooling	Max	m³/min	210	210	210
Sound Pressure		Max	dBA	58.5	59.0	59.0
Sound Power		Max	dBA	78.0	79.0	79.0
Dimensions		WxHxD	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)
Power Supply			ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	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
	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



HP				14	16	18	20
Model	Combination unit			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
	Independent unit			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	39.2	44.8	50.4	56.0
	Heating	Nom	kW	44.1	50.4	56.7	63.0
Low Temperature Capacity	Heating -7°C	Max	kW	44.1	50.4	56.7	63.0
Power Input	Cooling	Nom	kW	8.48	10.42	9.85	11.54
	Heating	Nom	kW	9.60	11.40	11.25	13.36
Low Temperature Power Input	Heating -7°C	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	°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			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	Cooling	Max	m³/min	290	290	290	290
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		WxHxD	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)
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 × 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



HP				22	24
Model	Combination unit			ARUB220LTE4	ARUB240LTE4
	Independent unit			ARUB100LTE4	ARUB120LTE4
				ARUB120LTE4	ARUB120LTE4
Capacity	Cooling	Nom	kW	61.6	67.2
	Heating	Nom	kW	69.3	75.6
Low Temperature Capacity	Heating -7°C	Max	kW	69.3	75.6
Power Input	Cooling	Nom	kW	12.23	13.70
	Heating	Nom	kW	13.29	15.60
Low Temperature Power Input	Heating -7°C	Max	kW	20.65	23.04
COP	Cooling			5.04	4.91
	Heating			5.21	4.85
Operation Range	Cooling	Min-Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C
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	Cooling	Max	m³/min	210 × 2	210 × 2
Sound Pressure		Max	dBA	62.0	62.0
Sound Power		Max	dBA	82.0	82.0
Dimensions		WxHxD	mm	(920 × 1,680 × 760) × 2	(920 × 1,680 × 760) × 2
Net Weight			kg	208 × 2	208 × 2
	Type			R410A	R410A
	Charge		kg	7.5 × 2	7.5 × 2
Refrigerant	Control			EEV	EEV
	Type			FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	3 / 380-415 / 50	3 / 380-415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	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



HP				26	28	30	32
Model	Combination unit			ARUB260LTE4	ARUB280LTE4	ARUB300LTE4	ARUB320LTE4
	Independent unit			ARUB120LTE4	ARUB120LTE4	ARUB120LTE4	ARUB120LTE4
				ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	72.8	78.4	84.0	89.6
	Heating	Nom	kW	81.9	88.2	94.5	100.8
Low Temperature Capacity	Heating -7°C	Max	kW	81.9	88.2	94.5	100.8
Power Input	Cooling	Nom	kW	15.33	17.27	16.70	18.39
	Heating	Nom	kW	17.40	19.20	19.05	21.16
Low Temperature Power Input	Heating -7°C	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°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
Operation Range	Cooling	Min-Max	°C DB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
	Heating	Min-Max	°C 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	Cooling	Max	m³/min	62.0	62.0	62.3	62.3
Sound Pressure		Max	dBA	82.0	82.0	82.3	82.3
Sound Power		Max	dBA	(1,240 × 1,680 × 760) × 1 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 1 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 1 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 1 + (920 × 1,680 × 760) × 1
Dimensions		WxHxD	mm	245 × 1 + 208 × 1	245 × 1 + 208 × 1	280 × 1 + 208 × 1	280 × 1 + 208 × 1
Net Weight			kg	R410A	R410A	R410A	R410A
	Type			10.5 + 7.5	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5
	Charge		kg	EEV	EEV	EEV	EEV
Refrigerant	Control			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Type			5,200	5,200	6,200	6,200
Refrigerant Oil				5,200	5,200	6,200	6,200
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. x 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



HP				34	36
Model	Combination unit			ARUB340LTE4	ARUB360LTE4
	Independent unit			ARUB140LTE4	ARUB160LTE4
				ARUB200LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	95.2	100.8
	Heating	Nom	kW	107.1	113.4
Low Temperature Capacity	Heating -7°C	Max	kW	107.1	113.4
Power Input	Cooling	Nom	kW	20.02	21.96
	Heating	Nom	kW	22.96	24.76
Low Temperature Power Input	Heating -7°C	Max	kW	30.36	32.60
COP	Cooling			4.76	4.59
	Heating			4.66	4.58
Operation Range	Cooling	Min-Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2	290 x 2
Sound Pressure		Max	dBA	62.3	62.3
Sound Power		Max	dBA	82.3	82.3
Dimensions		WxHxD	mm	(1,240 × 1,680 × 760) × 2	(1,240 × 1,680 × 760) × 2
Net Weight			kg	280 x 1 + 245 x 1	280 x 1 + 245 x 1
Refrigerant	Type			R410A	R410A
	Charge		kg	10.5 x 2	10.5 x 2
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	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
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)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas		mm(inch)	34.9(1-3/8)	41.3(1-5/8)
	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		55(64)	58(64)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin



HP				38	40
Model	Combination unit			ARUB380LTE4	ARUB400LTE4
	Independent unit			ARUB180LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	106.4	112.0
	Heating	Nom	kW	119.7	126.0
Low Temperature Capacity	Heating -7°C	Max	kW	119.7	126.0
Power Input	Cooling	Nom	kW	21.39	23.08
	Heating	Nom	kW	24.61	26.72
Low Temperature Power Input	Heating -7°C	Max	kW	33.94	35.06
COP	Cooling			4.97	4.85
	Heating			4.86	4.72
Operation Range	Cooling	Min-Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min-Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			4	4
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2	290 x 2
Sound Pressure		Max	dBA	62.5	62.5
Sound Power		Max	dBA	82.5	82.5
Dimensions		WxHxD	mm	(1,240 × 1,680 × 760) × 2	(1,240 × 1,680 × 760) × 2
Net Weight			kg	280 x 2	280 x 2
Refrigerant	Type			R410A	R410A
	Charge		kg	10.5 x 2	10.5 x 2
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	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
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)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas		mm(inch)	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)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units ***		Max		61(64)	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin



HP				42	44	46
Model	Combination unit			ARUB420LTE4	ARUB440LTE4	ARUB460LTE4
	Independent unit			ARUB100LTE4	ARUB100LTE4	ARUB100LTE4
				ARUB140LTE4	ARUB140LTE4	ARUB160LTE4
				ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	17.6	123.2	128.8
	Heating	Nom	kW	132.3	138.6	144.9
Low Temperature Capacity	Heating -7°C	Max	kW	132.3	138.6	144.9
Power Input	Cooling	Nom	kW	23.71	25.40	27.34
	Heating	Nom	kW	26.34	28.45	30.25
Low Temperature Power Input	Heating -7°C	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	°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			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	Cooling	Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
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 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1	(1,240×1,680×760)×2 + (920×1,680×760)×1
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 × 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)
Power Supply			ø/V/Hz	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
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



HP				48	50	52
Model	Combination unit			ARUB480LTE4	ARUB500LTE4	ARUB520LTE4
	Independent unit			ARUB100LTE4	ARUB100LTE4	ARUB120LTE4
				ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	134.4	140.0	145.6
	Heating	Nom	kW	151.2	157.5	163.8
Low Temperature Capacity	Heating -7°C	Max	kW	151.2	157.5	163.8
Power Input	Cooling	Nom	kW	26.77	28.46	29.93
	Heating	Nom	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
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	Cooling	Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure		Max	dBA	64.1	64.1	64.1
Sound Power		Max	dBA	84.1	84.1	84.1
Dimensions		WxHxD	mm	(1,240×1,680×760)×2 + (920×1,680×760)×1	(1,240×1,680×760)×2 + (920×1,680×760)×1	(1,240×1,680×760)×2 + (920×1,680×760)×1
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 × 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)
Power Supply			ø/V/Hz	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
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



HP				54	56	58	60
Model	Combination unit			ARUB540LTE4	ARUB560LTE4	ARUB580LTE4	ARUB600LTE5
	Independent unit			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	151.2	156.8	162.4	168.0
	Heating	Nom	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	Nom	kW	31.56	33.50	32.93	34.62
	Heating	Nom	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	4.81	4.72
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	Cooling	Max	m³/min	290 x 3	290 x 3	290 x 3	290 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	(1,240 × 1,680 × 760) × 3	(1,240 × 1,680 × 760) × 3	(1,240 × 1,680 × 760) × 3	(1,240 × 1,680 × 760) × 3
Net Weight			kg	280 × 2 + 245 × 1	280 × 2 + 245 × 1	280 × 3	280 × 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
Refrigerant	Control			EEV	EEV	EEV	EEV
	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
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 × 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)	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



HP				62	64	66	68	70
Model	Combination unit			ARUB620LTE4	ARUB640LTE4	ARUB660LTE4	ARUB680LTE4	ARUB700LTE4
	Independent unit			ARUB140LTE4	ARUB140LTE4	ARUB140LTE4	ARUB140LTE4	ARUB140LTE4
				ARUB140LTE4	ARUB140LTE4	ARUB160LTE4	ARUB140LTE4	ARUB160LTE4
				ARUB160LTE4	ARUB180LTE4	ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB180LTE4	ARUB180LTE4	ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	173.6	179.2	184.8	190.4	196.0
	Heating	Nom	kW	195.3	201.6	207.9	214.2	220.5
Low Temperature Capacity	Heating -7°C	Max	kW	195.3	201.6	207.9	214.2	220.5
Power Input	Cooling	Nom	kW	37.23	36.66	38.60	40.04	41.98
	Heating	Nom	kW	41.85	41.70	43.50	45.92	47.72
Low Temperature Power Input	Heating -7°C	Max	kW	57.14	58.48	60.72	60.72	62.96
COP	Cooling			4.66	4.89	4.79	4.76	4.67
	Heating			4.67	4.83	4.78	4.66	4.62
Operation Range	Cooling	Min-Max	°C DB	-10°C ~ 43°C	-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	-15°C ~ 18°C
Compressor	Type			Hermetically Sealed	Hermetically Sealed	Hermetically Sealed	Hermetically Sealed	Hermetically Sealed
	Number of Compressor			5	6	6	6	6
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4
Sound Pressure		Max	dBA	65.2	65.3	65.3	65.3	65.3
Sound Power		Max	dBA	85.2	85.3	85.3	85.3	85.3
Dimensions		WxHxD	mm	(1,240 × 1,680 × 760) × 4	(1,240 × 1,680 × 760) × 4	(1,240 × 1,680 × 760) × 4	(1,240 × 1,680 × 760) × 4	(1,240 × 1,680 × 760) × 4
Net Weight			kg	280 × 1 + 245 × 3	280 × 2 + 245 × 2	280 × 2 + 245 × 2	280 × 2 + 245 × 2	280 × 2 + 245 × 2
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		kg	10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4
Refrigerant	Control			EEV	EEV	EEV	EEV	EEV
	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50	3 / 380~415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	2C × 1.0 ~ 1.5	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	1,000
	Actual Longest Piping Length *	Max	m	200(225)	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	110	110	110	110	110
	IDU-IDU	Max	m	40	40	40	40	40
Piping Connection	Liquid		mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas		mm(inch)	44.5(1-3/4)	44.5(1-3/4)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
	High Pressure Gas		mm(inch)	41.3(1-5/8)	41.3(1-5/8)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)
Number of Outdoor Units				4	4	4	4	4
Number of Connectable Indoor Units ***		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	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	Wide Louver Plus Fin



HP				72	74	76	78	80
Model	Combination unit			ARUB720LTE4	ARUB740LTE4	ARUB760LTE4	ARUB780LTE4	ARUB800LTE4
	Independent unit			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB180LTE4	ARUB200LTE4
				ARUB180LTE4	ARUB180LTE4	ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	201.6	207.2	212.8	218.4	224.0
	Heating	Nom	kW	226.8	233.1	239.4	245.7	252.0
Low Temperature Capacity	Heating -7°C	Max	kW	226.8	233.1	239.4	245.7	252.0
Power Input	Cooling	Nom	kW	41.41	43.35	42.78	44.47	46.16
	Heating	Nom	kW	47.57	49.37	49.22	51.33	53.44
Low Temperature Power Input	Heating -7°C	Max	kW	64.30	66.54	67.88	69.00	70.12
COP	Cooling			4.87	4.78	4.97	4.91	4.85
	Heating			4.77	4.72	4.86	4.79	4.72
Operation Range	Cooling	Min~Max	°C DB	-10°C ~ 43°C	-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	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			7	7	8	8	8
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)	8mmAq(80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4
Sound Pressure		Max	dBA	65.4	65.4	65.5	65.5	65.5
Sound Power		Max	dBA	85.4	85.4	85.5	85.5	85.5
Dimensions		WxHxD	mm	(1,240 × 1,680 × 760) × 4	(1,240 × 1,680 × 760) × 4	(1,240 × 1,680 × 760) × 4	(1,240 × 1,680 × 760) × 4	(1,240 × 1,680 × 760) × 4
Net Weight			kg	280 x 3 + 245 x 1	280 x 3 + 245 x 1	280 x 4	280 x 4	280 x 4
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		kg	10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4
	Control			EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Power Supply			ø/V/Hz	3 / 380-415 / 50	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	2C x 1.0 ~ 1.5
Piping Length	Total	Max	m	1,000	1,000	1,000	1,000	1,000
	Actual Longest Piping Length *	Max	m	200(225)	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch **	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	110	110	110	110	110
	IDU-IDU	Max	m	40	40	40	40	40
Piping Connection	Liquid		mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas		mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
	High Pressure Gas			44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)
Number of Outdoor Units				4	4	4	4	4
Number of Connectable Indoor Units ***		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	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	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 indoor 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. ESEER 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 x EER_{100%} + 0.33 x EER_{75%} + 0.41 x EER_{50%} + 0.23 x 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%
Over triple unit	130%

We can guarantee the operation only within 130% Combination.
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.

MULTI VTM MINI

Appropriate for mid-sized offices, shops, and high-end residential spaces

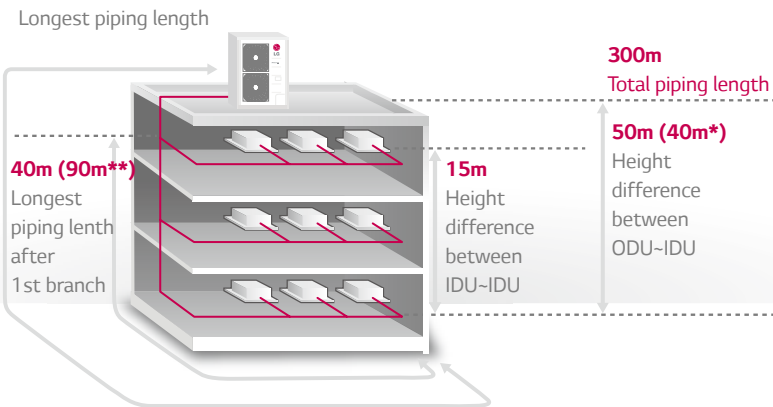
High Cooling and Heating Efficiency

High BLDC inverter compressor is used for optimal load and operation.

COP	1Ø, 220V		3Ø, 380V	
	HP	Cooling	Heating	Cooling
	4	3.7	3.9	4.3
	5	4.0	4.1	4.0
	6	3.7	3.9	3.7

Long Piping Length

Inverter control technology provides various types of system.



Total piping length	300m
Longest piping length (Equivalent)	150m** (175m*)
Longest piping length after 1st branch	40m (90m**)
Height difference between ODU-IDU	50m (40m*)
Height difference between IDU-IDU	15m

* Equivalent
** Conditional application

High Efficiency Outdoor Axial Fan

Axial fan provides high efficiency for heat exchange through a high air flow.

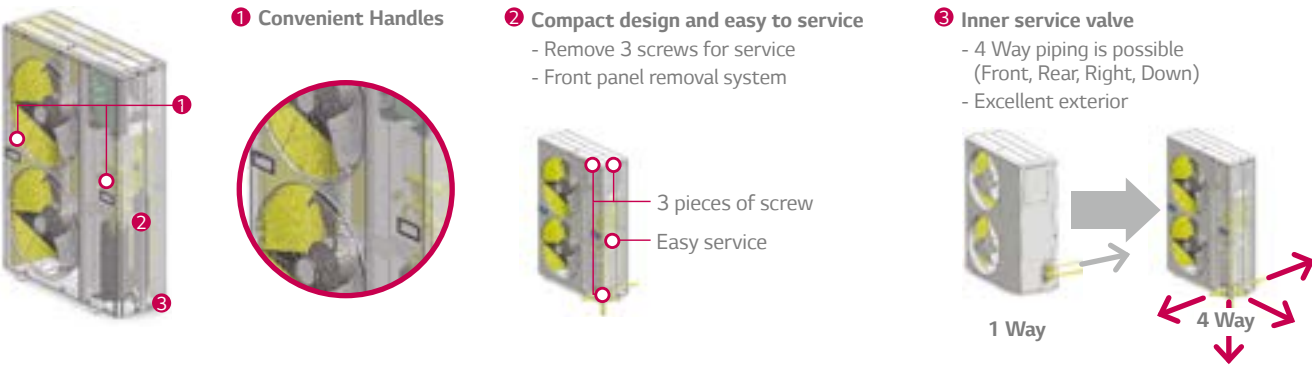
Applying High efficiency Axial Fan

More powerful Heat exchange efficiency



Easy Service

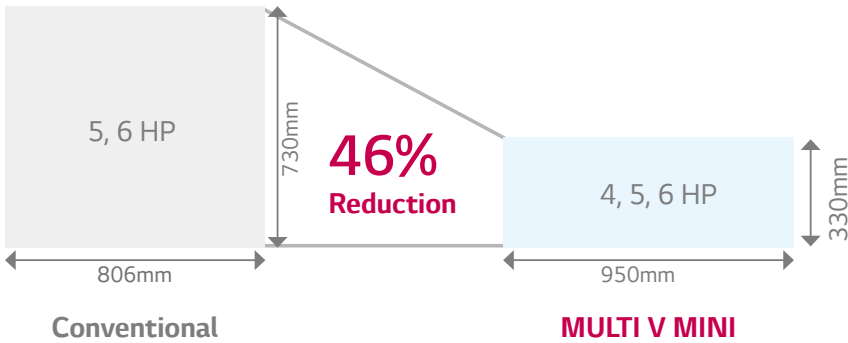
Quick and efficient installation of MULTI V MINI can provide the best solution for small offices and shops.



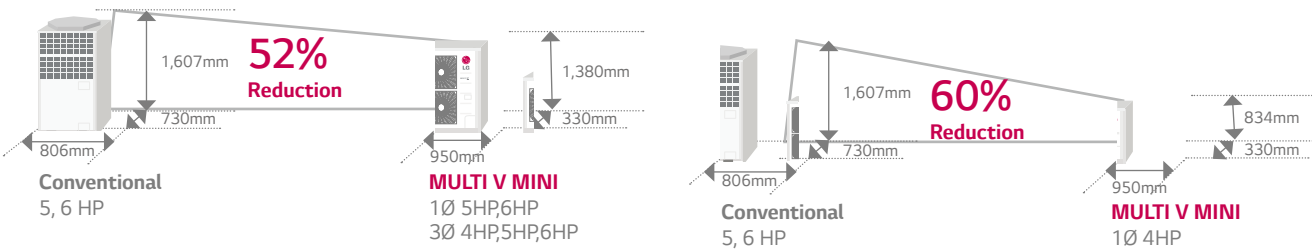
Compact Size

MULTI V Mini provides the optimal solution for small offices and shops.

Foot print area



Volume



1ø / 220V

1Ø 4HP



HP				4
Model	Combination unit			ARUN40GS2A
Capacity	Cooling	Nom	kW	12.1
	Heating	Nom	kW	12.5
Low Temperature Capacity	Heating -7°C	Max	kW	11.4
Power Input	Cooling	Nom	kW	3.2
	Heating	Nom	kW	3.2
Low Temperature Power Input	Heating -7°C	Max	kW	3.90
COP	Cooling			3.78
	Heating			3.91
Operation Range	Cooling	Min~Max	°C DB	-5°C ~ 48°C
	Heating	Min~Max	°C WB	-20°C ~ 16°C
Compressor	Type			DC INV Rotary
	Number of Compressor			1
Fan	Type			BLDC
	Motor Type			BLDC motor
Airflow Rate	Cooling	Max	m³/min	60
Sound Pressure		Max	dBA	52
Dimensions		WxHxD	mm	950 x 834 x 330
Net Weight			kg	77
Refrigerant	Type			R410A
	Charge		kg	1.8
	Control			EEV
Refrigerant Oil	Type			FVC68D
	Control		cc	1,300
Power Supply			ø/V/Hz	1 / 220-240 / 50
Transmission Cable (VCTF-SB)			No. x mm²	2C × 1.0 ~ 1.5
Piping Length	Total	Max	m	300
	Actual Longest Piping Length *	Max	m	150(175)
	After 1st Y branch **	Max	m	40
Piping Level Difference	IDU-ODU	Max	m	50(40)
	IDU-IDU	Max	m	15
Piping Connection	Liquid		mm(inch)	9.52(3/8)
	Gas		mm(inch)	15.88(5/8)
Number of Outdoor Units				1
Number of Connectable Indoor Units ***		Max		6
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%
Heat exchanger	Type			Wide Louver Plus Fin

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

* () : equivalent length
** () : In case of outdoor unit installed lower than indoor unit

1ø / 220V

1Ø 5HP,6HP



HP				5	6
Model	Combination unit			ARUN50GS2A	ARUN60GS2A
Capacity	Cooling	Nom	kW	14.0	15.5
	Heating	Nom	kW	16.0	18.0
Low Temperature Capacity	Heating -7°C	Max	kW	14.6	16.4
Power Input	Cooling	Nom	kW	3.5	4.2
	Heating	Nom	kW	3.9	4.6
Low Temperature Power Input	Heating -7°C	Max	kW	4.76	5.61
COP	Cooling			4.00	3.69
	Heating			4.10	3.91
Operation Range	Cooling	Min~Max	°C DB	-5°C ~ 48°C	-5°C ~ 48°C
	Heating	Min~Max	°C WB	-20°C ~ 16°C	-20°C ~ 16°C
Compressor	Type			DC INV Rotary	DC INV Rotary
	Number of Compressor			1	1
Fan	Type			BLDC	BLDC
	Motor Type			BLDC motor	BLDC motor
Airflow Rate	Cooling	Max	m³/min	110	110
Sound Pressure		Max	dBA	53	54
Dimensions		WxHxD	mm	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	106	106
Refrigerant	Type			R410A	R410A
	Charge		kg	3.0	3.0
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D	FVC68D
	Control		cc	1,300	1,300
Power Supply			ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50
Transmission Cable (VCTF-SB)			No. x mm²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length *	Max	m	150(175)	150(175)
	After 1st Y branch **	Max	m	40	40
Piping Level Difference	IDU-ODU	Max	m	50(40)	50(40)
	IDU-IDU	Max	m	15	15
Piping Connection	Liquid		mm(inch)	9.52(3/8)	9.52(3/8)
	Gas		mm(inch)	15.88(5/8)	19.05(3/4)
Number of Outdoor Units				1	1
Number of Connectable Indoor Units ***		Max		8	9
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin

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

* () : equivalent length
** () : In case of outdoor unit installed lower than indoor unit

3ø / 380V

3ø 4HP,5HP,6HP



HP				4
Model	Combination unit			ARUN40LS2A
Capacity	Cooling	Nom	kW	12.1
	Heating	Nom	kW	12.5
Low Temperature Capacity	Heating -7°C	Max	kW	11.4
Power Input	Cooling	Nom	kW	2.8
	Heating	Nom	kW	2.9
Low Temperature Power Input	Heating -7°C	Max	kW	3.17
COP	Cooling			4.32
	Heating			4.31
Operation Range	Cooling	Min~Max	°C DB	-5°C ~ 48°C
	Heating	Min~Max	°C WB	-20°C ~ 16°C
Compressor	Type			DC INV Rotary
	Number of Compressor			1
Fan	Type			BLDC
	Motor Type			BLDC motor
Airflow Rate	Cooling	Max	m³/min	110
Sound Pressure		Max	dBA	52
Dimensions		WxHxD	mm	950 x 1,380 x 330
Net Weight			kg	107
Refrigerant	Type			R410A
	Charge		kg	3.0
	Control			EEV
Refrigerant Oil	Type			FVC68D
	Control		cc	1,300
Power Supply			ø/V/Hz	3 / 380-415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	2C x 1.0 ~ 1.5
Piping Length	Total	Max	m	300
	Actual Longest Piping Length *	Max	m	150(175)
	After 1st Y branch **	Max	m	40
Piping Level Difference	IDU-ODU	Max	m	50(40)
	IDU-IDU	Max	m	15
Piping Connection	Liquid		mm(inch)	9.52(3/8)
	Gas		mm(inch)	15.88(5/8)
Number of Outdoor Units				1
Number of Connectable Indoor Units ***		Max		6
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%
Heat exchanger	Type			Wide Louver Plus Fin

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

* () : equivalent length

** () : In case of outdoor unit installed lower than indoor unit

3ø / 380V

3ø 4HP,5HP,6HP



HP				5	6
Model	Combination unit			ARUN50LS2A	ARUN60LS2A
Capacity	Cooling	Nom	kW	14.0	15.5
	Heating	Nom	kW	16.0	18.0
Low Temperature Capacity	Heating -7°C	Max	kW	14.6	16.4
Power Input	Cooling	Nom	kW	3.5	4.2
	Heating	Nom	kW	3.9	4.6
Low Temperature Power Input	Heating -7°C	Max	kW	4.76	5.61
COP	Cooling			4.00	3.69
	Heating			4.10	3.91
Operation Range	Cooling	Min~Max	°C DB	-5°C ~ 48°C	-5°C ~ 48°C
	Heating	Min~Max	°C WB	-20°C ~ 16°C	-20°C ~ 16°C
Compressor	Type			DC INV Rotary	DC INV Rotary
	Number of Compressor			1	1
Fan	Type			BLDC	BLDC
	Motor Type			BLDC motor	BLDC motor
Airflow Rate	Cooling	Max	m³/min	110	110
Sound Pressure		Max	dBA	53	54
Dimensions		WxHxD	mm	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight			kg	107	107
Refrigerant	Type			R410A	R410A
	Charge		kg	3.0	3.0
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D	FVC68D
	Control		cc	1,300	1,300
Power Supply			ø/V/Hz	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
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length *	Max	m	150(175)	150(175)
	After 1st Y branch **	Max	m	40	40
Piping Level Difference	IDU-ODU	Max	m	50(40)	50(40)
	IDU-IDU	Max	m	15	15
Piping Connection	Liquid		mm(inch)	9.52(3/8)	9.52(3/8)
	Gas		mm(inch)	15.88(5/8)	19.05(3/4)
Number of Outdoor Units				1	1
Number of Connectable Indoor Units ***		Max		8	9
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%
Heat exchanger	Type			Wide Louver Plus Fin	Wide Louver Plus Fin

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

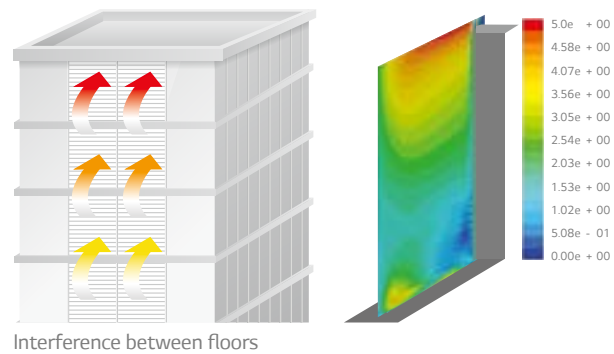
* () : equivalent length

** () : In case of outdoor unit installed lower than indoor unit

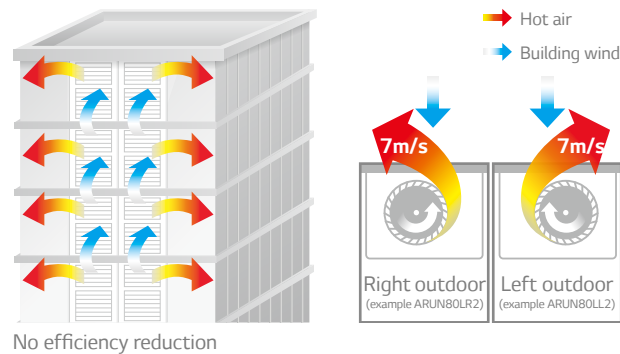
Front Suction and Discharge

- Right or left side air flow system
- High speed air discharging (7~8m/sec)
- No interference between floors (Efficiency reduction due to hot air back flow)

Conventional



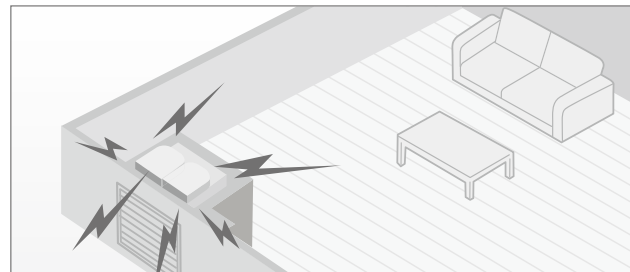
MULTI V SPACE II



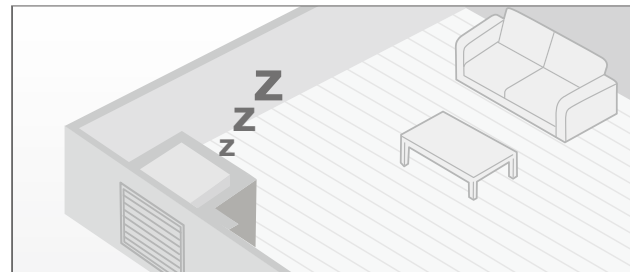
Quiet Operation

- Noise and vibration are reduced by
- Front discharge
 - Sealed structure of outdoor unit
- The indoor noise level is maintained at 30~40dBA

Conventional



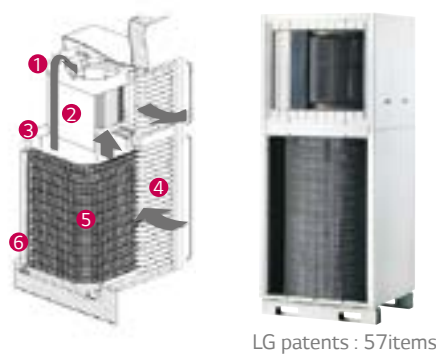
MULTI V SPACE II



LG Patent for MULTI V SPACE II

MULTI V Space II technologies have LG's and international patents, which some of them have been already registered.

- 1 Whole structure (8 items)
- 2 Air handler structure (18 items)
- 3 Separation of suction and discharge (6 items)
- 4 Louver structure /control (20 items)
- 5 3-side heat exchange structure (3 items)
- 6 Electrical part(2 items)



Fan RPM (Revolutions Per Minutes) Control (External Static Pressure (ESP) & Noise Control)

MULTI V Space II technologies are covered by LG's domestic and international patents, some of them have been already registered.

How to set up

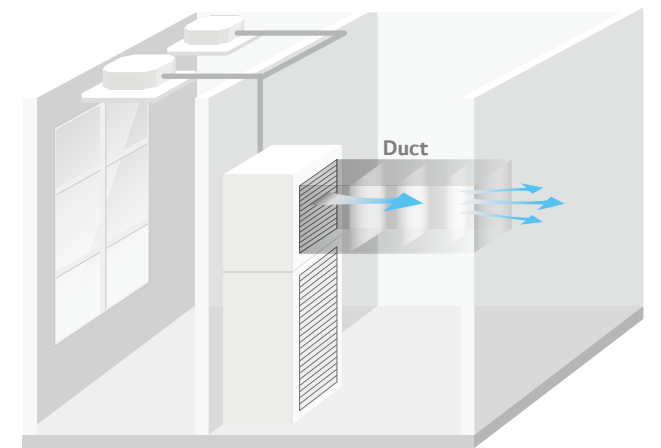
- ESP control

1 2 3 4 5 6 7	8 9 10 11 12 13 14	Step 1 : 4mmAq < ESP ≤ 6mmAq
1 2 3 4 5 6 7	8 9 10 11 12 13 14	Step 2 : 6mmAq < ESP ≤ 8mmAq
1 2 3 4 5 6 7	8 9 10 11 12 13 14	Step 3 : 8mmAq < ESP ≤ 10mmAq
1 2 3 4 5 6 7	8 9 10 11 12 13 14	Step 4 : 10mmAq < ESP ≤ 12mmAq

- Noise control

1 2 3 4 5 6 7	8 9 10 11 12 13 14	Low blowing noise : Max - 100RPM
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Outdoor Duct Application



4-Step Modular Design

- The modular design of the outdoor unit provides simpler installation and maintenance.
- Outdoor unit can be installed according to the building construction schedule.
- Louver is provided locally





HP				6
Model	Combination unit			ARUN60LL2(R2)
Capacity	Cooling	Nom	kW	16.0
	Heating	Nom	kW	18.0
Low Temperature Capacity	Heating - 7°C	Max	kW	16.4
Power Input	Cooling	Nom	kW	4.7
	Heating	Nom	kW	4.9
Low Temperature Power Input	Heating - 7°C	Max	kW	6.0
COP	Cooling			3.40
	Heating			3.67
Operation Range	Cooling	Min~Max	°C DB	-5°C ~ 43°C
	Heating	Min~Max	°C WB	-20°C ~ 16°C
Compressor	Type			DC Scroll
	Number of Compressor			1
Fan	Type			Sirocco
	Motor Type			BLDC motor
Airflow Rate	Cooling	Max	m³/min	100
Sound Pressure		Max	dBA	62
Dimensions		WxDxH	mm	750 x 1,790 x 650
Net Weight			kg	200
Refrigerant	Type			R410A
	Charge		kg	5.2
	Control			EEV
Refrigerant Oil	Type			FVC68D(PVE)
	Control		cc	2300
Power Supply			ø/V/Hz	3, 380-415, 50
Transmission Cable (VCTF-SB)			No. x mm²	CVV-SB 1.0~1.5 x 2C
Piping Length	Total	Max	m	300
	Actual Longest Piping Length *	Max	m	150(175)
	After 1st Y branch **	Max	m	40
Piping Level Difference	IDU-ODU	Max	m	50(40)
	IDU-IDU	Max	m	15
Piping Connection	Liquid		mm(inch)	9.52(3/8)
	Gas		mm(inch)	19.05(3/4)
Number of Outdoor Units				1
Number of Connectable Indoor Units ***		Max		9
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%
Heat exchanger	Type			Wide Louver Plus Fin

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

* () : equivalent length



HP				8
Model	Combination unit			ARUN80LL2(R2)
Capacity	Cooling	Nom	kW	21.7
	Heating	Nom	kW	23.0
Low Temperature Capacity	Heating - 7°C	Max	kW	20.9
Power Input	Cooling	Nom	kW	6.7
	Heating	Nom	kW	7.1
Low Temperature Power Input	Heating - 7°C	Max	kW	8.7
COP	Cooling			3.24
	Heating			3.24
Operation Range	Cooling	Min~Max	°C DB	-5°C ~ 43°C
	Heating	Min~Max	°C WB	-20°C ~ 16°C
Compressor	Type			DC Scroll
	Number of Compressor			1
Fan	Type			Sirocco
	Motor Type			BLDC motor
Airflow Rate	Cooling	Max	m³/min	120
Sound Pressure		Max	dBA	65
Dimensions		WxDxH	mm	750 x 1,790 x 650
Net Weight			kg	200
Refrigerant	Type			R410A
	Charge		kg	6.4
	Control			EEV
Refrigerant Oil	Type			FVC68D(PVE)
	Control		cc	2300
Power Supply			ø/V/Hz	3, 380-415, 50
Transmission Cable (VCTF-SB)			No. x mm²	CVV-SB 1.0~1.5 x 2C
Piping Length	Total	Max	m	300
	Actual Longest Piping Length *	Max	m	150(175)
	After 1st Y branch **	Max	m	40
Piping Level Difference	IDU-ODU	Max	m	50(40)
	IDU-IDU	Max	m	15
Piping Connection	Liquid		mm(inch)	9.52(3/8)
	Gas		mm(inch)	19.05(5/8)
Number of Outdoor Units				1
Number of Connectable Indoor Units ***		Max		13
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%
Heat exchanger	Type			Wide Louver Plus Fin

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
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MULTI V™ WATER IV

SUPERIOR EFFICIENCY VIA THE INTEGRATION OF SMART TECHNOLOGIES

Today's businesses demand highly efficient temperature control solutions, capable of providing optimal energy savings without sacrificing performance. When it comes to cooling and heating a multi-storey or high-rise building, water cooled HVAC systems have become the solution of choice.

Offering several performance enhancements and greater installation versatility, LG's MULTI V WATER IV combines intelligent functions with advanced inverter technology; boosting both energy efficiency and operational range. This superior water cooled system significantly improves return on investment (ROI) with a stellar 5.9 coefficient of

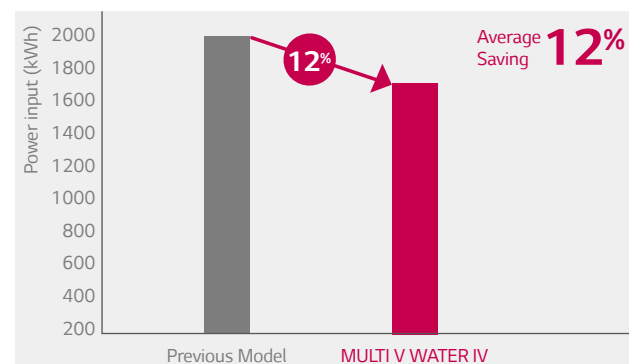
performance (COP) and an equally impressive independent part load value (IPLV) of 6.73.

Along with outstanding energy efficiency, the new solution comes with a range of truly smart features, including optimized cycle composition and smart control. For ease of installation and better economy of space, MULTI V WATER IV is both lighter in weight and smaller in overall size.

LG, a leading innovator in HVAC technologies, will continue to develop and manufacture high performance, energy efficient solutions for the benefit of its growing global customer-base.

Economical, Highly Efficient System

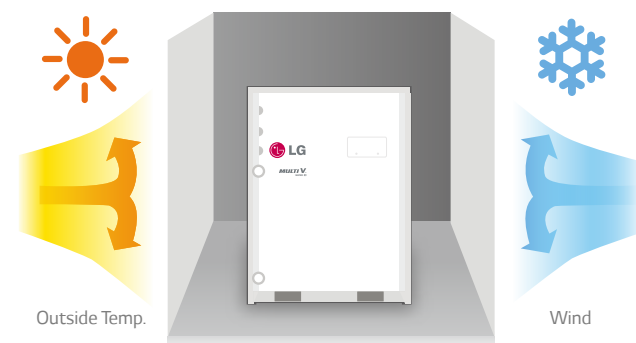
Adopting a water-based cooling method, this unit optimizes performance in comparison to compressor capacity. It also ensures heat exchange performance for high-rise buildings, thus allowing electrical-savings.



Source : LG Energy Estimate Program (LEEP)
simulation data-5th floor building in Paris, France

High Efficiency System Regardless of External Conditions

Regardless of outdoor temperature and other environmental conditions, MULTI V WATER IV is the optimal solution for high-rise buildings.

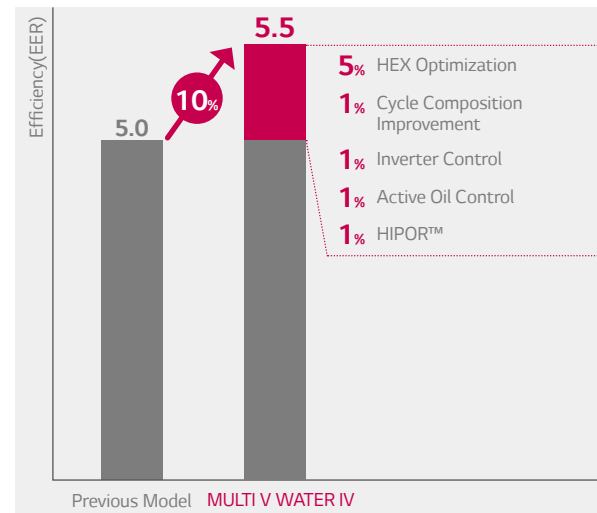


EXCEPTIONAL EFFICIENCY

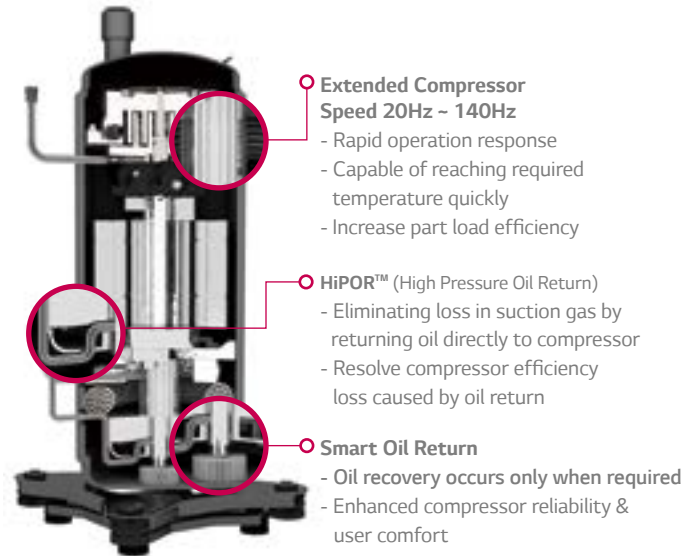
World's first class, rated and part load efficiency

LG's 4th Generation Inverter Compressor

With a fourth generation inverter compressor, the Multi V Water IV boasts top-class energy efficiency.



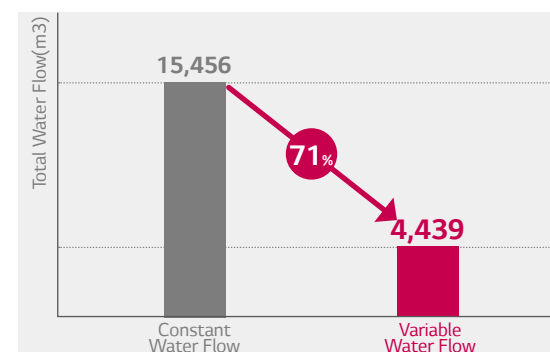
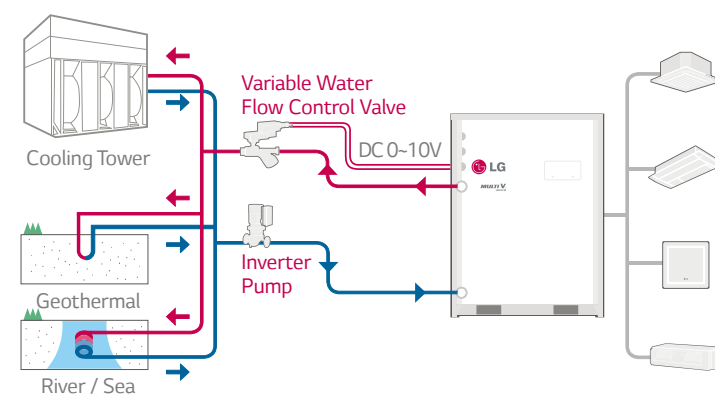
* Comparison between 10HP in cooling mode



Variable Water Flow Control Kit (Option)

The world's first variable water flow control system for water cooled VRF system. LG applied variable water flow control system to reduce circulation pump energy consumption, by controlling embedded kit.

- Adjust water flow by pressure control after connecting PCB in the existing MULTI V Water Outdoor unit



Note

1. Location: France
2. Total operation time: 1,344hr
3. Indoor temperature: normal office environment
4. Outdoor temperature: average summer temperature
5. Inlet flow temperature: approximately 30°C

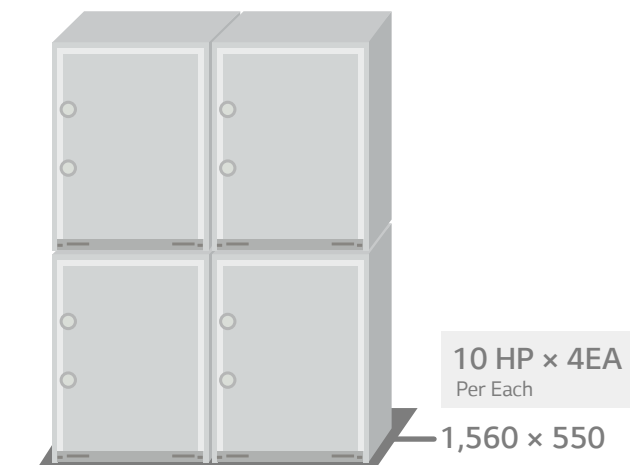
WORLD'S SMALLEST SIZE

Its reduced size and lighter weight allow increased freedom in choosing a location for external unit as well as enhanced utilization of indoor space.

Compact Size

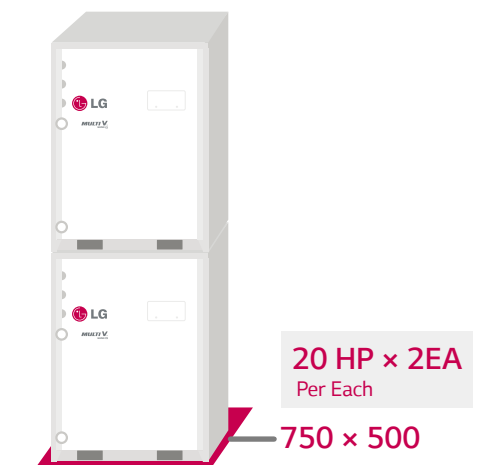
The optimal design of the compact, lightweight outdoor unit enables double stacking, which results in 50% savings on installation space.

Company B



* Double stacking floor area
** 40HP Capacity Installation scene

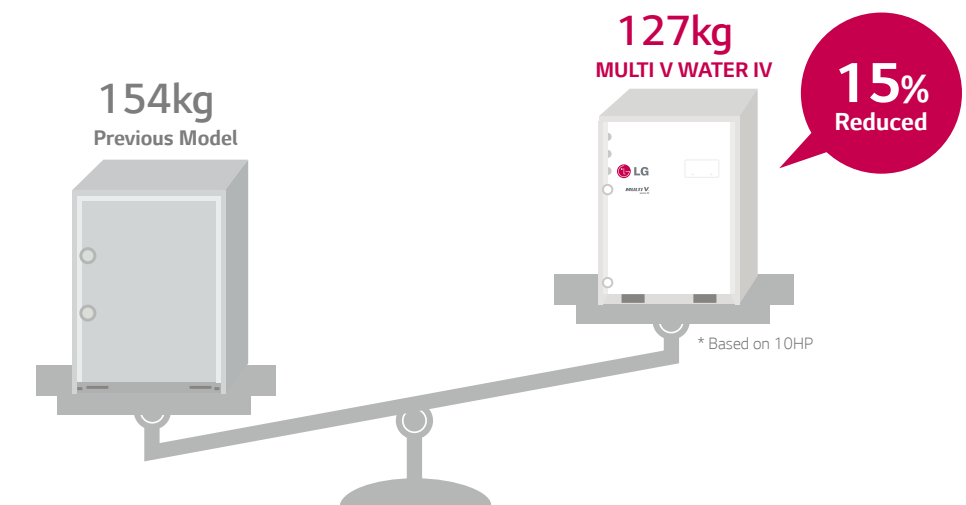
MULTI V WATER IV



* 40HP Capacity Installation scene

Light Weight

Easier to transport and install thanks to 13% reduction in unit size and 15% reduction in overall weight.



* Based on 10HP

OUTSTANDING PERFORMANCE

Stable performance and long life are ensured irrespective of environmental changes, in addition to high-speed cooling and heating.

Largest Capacity

Providing 8~20 HP with single unit, and up to the world's largest capacity 80HP by combination.

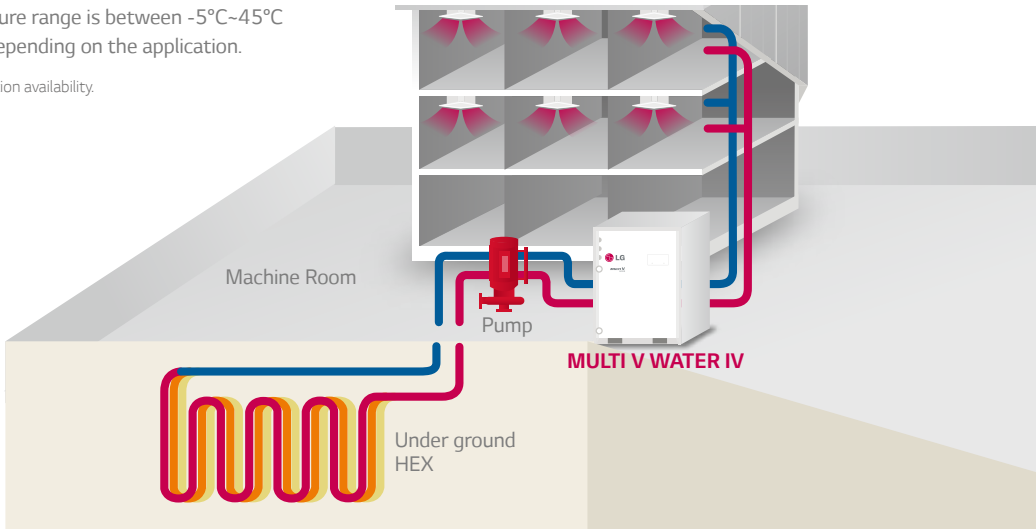
Line up (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42-60	62-80		
LG	 1 Unit							 2 Units												 3 Units	 4 Units
Company B	 1 Unit		-	-	 2 Units			-	 3 Units			-	-	-	-	-	-	-	-		
Company C	 1 Unit			-	 2 Units			 3 Units							-	-	-	-	-		

MULTI V WATER IV System for Geothermal Applications

Uses underground heat sources such as soil, ground water, lake, river, etc. as renewable energy for cooling and Heating of a building. Water or antifreeze solution is circulated through the closed loop HDPE(High Density Poly-Ethylene) pipes buried beneath the earth's surface. It is a highly efficient and eco-friendly MULTI V system.

- The Circulating water temperature range is between -5°C~45°C
- Antifreeze should be applied depending on the application.

* Please contact local LG office for application availability.

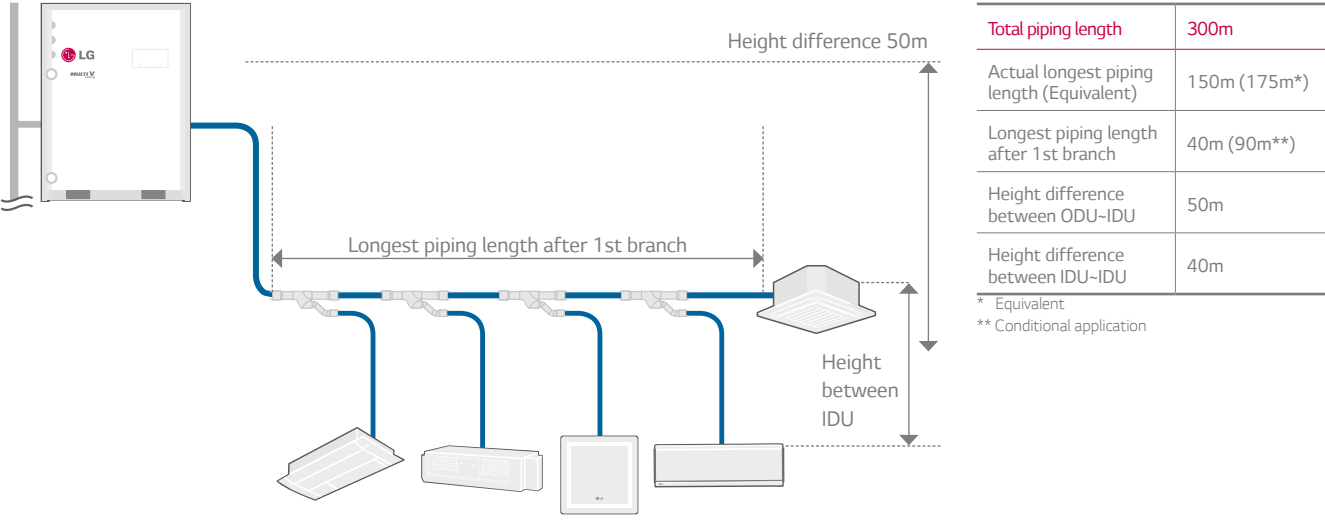


DESIGN WITHOUT LIMITS

Easy design with the most convenient features

Longest Piping Length

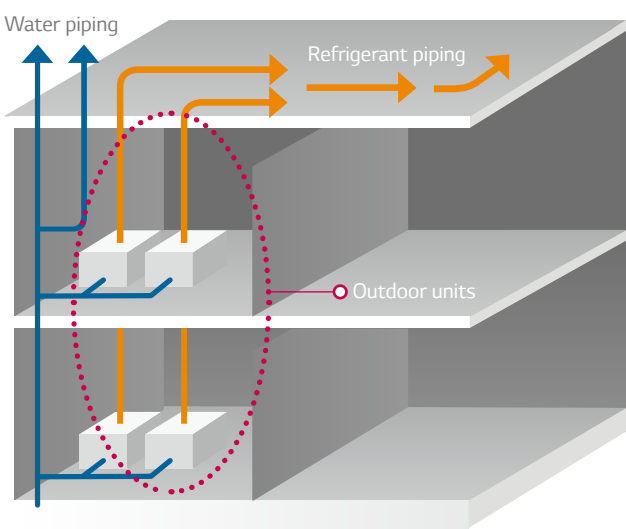
Provide flexible installation up to 300m of total piping length. As water pipes are not connected to indoor units, users are free from leakage problems.



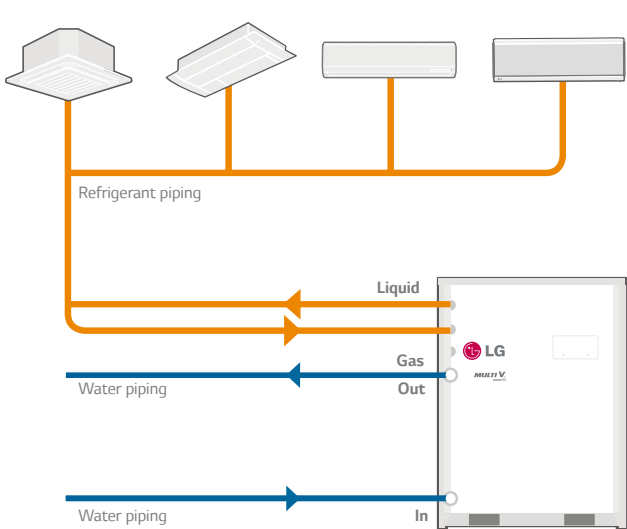
Easy Installation

Front-side connectable refrigerant and water pipe makes easier installation.

Company B



MULTI V WATER IV



Reference Site

Bouygues Construction Co. HQ building

New Water-Cooled VRF System
Combines Two Great HVAC Systems



Keeping Bouygues Construction Cool

This innovative variable water flow technology looks great in the lab, but how does it work in actual practice? As a matter of fact, it turns out working extremely well. LG's water-cooled VRF system, Multi V Water II, was used in the remodeling of Bouygues Construction Office in Paris. The French industrial group. The ambitious remodeling project became the world's first site using LG's water-cooled VRF. It utilized 162 outdoor units which is 2,000 horsepower.

From the start, the Bouygues Construction office was designed environment-friendly. It has a glass atrium in the center with a green roof and solar blinds. The building acquired the NF Bâtiments tertiaires – Demarché HQE label, which certifies high performance level in three different environmental areas at least. The water-cooled VRF system was the best option for who wants high energy saving office building.





HP				8	10	12
Model	Combination unit			ARWN080LAS4	ARWN100LAS4	ARWN120LAS4
	Independent unit			ARWN080LAS4	ARWN100LAS4	ARWN120LAS4
Capacity	Cooling	Nom	kW	22.4	28	33.6
	Heating	Nom	kW	25.2	31.5	37.8
Power Input	Cooling	Nom	kW	3.86	5.09	6.46
	Heating	Nom	kW	4.20	5.34	6.75
EER				5.80	5.50	5.20
COP				6.00	5.90	5.60
ESEER				7.77	7.71	7.26
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Sound Pressure (Cooling)		Nom	dBA	47	50	56
Sound Pressure (Heating)		Nom	dBA	51	53	56
Sound Power (Cooling)		Nom	dBA	59	62	68
Sound Power (Heating)		Nom	dBA	63	65	68
Dimensions		WxHxD	mm	755 × 997 × 500	755 × 997 × 500	755 × 997 × 500
Net Weight			kg	127 x 1	127 x 1	127 x 1
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	5.8	5.8	5.8
	Control			EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200	1,200	1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 -1.5 x 2C	1.0 -1.5 x 2C	1.0 -1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50
	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)	22.2(7/8)	22.2(7/8)	25.4(1)
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			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45
	Nom Water Flow		L/min	77	96	116
	Head Loss		kPa	10.7	15.8	21.8
Water Connection pipe	Inlet		mm(inch)	PT 40	PT 40	PT 40
	Outlet		mm(inch)	PT 40	PT 40	PT 40
	Drain Outlet		mm	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				14	16	18	20
Model	Combination unit			ARWN140LAS4	ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
	Independent unit			ARWN140LAS4	ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
Capacity	Cooling	Nom	kW	39.2	44.8	50.4	56
	Heating	Nom	kW	44.1	50.4	56.7	63
Power Input	Cooling	Nom	kW	7.84	8.15	9.69	11.2
	Heating	Nom	kW	8.17	8.54	10.13	11.67
EER				5.00	5.50	5.20	5.00
COP				5.40	5.90	5.60	5.40
ESEER				6.96	7.18	7.10	7.02
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1	1
Sound Pressure (Cooling)		Nom	dBA	58	53	55	54
Sound Pressure (Heating)		Nom	dBA	57	57	56	60
Sound Power (Cooling)		Nom	dBA	70	65	67	66
Sound Power (Heating)		Nom	dBA	69	69	68	72
Dimensions		WxHxD	mm	755 × 997 × 500	755 × 997 × 500	755 × 997 × 500	755 × 997 × 500
Net Weight			kg	127 x 1	140 x 1	140 x 1	140 x 1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	5.8	3.0	3.0	3.0
	Control			EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200	1,400	1,400	1,400
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	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50
	IDU-IDU	Max	m	40	40	40	40
Piping Connection	Liquid		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Gas		mm(inch)	25.4(1)	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)	32(44)
Ratio of the Connectable Indoor Units				Min-Max	50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45	45
	Nom Water Flow		L/min	135	154	173	192
	Head Loss		kPa	28.6	19.4	24	30.1
Water Connection pipe	Inlet		mm(inch)	PT 40	PT 40	PT 40	PT 40
	Outlet		mm(inch)	PT 40	PT 40	PT 40	PT 40
	Drain Outlet		mm	20	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
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 - EEV : Electronic Expansion Valve
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* () : Conditional application



HP				22	24
Model	Combination unit			ARWN220LAS4	ARWN240LAS4
	Independent unit			ARWN100LAS4	ARWN120LAS4
				ARWN120LAS4	ARWN120LAS4
Capacity	Cooling	Nom	kW	61.6	67.2
	Heating	Nom	kW	69.3	75.6
Power Input	Cooling	Nom	kW	11.55	12.92
	Heating	Nom	kW	12.09	13.5
EER				5.33	5.20
COP				5.73	5.60
ESEER				7.34	7.21
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	2
Sound Pressure (Cooling)		Nom	dBA	57	57
Sound Pressure (Heating)		Nom	dBA	57	57
Sound Power (Cooling)		Nom	dBA	70	70
Sound Power (Heating)		Nom	dBA	70	70
Dimensions	WxHxD		mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	127 × 2	127 × 2
Refrigerant	Type			R410A	R410A
	Charge		kg	5.8 + 5.8	5.8 + 5.8
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200 + 1,200	1,200 + 1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50
	IDU-IDU	Max	m	40	40
Piping Connection	Liquid		mm(inch)	19.05(3/4)	19.05(3/4)
	Gas		mm(inch)	34.9(1-3/8)	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			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45
	Nom Water Flow		L/min	116 + 96	116 + 116
	Head Loss		kPa	21.8 + 15.8	21.8 + 21.8
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
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HP				26	28
Model	Combination unit			ARWN260LAS4	ARWN280LAS4
	Independent unit			ARWN120LAS4	ARWN140LAS4
				ARWN140LAS4	ARWN140LAS4
Capacity	Cooling	Nom	kW	72.8	78.4
	Heating	Nom	kW	81.9	88.2
Power Input	Cooling	Nom	kW	14.3	15.68
	Heating	Nom	kW	14.92	16.34
EER				5.09	5.00
COP				5.49	5.40
ESEER				7.11	7.02
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Sound Pressure (Cooling)		Nom	dBA	59	59
Sound Pressure (Heating)		Nom	dBA	58	58
Sound Power (Cooling)		Nom	dBA	72	72
Sound Power (Heating)		Nom	dBA	71	71
Dimensions	WxHxD		mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	127 × 2	127 × 2
Refrigerant	Type			R410A	R410A
	Charge		kg	5.8 + 5.8	5.8 + 5.8
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200 + 1,200	1,200 + 1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50
	IDU-IDU	Max	m	40	40
Piping Connection	Liquid		mm(inch)	19.05(3/4)	19.05(3/4)
	Gas		mm(inch)	34.9(1-3/8)	34.9(1-3/8)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units		Max		42(52)	45(56)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45
	Nom Water Flow		L/min	135 + 116	135 + 135
	Head Loss		kPa	28.6 + 21.8	28.6 + 28.6
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
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HP				30	32	34
Model	Combination unit			ARWN300LAS4	ARWN320LAS4	ARWN340LAS4
	Independent unit			ARWN140LAS4	ARWN140LAS4	ARWN140LAS4
				ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
Capacity	Cooling	Nom	kW	84	89.6	95.2
	Heating	Nom	kW	94.5	100.8	107.1
Power Input	Cooling	Nom	kW	15.99	17.53	19.04
	Heating	Nom	kW	16.71	18.3	19.84
EER				5.25	5.11	5.00
COP				5.66	5.51	5.40
ESEER				7.12	7.07	7.01
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2	2
Sound Pressure (Cooling)		Nom	dBA	59	59	59
Sound Pressure (Heating)		Nom	dBA	58	58	61
Sound Power (Cooling)		Nom	dBA	72	72	72
Sound Power (Heating)		Nom	dBA	71	71	74
Dimensions	WxHxD	mm		(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	(127 × 1) + (140 × 1)	(127 × 1) + (140 × 1)	(127 × 1) + (140 × 1)
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0 + 5.8	3.0 + 3.0	3.0 + 5.8
	Control			EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,400 + 1,200	1,400 + 1,200	1,400 + 1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50
	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)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
Number of Outdoor Units				2	2	2
Number of Connectable Indoor Units		Max		49(60)	52(64)	55(64)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45
	Nom Water Flow		L/min	154 + 135	173 + 135	192 + 135
	Head Loss		kPa	19.4 + 28.6	24.0 + 28.6	30.1 + 28.6
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				36	38	40
Model	Combination unit			ARWN360LAS4	ARWN380LAS4	ARWN400LAS4
	Independent unit			ARWN180LAS4	ARWN180LAS4	ARWN200LAS4
				ARWN180LAS4	ARWN200LAS4	ARWN200LAS4
Capacity	Cooling	Nom	kW	100.8	106.4	112
	Heating	Nom	kW	113.4	119.7	126
Power Input	Cooling	Nom	kW	19.38	20.89	22.4
	Heating	Nom	kW	20.26	21.8	23.34
EER				5.20	5.09	5.00
COP				5.60	5.49	5.40
ESEER				7.11	7.06	7.01
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2	2
Sound Pressure (Cooling)		Nom	dBA	56	56	55
Sound Pressure (Heating)		Nom	dBA	57	61	61
Sound Power (Cooling)		Nom	dBA	69	69	68
Sound Power (Heating)		Nom	dBA	70	74	74
Dimensions	WxHxD	mm		(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	140 × 2	140 × 2	140 × 2
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0 + 3.0	3.0 + 3.0	3.0 + 3.0
	Control			EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,400 + 1,400	1,400 + 1,400	1,400 + 1,400
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50
	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				2	2	2
Number of Connectable Indoor Units		Max		58(64)	61(64)	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45
	Nom Water Flow		L/min	173 + 173	192 + 173	192 + 192
	Head Loss		kPa	24.0 + 24.0	30.1 + 24.0	30.1 + 30.1
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				42	44	46	48	50
Model	Combination unit			ARWN420LAS4	ARWN440LAS4	ARWN460LAS4	ARWN480LAS4	ARWN500LAS4
	Independent unit			ARWN100LAS4	ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4
				ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4	ARWN160LAS4
				ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
Capacity	Cooling	Nom	kW	117.6	123.2	128.8	134.4	140
	Heating	Nom	kW	132.3	138.6	144.9	151.2	157.5
Power Input	Cooling	Nom	kW	22.75	24.12	25.5	26.88	27.19
	Heating	Nom	kW	23.76	25.17	26.59	28.01	28.38
EER				5.17	5.11	5.05	5.00	5.15
COP				5.57	5.51	5.45	5.40	5.55
ESEER				7.18	7.12	7.06	7.01	7.07
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3	3	3	3
Sound Pressure (Cooling)			Nom	dBA	58	58	60	60
Sound Pressure (Heating)			Nom	dBA	62	62	62	62
Sound Power (Cooling)			Nom	dBA	72	72	74	74
Sound Power (Heating)			Nom	dBA	76	76	76	76
Dimensions			WxHxD	mm	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
Net Weight				kg	(140 x 1) + (127 X 2)	(140 x 1) + (127 X 2)	(140 x 1) + (127 X 2)	(140 x 2) + (127 X 1)
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge			kg	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8
	Control				EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control			cc	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,200
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. x mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50	50
	IDU-IDU	Max	m	40	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)	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)	41.3(1-5/8)
Number of Outdoor Units				3	3	3	3	3
Number of Connectable Indoor Units			Max	64	64	64	64	64
Ratio of the Connectable Indoor Units			Min-Max	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45	45	45
	Nom Water Flow		L/min	192 + 116 + 96	192 + 116 + 116	192 + 135 + 116	192 + 135 + 135	192 + 154 + 135
	Head Loss		kPa	30.1 + 21.8 + 15.8	30.1 + 21.8 + 21.8	30.1 + 28.6 + 21.8	30.1 + 28.6 + 28.6	30.1 + 19.4 + 28.6
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet		mm	20	20	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				52	54	56	58	60	
Model	Combination unit			ARWN520LAS4	ARWN540LAS4	ARWN560LAS4	ARWN580LAS4	ARWN600LAS4	
	Independent unit			ARWN140LAS4	ARWN140LAS4	ARWN180LAS4	ARWN180LAS4	ARWN200LAS4	
				ARWN180LAS4	ARWN200LAS4	ARWN180LAS4	ARWN200LAS4	ARWN200LAS4	
				ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	
Capacity	Cooling	Nom	kW	145.6	151.2	156.8	162.4	168	
	Heating	Nom	kW	163.8	170.1	176.4	182.7	189	
Power Input	Cooling	Nom	kW	28.73	30.24	30.58	32.09	33.6	
	Heating	Nom	kW	29.97	31.51	31.93	33.47	35.01	
EER				5.07	5.00	5.13	5.06	5.00	
COP				5.47	5.40	5.52	5.46	5.40	
ESEER				7.04	7.01	7.07	7.04	7.01	
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Number of Compressor			3	3	3	3	3	
Sound Pressure (Cooling)			Nom	dBA	60	60	57	57	56
Sound Pressure (Heating)			Nom	dBA	62	62	62	62	62
Sound Power (Cooling)			Nom	dBA	74	74	71	71	70
Sound Power (Heating)			Nom	dBA	76	76	76	76	76
Dimensions			WxHxD	mm	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
Net Weight				kg	(140 × 2) + (127 × 1)	(140 × 2) + (127 × 1)	140 × 3	140 × 3	140 × 3
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A	
	Charge		kg	3.0 + 3.0 + 5.8	3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0	
	Control			EEV	EEV	EEV	EEV	EEV	
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	
	Control		cc	1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400	
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	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)	300(500)	
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)	150(200)	
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)	
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50	50	
	IDU-IDU	Max	m	40	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)	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)	41.3(1-5/8)	
Number of Outdoor Units				3	3	3	3	3	
Number of Connectable Indoor Units			Max	64	64	64	64	64	
Ratio of the Connectable Indoor Units			Min-Max	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Pressure Resistance	Max	kgf/cm²	45	45	45	45	45	
	Nom Water Flow		L/min	192 + 173 + 135	192 + 192 + 135	192 + 173 + 173	192 + 192+ 173	192 + 192+ 192	
	Head Loss		kPa	30.1 + 24.0 + 28.6	30.1 + 28.6 + 28.6	30.1 + 24.0 + 24.0	30.1 + 30.1 + 24.0	30.1 + 30.1 + 30.1	
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	
	Outlet		mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	
	Drain Outlet		mm	20	20	20	20	20	

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				62	64	66	68	70
Model	Combination unit			ARWN620LAS4	ARWN640LAS4	ARWN660LAS4	ARWN680LAS4	ARWN700LAS4
	Independent unit			ARWN100LAS4	ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4
				ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4	ARWN160LAS4
				ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
Capacity	Cooling	Nom	kW	173.6	179.2	184.8	190.4	196
	Heating	Nom	kW	195.3	201.6	207.9	214.2	220.5
Power Input	Cooling	Nom	kW	33.95	35.32	36.7	38.08	38.39
	Heating	Nom	kW	35.43	36.84	38.26	39.68	40.05
EER				5.11	5.07	5.04	5.00	5.11
COP				5.51	5.47	5.43	5.40	5.51
ESEER				7.12	7.08	7.04	7.01	7.05
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			4	4	4	4	4
Sound Pressure (Cooling)		Nom	dBA	59	59	61	61	61
Sound Pressure (Heating)		Nom	dBA	63	63	63	63	63
Sound Power (Cooling)		Nom	dBA	73	73	75	75	75
Sound Power (Heating)		Nom	dBA	77	77	77	77	77
Dimensions		WxHxD	mm	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4
Net Weight			kg	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 3) + (127 x 1)
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		kg	30 + 30 + 58 + 58	30 + 30 + 58 + 58	30 + 30 + 58 + 58	30 + 30 + 58 + 58	30 + 30 + 30 + 58
	Control			EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC69D(PVE)	FVC70D(PVE)	FVC71D(PVE)	FVC72D(PVE)
	Control		cc	1,400 + 1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,400 + 1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm ²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50	50
	IDU-IDU	Max	m	40	40	40	40	40
Piping Connection	Liquid		mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas		mm(inch)	44.5(1-3/4)	44.5(1-3/4)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
Number of Outdoor Units				4	4	4	4	4
Number of Connectable Indoor Units		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm ²	45	45	45	45	45
	Nom Water Flow		L/min	192 + 192 + 116 + 96	192 + 192 + 116 + 116	192 + 192 + 135 + 116	192 + 192 + 135 + 135	192 + 192 + 154 + 135
	Head Loss		kPa	30.1+30.1+21.8+15.8	30.1+30.1+21.8+21.8	30.1+30.1+28.6+21.8	30.1+30.1+28.6+28.6	30.1+30.1+19.4+28.6
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet		mm	20	20	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section,)

* () : Conditional application



HP				72	74	76	78	80
Model	Combination unit			ARWN720LAS4	ARWN740LAS4	ARWN760LAS4	ARWN780LAS4	ARWN800LAS4
	Independent unit			ARWN140LAS4	ARWN140LAS4	ARWN180LAS4	ARWN180LAS4	ARWN200LAS4
				ARWN180LAS4	ARWN200LAS4	ARWN180LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
Capacity	Cooling	Nom	kW	201.6	207.2	212.8	218.4	224
	Heating	Nom	kW	226.8	233.1	239.4	245.7	252
Power Input	Cooling	Nom	kW	39.93	41.44	41.78	43.29	44.8
	Heating	Nom	kW	41.64	43.18	43.6	45.14	46.68
EER				5.05	5.00	5.09	5.05	5.00
COP				5.45	5.40	5.49	5.44	5.40
ESEER				7.03	7.01	7.05	7.03	7.01
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			4	4	4	4	4
Sound Pressure (Cooling)			Nom	dBA	61	61	58	57
Sound Pressure (Heating)			Nom	dBA	63	63	63	63
Sound Power (Cooling)			Nom	dBA	75	75	72	71
Sound Power (Heating)			Nom	dBA	77	77	77	77
Dimensions			WxHxD	mm	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4
Net Weight				kg	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4	140 x 4
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge			kg	30 + 30 + 30 + 58	30 + 30 + 30 + 58	30 + 30 + 30 + 30	30 + 30 + 30 + 30
	Control				EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC73D(PVE)	FVC74D(PVE)	FVC75D(PVE)	FVC76D(PVE)	FVC77D(PVE)
	Control			cc	1,400 + 1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400 + 1,400
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	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50	50
	IDU-IDU	Max	m	40	40	40	40	40
Piping Connection	Liquid		mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas		mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
Number of Outdoor Units				4	4	4	4	4
Number of Connectable Indoor Units			Max	64	64	64	64	64
Ratio of the Connectable Indoor Units			Min-Max	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45	45	45
	Nom Water Flow		L/min	192 + 192 + 173 + 135	192 + 192 + 192 + 135	192 + 192 + 173 + 173	192 + 192 + 192 + 173	192 + 192 + 192 + 192
	Head Loss		kPa	30.1 + 30.1 + 24.0 + 28.6	30.1 + 30.1 + 30.1 + 28.6	30.1 + 30.1 + 24.0 + 24.0	30.1 + 30.1 + 30.1 + 24.0	30.1 + 30.1 + 30.1 + 30.1
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet		mm	20	20	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section,)

* () : Conditional application



HP				8	10	12
Model	Combination unit			ARWB080LAS4	ARWB100LAS4	ARWB120LAS4
	Independent unit			ARWB080LAS4	ARWB100LAS4	ARWB120LAS4
Capacity	Cooling	Nom	kW	22.4	28	33.6
	Heating	Nom	kW	25.2	31.5	37.8
Power Input	Cooling	Nom	kW	3.86	5.09	6.46
	Heating	Nom	kW	4.20	5.34	6.75
EER				5.80	5.50	5.20
COP				6.00	5.90	5.60
ESEER				7.77	7.71	7.26
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Sound Pressure (Cooling)		Nom	dBA	47	50	56
Sound Pressure (Heating)		Nom	dBA	51	53	56
Sound Power (Cooling)		Nom	dBA	59	62	68
Sound Power (Heating)		Nom	dBA	63	65	68
Dimensions		WxHxD	mm	755 × 997 × 500	755 × 997 × 500	755 × 997 × 500
Net Weight			kg	127 x 1	127 x 1	127 x 1
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	5.8	5.8	5.8
	Control			EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200	1,200	1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50
	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)	22.2(7/8)	22.2(7/8)	25.4(1)
	High Pressure Gas		mm(inch)	19.05(3/4)	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			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45
	Nom Water Flow		L/min	77	96	116
	Head Loss		kPa	10.7	15.8	21.8
Water Connection pipe	Inlet		mm(inch)	PT 40	PT 40	PT 40
	Outlet		mm(inch)	PT 40	PT 40	PT 40
	Drain Outlet		mm	20	20	20

Note :

1. Capacities and Inputs are based on the following conditions

Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero

Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)

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. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				14	16	18	20
Model	Combination unit			ARWB140LAS4	ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
	Independent unit			ARWB140LAS4	ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	39.2	44.8	50.4	56
	Heating	Nom	kW	44.1	50.4	56.7	63
Power Input	Cooling	Nom	kW	7.84	8.15	9.69	11.2
	Heating	Nom	kW	8.17	8.54	10.13	11.67
EER				5.00	5.50	5.20	5.00
COP				5.40	5.90	5.60	5.40
ESEER				6.96	7.18	7.10	7.02
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1	1
Sound Pressure (Cooling)		Nom	dBA	58	53	55	54
Sound Pressure (Heating)		Nom	dBA	57	57	56	60
Sound Power (Cooling)		Nom	dBA	70	65	67	66
Sound Power (Heating)		Nom	dBA	69	69	68	72
Dimensions		WxHxD	mm	755 × 997 × 500	755 × 997 × 500	755 × 997 × 500	755 × 997 × 500
Net Weight			kg	127 x 1	140 x 1	140 x 1	140 x 1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	5.8	3.0	3.0	3.0
	Control			EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control			cc	1,200	1,400	1,400
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	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length		Max	m	150(200)	150(200)	150(200)
	After 1st Y branch		Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50
	IDU-IDU	Max	m	40	40	40	40
Piping Connection	Liquid		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Low Pressure Gas		mm(inch)	25.4(1)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
	High Pressure Gas		mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
Number of Outdoor Units				1	1	1	1
Number of Connectable Indoor Units		Max		23(35)	26(40)	29(45)	32(44)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 200%	50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45	45
	Nom Water Flow		L/min	135	154	173	192
	Head Loss		kPa	28.6	19.4	24	30.1
Water Connection pipe	Inlet		mm(inch)	PT 40	PT 40	PT 40	PT 40
	Outlet		mm(inch)	PT 40	PT 40	PT 40	PT 40
	Drain Outlet		mm	20	20	20	20

Note :

1. Capacities and Inputs are based on the following conditions

Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero

Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)

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. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				22	24
Model	Combination unit			ARWB220LAS4	ARWB240LAS4
	Independent unit			ARWB100LAS4	ARWB120LAS4
				ARWB120LAS4	ARWB120LAS4
Capacity	Cooling	Nom	kW	61.6	67.2
	Heating	Nom	kW	69.3	75.6
Power Input	Cooling	Nom	kW	11.55	12.92
	Heating	Nom	kW	12.09	13.5
EER				5.33	5.20
COP				5.73	5.60
ESEER				7.34	7.21
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				
				1	2
Sound Pressure (Cooling)			Nom	dBA	57
Sound Pressure (Heating)			Nom	dBA	57
Sound Power (Cooling)			Nom	dBA	70
Sound Power (Heating)			Nom	dBA	70
Dimensions			WxHxD	mm	(755 × 997 × 500) × 2
Net Weight				kg	127 × 2
Refrigerant	Type			R410A	R410A
	Charge			kg	5.8 + 5.8
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control			cc	1,200 + 1,200
Power Supply				ø/V/Hz	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)				No. x mm²	1.0 ~ 1.5 × 2C
Piping Length	Total	Max	m	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50
	IDU-IDU	Max	m	40	40
Piping Connection	Liquid		mm(inch)	19.05(3/4)	19.05(3/4)
	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			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45
	Nom Water Flow		L/min	116 + 96	116 + 116
	Head Loss		kPa	21.8 + 15.8	21.8 + 21.8
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

Note :

1. Capacities and Inputs are based on the following conditions

 Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero

 Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)

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. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				26	28
Model	Combination unit			ARWB260LAS4	ARWB280LAS4
	Independent unit			ARWB120LAS4	ARWB140LAS4
				ARWB140LAS4	ARWB140LAS4
Capacity	Cooling	Nom	kW	72.8	78.4
	Heating	Nom	kW	81.9	88.2
Power Input	Cooling	Nom	kW	14.3	15.68
	Heating	Nom	kW	14.92	16.34
EER				5.09	5.00
COP				5.49	5.40
ESEER				7.11	7.02
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Sound Pressure (Cooling)		Nom	dBA	59	59
Sound Pressure (Heating)		Nom	dBA	58	58
Sound Power (Cooling)		Nom	dBA	72	72
Sound Power (Heating)		Nom	dBA	71	71
Dimensions		WxHxD	mm	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight			kg	127 x 2	127 x 2
Refrigerant	Type			R410A	R410A
	Charge		kg	5.8 + 5.8	5.8 + 5.8
	Control			EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200 + 1,200	1,200 + 1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)
	Actual Longest Piping Length		Max	150(200)	150(200)
	After 1st Y branch		Max	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50
	IDU-IDU	Max	m	40	40
Piping Connection	Liquid		mm(inch)	19.05(3/4)	19.05(3/4)
	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		42(52)	45(56)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45
	Nom Water Flow		L/min	135 + 116	135 + 135
	Head Loss		kPa	28.6 + 21.8	28.6 + 28.6
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

Note :

1. Capacities and Inputs are based on the following conditions

 Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero

 Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)

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. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section.)

* () : Conditional application



HP				30	32	34
Model	Combination unit			ARWB300LAS4	ARWB320LAS4	ARWB340LAS4
	Independent unit			ARWB140LAS4	ARWB140LAS4	ARWB140LAS4
				ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	84	89.6	95.2
	Heating	Nom	kW	94.5	100.8	107.1
Power Input	Cooling	Nom	kW	15.99	17.53	19.04
	Heating	Nom	kW	16.71	18.3	19.84
EER				5.25	5.11	5.00
COP				5.66	5.51	5.40
ESEER				7.12	7.07	7.01
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2	2
Sound Pressure (Cooling)		Nom	dBa	59	59	59
Sound Pressure (Heating)		Nom	dBa	58	58	61
Sound Power (Cooling)		Nom	dBa	72	72	72
Sound Power (Heating)		Nom	dBa	71	71	74
Dimensions		WxHxD	mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	(127 × 1) + (140 × 1)	(127 × 1) + (140 × 1)	(127 × 1) + (140 × 1)
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0 + 5.8	3.0 + 3.0	3.0 + 5.8
	Control			EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,400 + 1,200	1,400 + 1,200	1,400 + 1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50
	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)	34.9(1-3/8)	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)	28.58(1-1/8)
Number of Outdoor Units				2	2	2
Number of Connectable Indoor Units		Max		49(60)	52(64)	55(64)
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45
	Nom Water Flow		L/min	154 + 135	173 + 135	192 + 135
	Head Loss		kPa	19.4 + 28.6	24.0 + 28.6	30.1 + 28.6
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section,)

* () : Conditional application



HP				36	38	40
Model	Combination unit			ARWB360LAS4	ARWB380LAS4	ARWB400LAS4
	Independent unit			ARWB180LAS4	ARWB180LAS4	ARWB200LAS4
				ARWB180LAS4	ARWB200LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	100.8	106.4	112
	Heating	Nom	kW	113.4	119.7	126
Power Input	Cooling	Nom	kW	19.38	20.89	22.4
	Heating	Nom	kW	20.26	21.8	23.34
EER				5.20	5.09	5.00
COP				5.60	5.49	5.40
ESEER				7.11	7.06	7.01
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2	2
Sound Pressure (Cooling)		Nom	dBa	56	56	55
Sound Pressure (Heating)		Nom	dBa	57	61	61
Sound Power (Cooling)		Nom	dBa	69	69	68
Sound Power (Heating)		Nom	dBa	70	74	74
Dimensions		WxHxD	mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	140 × 2	140 × 2	140 × 2
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0 + 3.0	3.0 + 3.0	3.0 + 3.0
	Control			EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control			cc	1,400 + 1,400	1,400 + 1,400
Power Supply		ø/V/Hz		3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)		No. x mm²		1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)
	Actual Longest Piping Length		Max	m	150(200)	150(200)
	After 1st Y branch		Max	m	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50
	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				2	2	2
Number of Connectable Indoor Units		Max		58(64)	61(64)	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45
	Nom Water Flow		L/min	173 + 173	192 + 173	192 + 192
	Head Loss		kPa	24.0 + 24.0	30.1 + 24.0	30.1 + 30.1
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information oninstallation section,)

* () : Conditional application



HP				42	44	46	48	50
Model	Combination unit			ARWB420LAS4	ARWB440LAS4	ARWB460LAS4	ARWB480LAS4	ARWB500LAS4
	Independent unit			ARWB100LAS4	ARWB120LAS4	ARWB120LAS4	ARWB140LAS4	ARWB140LAS4
				ARWB120LAS4	ARWB120LAS4	ARWB140LAS4	ARWB140LAS4	ARWB160LAS4
				ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	117.6	123.2	128.8	134.4	140
	Heating	Nom	kW	132.3	138.6	144.9	151.2	157.5
Power Input	Cooling	Nom	kW	22.75	24.12	25.5	26.88	27.19
	Heating	Nom	kW	23.76	25.17	26.59	28.01	28.38
EER				5.17	5.11	5.05	5.00	5.15
COP				5.57	5.51	5.45	5.40	5.55
ESEER				7.18	7.12	7.06	7.01	7.07
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3	3	3	3
Sound Pressure (Cooling)		Nom	dBA	58	58	60	60	60
Sound Pressure (Heating)		Nom	dBA	62	62	62	62	62
Sound Power (Cooling)		Nom	dBA	72	72	74	74	74
Sound Power (Heating)		Nom	dBA	76	76	76	76	76
Dimensions		WxHxD	mm	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
Net Weight			kg	(140 × 1) + (127 × 2)	(140 × 1) + (127 × 2)	(140 × 1) + (127 × 2)	(140 × 1) + (127 × 2)	(140 × 2) + (127 × 1)
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		kg	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8
	Control			EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,200
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50	50
	IDU-IDU	Max	m	40	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)	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)	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)	34.9(1-3/8)
Number of Outdoor Units				3	3	3	3	3
Number of Connectable Indoor Units		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45	45	45
	Nom Water Flow		L/min	192 + 116 + 96	192 + 116 + 116	192 + 135 + 116	192 + 135 + 135	192 + 154 + 135
	Head Loss		kPa	30.1 + 21.8 + 15.8	30.1 + 21.8 + 21.8	30.1 + 28.6 + 21.8	30.1 + 28.6 + 28.6	30.1 + 19.4 + 28.6
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet		mm	20	20	20	20	20

Note :

1. Capacities and Inputs are based on the following conditions

Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero

Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)

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. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information on installation section.)

* () : Conditional application



HP				52	54	56	58	60
Model	Combination unit			ARWB520LAS4	ARWB540LAS4	ARWB560LAS4	ARWB580LAS4	ARWB600LAS4
	Independent unit			ARWB140LAS4	ARWB140LAS4	ARWB180LAS4	ARWB180LAS4	ARWB200LAS4
				ARWB180LAS4	ARWB200LAS4	ARWB180LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	145.6	151.2	156.8	162.4	168
	Heating	Nom	kW	163.8	170.1	176.4	182.7	189
Power Input	Cooling	Nom	kW	28.73	30.24	30.58	32.09	33.6
	Heating	Nom	kW	29.97	31.51	31.93	33.47	35.01
EER				5.07	5.00	5.13	5.06	5.00
COP				5.47	5.40	5.52	5.46	5.40
ESEER				7.04	7.01	7.07	7.04	7.01
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3	3	3	3
Sound Pressure (Cooling)		Nom	dBA	60	60	57	57	56
Sound Pressure (Heating)		Nom	dBA	62	62	62	62	62
Sound Power (Cooling)		Nom	dBA	74	74	71	71	70
Sound Power (Heating)		Nom	dBA	76	76	76	76	76
Dimensions		WxHxD	mm	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
Net Weight			kg	(140 × 2) + (127 × 1)	(140 × 2) + (127 × 1)	140 × 3	140 × 3	140 × 3
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		kg	3.0 + 3.0 + 5.8	3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0
	Control			EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400
Power Supply			ø/V/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50	50
	IDU-IDU	Max	m	40	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)	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)	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)	34.9(1-3/8)
Number of Outdoor Units				3	3	3	3	3
Number of Connectable Indoor Units		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45	45	45
	Nom Water Flow		L/min	192 + 173 + 135	192 + 192 + 135	192 + 173 + 173	192 + 192+ 173	192 + 192+ 192
	Head Loss		kPa	30.1 + 24.0 + 28.6	30.1 + 28.6 + 28.6	30.1 + 24.0 + 24.0	30.1 + 30.1 + 24.0	30.1 + 30.1 + 30.1
Water Connection pipe	Inlet		mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet		mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet		mm	20	20	20	20	20

Note :

1. Capacities and Inputs are based on the following conditions

Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero

Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)

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. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information on installation section.)

* () : Conditional application



HP				62	64	66	68	70
Model	Combination unit			ARWB620LAS4	ARWB640LAS4	ARWB660LAS4	ARWB680LAS4	ARWB700LAS4
	Independent unit			ARWB100LAS4	ARWB120LAS4	ARWB120LAS4	ARWB140LAS4	ARWB140LAS4
				ARWB120LAS4	ARWB120LAS4	ARWB140LAS4	ARWB140LAS4	ARWB160LAS4
				ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	173.6	179.2	184.8	190.4	196
	Heating	Nom	kW	195.3	201.6	207.9	214.2	220.5
Power Input	Cooling	Nom	kW	33.95	35.32	36.7	38.08	38.39
	Heating	Nom	kW	35.43	36.84	38.26	39.68	40.05
EER				5.11	5.07	5.04	5.00	5.11
COP				5.51	5.47	5.43	5.40	5.51
ESEER				7.12	7.08	7.04	7.01	7.05
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			4	4	4	4	4
Sound Pressure (Cooling)		Nom	dBA	59	59	61	61	61
Sound Pressure (Heating)		Nom	dBA	63	63	63	63	63
Sound Power (Cooling)		Nom	dBA	73	73	75	75	75
Sound Power (Heating)		Nom	dBA	77	77	77	77	77
Dimensions		WxHxD	mm	(755×997×500)×4	(755×997×500)×4	(755×997×500)×4	(755×997×500)×4	(755×997×500)×4
Net Weight			kg	(140×2)×(127×2)	(140×2)×(127×2)	(140×2)×(127×2)	(140×2)×(127×2)	(140×3)×(127×1)
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		kg	30+30+58+58	30+30+58+58	30+30+58+58	30+30+58+58	30+30+30+58
	Control			EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D(PVE)	FVC69D(PVE)	FVC70D(PVE)	FVC71D(PVE)	FVC72D(PVE)
	Control		cc	1,400+1,400+1,200+1,200	1,400+1,400+1,200+1,200	1,400+1,400+1,200+1,200	1,400+1,400+1,200+1,200	1,400+1,400+1,400+1,200
Power Supply			ø/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50	50
	IDU-IDU	Max	m	40	40	40	40	40
Piping Connection	Liquid		mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas		mm(inch)	44.5(1-3/4)	44.5(1-3/4)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
	High Pressure Gas		mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	44.5(1-3/4)	44.5(1-3/4)
Number of Outdoor Units				4	4	4	4	4
Number of Connectable Indoor Units		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45	45	45
	Nom Water Flow		L/min	192+192+116+96	192+192+116+116	192+192+135+116	192+192+135+135	192+192+154+135
	Head Loss		kPa	30.1+30.1+21.8+15.8	30.1+30.1+21.8+21.8	30.1+30.1+28.6+21.8	30.1+30.1+28.6+28.6	30.1+30.1+19.4+28.6
Water Connection pipe	Inlet		mm(inch)	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40
	Outlet		mm(inch)	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40
	Drain Outlet		mm	20	20	20	20	20

- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information on installation section.)

* () : Conditional application



HP				72	74	76	78	80
Model	Combination unit			ARWB720LAS4	ARWB740LAS4	ARWB760LAS4	ARWB780LAS4	ARWB800LAS4
	Independent unit			ARWB140LAS4	ARWB140LAS4	ARWB180LAS4	ARWB180LAS4	ARWB200LAS4
				ARWB180LAS4	ARWB200LAS4	ARWB180LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	201.6	207.2	212.8	218.4	224
	Heating	Nom	kW	226.8	233.1	239.4	245.7	252
Power Input	Cooling	Nom	kW	39.93	41.44	41.78	43.29	44.8
	Heating	Nom	kW	41.64	43.18	43.6	45.14	46.68
EER				5.05	5.00	5.09	5.05	5.00
COP				5.45	5.40	5.49	5.44	5.40
ESEER				7.03	7.01	7.05	7.03	7.01
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			4	4	4	4	4
Sound Pressure (Cooling)		Nom	dBA	61	61	58	58	57
Sound Pressure (Heating)		Nom	dBA	63	63	63	63	63
Sound Power (Cooling)		Nom	dBA	75	75	72	72	71
Sound Power (Heating)		Nom	dBA	77	77	77	77	77
Dimensions		WxHxD	mm	(755×997×500)×4	(755×997×500)×4	(755×997×500)×4	(755×997×500)×4	(755×997×500)×4
Net Weight			kg	(140×3)×(127×1)	(140×3)×(127×1)	140×4	140×4	140×4
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		kg	30+30+30+58	30+30+30+58	30+30+30+30	30+30+30+30	30+30+30+30
	Control			EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type			FVC73D(PVE)	FVC74D(PVE)	FVC75D(PVE)	FVC76D(PVE)	FVC77D(PVE)
	Control		cc	1,400+1,400+1,400+1,200	1,400+1,400+1,400+1,200	1,400+1,400+1,400+1,400	1,400+1,400+1,400+1,400	1,400+1,400+1,400+1,400
Power Supply			ø/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Transmission Cable (VCTF-SB)			No. x mm²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Piping Length	Total	Max	m	300(500)	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max	m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max	m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max	m	50	50	50	50	50
	IDU-IDU	Max	m	40	40	40	40	40
Piping Connection	Liquid		mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas		mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
	High Pressure Gas		mm(inch)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)
Number of Outdoor Units				4	4	4	4	4
Number of Connectable Indoor Units		Max		64	64	64	64	64
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45	45	45	45
	Nom Water Flow		L/min	192+192+173+135	192+192+192+135	192+192+173+173	192+192+192+173	192+192+192+192
	Head Loss		kPa	30.1+30.1+24.0+28.6	30.1+30.1+30.1+28.6	30.1+30.1+24.0+24.0	30.1+30.1+30.1+24.0	30.1+30.1+30.1+30.1
Water Connection pipe	Inlet		mm(inch)	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40
	Outlet		mm(inch)	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40	PT 40+PT 40+PT 40+PT 40
	Drain Outlet		mm	20	20	20	20	20

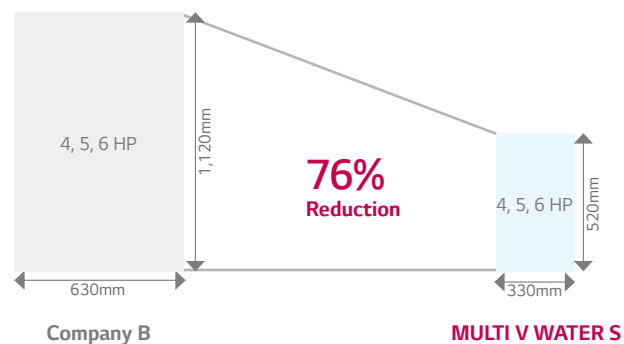
- Note :**
- Capacities and Inputs are based on the following conditions
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
 - Capacities are net capacities
 - Due to our policy of innovation some specifications may be changed without notification
 - EEV : Electronic Expansion Valve
 - Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information on installation section.)

* () : Conditional application

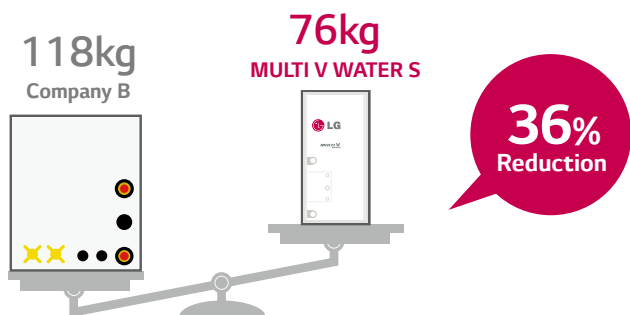
Compact Size

Out door unit can be placed inside a closet, no need for roof or outside space. It can be applicable for small space application such as shops in city centers and malls.

Foot print area

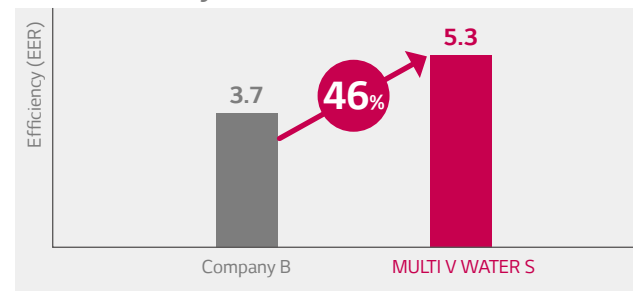


Weight



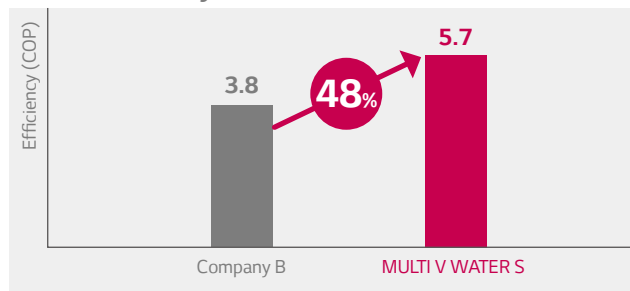
World's First Class Cooling and Heating Efficiency

Rated Efficiency



* Comparison between 4HP model, based on internal test data

Rated Efficiency

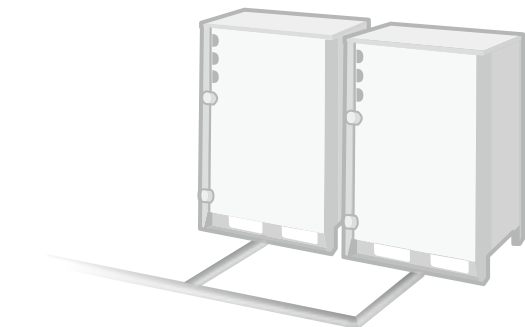


* Comparison between 4HP model, based on internal test data

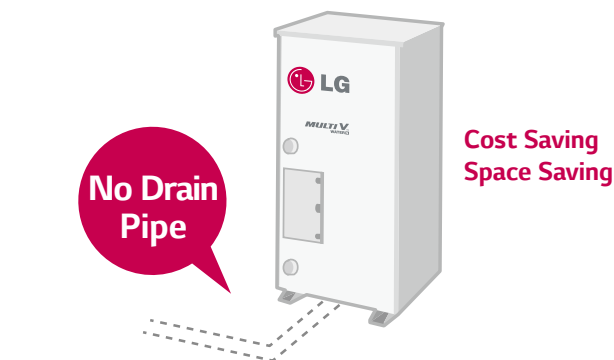
Convenient Installation

Absence of drain pipe makes installation easier.

Conventional



MULTI V WATER S



HP				4	5	6
Model	Combination unit			ARWN40GA0	ARWN50GA0	ARWN60GA0
Capacity	Cooling	Nom	kW	11.2	14	15.5
	Heating	Nom	kW	12.5	16	18
Power Input	Cooling	Nom	kW	2.10	2.70	3.20
	Heating	Nom	kW	2.20	2.90	3.50
EER				5.33	5.19	4.84
COP				5.68	5.52	5.14
Operation Range	Cooling	Min-Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Number of Compressor			1	1	1
Sound Pressure		Max	dBA	48	49	50
Sound Power		Max	dBA	59	60	61
Dimensions			WxHxD mm	520 x 1,080 x 330	520 x 1,080 x 330	520 x 1,080 x 330
Net Weight			kg	76	76	76
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	1.0	1.0	1.0
	Control			EEV	EEV	EEV
Refrigerant Oil	Type			FVC68D	FVC68D	FVC68D
	Control		cc	1,300	1,300	1,300
Power Supply			ø/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 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
Piping Length	Total	Max	m	145	145	145
	Actual Longest Piping Length *	Max	m	90	90	90
	After 1st Y branch **	Max	m	40	40	40
Piping Level Difference	IDU-ODU	Max	m	30	30	30
	IDU-IDU	Max	m	15	15	15
Piping Connection	Liquid		mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas		mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
Number of Outdoor Units				1	1	1
Number of Connectable Indoor Units		Max		6	8	9
Ratio of the Connectable Indoor Units		Min-Max		50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat exchanger	Type			Cupro brazed Stainless Steel Plate	Cupro brazed Stainless Steel Plate	Cupro brazed Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	4,413	4,413	4,413
	Nom Water Flow		L/min	40	50	60
	Head Loss		kPa	14.0	20.7	28.4
Water Connection pipe	Inlet		mm(inch)	PT32(1-1/4)	PT32(1-1/4)	PT32(1-1/4)
	Outlet		mm(inch)	PT32(1-1/4)	PT32(1-1/4)	PT32(1-1/4)
	Drain Outlet		mm(inch)	-	-	-

Note :

- Capacities are based on the following conditions:
 - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB / Water 30°C(86°F)
 - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Water 20°C(68°F)
 - Piping Length : Interconnected Pipe Length = 7.5m
 - Difference Limit of Elevation (Outside ~ Indoor Unit) is Zero.
- Wiring cable size must comply with the applicable local and national codes.
- Due to our policy of innovation some specifications may be changed without notification.
- Sound Level Values are measured at Anechoic chamber.
 - Therefore, these values can be increased owing to ambient conditions during operation.

* Power input values are based on only outside unit.



INDOOR UNITS

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

092 ARTCOOL

093 Wall Mounted

095 Console

096 Ceiling Cassette

098 Ceiling Concealed Duct

100 Ceiling & Floor
Ceiling Suspended

101 Floor Standing

ARTCOOL

Aesthetic Design

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

How to Change the Picture



Panel Type



Silver
07/09/12GSFV2



Gold
07/09/12GSFG2



Red
07/09/12GSFE2



White silver
07/09/12GSFH2

ARTCOOL Mirror



Mirror
07/09/12/15GSR2 18/24GS8R2

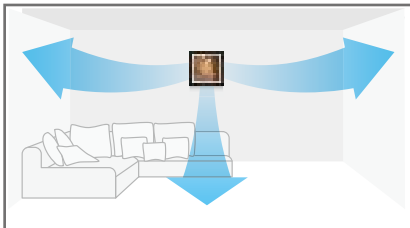


Silver
07/09/12/15GSEV2 18/24GS8V2

Digital Air Flow Control

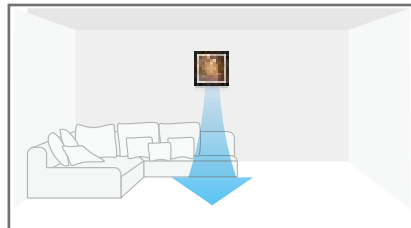
The air flow can be controlled to ensure maximum comfort and convenience.

Normal



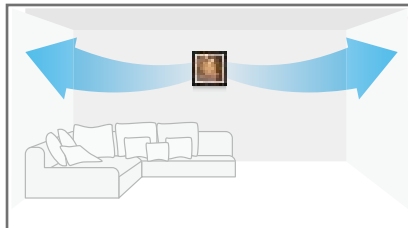
Fast, wide and even

Jet cool



Speedy and powerful

Sleep mode

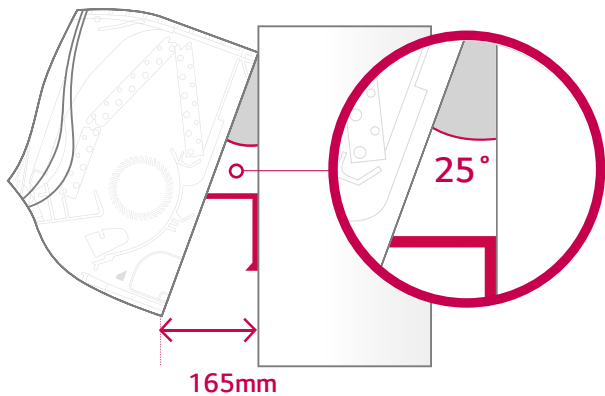


Indirect and discreet

WALL MOUNTED

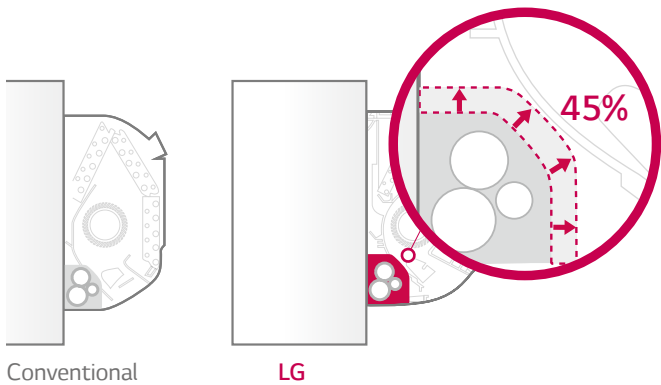
Installation Support Clip

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



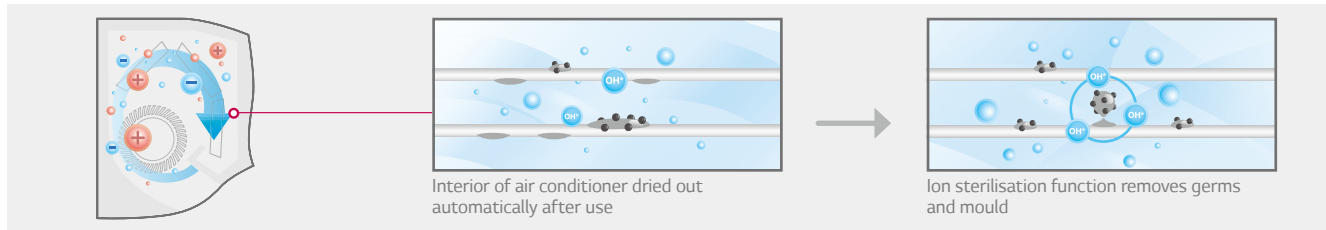
Wider Tubing Space

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



Auto Cleaning

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



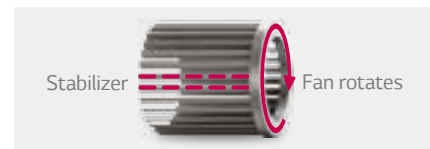
WALL MOUNTED

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 indoor units have reduced vibration and noise thanks to a super quiet fan and motor.

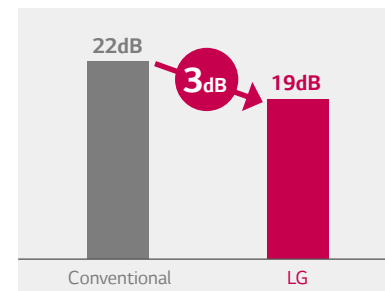
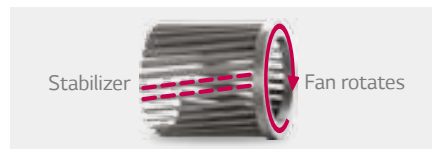
Conventional

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



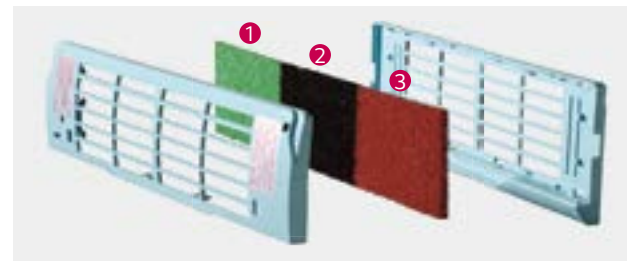
Skew Fan

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



Deodorising (Triple Filter)

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

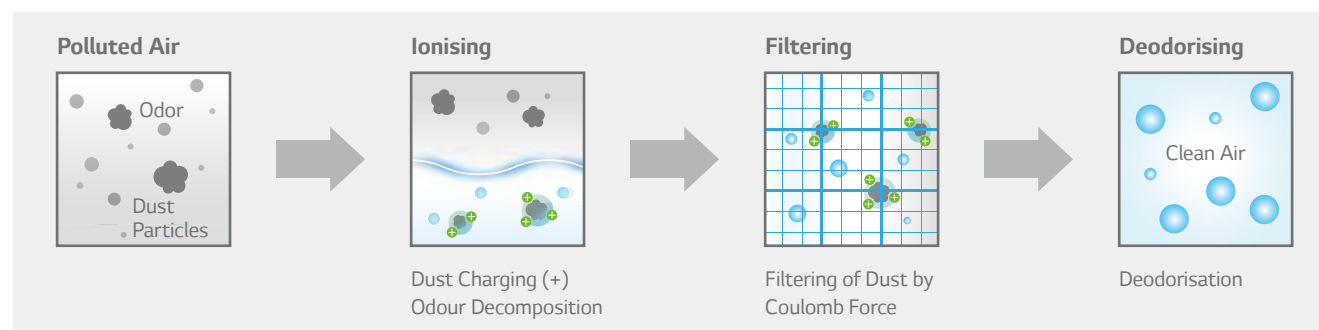


- Red filter removes smells such as smoke and food smells.
- Black filter removes the odour of new buildings such as formaldehyde.
- Blue filter removes the chemical smells such as the smell of fresh paint.

- ❶ 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)
- ❷ Formaldehyde filter removes formaldehyde, a leading cause of sick building syndrome, and can prevent dermatitis, vomiting, and pneumonia
- ❸ Common odour filter removes ordinary odours that can cause migraines and chronic fatigue syndrome

Eliminating (Plasma Filter)

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

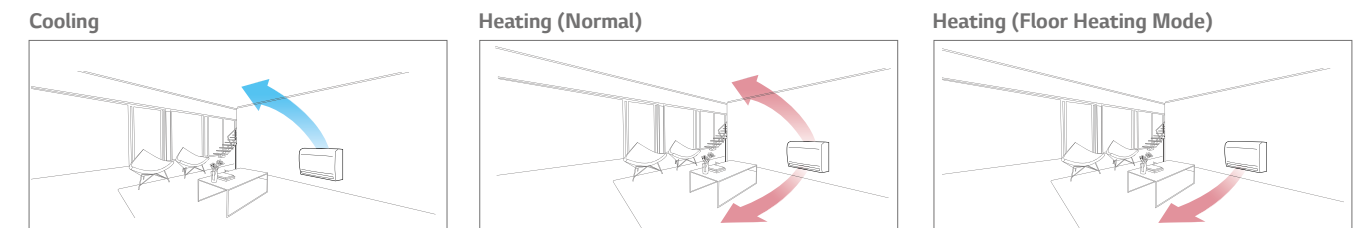


CONSOLE

Optimised Air Flow for Cooling & Heating

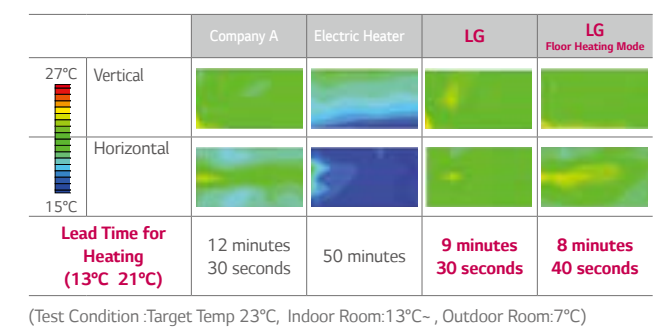
During the cooling operation, the vane adjusts upwards to direct the air flow towards the ceiling.

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



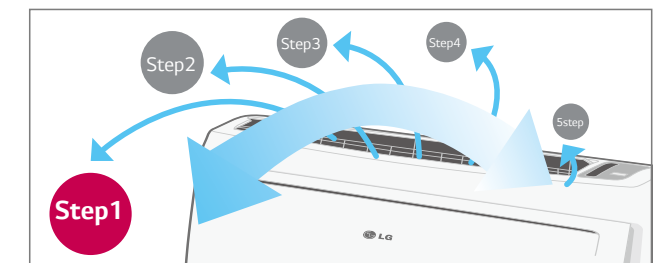
Quick Floor Heating

Console air conditioners offer a fast and powerful performance. Using the floor heating mode, console air conditioners provide faster floor heating and help to reach the desired temperature quickly.

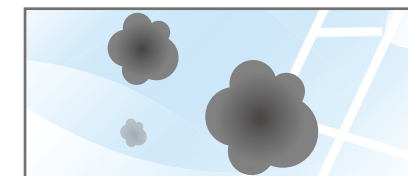


5-Step Vane Control

There are 5 different stages to control air flow direction.



Healthier Air (3 Stage Air Filter System)



1st Advanced pre filter :

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



2nd Allergy Filter :

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



3rd Plasma Ion Generator :

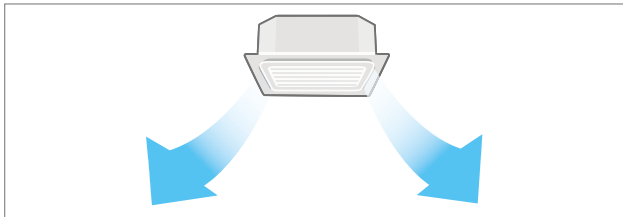
The sterilised ion generator emits around 1.2 million ions, and traps some of the airborne hazardous substances.

CEILING CASSETTE

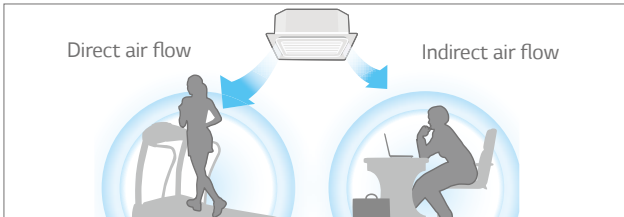
Independent Vane Control

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

All vane operation



Independent Vane Control

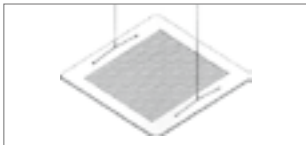


Auto Elevation Grille

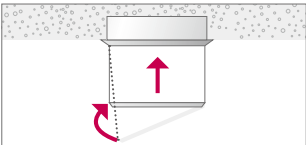
Easy filter cleaning with elevation grill.



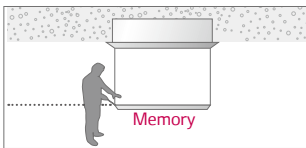
4-Point Support Structure



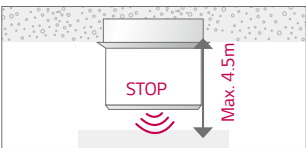
Auto Leveling



Memory for User's Level



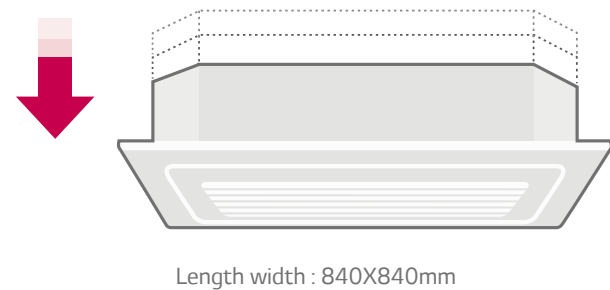
Auto Stop Detection



*Except ARNU05GTRC2, ARNU07GTRC2, ARNU09GTRC2, ARNU12GTRC2, ARNU15GTQC2, ARNU18GTQC2
*Operating with wired remote controller PQRCVSL0(QW) and wireless remote controller included in PTEGM0.

Compact Size

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



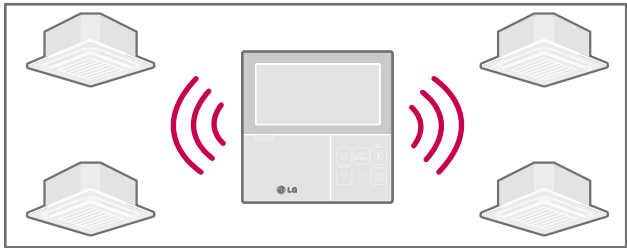
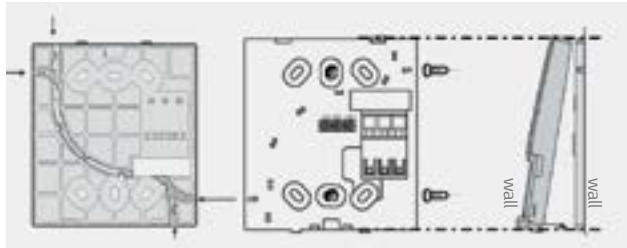
Standard Inverter	Height
7.1-8.0 kW	204mm
10.0 kW	246mm
12.5-15 kW	288mm

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

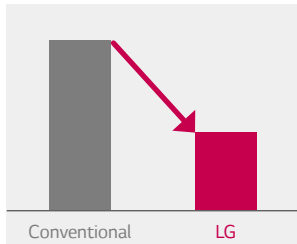
Easy & solid attachment to the wall



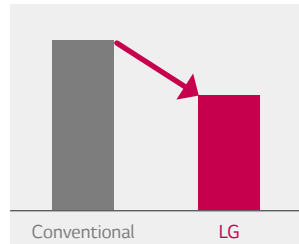
Swirl Swing

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

Comparison of temperatures

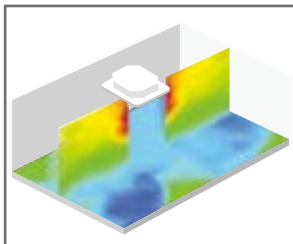


Vertical temperature differences

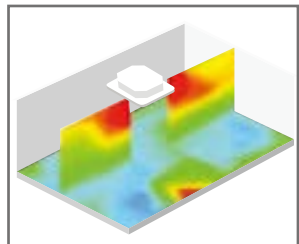


Horizontal temperature differences

Normal air flow



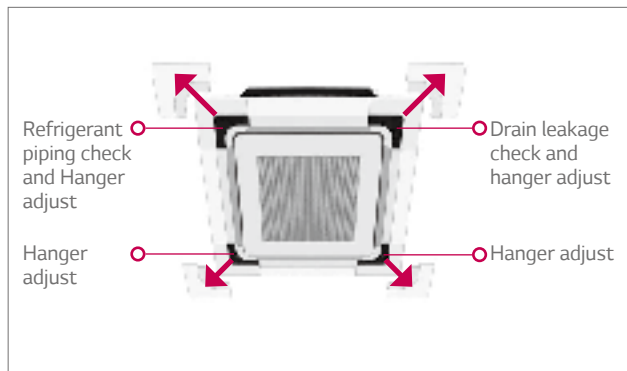
Swirl swing (pleasant air)



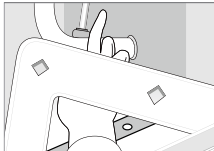
Convenient Panel Installation

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

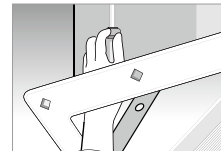
Detachable Corner Design



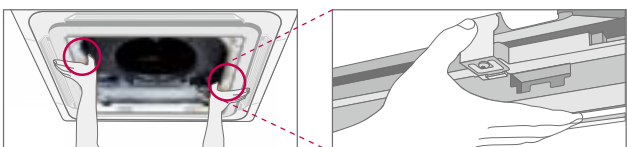
Drain leakage check



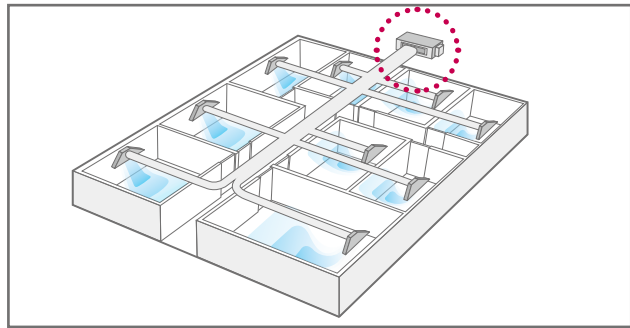
Hanger adjust



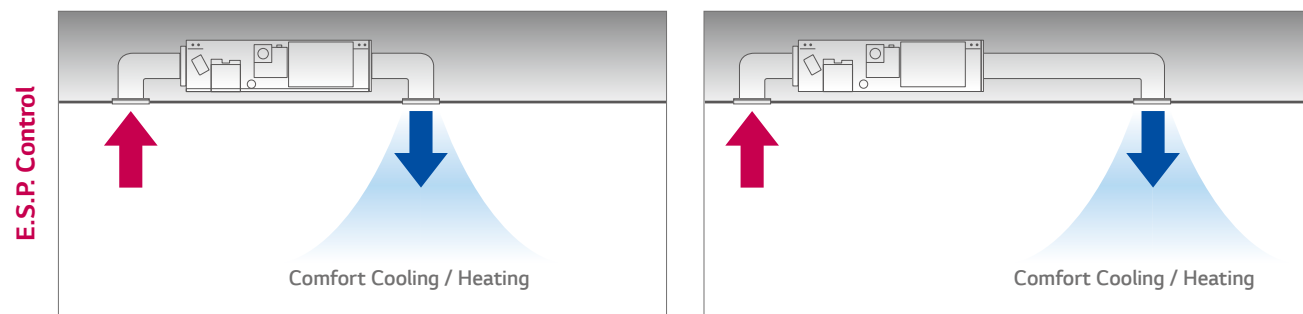
It is easy to install the panel to the body, using the button type panel design.



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

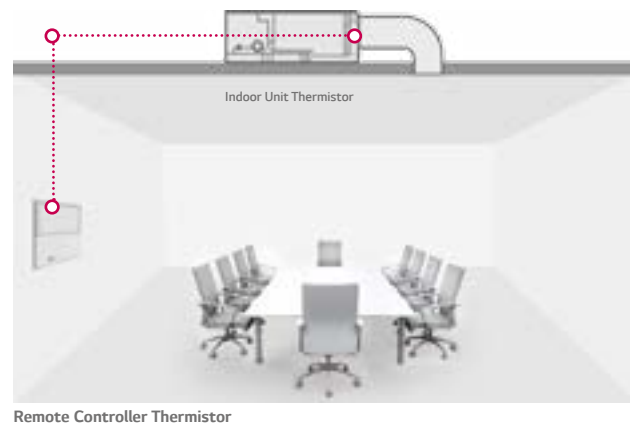


E.S.P. control function can make air volume controlled easily with remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.

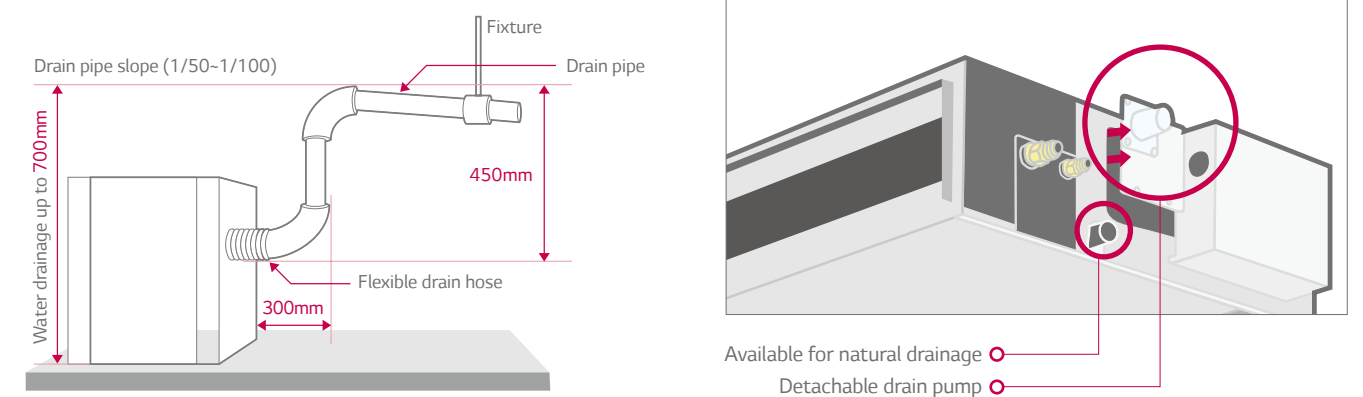


The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.

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

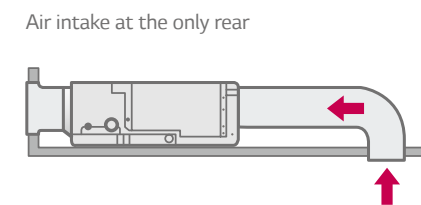


High head drain pump automatically drains water up to 700mm of drain-head height. It provides perfect solution for water drainage.

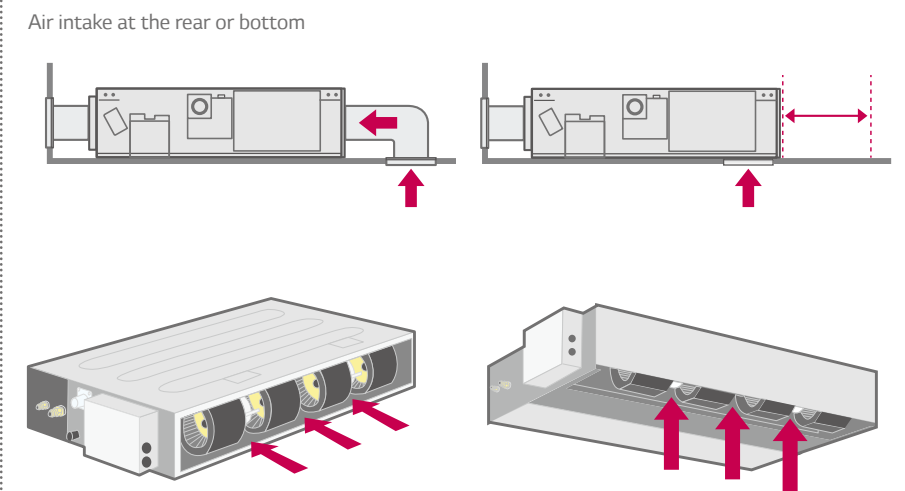


The new low static duct allows the air intake at the rear or bottom under installation condition.

Conventional



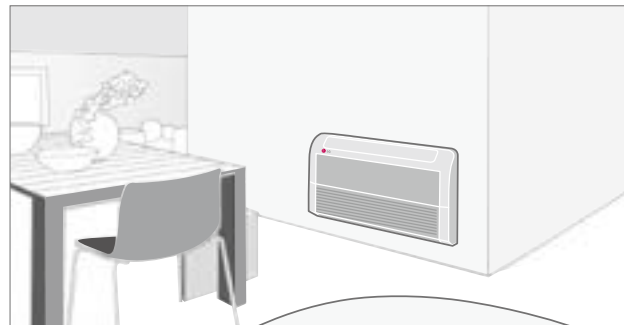
New Low Static Duct



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 the shops or offices.



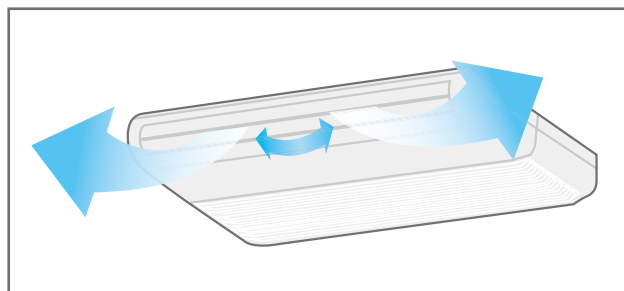
* Ceiling & Floor : ARNU09GVEA2, ARNU12GVEA2



Airflow Direction Control

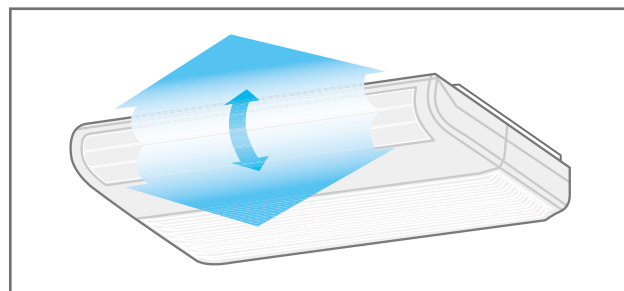
Horizontal Airflow Direction Control

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



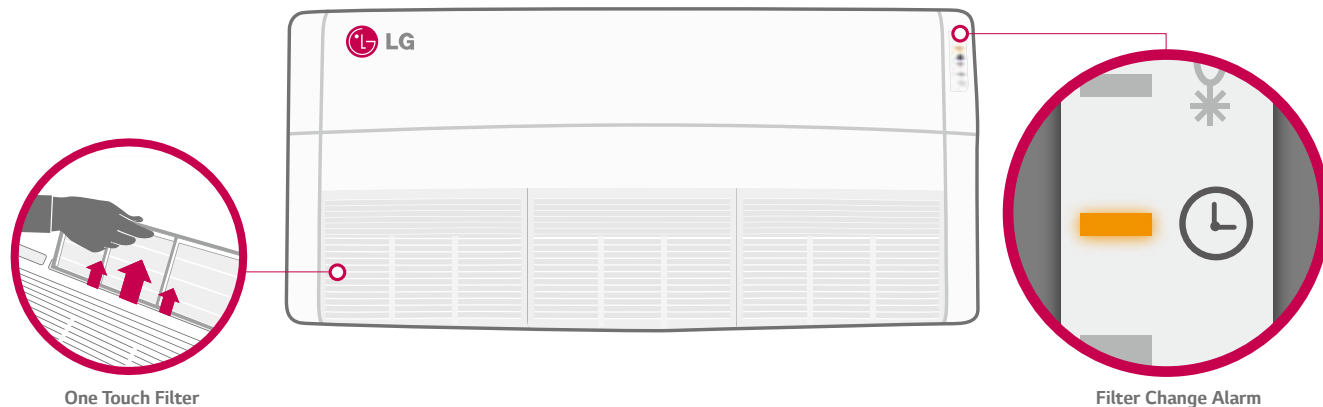
Vertical Airflow Direction Control

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



Filter Change Alarm

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

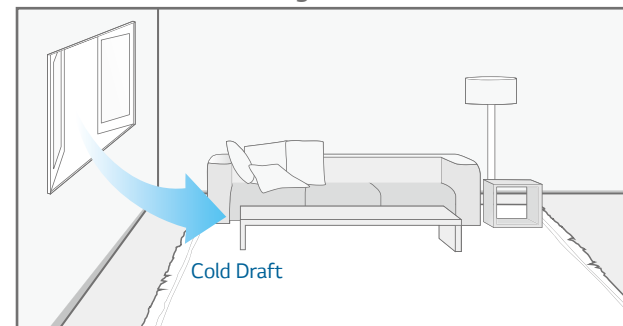


FLOOR STANDING

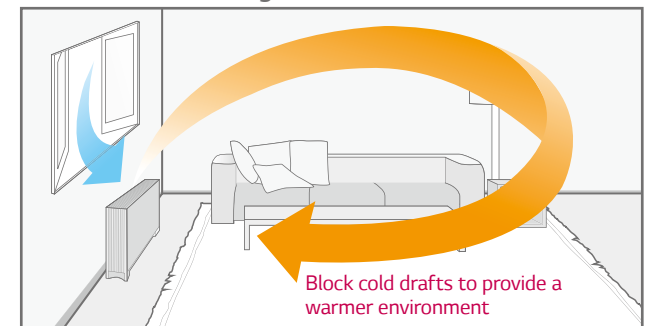
Block Cold Draft

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

Without Floor Standing

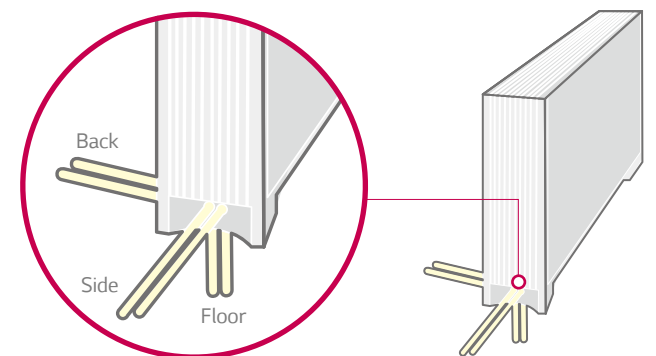


With Floor Standing



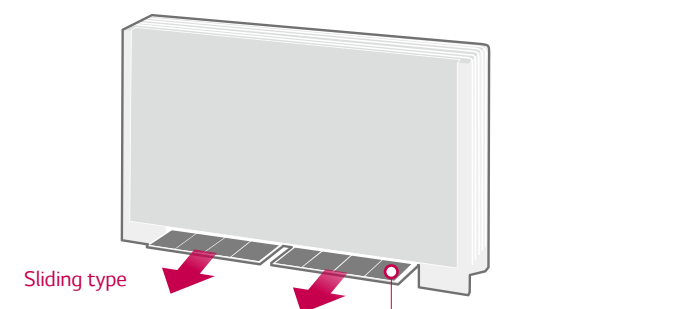
3 way Flexible Installation

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

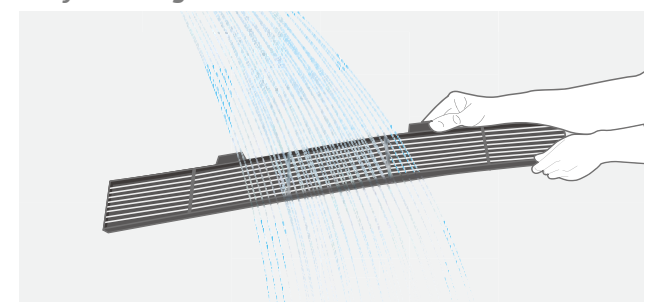


Sliding Type Filter

Easy maintenance and extended product life with sliding type filter



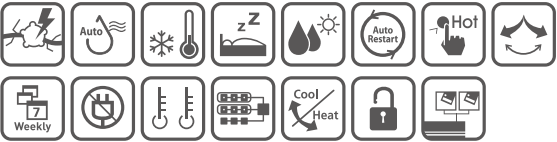
Easy cleaning





Wall Mounted

ARNU05G**SBL2** ARNU07G**SBL2** ARNU09G**SBL2**
ARNU12G**SBL2** ARNU15G**SBL2** ARNU18G**SCL2** ARNU24G**SCL2**



Model				ARNU05G SBL2	ARNU07G SBL2	ARNU09G SBL2	ARNU12G SBL2	ARNU15G SBL2	ARNU18G SCL2	ARNU24G SCL2
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	21.0	21.0	21.0	21.0	21.0	39.5	39.5
	Heating	Nom	W	21.0	21.0	21.0	21.0	21.0	39.5	39.5
Power Supply				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	Cooling	H/M/L	m³/min	6.5/6.0/5.5	7.0/6.5/5.5	8.2/7.0/5.5	9.5/8.2/6.5	10.5/9.0/7.0	12.5/12.0/11.3	14.0/12.7/11.5
	Heating	H/M/L	m³/min	6.5/6.0/5.5	7.0/6.5/5.5	8.2/7.0/5.5	9.5/8.2/6.5	10.5/9.0/7.0	12.5/12.0/11.3	14.0/12.7/11.5
Sound Pressure		H/M/L	dBA	30/29/28	32/30/28	34/32/28	37/34/30	40/36/32	38/35/33	43/39/35
Dimensions	Body	WxHxD	mm	895x289x215	895x289x215	895x289x215	895x289x215	895x289x215	1030x325x255	1030x325x255
Net Weight			kg(lbs)	10.0 (22.0)	10.0 (22.0)	10.0 (22.0)	10.0 (22.0)	10.0 (22.0)	14.0 (30.9)	14.0 (30.9)
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)	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)	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)	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
- Console
- ARNU07G**QAA2** ARNU09G**QAA2**
ARNU12G**QAA2** ARNU15G**QAA2**
-
-
- | Model | | | | ARNU07G QAA2 | ARNU09G QAA2 | ARNU12G QAA2 | ARNU15G QAA2 |
|------------------------|---------|-------|----------|---------------------|---------------------|---------------------|---------------------|
| Capacity | Cooling | Nom | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| | Heating | Nom | kW | 2.5 | 3.2 | 4.0 | 5.0 |
| Power Input | Cooling | Nom | W | 30 | 30 | 30 | 30 |
| | Heating | Nom | W | 30 | 30 | 30 | 30 |
| Power Supply | | | | ø/V/Hz | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 |
| Airflow Rate | Cooling | H/M/L | m³/min | 6.7 / 5.9 / 4.8 | 6.7 / 5.9 / 4.8 | 7.5 / 5.9 / 4.8 | 8.7 / 6.7 / 5.9 |
| | Heating | H/M/L | m³/min | 6.7 / 5.9 / 4.8 | 6.7 / 5.9 / 4.8 | 7.5 / 5.9 / 4.8 | 8.7 / 6.7 / 5.9 |
| Sound Pressure | | H/M/L | dBA | 37 / 34 / 28 | 37 / 34 / 28 | 39 / 34 / 28 | 42 / 37 / 31 |
| Dimensions | Body | WxHxD | mm | 700 x 600 x 210 | 700 x 600 x 210 | 700 x 600 x 210 | 700 x 600 x 210 |
| Net Weight | | | kg(lbs) | 14.0(30.9) | 14.0(30.9) | 14.0(30.9) | 14.0(30.9) |
| Piping Connec-
tion | 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) | 12.2(15/32) | 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		ARNU07G SBL2	ARNU09G SBL2	ARNU12G SBL2	ARNU15G SBL2	ARNU18G SCL2	ARNU24G SCL2
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	Standard Type	Simple Type	Simple Type for Hotel	
				
PQRCUDS0	PQRCVSLOQW	PQRCVLOQ (Black) PQRCVLOQW (white)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

Accessories

Model		ARNU07G QAA2	ARNU09G QAA2	ARNU12G QAA2	ARNU15G QAA2
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	Standard Type	Simple Type	Simple Type for Hotel	
					
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSLO	PQRCVSLOQW	PQRCVLOQ (Black) PQRCVLOQW (white)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

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INDOOR UNITS

4 Way Cassette (570×570)

ARNU05GTRC2 ARNU07GTRC2 ARNU09GTRC2
ARNU12GTRC2 ARNU15GTQC2 ARNU18GTQC2



Model				ARNU05GTRC2	ARNU07GTRC2	ARNU09GTRC2	ARNU12GTRC2	ARNU15GTQC2	ARNU18GTQC2
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5	5.6
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0	6.3
Power Input	Cooling	Nom	W	30	30	30	30	30	30
	Heating	Nom	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
Airflow Rate	Cooling	H/M/L	m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0
	Heating	H/M/L	m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0
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 570 x 214	570 x 570 x 214	570 x 570 x 214	570 x 570 x 214	570 x 570 x 256	570 x 570 x 256
Net Weight				kg(lbs)	13.1(28.9)	13.1(28.9)	14.2(31.3)	14.2(31.3)	15.5(34.2)
Piping Connection	Neoplasma Purifying Filter			PTPKQ0	PTPKQ0	PTPKQ0	PTPKQ0	PTPKQ0	PTPKQ0
	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	WxDxH	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 Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m Interconnecting piping length 7.5m
Level difference of zero Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

Accessories

Model		ARNU05GTRC2	ARNU07GTRC2	ARNU09GTRC2	ARNU12GTRC2	ARNU15GTQC2	ARNU18GTQC2
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	Standard Type	Simple Type	Simple Type for Hotel	
 PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	 PQRCVSL0	 PQRCVSL0QW	 PQRCVCL0Q (Black) PQRCVCL0QW (white)	 PQRCVCL0QW (white) PQRCVCL0QW (White)	 PQWRHQ0FDB

4 Way Cassette (840×840)

ARNU24GTPC2 ARNU28GTPC2
ARNU36GTNC2 ARNU42GTMC2 ARNU48GTMC2



Model				ARNU24GTPC2	ARNU28GTPC2	ARNU36GTNC2	ARNU42GTMC2	ARNU48GTMC2
Capacity	Cooling	Nom	kW	7.1	8.2	10.6	12.3	14.1
	Heating	Nom	kW	8.0	9.2	11.9	13.8	15.9
Power Input	Cooling	Nom	W	33	33	144	144	144
	Heating	Nom	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
Airflow Rate	Cooling	H/M/L	m³/min	17 / 15 / 13	19 / 16 / 14	25 / 21 / 19	30 / 27 / 24	31 / 29 / 27
	Heating	H/M/L	m³/min	17 / 15 / 13	19 / 16 / 14	25 / 21 / 19	30 / 27 / 24	31 / 29 / 27
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 840 x 204	840 x 840 x 204	840 x 840 x 246	840 x 840 x 288	840 x 840 x 288
Net Weight				kg(lbs)	20.8(45.8)	20.8(45.8)	23.5(51.8)	25.6(56.4)
Piping Connection	Neoplasma Purifying Filter			PTPKM0	PTPKM0	PTPKM0	PTPKM0	PTPKM0
	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	WxDxH	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 Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
Interconnecting piping length 7.5m Interconnecting piping length 7.5m
Level difference of zero Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification

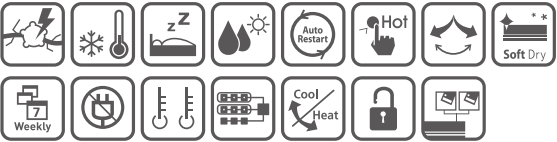
Accessories

Model		ARNU24GTPC2	ARNU28GTPC2	ARNU36GTNC2	ARNU42GTMC2	ARNU48GTMC2
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		PTEGMO				
Ventilation Kit		PTVK410 / PTVK420 / PTVK 430				

Wired Remote Controller					Wireless Remote Controller
Deluxe Type	Standard Type	Standard Type	Simple Type	Simple Type for Hotel	
 PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	 PQRCVSL0	 PQRCVSL0QW	 PQRCVCL0Q (Black) PQRCVCL0QW (white)	 PQRCVCL0QW (white) PQRCVCL0QW (White)	 PQWRHQ0FDB

2 Way Cassette

ARNU18GTLC2 ARNU24GTLC2



Model				ARNU18GTLC2	ARNU24GTLC2
Capacity	Cooling	Nom	kW	5.6	7.1
	Heating	Nom	kW	6.3	8.0
Power Input	Cooling	Nom	W	70	70
	Heating	Nom	W	70	70
Power Supply		ø/V/Hz		1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate	Cooling	H/M/L	m³/min	13 / 12 / 10	17 / 15 / 13
	Heating	H/M/L	m³/min	13 / 12 / 10	17 / 15 / 13
Sound Pressure	H/M/L	H/M/L	dBA	40 / 36 / 32	42 / 38 / 34
Dimensions	Body	WxHxD	mm	830 x 550 x 225	830 x 550 x 225
	Net Weight			kg(lbs)	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	WxDxH	mm	1,050 x 28 x 640	1,050 x 28 x 640
	Weight			kg	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

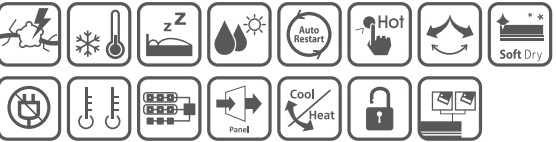
Accessories

Model		ARNU18GTLC2	ARNU24GTLC2
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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSL0	PQRCVSL0QW	PQRCVCL0Q (Black) PQRCVCL0QW (white)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

1 Way Cassette

ARNU07GTUC2 ARNU09GTUC2
ARNU12GTUC2 ARNU18GTTC2 ARNU24GTTC2



Model				ARNU07GTUC2	ARNU09GTUC2	ARNU12GTUC2	ARNU18GTTC2	ARNU24GTTC2
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	6.3	7.1
Power Input	Cooling	Nom	W	40	40	40	70	70
	Heating	Nom	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	Cooling	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
	Heating	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
Sound Pressure	H/M/L	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 450 x 132	860 x 450 x 132	860 x 450 x 132	1,180 x 450 x 132	1,180 x 450 x 132
	Net Weight			kg(lbs)	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	WxDxH	mm	1,100 x 34 x 500	1,100 x 34 x 500	1,100 x 34 x 500	1,420 x 34 x 500	1,420 x 34 x 500
	Weight			kg	4.6	4.6	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

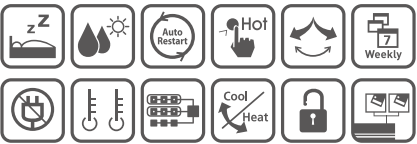
Accessories

Model		ARNU07GTUC2	ARNU09GTUC2	ARNU12GTUC2	ARNU18GTTC2	ARNU24GTTC2
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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSL0	PQRCVSL0QW	PQRCVCL0Q (Black) PQRCVCL0QW (white)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

Low Static Duct

ARNU05GL1G2 ARNU07GL1G2 ARNU09GL1G2



Model				ARNU05GL1G2	ARNU07GL1G2	ARNU09GL1G2
Capacity	Cooling	Nom	kW	1.7	2.2	2.8
	Heating	Nom	kW	1.9	2.5	3.2
Power Input	Cooling	Nom	W	40	40	40
	Heating	Nom	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)	Cooling	H/M/L	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	Heating	H/M/L	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
External Static Pressure	High Mode - Factory Set		mmAq(Pa)	2.54(25)	2.54(25)	2.54(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

3. L1 : The Sound Pressure test condition is based on 20 Pa (Static Pressue) as standard.

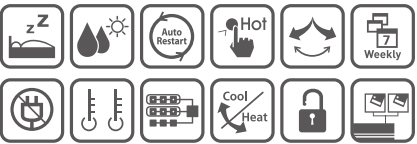
Accessories

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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSL0	PQRCVSL0QW	PQRCVCL0Q (Black) PQRCVCL0QW (white)	PQRCCHA0Q(Black) PQRCCHA0QW(White)	PQWRHQ0FDB

Low Static Duct

ARNU12GL2G2 ARNU15GL2G2
ARNU18GL2G2 ARNU21GL3G2 ARNU24GL3G2



Model				ARNU12GL2G2	ARNU15GL2G2	ARNU18GL2G2	ARNU21GL3G2	ARNU24GL3G2
Capacity	Cooling	Nom	kW	3.6	4.5	5.6	6.2	7.1
	Heating	Nom	kW	4.0	5.0	6.3	7.0	8.0
Power Input	Cooling	Nom	W	85	85	85	115	115
	Heating	Nom	W	85	85	85	115	115
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 (High mode)	Cooling	H/M/L	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	Heating	H/M/L	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
External Static Pressure	High Mode - Factory Set		mmAq(Pa)	2.54(25)	2.54(25)	2.54(25)	2.54(25)	2.54(25)
Sound Pressure	H/M/L		dBA	30 / 27 / 25	33 / 30 / 28	35 / 32 / 29	35 / 29 / 28	36 / 33 / 28
Dimensions	Body	WxHxD		900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700	1,100 x 190 x 700
Net Weight			kg(lbs)	23(50.7)	23(50.7)	23(50.7)	27(59.5)	27(59.5)
Piping Connection	Liquid	mm(inch)		6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)	9.52(3/8)
	Gas	mm(inch)		12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)
	Drain	I.D.	mm(inch)	25.4(1)	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	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

3. L2, L3 : The Sound Pressure test condition is based on 20 Pa (Static Pressue) as standard.

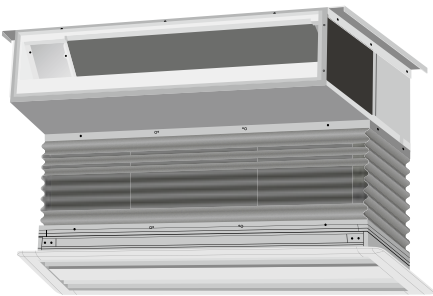
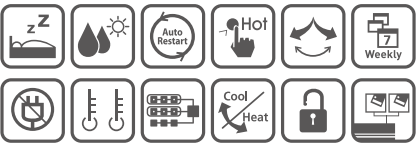
Accessories

Model		ARNU12GL2G2	ARNU15GL2G2	ARNU18GL2G2	ARNU21GL3G2	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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSL0	PQRCVSL0QW	PQRCVCL0Q (Black) PQRCVCL0QW (white)	PQRCCHA0Q(Black) PQRCCHA0QW(White)	PQWRHQ0FDB

Built-in Duct

ARNU07GB3G2 ARNU09GB3G2 ARNU12GB3G2 ARNU15GB3G2



Model				ARNU07GB3G2	ARNU09GB3G2	ARNU012GB3G2	ARNU15GB3G2
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5
	Heating	Nom	kW	2.5	3.2	4.0	5.0
Power Input	Cooling	Nom	W	30	30	30	30
	Heating	Nom	W	30	30	30	30
Power Supply				ø/V/Hz	1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate	Cooling	H/M/L	m³/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0
	Heating	H/M/L	m³/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0
External Static Pressure	High Mode - Factory Set		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
	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
Dimensions	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)
	Liquid	mm(inch)		6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Piping Connection	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

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

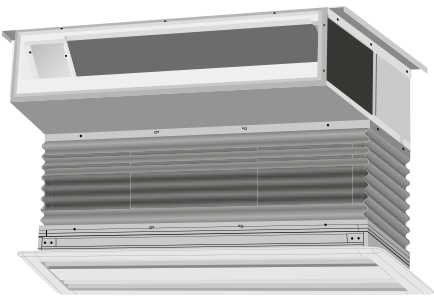
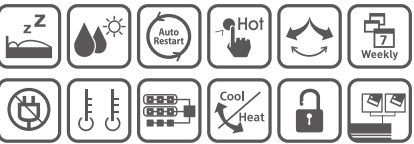
Accessories

Model		ARNU07GB3G2	ARNU09GB3G2	ARNU012GB3G2	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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSLO	PQRCVSLQW	PQRCVCL0Q (Black) PQRCVCLQW (white)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

Built-in Duct

ARNU18GB4G2 ARNU24GB4G2



Model				ARNU18GB4G2	ARNU24GB4G2
Capacity	Cooling	Nom	kW	5.6	7.1
	Heating	Nom	kW	6.3	8.0
Power Input	Cooling	Nom	W	80	80
	Heating	Nom	W	80	80
Power Supply				ø/V/Hz	1 / 220 ~240 / 50
Airflow Rate	Cooling	H/M/L	m³/min	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
	Heating	H/M/L	m³/min	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
External Static Pressure	High Mode - Factory Set		mmAq(Pa)	2(20)	2(20)
Sound Pressure	H/M/L		dBA	43 / 40 / 37	46 / 43 / 37
	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
Dimensions	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)
	Liquid	mm(inch)		6.35(1/4)	9.52(3/8)
Piping Connection	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

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

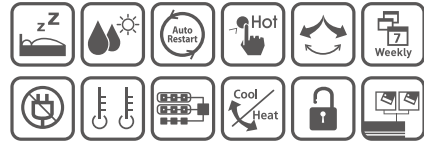
Accessories

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		PBSGB30	
Suction Canvas		PBSC30	

Wired Remote Controller					Wireless Remote Controller
Deluxe Type	Standard Type	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSLO	PQRCVSLQW	PQRCVCL0Q (Black) PQRCVCLQW (white)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

High Static Duct

ARNU07GBHA2 ARNU09GBHA2 ARNU12GBHA2
ARNU15GBHA2 ARNU18GBHA2 ARNU24GBHA2



Model				ARNU07GBHA2	ARNU09GBHA2	ARNU12GBHA2	ARNU15GBHA2	ARNU18GBHA2	ARNU24GBHA2
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	150	150	150	150	150	150
	Heating	Nom	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 (High mode)	Cooling	H/M/L	m³/min	8.5 / 7.5 / 6.0	10.0 / 8.5 / 7.5	12.0 / 10.0 / 8.5	13.5 / 12.0 / 8.5	15.5 / 13.5 / 12.4	18.3 / 16.9 / 15.5
	Heating	H/M/L	m³/min	8.5 / 7.5 / 6.0	10.0 / 8.5 / 7.5	12.0 / 10.0 / 8.5	13.5 / 12.0 / 8.5	15.5 / 13.5 / 12.4	18.3 / 16.9 / 15.5
External Static Pressure	High Mode - Factory Set		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	28 / 27 / 25	30 / 29 / 26	33 / 31 / 28
Dimensions	Body	WxHxD	mm	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450
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	118 x 1	118 x 1	118 x 1	118 x 1	118 x 1	118 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

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

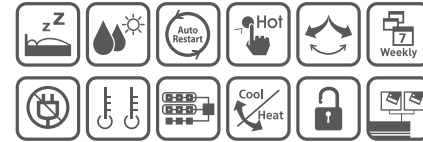
Accessories

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	Standard Type	Simple Type	Simple Type for Hotel	
 PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	 PQRCVSL0	 PQRCVSL0QW	 PQRCVCL0Q (Black) PQRCVCL0QW (white)	 PQRCCHA0Q(Black) PQRCCHA0QW(White)	 PQWRHQ0FDB

High Static Duct

ARNU28G**B**GA2 ARNU36G**B**GA2 ARNU42G**B**GA2
ARNU48G**B**RA2 ARNU54G**B**RA2 ARNU76G**B**8A2 ARNU96G**B**8A2



Model				ARNU28GBA2	ARNU36GBA2	ARNU42GBA2	ARNU48GBA2	ARNU54GBA2	ARNU76GBA2	ARNU96GBA2
Capacity	Cooling	Nom	kW	8.2	10.6	12.3	14.1	15.8	22.4	28.0
	Heating	Nom	kW	9.2	11.9	13.8	15.9	18.0	25.2	31.5
Power Input	Cooling	Nom	W	450	450	450	450	450	800	800
	Heating	Nom	W	450	450	450	450	450	800	800
Power Supply			øV/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	1 / 220 ~240 / 50
Airflow Rate (High mode)	Cooling	H/M/L	m³/min	25.9 / 24.1 / 21.8	32.3 / 29.0 / 25.3	34.5 / 32.3 / 30.7	44.8 / 40.6 / 33.3	51.0 / 44.8 / 40.6	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
	Heating	H/M/L	m³/min	25.9 / 24.1 / 21.8	32.3 / 29.0 / 25.3	34.5 / 32.3 / 30.7	44.8 / 40.6 / 33.3	51.0 / 44.8 / 40.6	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
External Static Pressure	High Mode - Factory Set		mmAq(Pa)	10(98)	10(98)	10(98)	14(137)	14(137)	22(216)	22(216)
Sound Pressure	H/M/L		dBA	29 / 25 / 23	33 / 31 / 28	36 / 33 / 30	38 / 36 / 34	39 / 37 / 35	45 / 41 / 40	47 / 42 / 41
Dimensions	Body	WxHxD	mm	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,230 x 380 x 590	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg(lbs)	38.0(83.8)	38(83.8)	38(83.8)	53(117)	53(117)	87(192)	87(192)
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)	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)	19.05(3/4)	22.2(7/8)
	Drain	I.D.	mm(inch)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)	25(31/32)
Fan motor output x Number			W	350 x 1	350 x 1	350 x 1	185 x 2	185 x 2	375 x 2	375 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
3. BG, BR: The Sound Pressure test condition is based on 50 Pa (Static Pressue) as standard.
4. B8: The Sound Pressure test condition is based on 220 Pa (High Static Pressue) as standard.

Accessories

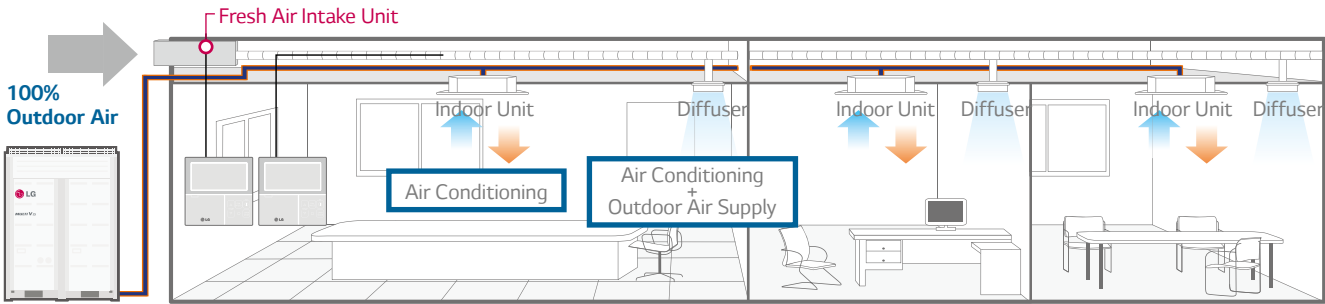
Model		ARNU28BGA2	ARNU36BGA2	ARNU42GBGA2	ARNU48GBRA2	ARNU54GBRA2	ARNU76GBB8A2	ARNU96GBB8A2
Dry Contact	Without Case (1 Contact Point)	PQDSA						
	With Case (1 Contact Point)	PQDSB / PQDSB1						
	With Case (2 Contact Point)	PQDSBC						

Wired Remote Controller					Wireless Remote Controller
Deluxe Type	Standard Type	Standard Type	Simple Type	Simple Type for Hotel	
 PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	 PQRCVSL0	 PQRCVSL0QW	 PQRCVCL0Q (Black) PQRCVCL0QW (white)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

FRESH AIR INTAKE UNIT

Fresh Outdoor Air Supply

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

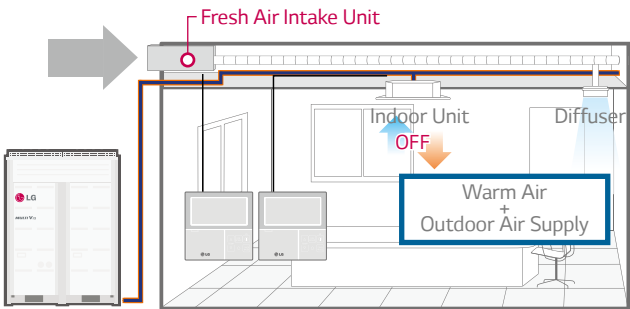


MULTI V IV Outdoor unit

Economic Operation

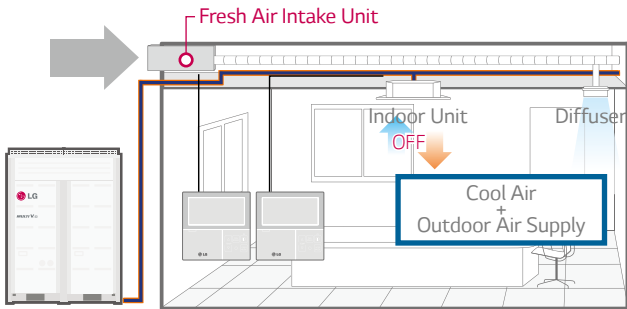
Using the free cooling and heating can save costs by blowing the natural outdoor air inside when the season changes.

Spring Season



MULTI V IV Outdoor unit

Autumn Season

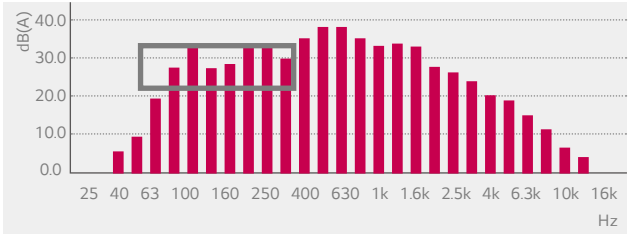


MULTI V IV Outdoor unit

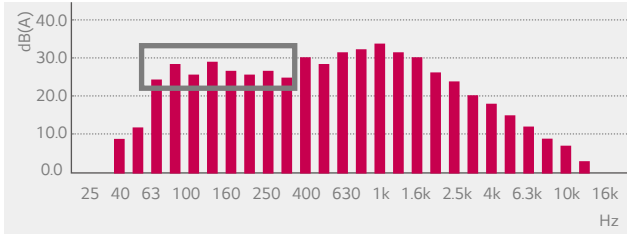
BLDC Fan Motor

It can reduce a noise at low frequencies.

AC Tap Motor



BLDC motor



Fresh Air Intake Unit

ARNU48GBRZ2 ARNU76GB8Z2 ARNU96GB8Z2



ARNU48GBRZ2



ARNU76GB8Z2



ARNU96GB8Z2

Model				ARNU48GBRZ2	ARNU76GB8Z2	ARNU96GB8Z2
Capacity	Cooling	Nom	kW	14.1	22.4	28.0
	Heating	Nom	kW	13.5	21.4	26.7
Power Input	Cooling	Nom	W	169	230	360
	Heating	Nom	W	169	230	360
Power Supply		ø/V/Hz		1 / 220 ~240 / 50	1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate	Cooling	H/M/L	m³/min	18.8 / 14.7 / 14.7	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
	Heating	H/M/L	m³/min	18.8 / 14.7 / 14.7	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
External Static Pressure	High Mode - Factory Set		mmAq(Pa)	18(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	WxDxH	mm	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg(lbs)	45(99)	73(161)	73(161)
	Liquid		mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Piping Connection	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

Note :

1. Capacities are based on the following conditions:

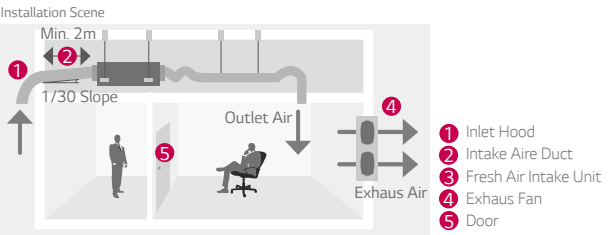
Cooling - Outdoor temp. 33°C(91.4°F)DB / 28°C(82.4°F)WB
IDU-ODU Piping Length : 7.5m
Level Difference of Zero

Heating - Outdoor temp. 0°C(32°F)DB / -2.9°C(26.78°F)WB
Interconnecting Piping Length : 7.5m
Level Difference of Zero

2. Capacities are net capacities

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

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



CAUTION

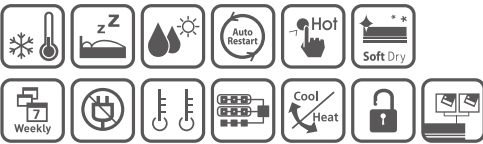
- Operation range (Cooling : 5°C ~ 43°C, Heating : -5°C ~ 43°C)
- Installation of exhaust fan is recommended for a sealed room.
- Indoor Unit Connection

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		Standard Type
PQRVSL0		PQRVSLQW

Ceiling & Floor

ARNU09GVEA2 ARNU12GVEA2



Model				ARNU09GVEA2	ARNU12GVEA2
Capacity	Cooling	Nom	kW	2.8	3.6
	Heating	Nom	kW	3.2	4.0
Power Input	Cooling	Nom	W	30	30
	Heating	Nom	W	30	30
Power Supply		ø/V/Hz		1 / 220 ~240 / 50	1 / 220 ~240 / 50
Airflow Rate	Cooling	H/M/L	m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
	Heating	H/M/L	m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
Sound Pressure		H/M/L	dBA	36 / 32 / 28	38 / 36 / 30
Dimensions	Body	WxDxH	mm	900 x 490 x 200	900 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)

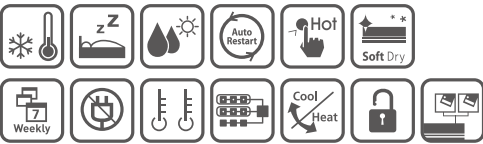
- Note :**
1. Capacities are based on the following conditions

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

Ceiling Suspended

URNU18GVJA2 URNU24GVJA2 URNU36GVKA2 URNU48GVLA2



Model				URNU18GVJA2	URNU24GVJA2	URNU36GVKA2	URNU48GVLA2
Capacity	Cooling	Nom	kW	5.6	7.1	10.6	14.1
	Heating	Nom	kW	6.3	8.0	11.9	15.9
Power Input	Cooling	Nom	W	63	63	140	190
	Heating	Nom	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	Cooling	H/M/L	m³/min	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0	24.6 / 23 / 21.4	35 / 32 / 30
	Heating	H/M/L	m³/min	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0	24.6 / 23 / 21.4	35 / 32 / 30
Sound Pressure		H/M/L	dBA	42 / 40 / 37	43 / 41 / 39	48 / 46 / 44	49 / 48 / 47
Dimensions	Body	WxDxH	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		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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSL0	PQRCVSL0QW	PQRCVCL0Q (Black) PQRCVCL0QW (white)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

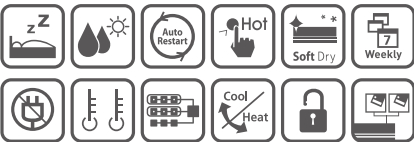
Accessories

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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSL0	PQRCVSL0QW	PQRCVCL0Q (Black) PQRCVCL0QW (white)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

Floor Standing with Case

ARNU07GCEA2 ARNU09GCEA2 ARNU12GCEA2
ARNU15GCEA2 ARNU18GCEA2 ARNU24GCEA2



Model				ARNU07GCEA2	ARNU09GCEA2	ARNU12GCEA2	ARNU15GCEA2	ARNU018GCEA2	ARNU024GCEA2
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	30	30	30	30	80	80
	Heating	Nom	W	30	30	30	30	80	80
Power Supply				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	Cooling	H/M/L	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Heating	H/M/L	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
Sound Pressure		H/M/L	dBA	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Dimensions	Body	WxDxH	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
- Floor Standing without Case
- ARNU07GCEU2 ARNU09GCEU2 ARNU12GCEU2
ARNU15GCEU2 ARNU18GCEU2 ARNU24GCEU2
-
-
- | Model | | | | ARNU07GCEU2 | ARNU09GCEU2 | ARNU12GCEU2 | ARNU15GCEU2 | ARNU18GCEU2 | ARNU24GCEU2 |
|-------------------|---------|-------|----------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Capacity | Cooling | Nom | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | Nom | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Power Input | Cooling | Nom | W | 30 | 30 | 30 | 30 | 80 | 80 |
| | Heating | Nom | W | 30 | 30 | 30 | 30 | 80 | 80 |
| Power Supply | | | | 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 | Cooling | H/M/L | m³/min | 8.5 / 7.5 / 6.5 | 9.5 / 8.5 / 7.5 | 10.5 / 9.5 / 8.5 | 11.5 / 10.0 / 9.5 | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 |
| | Heating | H/M/L | m³/min | 8.5 / 7.5 / 6.5 | 9.5 / 8.5 / 7.5 | 10.5 / 9.5 / 8.5 | 11.5 / 10.0 / 9.5 | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 |
| Sound Pressure | | H/M/L | dBA | 35 / 33 / 31 | 36 / 34 / 32 | 37 / 35 / 33 | 38 / 37 / 35 | 40 / 37 / 34 | 43 / 40 / 37 |
| Dimensions | Body | WxDxH | mm | 978 x 639 x 190 | 978 x 639 x 190 | 978 x 639 x 190 | 978 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) | 27(59.5) | 27(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		ARNU07GCEA2	ARNU09GCEA2	ARNU12GCEA2	ARNU15GCEA2	ARNU018GCEA2	ARNU024GCEA2
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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSL0	PQRCVSL0QW	PQRCVCL0Q (Black) PQRCVCL0QW (white)	PQRCVCL0QW(White)	PQWRHQ0FDB

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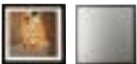
Accessories

Model		ARNU07GCEU2	ARNU09GCEU2	ARNU12GCEU2	ARNU15GCEU2	ARNU18GCEU2	ARNU24GCEU2
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	Standard Type	Simple Type	Simple Type for Hotel	
PQRCUDS0(white) PQRCUDS0B(blue) PQRCUDS0S(silver)	PQRCVSL0	PQRCVSL0QW	PQRCVCL0Q (Black) PQRCVCL0QW (white)	PQRCVCL0QW(White)	PQWRHQ0FDB

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FUNCTIONS

		Art Cool	Mirror	Standard	Console	4way Cassette
						
NEO Plasma Air Purifying System		0	0	0		0
Jet Cool		0	0	0	0	0
Dehumidification		0	0	0	0	0
Hot Start (Heat pump only)		0	0	0	0	0
Child Lock Function (Wired remote controller only)		0	0	0	0	0
Soft Dry Operation Mode				0	0	0
Low Standby Power		0	0	0	0	0
Group Control (Wired remote controller only)		0	0	0	0	0
Auto Changeover (MULTI V Heat Recovery only)		0	0	0	0	0
Auto Clean		0	0	0		
Sleep Mode Auto Operation		0	0	0	0	0
Auto Restart		0	0	0	0	0
4-Way Air Deflection						0
Swirl Swing		0	0		0	0
Weekly Program (Wired remote controller only)		0	0	0	0	0
Two Thermistor Control (Wired remote controller only)		0	0	0	0	0
Changable Panel		0	0			
Second Remote Control		0	0	0	0	0

2 way Cassette	1 way Cassette	Low Static	Built-in	High Static	Ceiling & Floor	Ceiling Suspended	Floor Standing
							
0	0						
0	0				0	0	
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0						
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0						
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
	0						
0	0	0	0	0	0	0	0



HYDRO KIT

TOTAL HEATING & HOT WATER SOLUTION

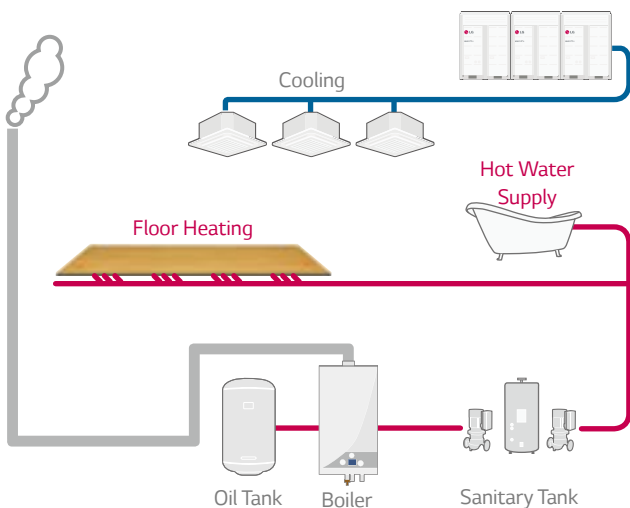
HYDRO KIT, using MULTI V to provide floor heating and hot water supply as a total HVAC solution.

HYDRO KIT

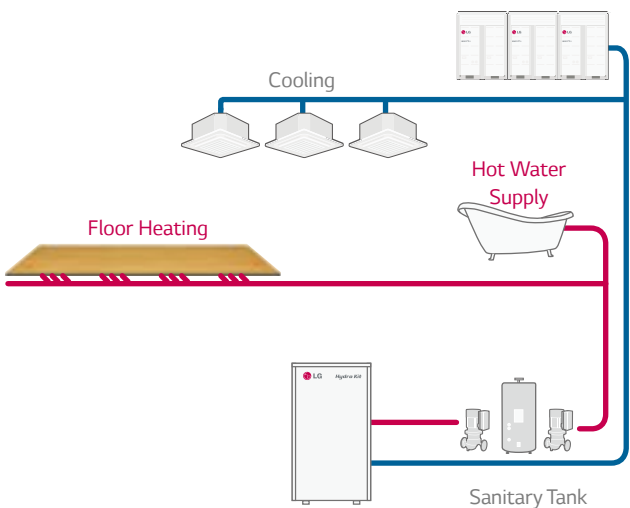
Easy Installation

Unnecessary to duct for exhaust gas, easy to install as it uses a compact and modular structure.

MULTI IV + Boiler



MULTI V IV + HYDRO KIT



Eco-friendly Green Energy Solution

Green energy solution through the reduction of CO₂ emissions.

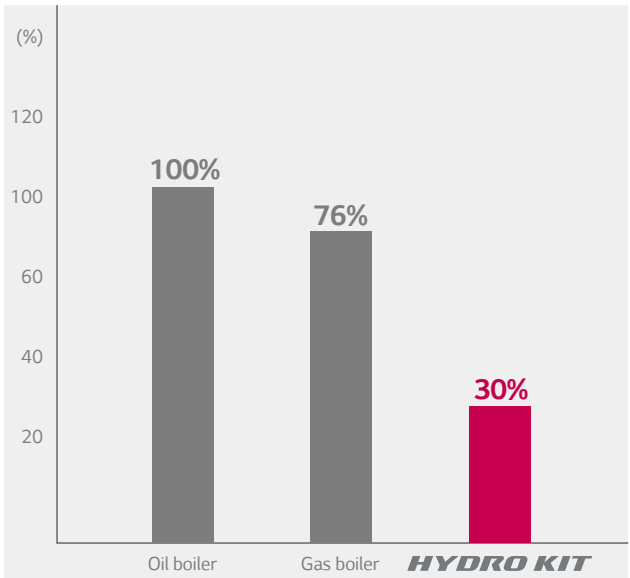
Conventional system



HYDRO KIT



CO₂ emissions



Saving Cost through High Efficiency

Possible to install with equivalent levels of capital cost as a boiler system and minimise energy costs by low-priced operating costs.

1st Proposal MULTI V IV HYDRO KIT (Air Conditioning + Hot water supply + Floor Heating)

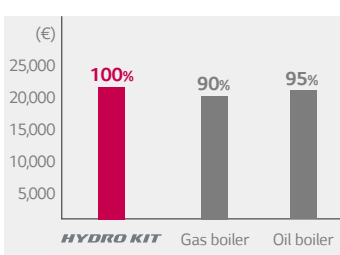
2nd Proposal MULTI V IV Air-conditioning + Gas Boiler (Hot water supply + Floor Heating)

3rd Proposal MULTI V IV Air-conditioning + Oil Boiler (Hot water supply + Floor Heating)

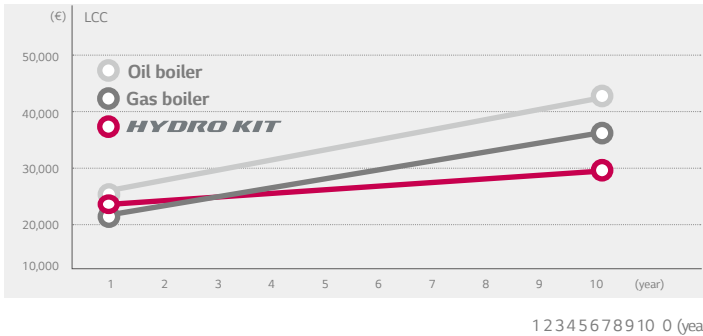
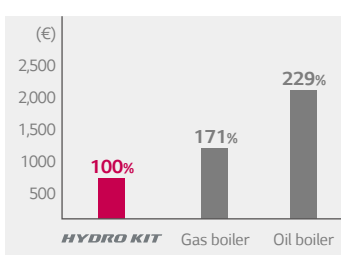
Analysis Conditions

- Building Type : Dormitory, flats
- Cooling / Floor Heating / Sanitary Hot water for 10 years
- Cooling : MULTI V IV Indoor unit
- Floor Heating : Medium Temp. HYDRO KIT (1ea)
- Sanitary Hot water : High Temp. HYDRO KIT (2ea),
Sanitary Hot water tanks
- Electricity cost : Average cost in EU
- Gas cost : Average cost in EU
- Oil cost : Average cost in EU

Initial Costs

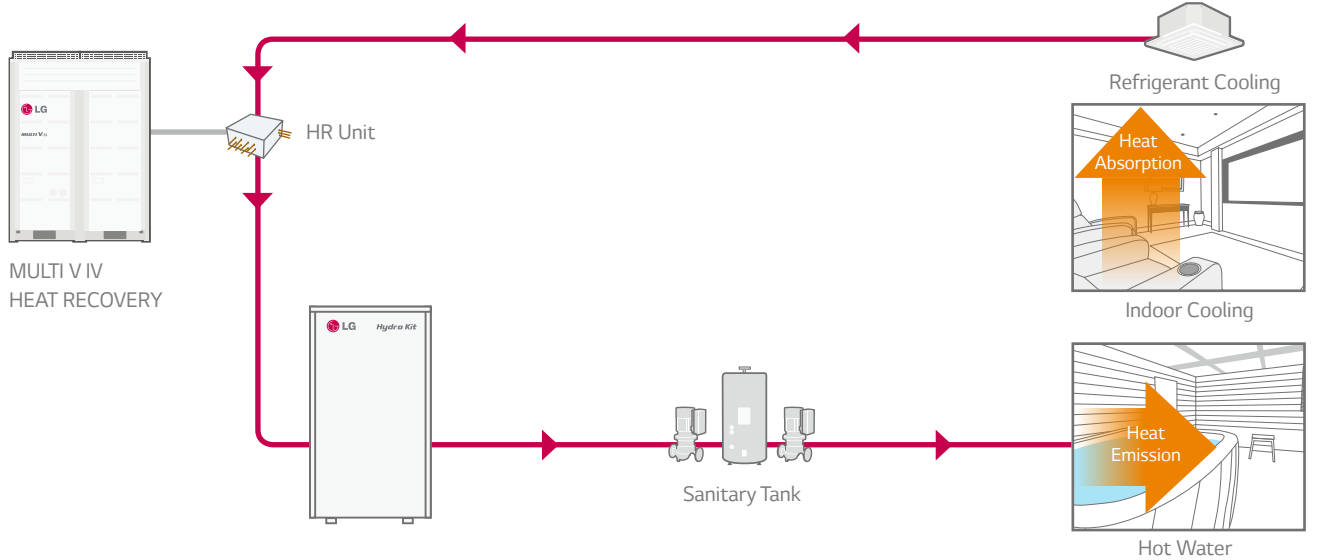


Annual Operating Coast



Energy Saving through MULTI V IV Heat Recovery

Energy costs can be minimized by reusing the wasted heat from indoor units.



HYDRO KIT

High Temperature Concept of HYDRO KIT

Provides high temperature up to 80°C with dual inverter cascade cycle, applicable for buildings that require large amount of hot water supply.

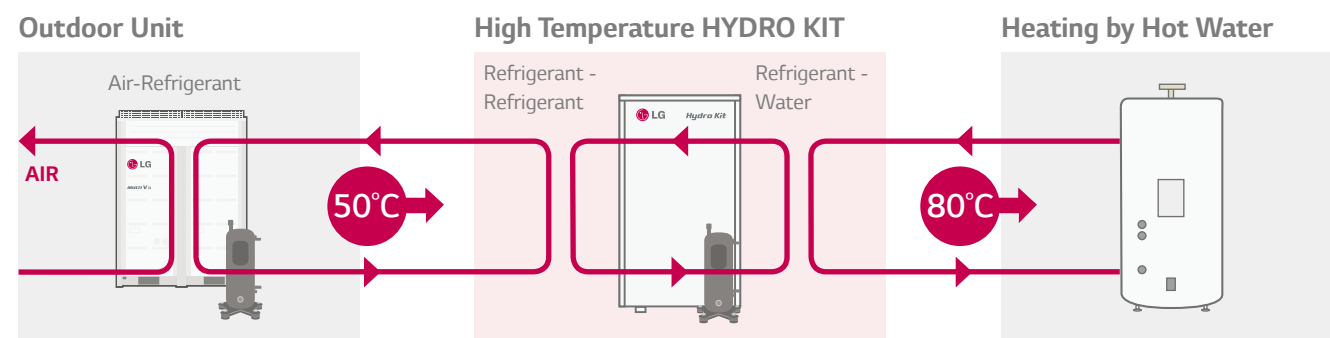
Dual inverter cascade cycle technology

- Max 55% improved capacity compared to mid-temp. of HYDRO KIT
- Max 20% reduced heating operating cost compared to mid-temp. of HYDRO KIT
- Cascade R410A to R134a BLDC compressor technology

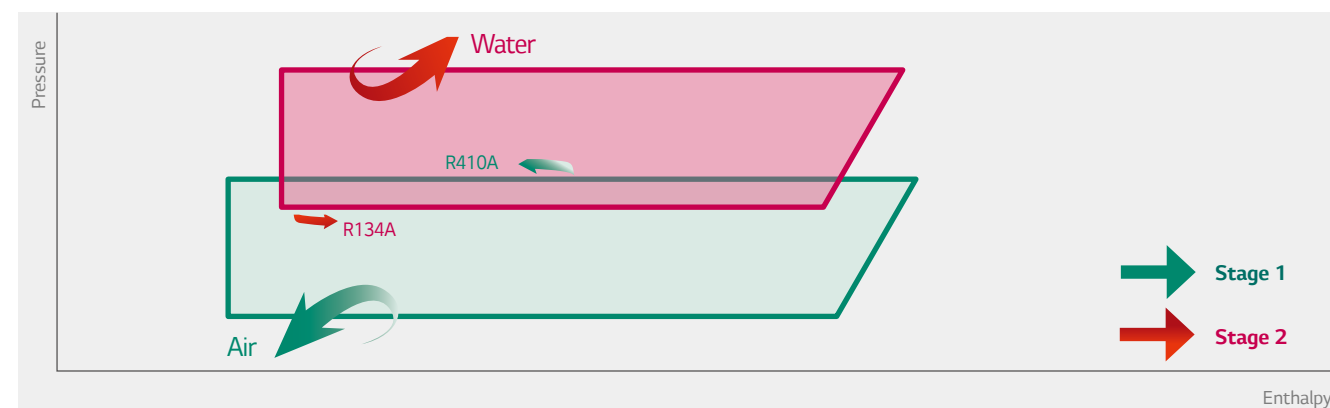
High volume of hot water

- Compared to lower temperature, storing high temperature water in a sanitary tank increases the quantity of mixed water available for the user.

High Temperature of HYDRO KIT Cycle Diagram



High Temperature Technology



Various Applications

Applicable to a variety of facilities including hospitals, residences and resorts that need floor heating and domestic hot water supply.

Office



Shopping Mall / Restaurant



University / School



Hotel / Resort



Hospital / Clinic

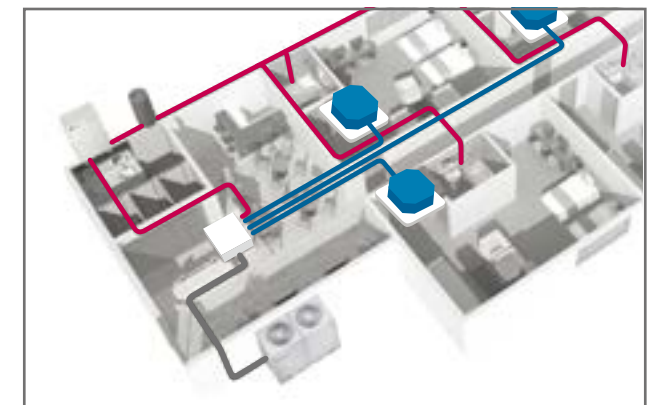


Factory Facilities



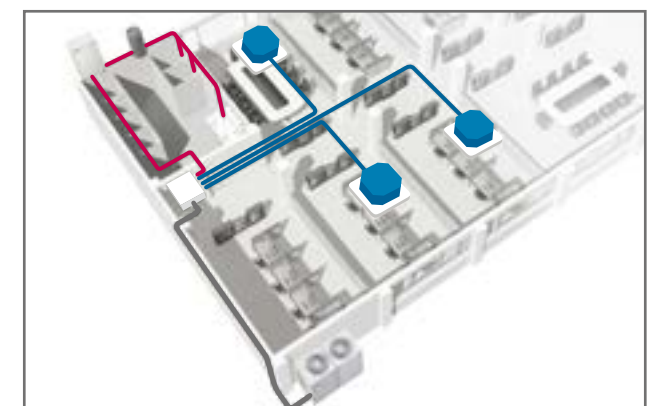
Hotel Application

It is possible to operating cooling and heating constantly at the same time during the summer, to provide hot water for bathrooms by using waste heat energy of indoor cooling from an indoor unit.



Office Application

Hot water can be supplied at all times in the office by cooling the HR unit to warm up the sanitary tank, using waste energy.





Type				Mid Temp.	Mid Temp.
Model				ARNH04GK2A2	ARNH10GK2A2
Power Supply			ø/ V / Hz	1 / 220 ~ 240 / 50	1 / 220 ~ 240 / 50
Capacity (Rated)	Cooling		kW	12.3	28
	Heating		kW	13.8	31.5
Power Input	Cooling	Max	kW	0.01	0.01
	Heating	Max	kW	0.01	0.01
Water Outlet	Cooling	M in	°C	6	6
Temperature	Heating	Max	°C	50	50
Casing				Painted Steel Plate	Painted Steel Plate
Dimensions	Body	WxHxD	mm	520 x 631 x 330	520 x 631 x 330
			inch	20-15/32 x 24-27/32 x 13	20-15/32 x 24-27/32 x 13
Net Weight			kg(lbs)	30.4(67)	35.0(77.2)
Heat Exchanger	Refrigerant to Water	Type		Brazed Plate Hex	Brazed Plate Hex
		Rated Water Flow	L/min	39.6	92.0
		Head Loss	kPa	41.0	69.0
	Refrigerant to Refrigerant	Type			
Compressor			Type		
Piping Connections	Water Side	Inlet	inch	Male PT 1	Male PT 1
		Outlet	inch	Male PT 1	Male PT 1
	Refrigerant Side	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)
		Gas Side	mm(inch)	15.88(5/8)	22.2(7/8)
Drain Piping Connection			mm(inch)	Male PT 1	Male PT 1
Sound Pressure Level	Cooling		dB(A)	26	26
	Heating		dB(A)	26	26
Power Supply Cable			No. x mm²	3C x CV2.5	3C x CV2.5
Communication cable			No. x mm²	2C x CVV-SB 1.0~1.5	2C x CVV-SB 1.0~1.5
Refrigerant	Refrigerant to Refrigerant	Refrigerant type Control			
		Refrigerant type		R410A	R410A
	Refrigerant to Water	Precharged Amount	kg(lbs)	-	-
		Control		EEV	EEV
Operation range	Connected to Heat pump	Cooling	°C(DB)	-5°C ~ 43°C	-5°C ~ 43°C
		Heating	°C(DB)	-20°C ~ 35°C	-20°C ~ 35°C
	Connected to Heat recovery	Cooling	°C(DB)	-5°C ~ 43°C	-5°C ~ 43°C
		Heating	°C(DB)	-20°C ~ 43°C	-20°C ~ 43°C
Combination ratio	Only hydrokit	Min ~Max	%	50 ~ 100	50 ~ 100
	Hydrokit + standard IDUs	Min ~Max	%	50 ~ 130	50 ~ 130

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

* Medium Temp. ** High Temp.



Type				High Temp.	High Temp.
Model				ARNH04GK3A2	ARNH08GK3A2
Power Supply		ø/ V / Hz		1 / 220 ~ 240 / 50	1 / 220 ~ 240 / 50
Capacity (Rated)	Cooling	kW		-	-
	Heating	kW		13.8	25.2
Power Input	Cooling	Max	kW	-	-
	Heating	Max	kW	2.30	5.00
Water Outlet	Cooling	M in	°C	-	-
Temperature	Heating	Max	°C	80	80
Casing				Painted Steel Plate	Painted Steel Plate
Dimensions	Body	WxHxD	mm	520 x 1,080 x 330	520 x 1,080 x 330
			inch	20-15/32 x 42-17/32 x 13	20-15/32 x 42-17/32 x 13
Net Weight		kg(lbs)		88.0 (194.0)	94.0(207.2)
Heat Exchanger	Refrigerant to Water	Type		Brazed Plate Hex	Brazed Plate Hex
		Rated Water Flow	L/min	19.8	36.0
		Head Loss	kPa	5	20
	Refrigerant to Refrigerant	Type		Brazed Plate Hex	Brazed Plate Hex
Compressor		Type		Twin Rotary inverter	Twin Rotary inverter
Piping Connections	Water Side	Inlet	inch	Male PT 1	Male PT 1
		Outlet	inch	Male PT 1	Male PT 1
	Refrigerant Side	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)
		Gas Side	mm(inch)	15.88(5/8)	19.05(3/4)
Drain Piping Connection		mm(inch)		Male PT 1	Male PT 1
Sound Pressure Level	Cooling	dB(A)		-	-
	Heating	dB(A)		43	43
Power Supply Cable		No. x mm ²		3C x CV4.0	3C x CV4.0
Communication cable		No. x mm ²		2C x CVV-SB 1.0~1.5	2C x CVV-SB 1.0~1.5
Refrigerant	Refrigerant to Refrigerant	Refrigerant type		R410A	R410A
		Control		EEV	EEV
	Refrigerant to Water	Refrigerant type		R134a	R134a
		Precharged Amount	kg(lbs)	2.3(5.1)	3.0(6.6)
Operation range	Connected to Heat pump	Control		EEV	EEV
		Cooling	°C(DB)	-5°C ~ 43°C	-5°C ~ 43°C
	Connected to Heat recovery	Heating	°C(DB)	-20°C ~ 35°C	-20°C ~ 35°C
		Cooling	°C(DB)	-5°C ~ 43°C	-5°C ~ 43°C
Combination ratio	Only hydrokit	Min ~Max	%	50 ~ 100	50 ~ 100
	Hydrokit + standard IDUs	Min ~Max	%	50 ~ 130	50 ~ 130

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

* Medium Temp. ** High Temp.



ecoV™

ENERGY RECOVERY VENTILATOR

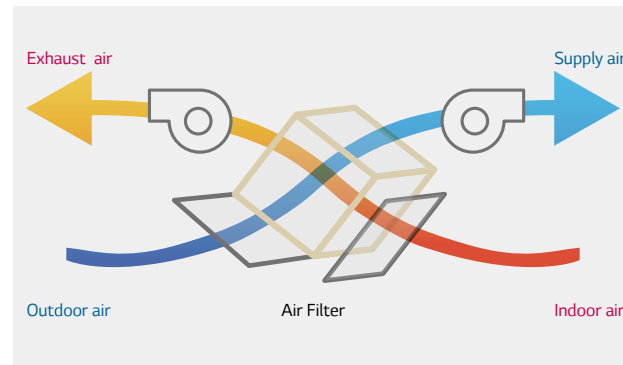
MULTI V series offers outstanding energy savings, easy installation and connection to many different types of indoor units, making it easy to design and install.

134 **ecoV™**

142 **DXecoV™**

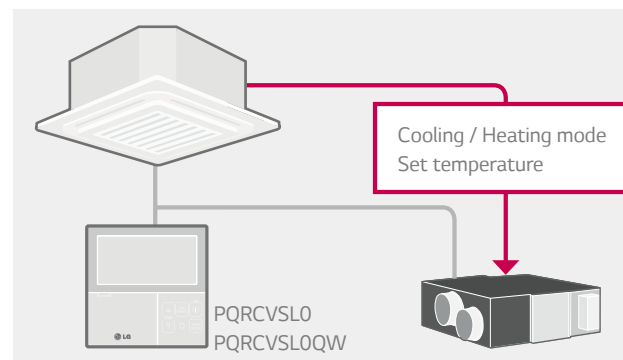
High Efficiency Heat Exchanger

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.



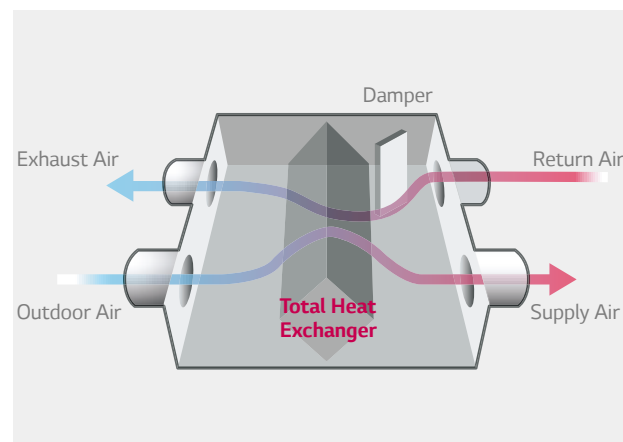
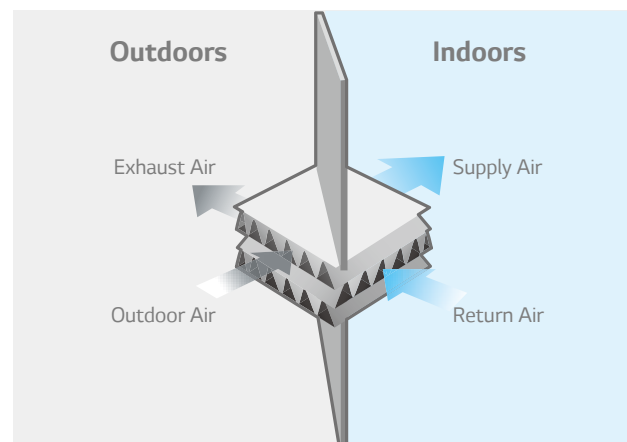
Interlocking with Air Conditioning System

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



Compulsory Exhausting System

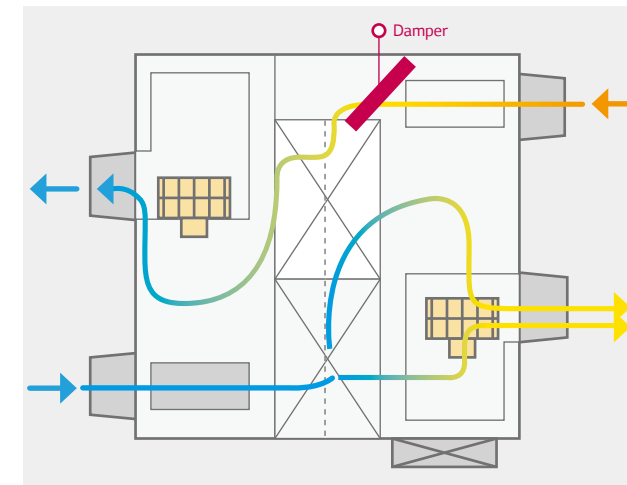
The exhausting system using high static and sirocco fan removes contaminants effectively from indoor air. Supply and exhaust air flows are completely separated in the total heat exchanger, ECO V can filter out the impurities before supplying outdoor air and make indoor air fresh and healthy.



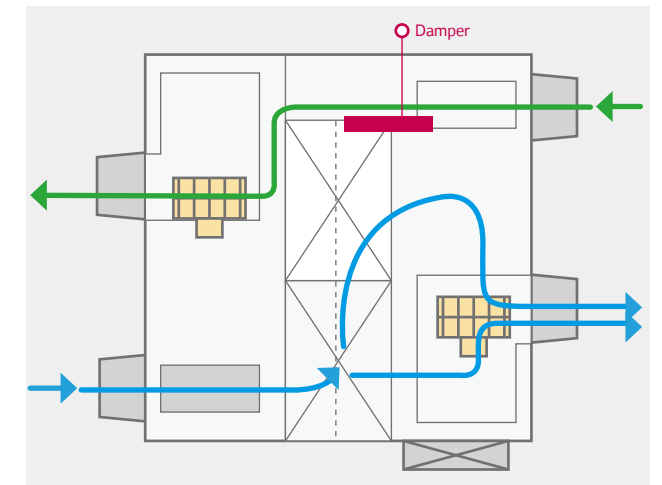
Bypass Ventilation

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

Enthalpy Heat Exchange Mode (Summer / Winter)



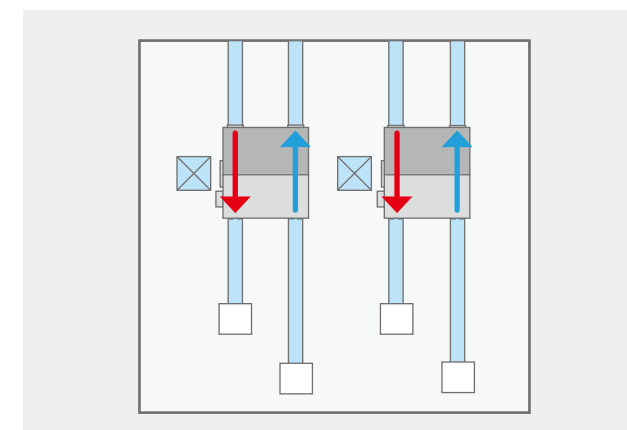
Bypass Mode (Seasonal Change)



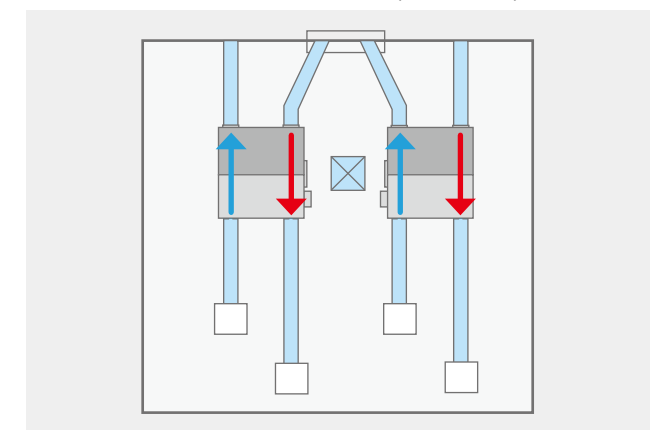
Flexibility of Installation

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

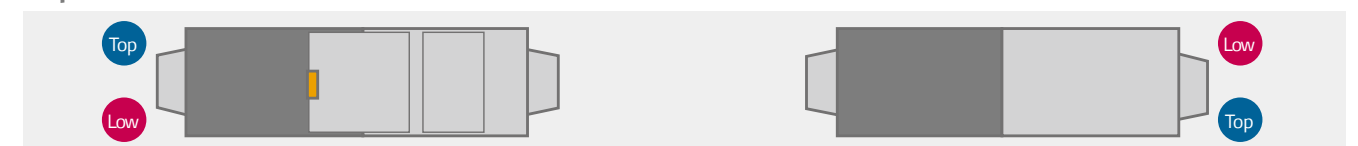
Normal installation of 2 units



Reverse installation of 1 unit (Left unit)

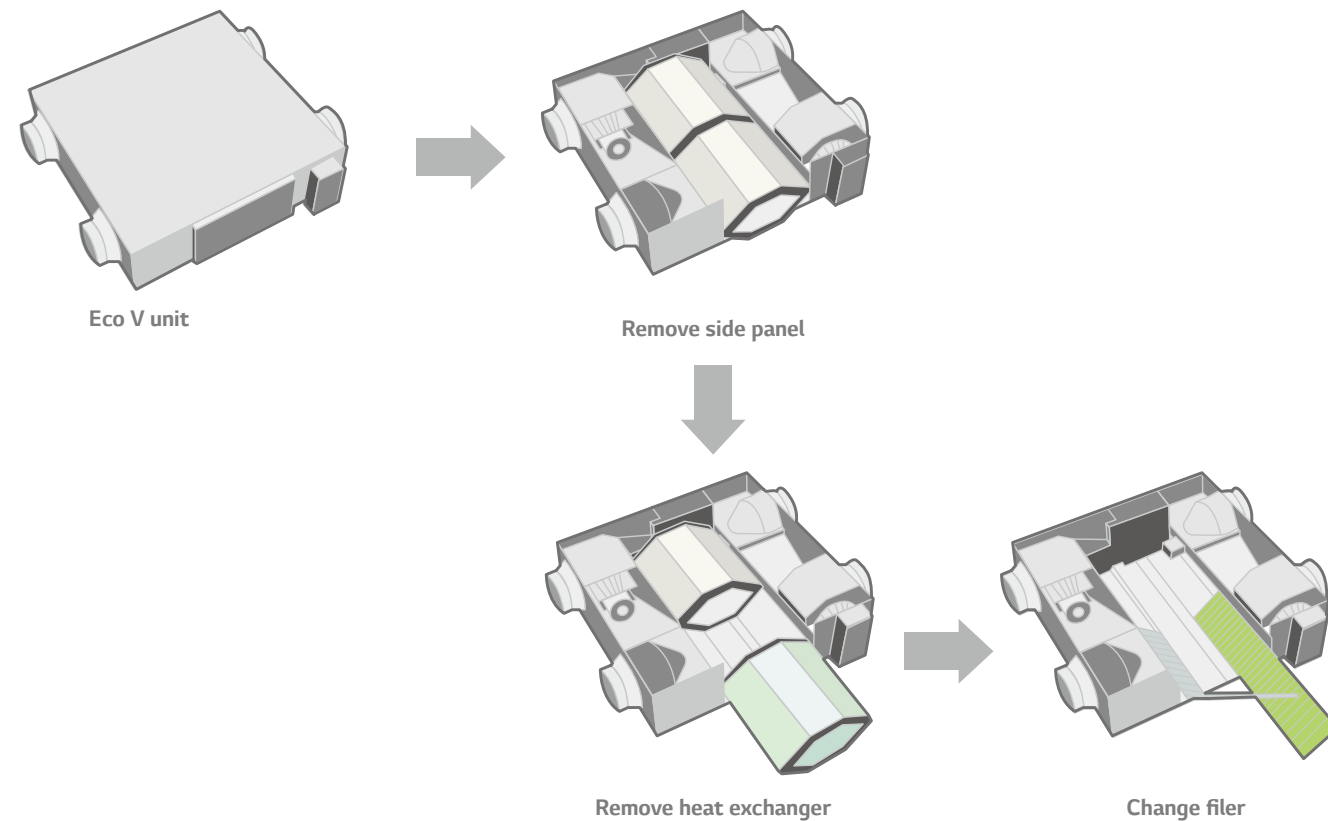


Inspection chamber



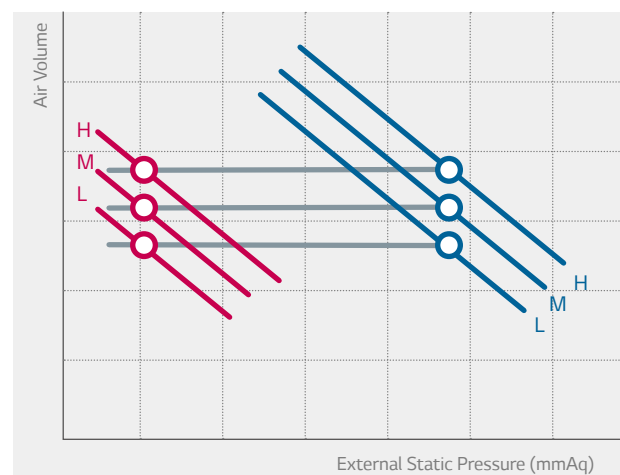
Easy Cleaning and Filter Change

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



External Static Pressure Control

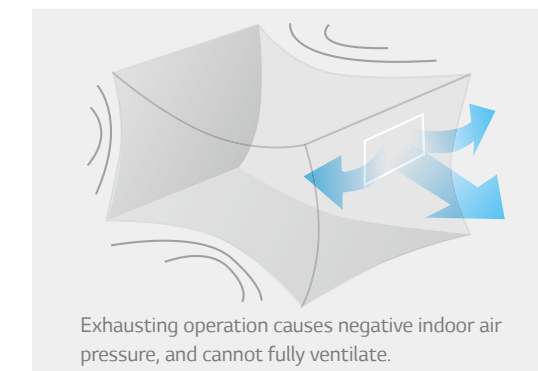
The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



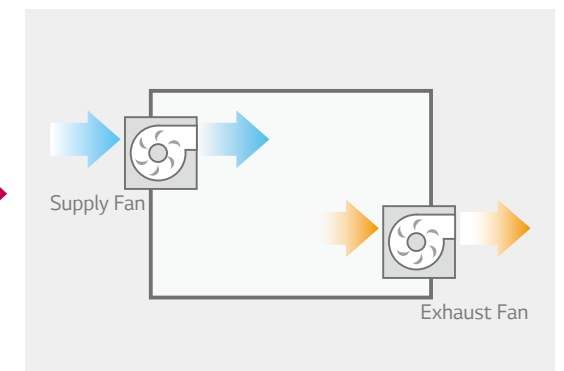
Fast Ventilation Mode

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

Only Exhausting

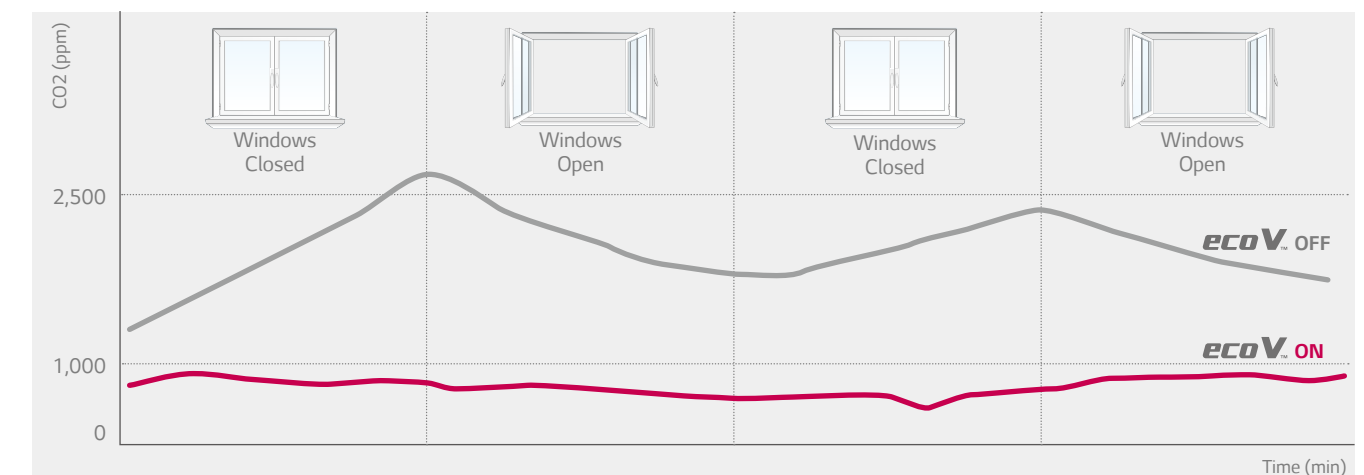
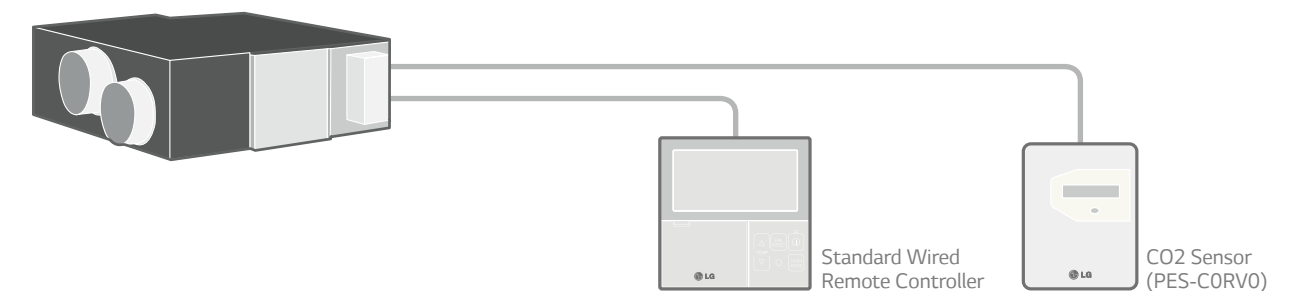


Fast Ventilation Mode



CO₂ Concentration Control

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





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)		320(70.5)		44(97)
Dimension	WxDxH	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(WxDxH)	mm (Inch)		600x10x150(23.62x0.39x5.91)		855x10x166(33.66x0.39x6.54)
Remote Controller		W		PQRCVSLO / PQRCVSLQW		
Dry Contact				PQDSB / PQDSB1		

Note :
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	Standard Type
	
PQRCVSLO	PQRCVSLQW

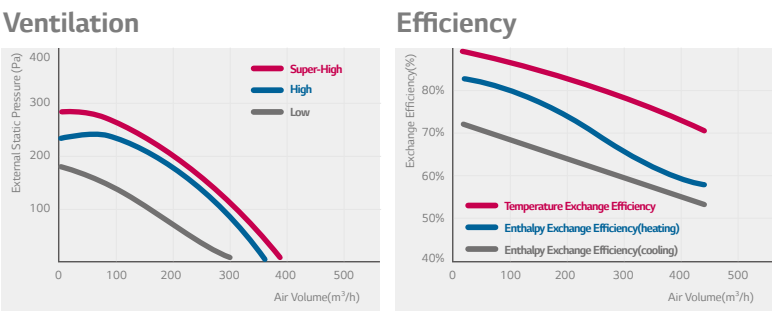


Model				LZ-H080GBA2	LZ-H100GBA2	LZ-H150GBA2	LZ-H200GBA2
Nominal Capacity			CMH(CFM)	800(471)	1,000(589)	1,500(883)	2,000(1,177)
Power Supply			ø/V/Hz	1, 220-240, 50-60			
ECO V Mode	Step	SH/H/L	-	SUPER-HIGH / HIGH / LOW			
	Current	SH/H/L	Amps	2.77/2.16/1.44	3.41/2.91/1.76	5.6/5.4/2.9	6.8/5.9/3.6
	Power 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	WxDxH	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(WxDxH)	mm (Inch)	600x10x150(23.62x0.39x5.91)		1,056x10x212.5(41.57x0.39x8.37)		
Remote Controller		W	PQRCVSLO / PQRCVSLQW				
Dry Contact			PQDSB / PQDSB1				

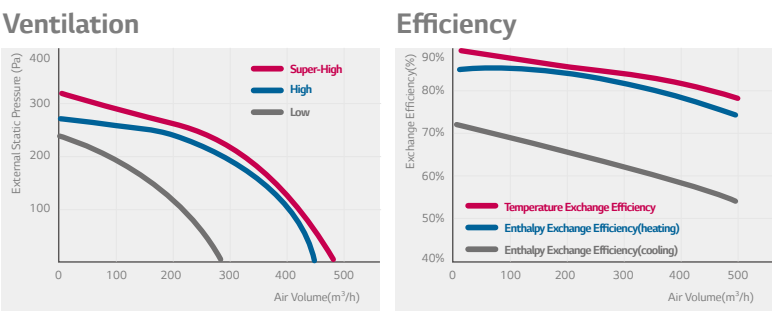
Note :
1. eco V Mode - Enthalpy Heat Recovery Ventilation mode
2. Noise level :
- The operating conditions are assumed to be standard.
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient)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

Wired Remote Controller	
Standard Type	Standard Type
	
PQRCVSLO	PQRCVSLQW

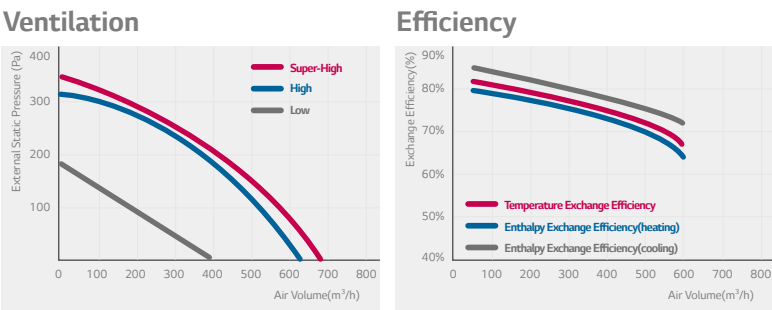
LZ-H025GBA2



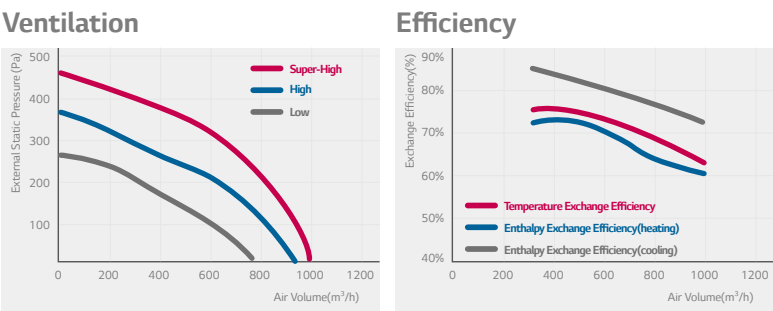
LZ-H035GBA2



LZ-H050GBA2



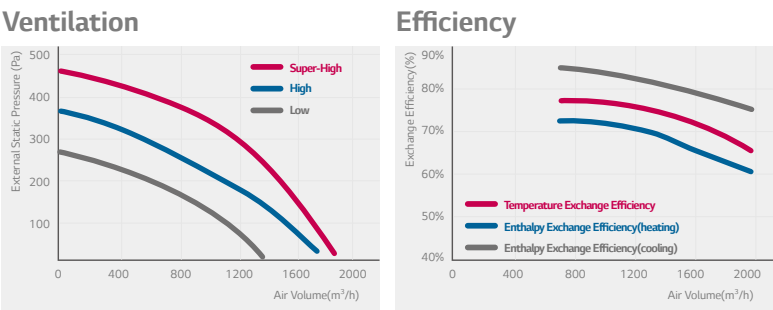
LZ-H080GBA2



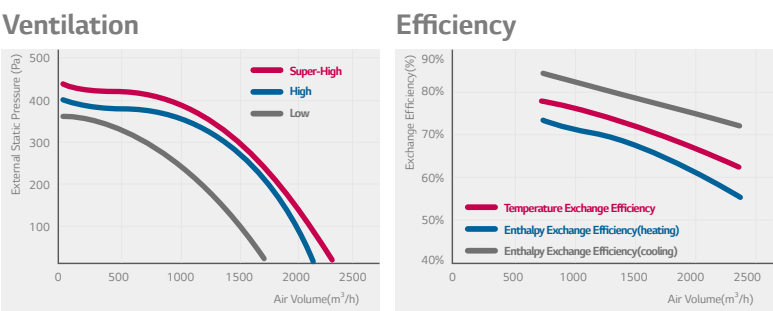
LZ-H100GBA2



LZ-H150GBA2



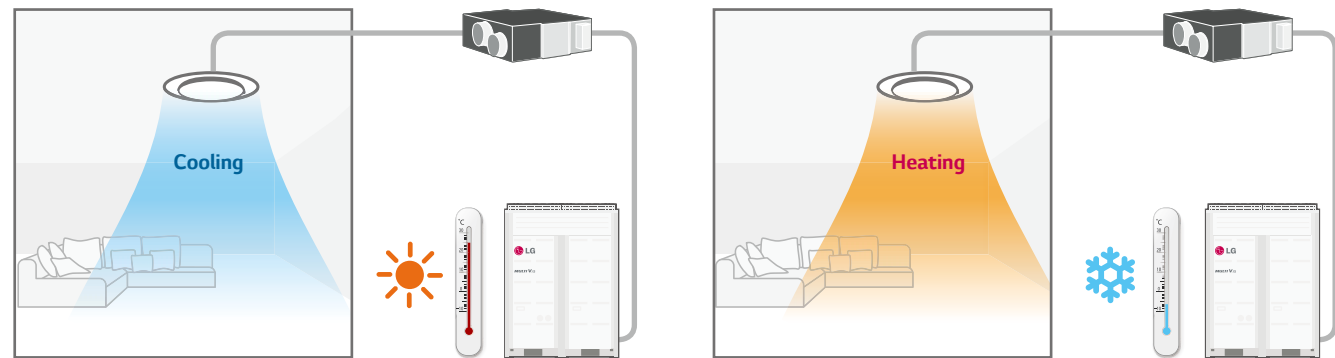
LZ-H200GBA2



Providing Cool & Warm Fresh Air

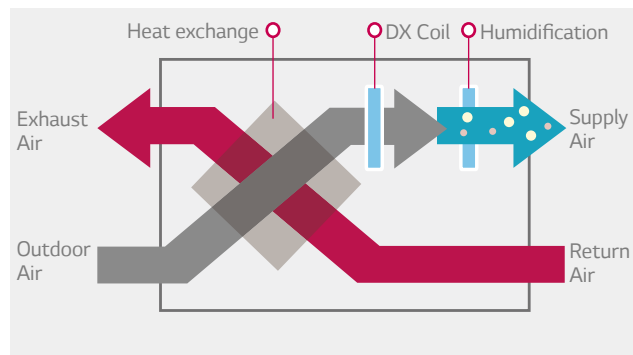
ECO V DX has some air conditioning funtions.

During the summer, it can transform outdoor warm air into cool air for indoors, and it can prevent cold drafts during the winter by supplying warm air.



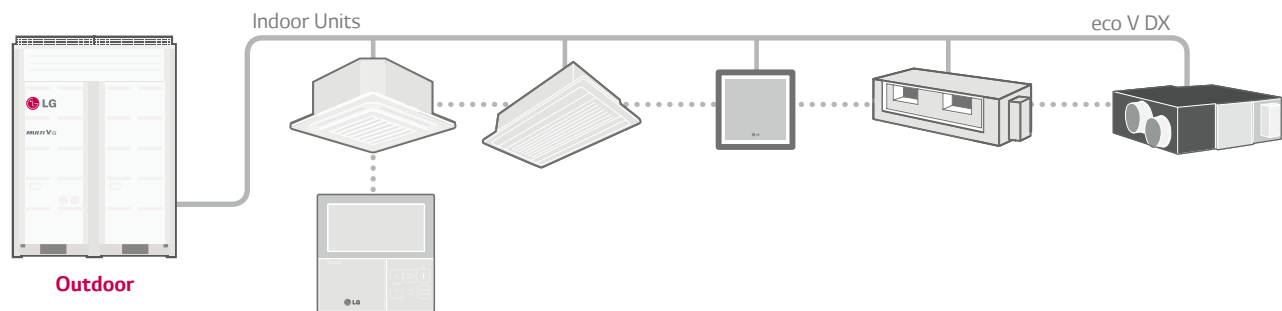
Total Air Conditioning Solution

ECO V DX can be used as a Total Air Conditioning Solution. It can control condition of incoming air with the DX coil and humidifier for making comfortable indoor air. In the summer, ECO V DX controls the air indoors by cooling and dehumidifying incoming air. In winter, it can provide warm air by heating and humidifying the incoming air.



Interlocking with MULTI V

ECO V DX can be interlocked with MULTI V. It can be controlled individually by a wired remote controller connected to MULTI V indoor units.



Model			LZ-H050GXHO	LZ-H080GXHO	LZ-H100GXHO	LZ-050GXNO	LZ-080GXNO	LZ-H100GXNO
Fresh Air Conditioning Load	Cooling	kW	4.93	7.46	9.12	4.93	7.46	9.12
	Heating	kW	6.73	9.80	11.72	6.73	9.80	11.72
Temperature Exchange Efficiency	SH/H/L	%	86/86/87	84/84/86	82/82/84	86/86/87	84/84/86	82/82/84
Enthalpy Exchange Efficiency	Cooling (SH/H/L)	%	68/68/69	64/64/66	60/60/63	68/68/69	64/64/66	60/60/63
	Heating (SH/H/L)	%	76/76/77	74/74/76	71/71/73	76/76/77	74/74/76	71/71/73
Air Flow Rate	Heat Exchange Mode (SH/H/L)	CMH	500/500/440	800/800/640	1,000/1,000/820	500/500/440	800/800/640	1,000/1,000/820
	Bypass Mode (SH/H/L)	CMH	500/500/440	800/800/640	1,000/1,000/820	500/500/440	800/800/640	1,000/1,000/820
Fan	External Static Pressure (SH/H/L)	Pa	160/120/100	140/90/70	110/70/60	180/150/110	170/120/80	150/100/70
Humidifier	System		Natural Evaporating Type			-		
	Amount	kg/h	2.7	4.0	5.4	-		
	Feed Water Pressure	Mpa	0.02-0.49	0.02-0.49	0.02-0.49	-		
Noise Level	Heat Exchange Mode	dB(A)	38/36/33	39/37/34	40/38/35	39/37/35	41/38/36	41/39/36
	Bypass Mode	dB(A)	39/37/34	40/38/35	40/38/35	39/37/35	41/38/36	41/39/36
Refrigerant			R410a			R410a		
Power Supply		ø/V/Hz	1 / 220 ~240 / 50			1 / 220 ~240 / 50		
Power Input (Normal)	Heat Exchange Mode (SH/H/L)	kW	0.25/0.2/0.15	0.42/0.35/0.25	0.48/0.42/0.27	0.25/0.2/0.15	0.42/0.35/0.25	0.48/0.42/0.27
	Bypass Mode (SH/H/L)	kW	0.25/0.2/0.15	0.42/0.35/0.25	0.48/0.42/0.27	0.25/0.2/0.15	0.42/0.35/0.25	0.48/0.42/0.27
Nominal Running Current (RLA)	Heat Exchange Mode (SH/H/L)	A	1.5/1.3/1	2.5/2.0/1.5	3.6/3.2/2.3	1.5/1.3/1.0	2.5/2.0/1.5	3.6/3.2/2.3
	Bypass Mode (SH/H/L)	A	1.5/1.3/1	2.5/2.0/1.5	3.6/3.2/2.3	1.5/1.3/1.0	2.5/2.0/1.5	3.6/3.2/2.3
Dimensions	WxDxH	mm	365x1,667x1,140			365x1,667x1,140		
Net Weight	Liquid	kg(lbs)	105(231.5)			98(216.1)		
	Gas	mm	ø6.35			ø6.35		
Pipe Connection	Water	mm	ø12.7			ø12.7		
	Drain	mm	ø6.35			-		
		mm	ø25.4			ø25.4		
		mm	ø250			ø250		
Connection Duct Diameter		mm	ø250			ø250		
Remote Controller			PQRCVSL0 / PQRCVSL0QW			PQRCVSL0 / PQRCVSL0QW		
Dry Contact(1 contact point)			PQDSB / PQDSB1			PQDSB / PQDSB1		
Dry Contact(2 contact point)			PQDSBC			PQDSBC		

Note :

- eco V Mode - Enthalpy Heat Recovery Ventilation mode
- 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	Standard Type
	
PQRCVSLO	PQRCVSLOQW



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.

148 Air conditioner Control System

192 Mechanical Accessories

204 Piping Accessories

ACCESSORIES

AIR CONDITIONER CONTROL SYSTEM LINE UP

Remote Controller				Central Controller		Central Controller	Gateway		AHU Kit (Air Handling Unit)	Electronic Accessories															
Wired Remote Controller				Wireless Remote Controller	Simple Central Controller	AC Smart Premium	ACP (Advanced Control Platform) & AC Manager Plus	Building Network Unit	PI 485 & DO Kit (Digital Output Kit)	 Communication kit PRCKA0 PRDCA0  EEV kit (Electronic Expansion Valve kit) PRLK048A0 PRLK096A0  Control kit PRCKD21E PRCKD41E  Expnsion kit PATX13A0E PATX20A0E PATX25A0E PATX35A0E PATX50A0E	Simple	standard	Deluxe	Premium	 PQWRHQ0FDB(H/P)	 AC Ez PQCSZ250S0	 AC Smart Premium PQCSW421E0A	 ACP (Advanced Control Platform) Standard PQCP22NO  ACP (Advanced Control Platform) Premium PQCP22AO  AC Manager Plus PQCSSA21EO	 ACP LonWorks Gateway PLNWK000  ACP BACnet/Modbus Gateway PQNFB17C0  KNX Gateway	 PI 485 PMNFP14A1 PHNFP14A0 PSNFP14A0  DO Kit (Digital Output Kit) PQNFP00T0	 PQRCVCLQQ (Black/Simple)  PQRCVCLQW (White/Simple)  PQRCHCA0Q (Black/Simple for Hotel)  PQRCHCA0QW (White/Simple for Hotel)	 PQRCVSL0  PQRCVSL0QW	 PQRCUDS0 (White)  PQRCUDSOB (Blue)  PQRCUDSOS (Silver)	 PREMTA000	• PDI (Power Distribution Indicator) Premium • Dry Contact • I/O Module (Input / Output Module) • Variable Water Flow Control kit • Independent Power Module • Remote Temperature Sensor • Cool/Heat Selector • Group Control Wire • Zone Controller

REMOTE CONTROLLER

Simple Wired Remote Controller



> Page 149

Standard Wired Remote Controller



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Deluxe Wired Remote Controller



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Premium Wired Remote Controller



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Wireless Remote Controller



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Remote Controller Line Up

Model name	 PQRCVCL0Q PQRCVCL0QW	 PQRCHCA0Q PQRCHCA0QW	 PQRCVSL0 PQRCVSL0QW	 PQRCUDS0 (B,S)	 PREMTA000	 PQWRHQ0FDB (H/P)
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 (External Static Pressure) function	O	O	O	O	O	-
Reservation	-	-	O	O	O	O
Time function	-	-	O	O	O	O
Electric failure compensation	-	-	O	-	50 hours	-
Child lock	O	O	O	O	O	-

SIMPLE WIRED REMOTE CONTROLLER

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

Simple
PQRCVCL0QW (White)
PQRCVCL0Q (Black)
Simple for Hotel
PQRCHCA0QW (White)
PQRCHCA0Q (Black)



Features

Model name	PQRCVCL0Q / PQRCVCL0QW	PQRCHCA0Q / PQRCHCA0QW
Operating mode	On/Off / Fan speed / Mode / Temperature	On/Off / Fan speed / Mode / Temperature
Room temperature	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 block for applicable models.

STANDARD WIRED REMOTE CONTROLLER

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

PQRCVSLO
PQRCVSLOQW



PQRCVSLOQW
(White)



PQRCVSLO
(Black)

Features

Model name	PQRCVSLO / PQRCVSLOQW
Operating mode	On/Off / Fan speed / Mode / Temperature
Maximum number of indoor units	16
On/Off LED	○
Room temperature	○
Fan / Plasma / Swirl / Heater	○
Vane control (Louver direction) / Auto swing / Fan auto	○
E.S.P (External Static Pressure) function	○
Reservation	On/Off / Weekly / Simple / Sleep / Holiday
Time function	○
Child lock	○
Electric failure compensation	Max 3 hours
Wireless remocon receiver	○
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 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)	120 x 121 x 16
Backlight Unit	○

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

DELUXE WIRED REMOTE CONTROLLER

Touch screen with a premium design for high end interior designs

PQRCUDS0
PQRCUDS0B
PQRCUDS0S



PQRCUDS0
(White)



PQRCUDS0B
(Blue)



PQRCUDS0S
(Silver)

Features

Model name	PQRCUDS0 / PQRCUDS0B / PQRCUDS0S
Operating mode	On/Off / Fan speed / Mode / Temperature
Touch screen / LCD back_light	○
Room temperature	○
Fan / Plasma / Swirl / Heater	○
Vane control (Louver direction) / Auto swing	○
E.S.P (External Static Pressure) function	○
Reservation	Weekly / Simple
Time function	○
Child lock	○

* Refer to each model block for applicable models.

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	○
Room temperature	○
Fan / Plasma / Swirl / Heater	○
Vane control (Louver direction) / Auto swing / Fan auto	○
E.S.P (External Static Pressure) function	○
Reservation	Timer (simple/sleep) / Daily(On/Off) / Weekdays / Yearly / Holiday
Time function	○
Child lock	○ All / Individual (On/Off, Mode, Temperature)
Electric failure compensation	50 hours
Wireless remocon receiver	○ (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).

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	○
Chaos swing / Jet cool	○
On/Off timer	○
Sleep mode auto	○
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, SRAC, CVT, Duct*, Floor Standing	○

* 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.

CENTRAL CONTROLLER

AC Ez



> Page 155

AC Smart Premium



> Page 156

ACP
(Advanced Control Platform)
Standard / Premium



> Page 158

AC Manager Plus



> Page 160

Central Controller Line Up

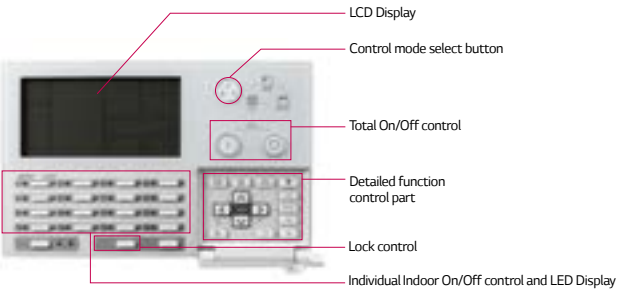
Model name	 PQCSZ250S0	 PQCSW421E0A	 PQCPC22N0 PQCPC22A0	 PQCSSA21E0
On/Off	O	O	O	O
Maximum number of indoor units	32	128	256	8,192
Mode change	O	O	O	O
Control of each room	O	O	O	O
Total lock	O	O	O	O
Error check	LED/LCD display	Self- diagnosis	Self- diagnosis	Self- diagnosis
Fan speed / Temperature control	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 temperature range restriction	-	O	O	O
Auto changeover	-	O	O	O
Temperature limit control	-	O	O	O
History	-	O	O	O
Interlocking function	-	O	O	O
Multi languages	-	O	O	O
Visual Navigation	-	O	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

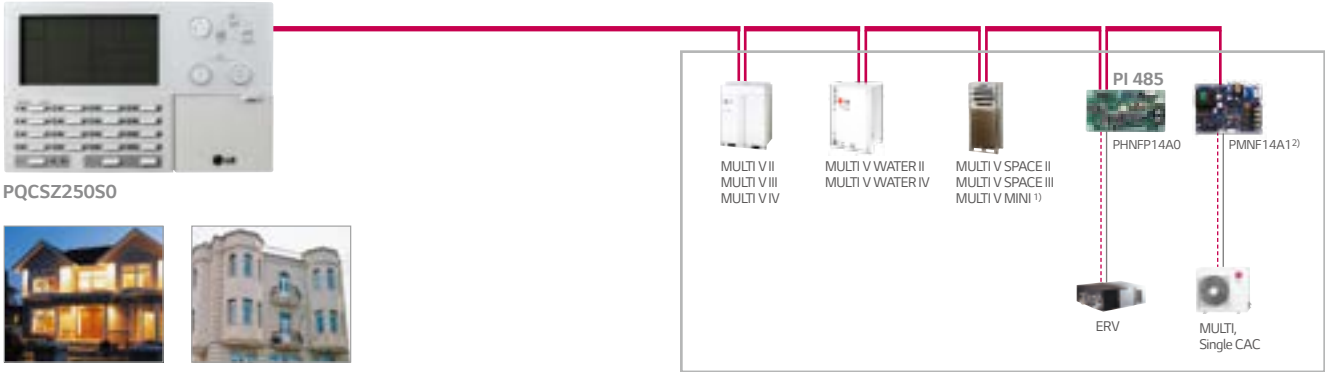
Name and description of the system



Features

Model name	PQCSZ50S0
Maximum number of indoor units	32
Individual control	On/Off / Operation Mode / Fan Speed / Temperature
Lock function	Central
Mode change	Cooling / Heating / Fan / Dehumidification / Auto
Schedule	8 event schedule/day
Ventilation control	On/Off / Ventilation Mode / Fan Speed
Display (All Indoor status indication)	Operation, Set temp, Room Temp, Schedule
Dimensions (W X H X D, mm)	190x120x17
Power	DC 12V

Combination



1) ARUN40GS2A / ARUV40GS2A Only needs PI485
2) Max 64 indoor units

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 (Graphic User Interface)
- 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



Control / Monitoring

controls and monitors the operation status of the air conditioner / ERV / Hydro kit / DO (Digital Output) Kit devices.



Schedule

Operates the air conditioners, ERV, AHU (Air Handling Unit), AWHP, Hydro Kit and DO (Digital Output) Kit connected to AC Smart Premium according to the schedule.



Automation control

- Peak Control : user can set the peak operation rate, ACSmart premium manages the air conditioners not to exceed their power consumption more than set rate.

- Interlocking : User can set input condition and output condition, so that, if input condition is true, output condition will be activated. (ex. Input condition : UNIT_00 is ON, output condition : UNIT_01 is ON.)

Time limit Control : ACSmart premium will allow the air conditioners only specified amount time.



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 Device setting air conditioners, ERV, AHU (Air Handling Unit), AWHP, Hydro Kit and DO (Digital Output) Kit connected to AC Smart Premium.



Configure

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

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.



Energy report

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



Visual navigation

Floor plan (jpg format) can be edited according to the air conditioners location and shows the status.



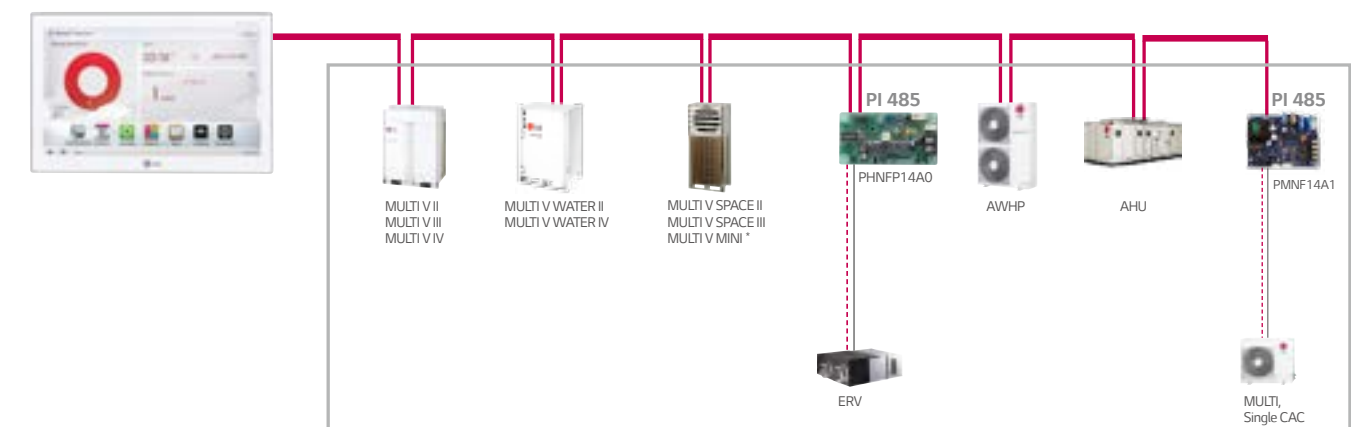
AHU (Air Handling Unit) control

AC Smart Premium provides various control functions to users.



Combination

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



* ARUN40GS2A/ARUV40GS2A Only needs PI485

ACP (ADVANCED CONTROL PLATFORM)

(Standard / Premium) With its Linux bases web server, users can control up to 256 unit including indoor unit, ERV, Hydro kit, AHU (only Premium model) Also it has schedule / peak / power consumption report function

Standard
PQCP22N0

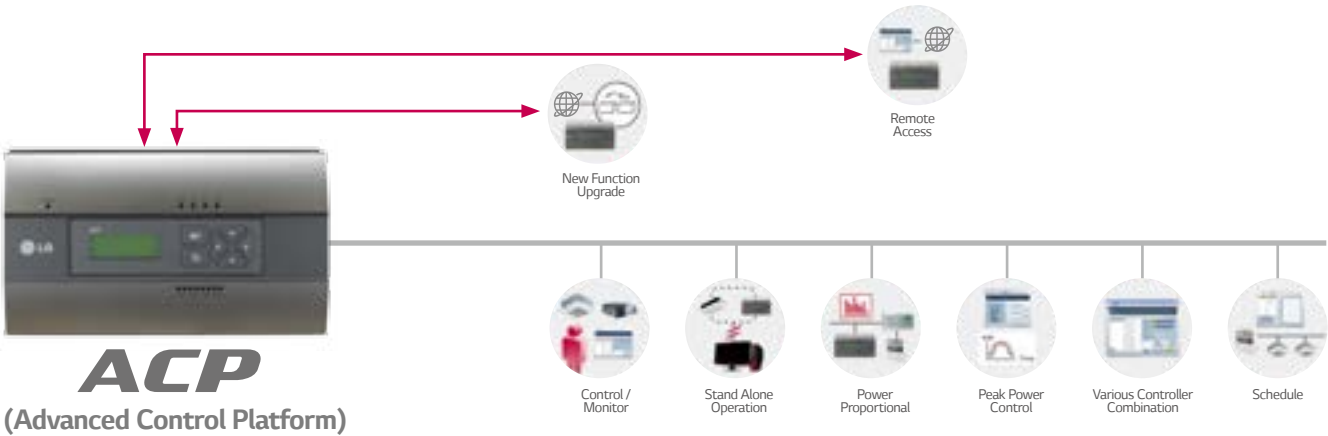
Premium
PQCP22A0

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/ ERV/ ERV DX / AHWP / Hydro kit	Air conditioner/ ERV/ ERV DX/ AHWP/ Hydro Kit / AHU

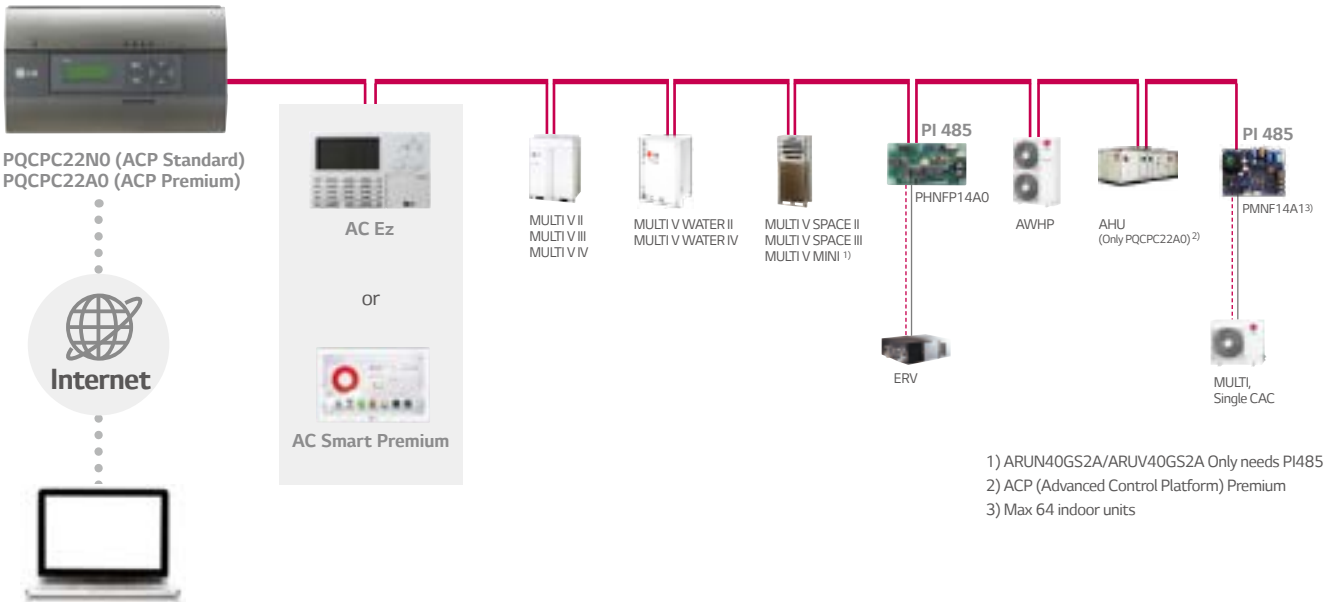


Features

Model name	PQCP22N0 / PQCP22A0
Maximum number of indoor units	256
Control / Monitoring	O
Schedule management	O
Lock function	Mode, Temperature, Fan
Temperature range restriction	18°C ~ 30°C
Temperature limit function	O
Auto changeover function	O
History function	Error history
Peak control	O
PDI monitoring	Need of PDI
Auto address searching function	O
Statistics function	O
Peak Priority funtion	O
ERV, ERV DX Control	O



Combination



ACMANAGER PLUS

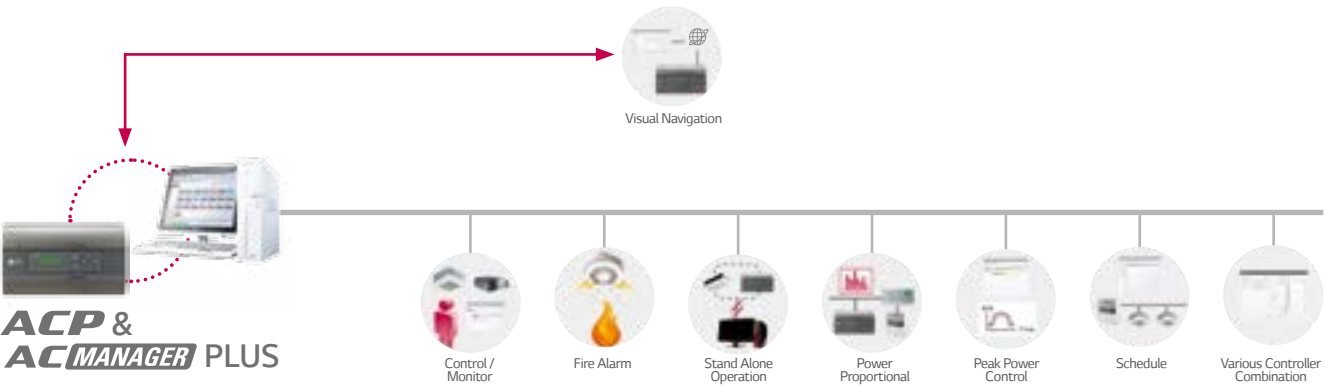
Provides efficient control and monitoring system for up to 8,192 indoor units by connecting 32 ACPs

PQCSSA21E0

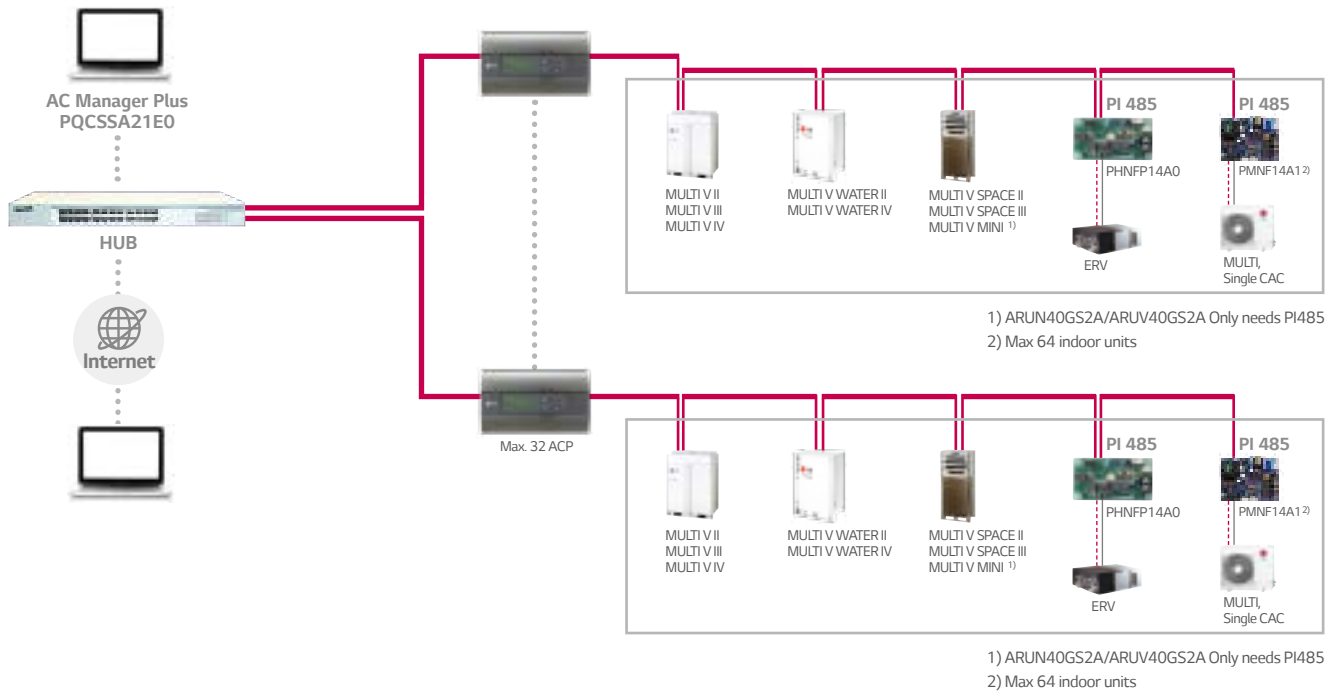


Features

Model name	PQCSSA21E0
Maximum number of indoor units	8,192 (32 ACP)
Control / Monitoring	○
Schedule management	○
Lock function	Mode/Temperature/Fan speed/Total
Temperature range restriction	○
Temperature limit function	○
Auto changeover function	○
History function	Monitoring & Error history
Peak control	○
PDI monitoring	Need of PDI
Printing function	○
Statistics function	○
Time limit function	○
ERV, ERV DX Control	○
Peak Priority function	○
Interlocking function	○
AHU Control function	○
Hydro Kit, AWHP Control	○



Combination



ACP & ACMANAGER Plus Application



GATEWAY

ACP LonWorks Gateway		ACP BACnet/Modbus Gateway	
> Page 164		> Page 165	
PI 485		DO Kit (Digital Output Kit)	
> Page 166		> Page 167	
KNX Gateway			
> Page 168			



ACP LonWorks GATEWAY

LONWORKS®

Interface between BMS (Building Management System) and LG air conditioner

PLNWKB000

Interface between BMS (Building Management System) 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

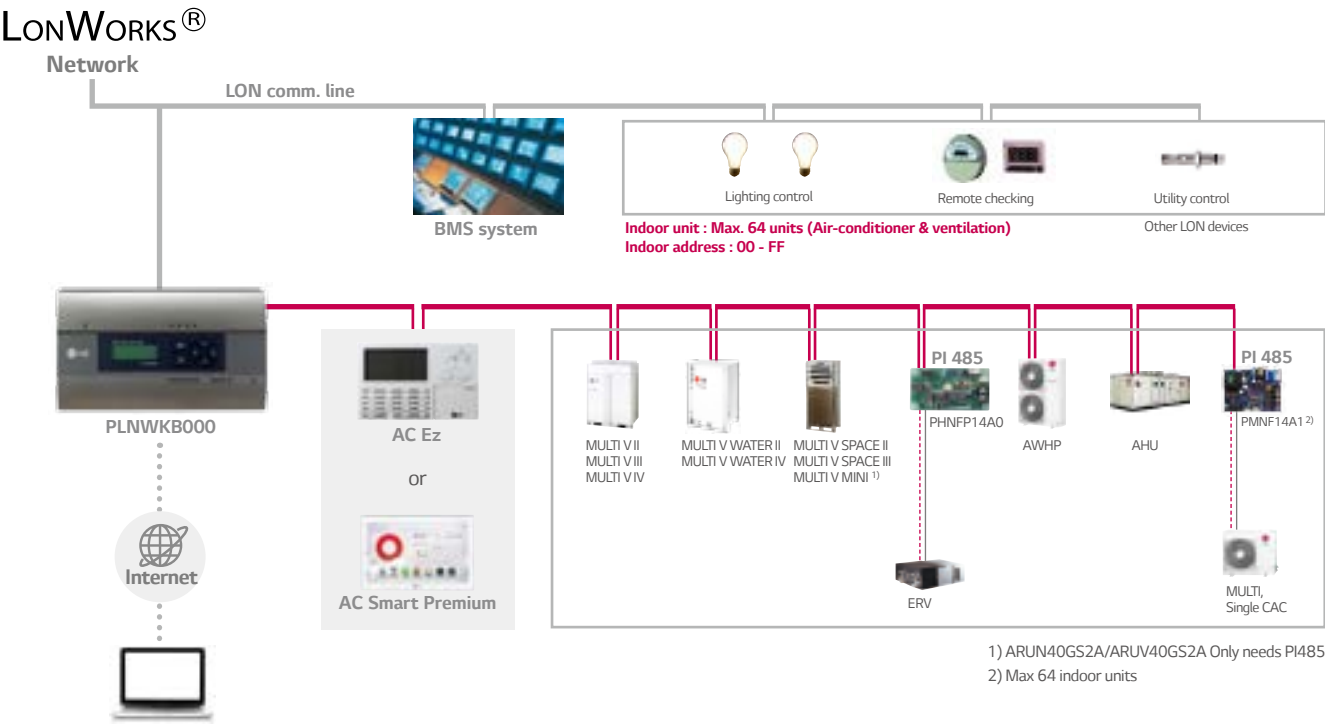
- Connect to use LonWorks® protocol and LG air conditioner protocol.
- Process ability
 - EHP Type : 64 unit (indoors, ERV and AWHP)
 - AHU (Air Handling Unit) Type : 16 unit (AHU)
- Self installation verification function using internet (Web server included)
 - Setting gateway
 - Diagnosis of communication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



Controlling	Monitoring items
On/Off command	On/Off status report
Operation mode setting	Operation mode status report
Fan speed setting	Fan speed status report
Lock setting	Lock status report
Air flow setting	Air flow status report
Set temp. setting	Set temperature status report
-	Current Space temperature status report
-	Error status report
User mode setting (for only ERV)	User mode status report (for only ERV)
-	Accumulator power distribution status report
Upper limit temp. setting	Upper limit temperature status report
Low limit temp. setting	Low limit temperature status report
Mode lock setting	Mode lock status report
AC operation mode setting (ERV DX only)	AC operation mode status report (ERV DX only)
AC On/Off command (ERV DX only)	AC On/Off status report (ERV DX only)

* For more information, see 158 page

Combination



ACP BACnet GATEWAY

BACnet

Interface between BMS (Building Management System) and LG air conditioner

- BTL certified : Operation system based on BACnet Service.

PQNFB17C0

Improved BMS (Building Management System) connection.

- With its Linux bases web server, users can control up to 256 unit including indoor unit, ERV, Hydro kit, AHU . Also it has schedule/peak/power consumption report function.



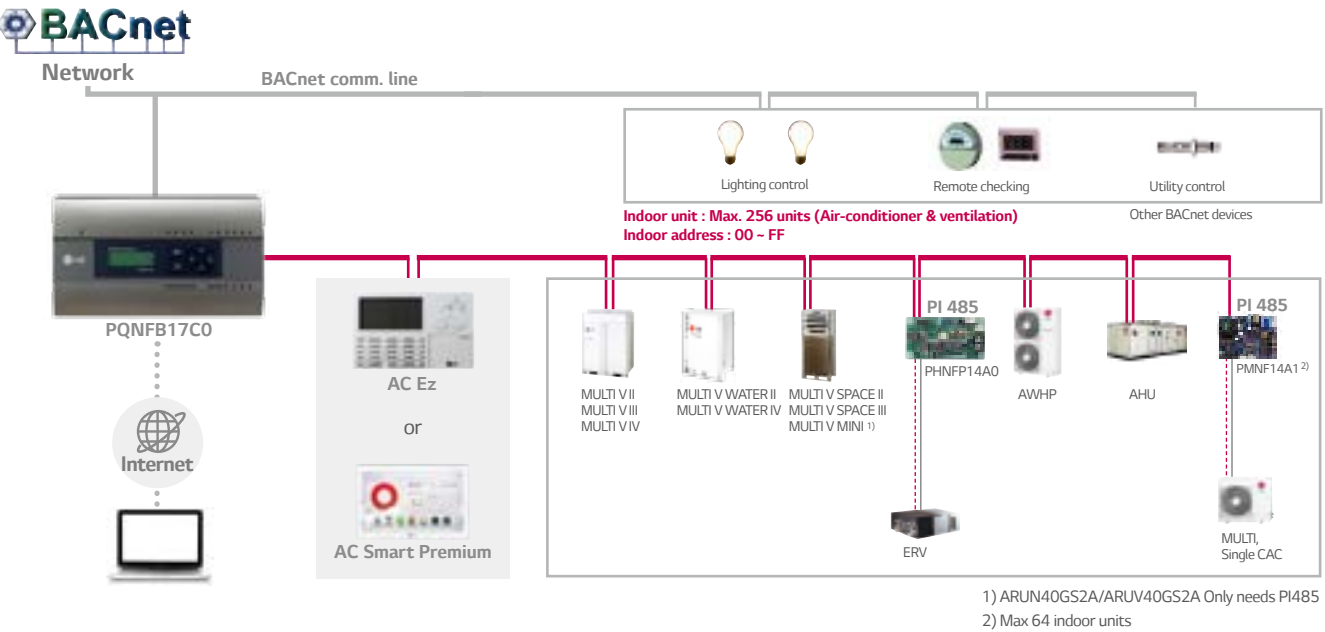
Features

- Through embedded web control function in BACnet ,one can access the air conditioner and external devices through BMS (Building Management System)
- ACP (Advanced Control Platform) New platform & Smart base GUI driven.
- Max 256 unit (Indoor / ERV / ERV DX / Hydro kit / AWHP, AHU).
Max number of AHU is 16.
- It is 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.
- Supporting a 1°F control.
- BTL certification (B-ASC)
- It offers ACP (Advanced Control Platform) function (Central Controller) which allows the customer to efficiently control various types of equipment from the customer's own PC.

Controlling	Monitoring items
On/Off command	On/Off status report
Operation mode setting	Operation mode status report
Fan speed setting	Fan speed status report
Lock setting	Lock status report
Air flow setting	Air flow status report
Set temp. setting	Set temperature status report
-	Current Space temperature status report
-	Error status report
User mode setting (for only ERV)	User mode status report (for only ERV)
-	Accumulator power distribution status report
Upper limit temp. setting	Upper limit temperature status report
Low limit temp. setting	Low limit temperature status report
Mode lock setting	Mode lock status report
AC operation mode setting (ERV DX only)	AC operation mode status report (ERV DX only)
AC On/Off command (ERV DX only)	AC On/Off status report (ERV DX only)

* For more information, see 158 page

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
 - ERV



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

DO KIT (DIGITAL OUTPUT 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.)



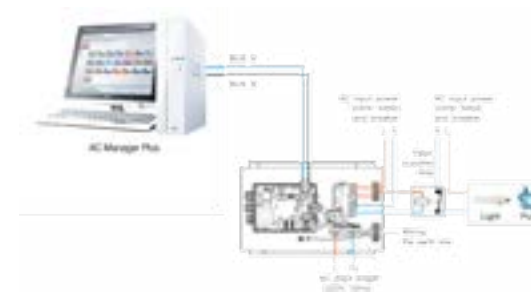
1. Pull out the power or shut down the breaker.
2. Connect the power line from the breaker to the additional relay cable.
3. Connect the device power line to the additional relay cable.
4. Finish the connected area with the insulating tape.

- 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 thru 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.

KNX GATEWAY

Specially designed to allow monitoring and bidirectional control of all the parameters and functionality of LG air conditioners from KNX installations

* This product is provided by INTESIS. For more information, please contact INTESIS directly

LG-AC-KNX-4 LG-AC-KNX-16
LG-AC-KNX-8 LG-AC-KNX-64



Specifications

- Bidirectional: Monitoring and control.
- Robust and reliable hardware.
- Direct connection to KNX bus.
- Independent management of communications.
- Power supply: 9 to 24Vdc or 24Vac.
- Standard DIN-Rail 6 modules enclosure.

Models available

- Ref. LG-AC-KNX-4, with capacity of up to 4 indoor units.
- Ref. LG-AC-KNX-8, with capacity of up to 8 indoor units.
- Ref. LG-AC-KNX-16, with capacity of up to 16 indoor units.
- Ref. LG-AC-KNX-64, with capacity of up to 64 indoor units.

Link BoxEIB configuration software for IntesisBox® KNX series

Easy to use tool for the configuration of intesisBox, in a fast and effective way.
It offers the maximum integration possibilities with a minimal knowledge required on the system to be integrated.

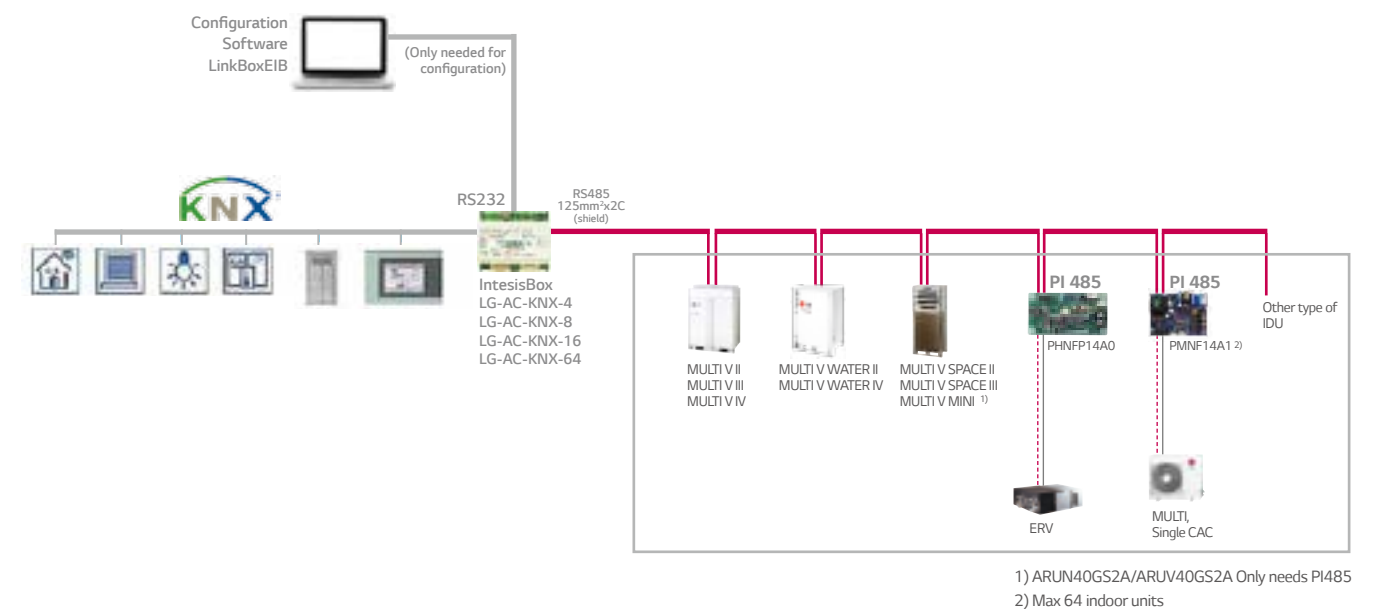


- Only needed during configuration.
- One single tool for the configuration of the whole range of IntesisBox KNX series gateways.
- Supplied with IntesisBox with no additional cost.
- Configuration examples for all systems that can be integrated.
- Mapping table editable using excel, allowing a simple and fast association of KNX Group Addresses, exported from ETS, to IntesisBox's datapoints.
- Includes powerful and useful features for configuration, setup and troubleshooting.

Main features

- Easy installation, direct connection to all outdoor units (communication interface PMNFP14A1, when needed) and Heat recovering units (communication interface PHNFP14A0, when needed) through the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.

Combination



ACS

ELECTRONIC ACC.

PDI Premium
(Power Distribution Indicator)



> Page 172

I/O Module
(Input / Output Module)



> Page 179

Independent
Power Module



> Page 182

Cool / Heat Selector



> Page 184

Zone Controller



> Page 186

Dry Contact



> Page 174

Variable Water Flow
Control Kit



> Page 180

Remote Temperature
Sensor



> Page 183

Group Control Wire



> Page 185

AHU Kit
(Air Handling Unit)



> Page 188



PDI PREMIUM (POWER DISTRIBUTION INDICATOR)

For Multi Split, total power consumption is displayed

PQNUD1S40



Features

- Connection to max 8 outdoors.
- 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	Wattmeter number
ID - 01 :		0	W	Overall instantaneous power of P(1) wattmeter
ID - 02 :		0	W	Instantaneous power of each applicable indoor unit
ID - 03 :		0	W	Each indoor unit number

Total accumulated power consumption display

Shows accumulated power consumption of the system.

ACCUM (P1)	0 . 0kWh	Wattmeter number
ID - 01 :	0 . 0kWh	Overall accumulated power of P(1) wattmeter
ID - 02 :	0 . 0kWh	Accumulated power of each applicable indoor unit
ID - 03 :	0 . 0kWh	Each indoor unit number

Error display

Shows accumulated power consumption of the system.

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

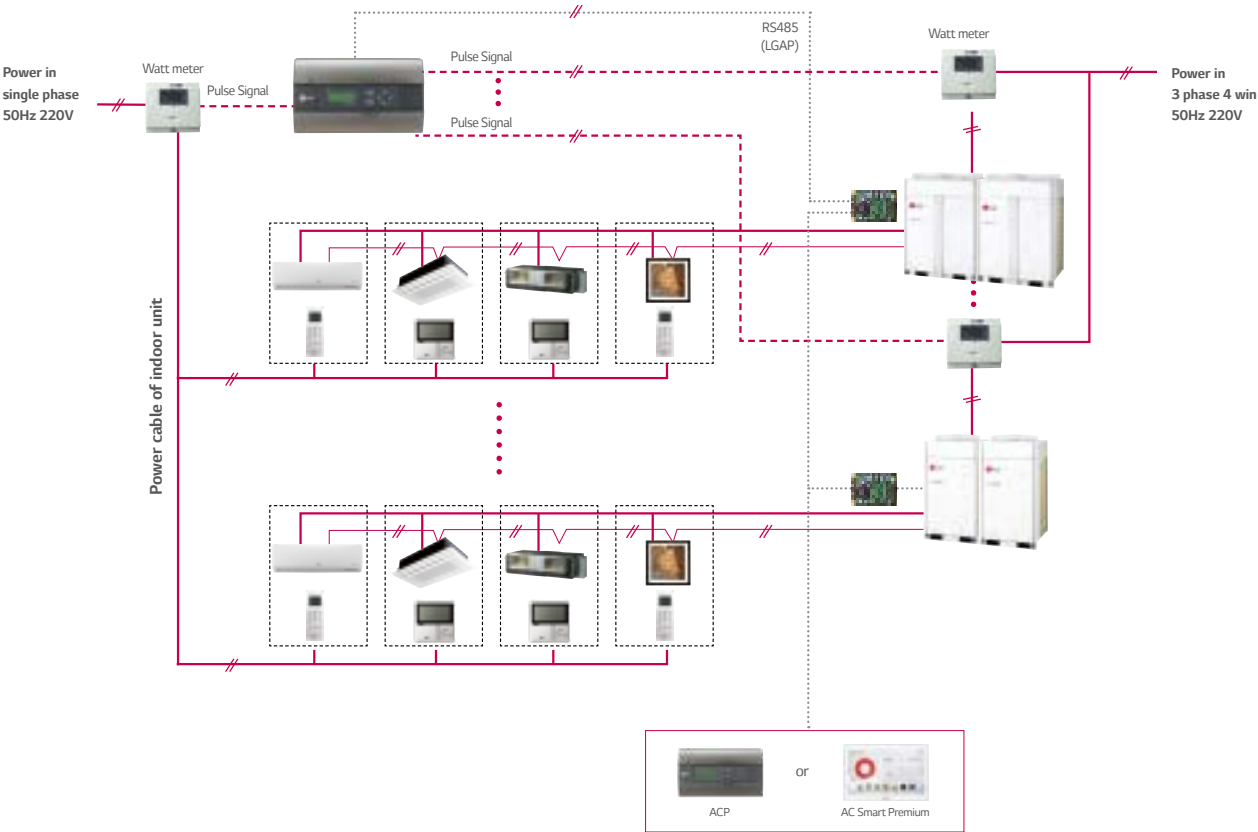
If communication with the product is not smooth

ERROR - 02
NO SIGNAL FROM WHM1

If no power detection signal is available

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
PQDSB
PQDSBC

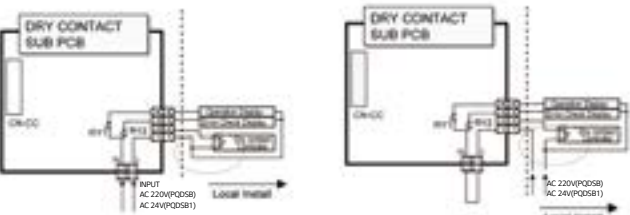


Features

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

* Refer to each model block for applicable models.
* With case model : PQDSB , PQDSBC / Without case model : PQDSA

PQDSA , PQDSB



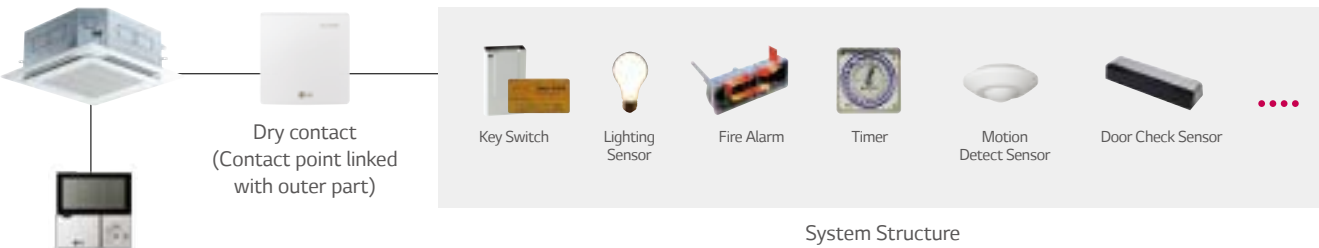
To apply power source through PCB
To apply power source directly to external source

PQDSBC



In case Non Voltage signal
In case Voltage signal

Combination



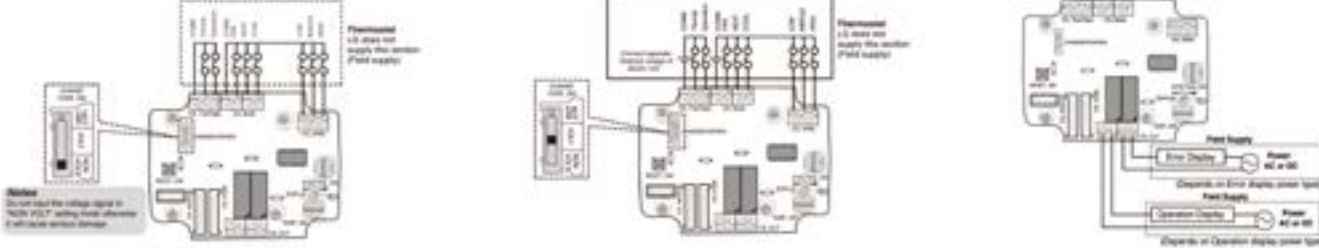
PQDSBNGCM1



Features

Model name	PQDSBNGCM1
Dimensions (W X H X D, mm)	105 x 78 x 35
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
Rotary switch 1	Operating set temperature 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

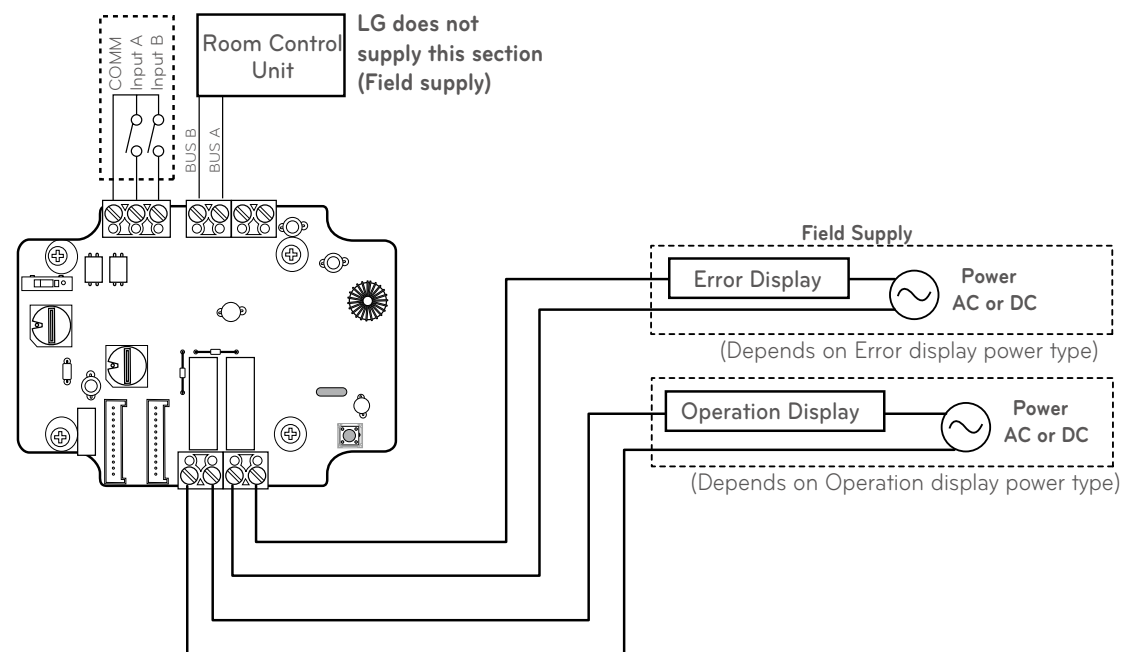
- Applied Model : MULTI V II, MULTI V III, MULTI V IV

- 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

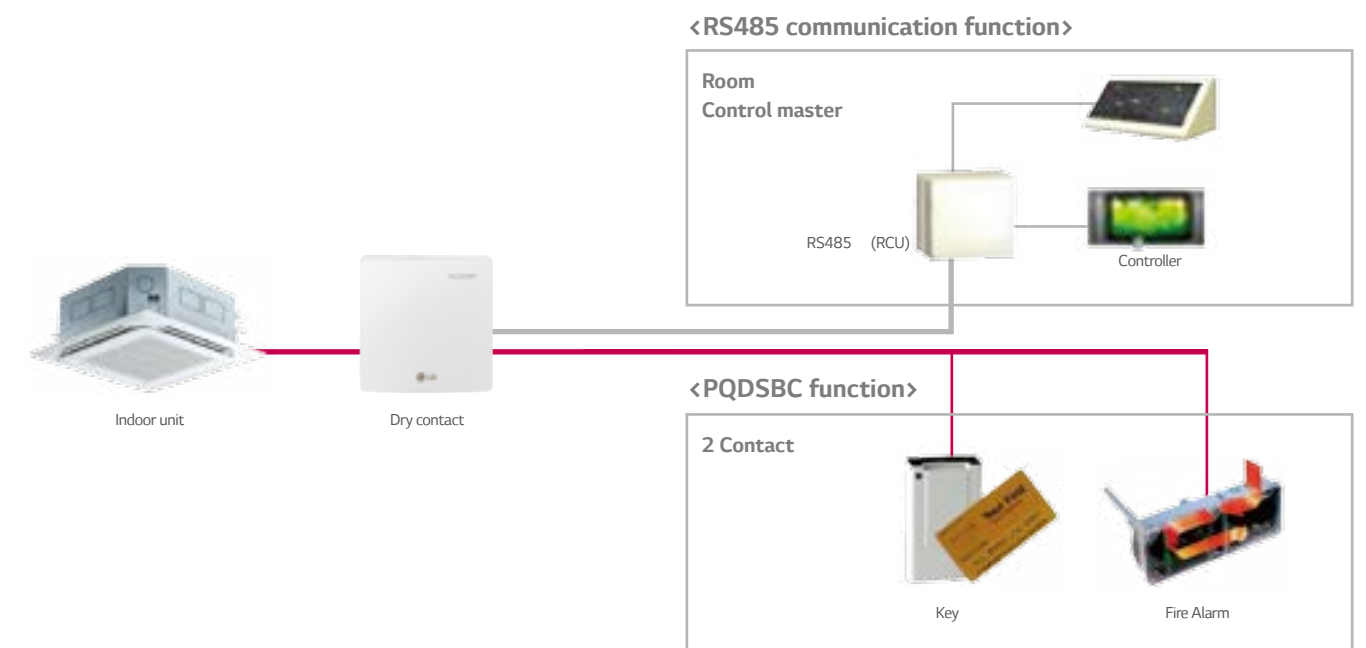
The product is especially designed for interface with other controllers using dry contact communication or RS485 communication.



Combination

RS485 Communication function.

* RCU : Room Control Unit.



OUT DOOR UNIT DRY CONTACT

Dry contact for demand control

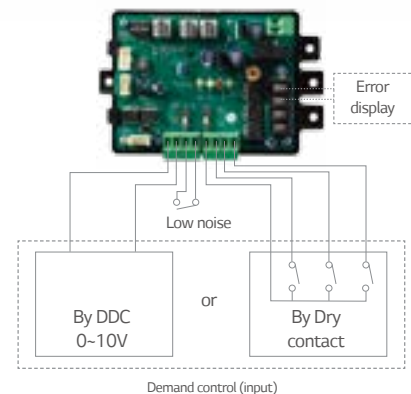
PQDSBCDVM0



Features

- 1) Model name : PQDSBCDVM0
- 2) Specification
 - Applied Model : MULTI V MINI, MULTI V SPACE II, MULTI V WATER II, MULTI V WATER S
- Function
 - Demand control (3 contact signal)
 - Demand control (Co-work with DDC)
 - ODU fan low speed control (Night low noise operation)
 - All Off
 - Error Output (Display)
- 3) Description

The product is especially designed for demand control.



Combination



I/O MODULE (INPUT / OUTPUT MODULE)

UART to external device interface module for system air conditioner

PVDSMN000

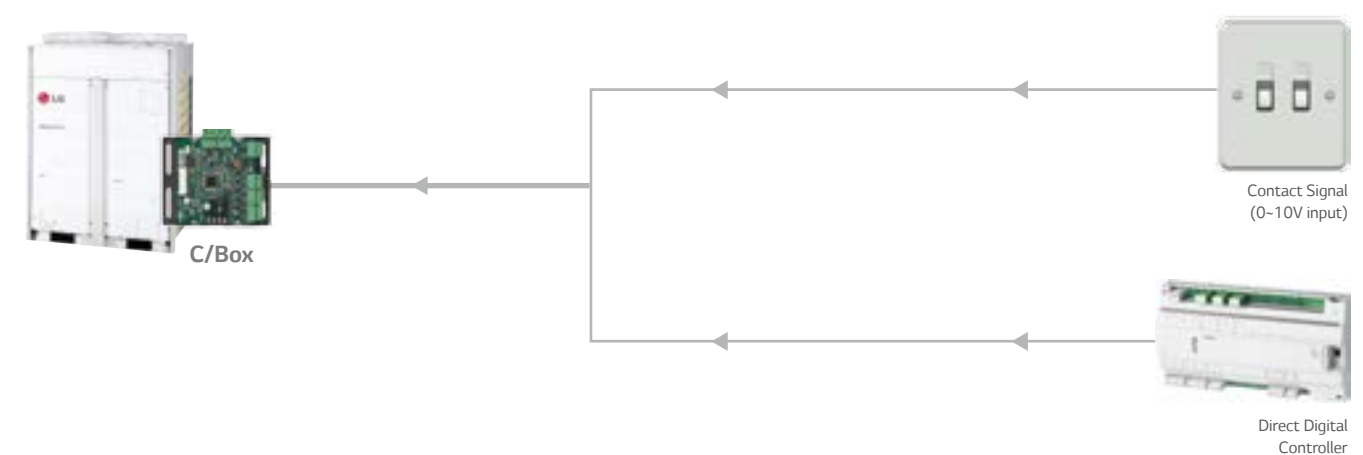


Features

- 1) Model name : PVDSMN000
- 2) Specification
 - Applied Model : MULTI V IV, MULTI V WATER IV
- Function
 - Demand control
 - Low speed control (Night low noise operation)
 - Operation, error output
 - Comp off, system off
- 3) Description

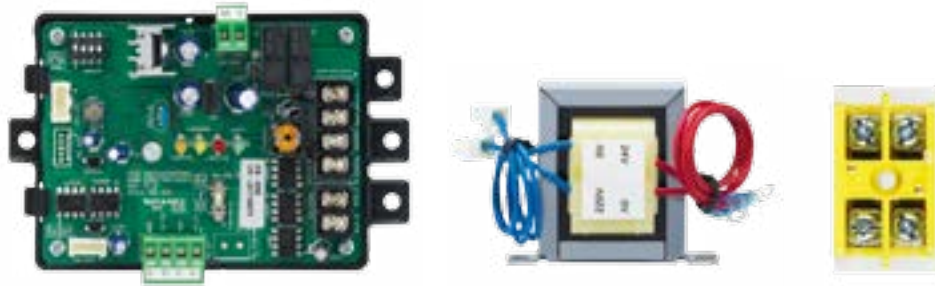
I/O (Input / Output Module) Module is communication interface module for connection between Multi V IV and external I/O (Input / Output Module) devices.

Combination



Accessory developed for controlling the water flow

PRVCO



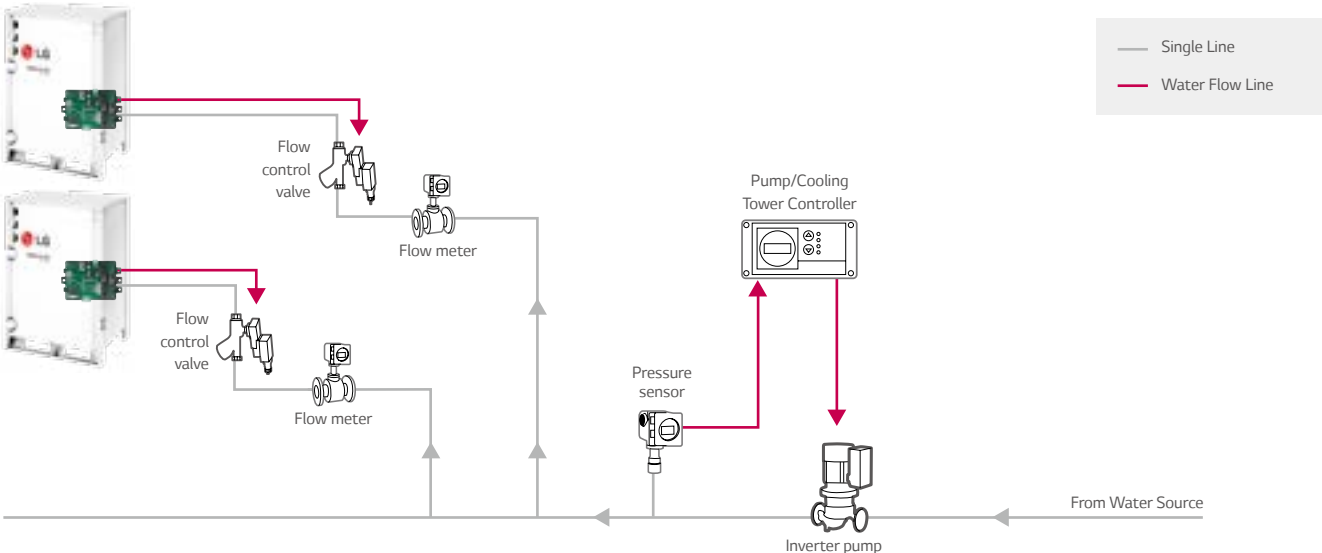
Features

- 1) Model name : PRVCO
- 2) Specification
 - Applied Model : MULTI V WATER II
 - 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.

PWFCKN000



Features

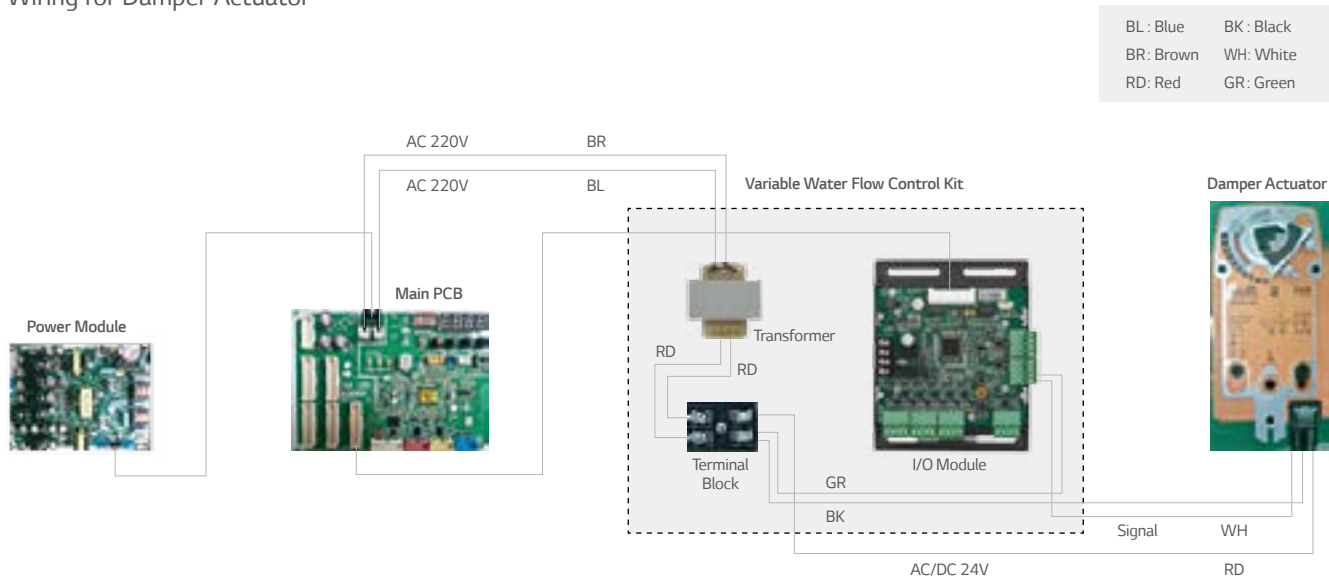
- 1) Model name : PWFCKN000
- 2) Specification
 - Applied Model : MULTI V WATER IV
 - Function
 - Water pump valve control (0~10V)
 - Minimum voltage setting available
 - Operation, error output (display)
 - Advantage
 - Water flow consumption reduction
 - Pump electricity consumption reduction
 - Including I/O module (Dry contact input, Analog input/output, Digital output)
 - : Using Dry contact and variable water flow control function simultaneously

3) Description

- Dry contact input and analog output for demand control
- Analog output for controlling third party devices such as valve actuator and damper actuator (Max. 3 actuator)
- Digital output for connecting status display devices

Wiring Diagram

Wiring for Damper Actuator



INDEPENDENT POWER MODULE

EEV full close function in case of power cut

PRIP0

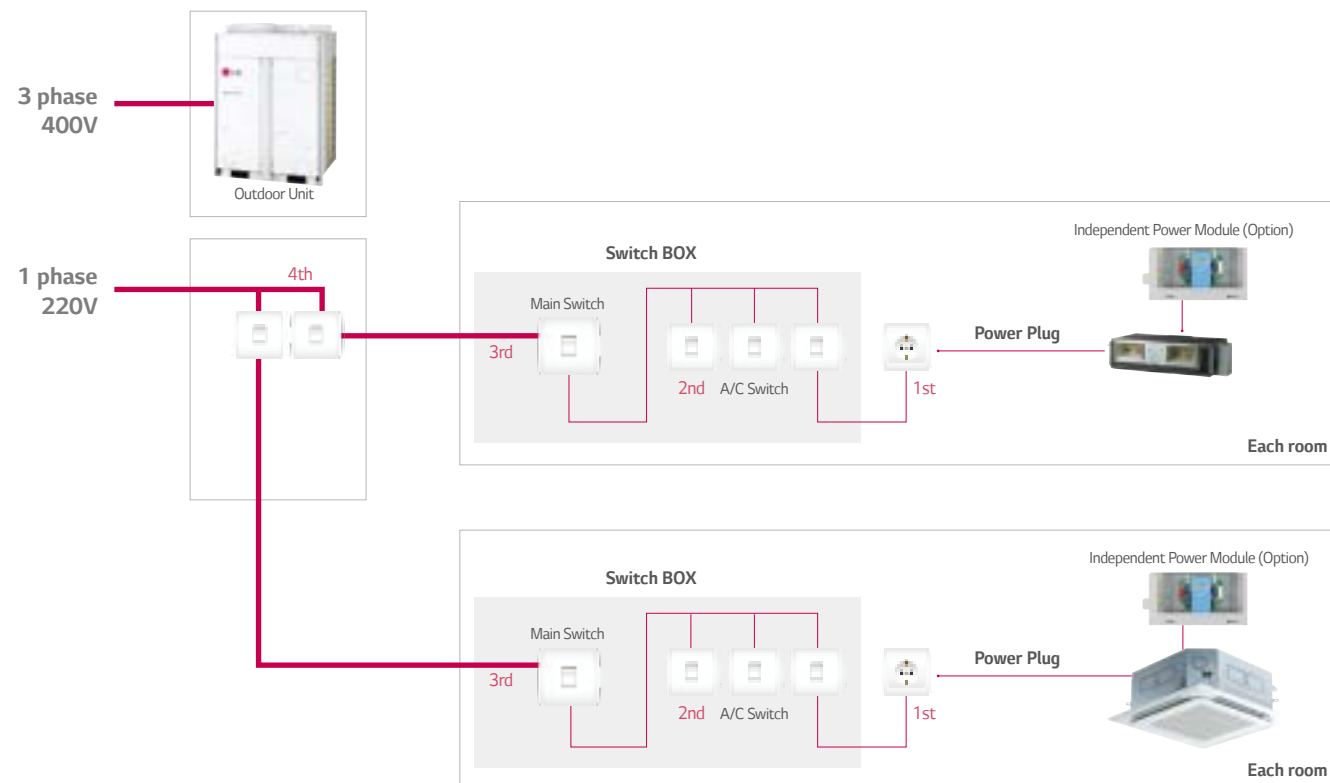


Features

- 1) Model name : PRIP0
- 2) Specification
 - Applied Model : MULTI V Indoor
 - Function
 - Supply Voltage : DV12V $\pm$ 5%
 - Indoor EEV full close at power cut-off
- 3) Description

The product is specially designed to close the Indoor EEV at power cut-off.

Combination



REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature

PQRSTA0



Features

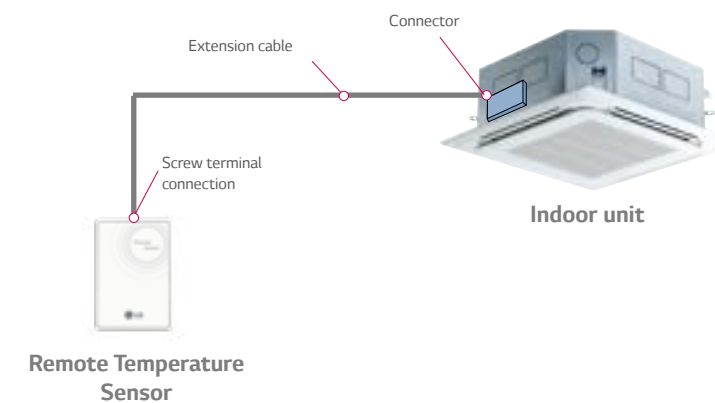
- It can help to detect the exact room temperature.
- Applied to ceiling cassette, ceiling concealed duct, AWHP and Hydro Kit.

Parts Included

- Remote temperature sensor
- Extension cable (15m)
- Manual

Wiring Diagram

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



COOL / HEAT SELECTOR

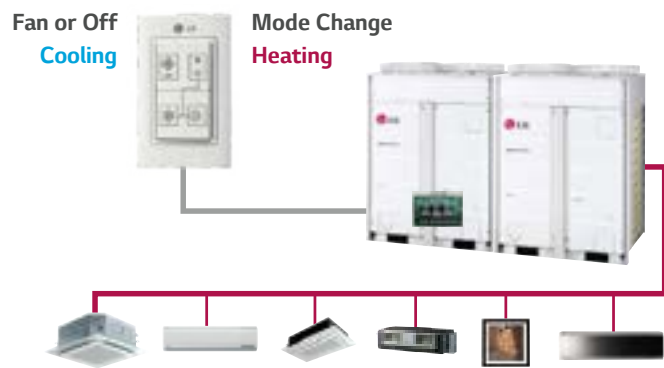
Cooling, heating, or fan mode can be selected to prevent cooling and heating mixing errors during seasonal changes

PRDSBM



Features

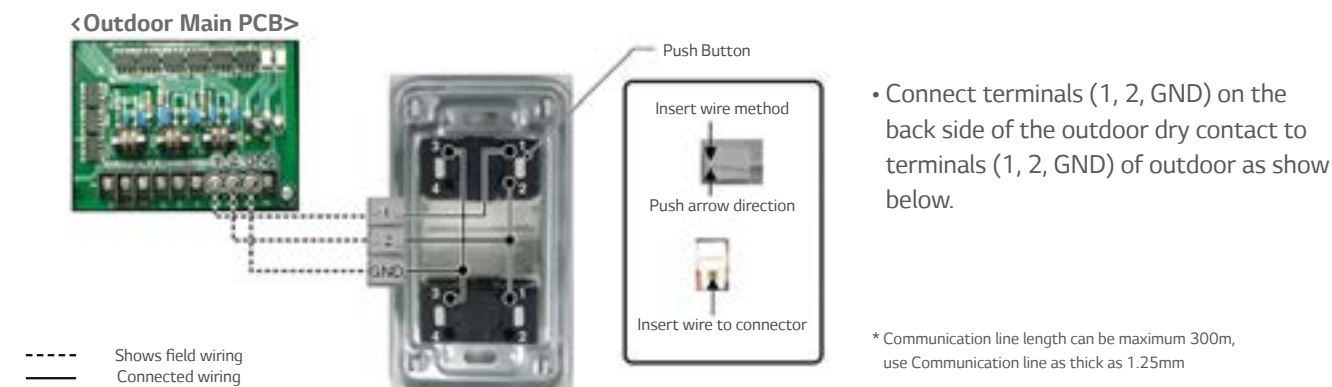
- Indoor unit control without central controller.
- Select operation mode : Cooling, Heating, Fan mode.
- Mode lock for cooling & heating mixing error-proof during the change of season.



Models Applied

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

Wiring Diagram



GROUP CONTROL WIRE

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

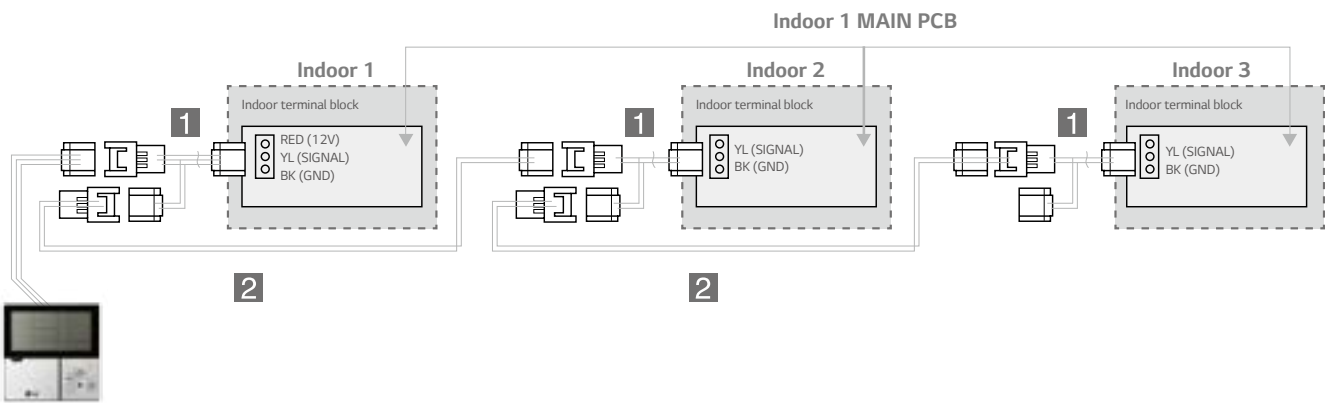
PZCWRCG3



Features

Model name	PZCWRCG3
Y-Type Cable	25cm length
Long Cable	9.6m length

Wiring Diagram

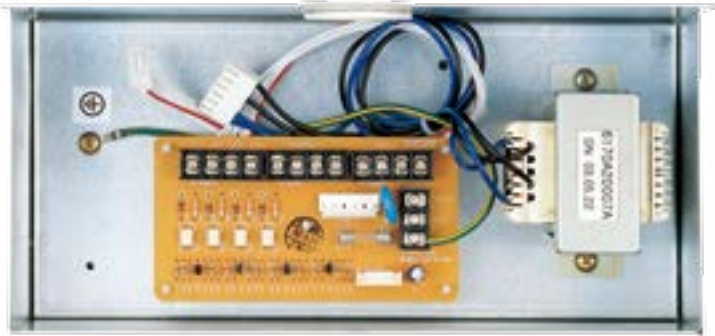


- Note
- 1 Cable assembly for indoor units.
 - 2 Cable assembly for connecting indoor to indoor.
- Please connect cable assembly 1 with already connected indoor unit.

ZONE CONTROLLER

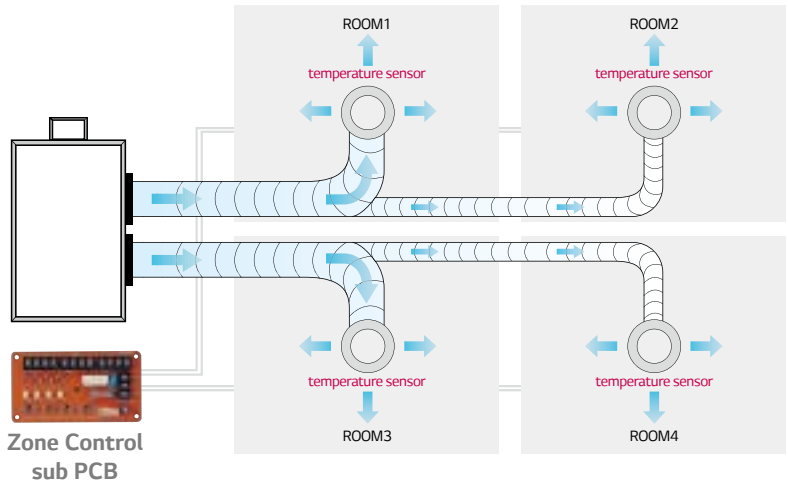
Controls air conditioning in up to 4 zones

ABZCA



Features

- Controls different zones (up to 4 zones)
- Maintain proper temperature of each zone.
- Auto variation of dampers.
- Auto control of fan speed.



Models Applied

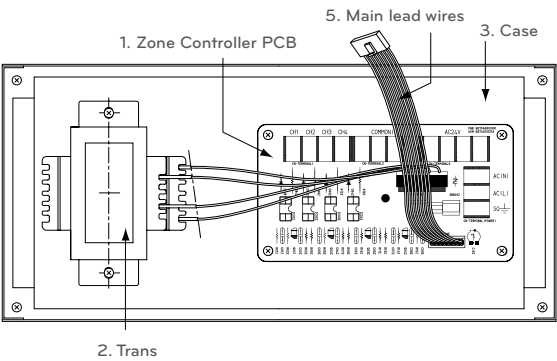
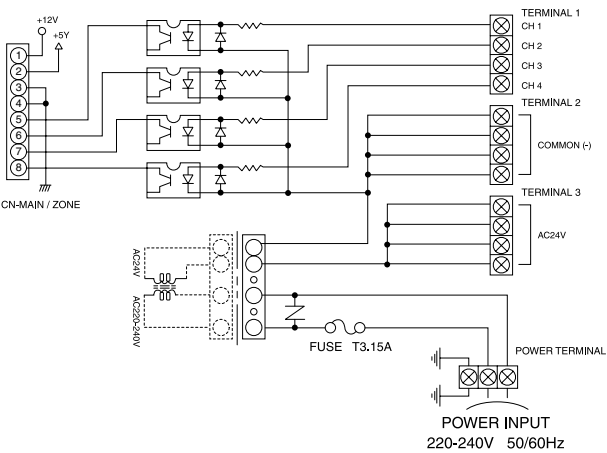
- Ceiling Concealed Duct (High Static Pressure)

* Refer to each model PDB for applicable models

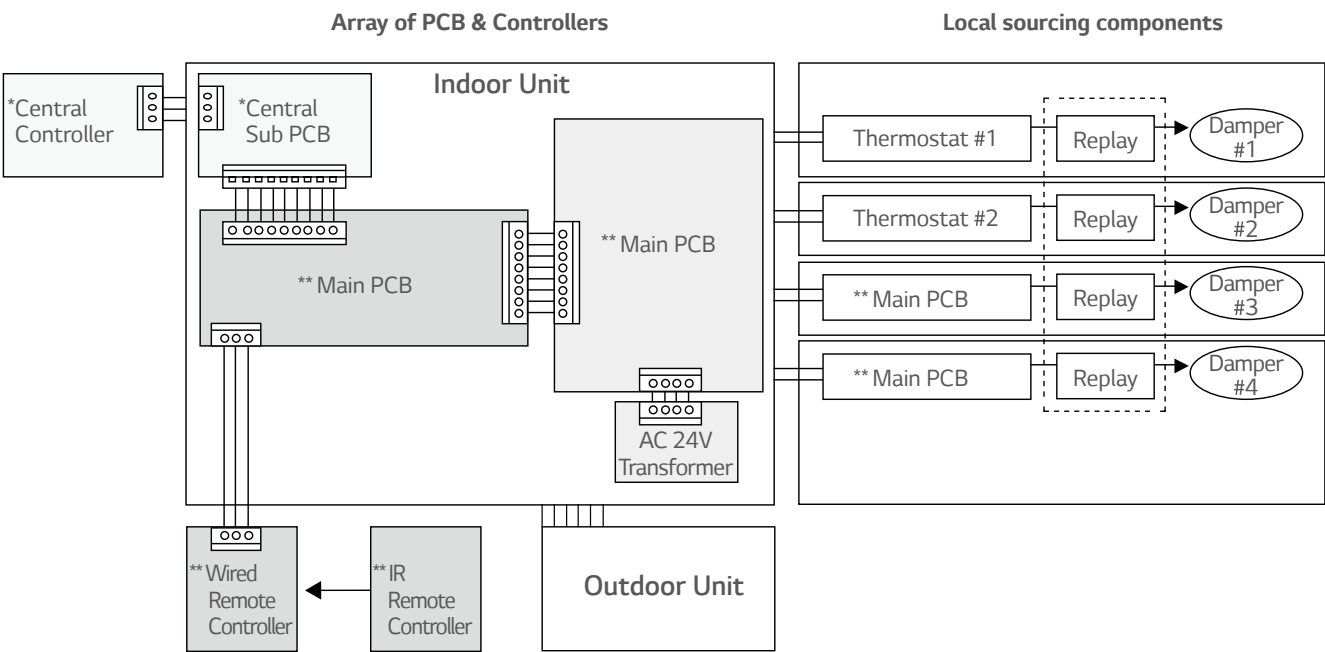
Parts Included

- Ceiling Concealed Duct (High Static Pressure)
- Purchased locally (reference siemens, honneywell)
 - Damper Motor
 - Thermostat
 - Damper
- Factory supplied
 - Zone controller PCB (1EA)
 - Transformer (1EA)
 - Case (1EA)
 - Cover (1EA)
 - Main lead wires (1EA)
 - Screws (1EA)
 - Holder (4EA)
 - Installation manual (1EA)

Wiring Diagram



Components



AHU KITS (AIR HANDLING UNIT KITS)

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



Specification

Type	Model name	Control	Comments	Dimensions(mm)		
				W	H	D
Communication kit	PUCKA0	For SINGLE CAC - Self sufficient	No EEV or Expansion Kit need	280	135	280
	PRCKA0	For MULTI V - Self sufficient	EEV Kits or Expansion Kit	280	135	280
	PRDCA0	For MULTI V - Controlled by DDC	EEV Kits or Expansion Kit	330	180	430

Type	Model name	Control	Max Capacity	Dimensions(mm)		
				W	H	D
Control.Kit	PRCKD21E	For MULTI V - Total AHU control	1~4 ODU	600	750	285
	PRCKD41E	For MULTI V - Total AHU control	5~8 ODU	600	750	285

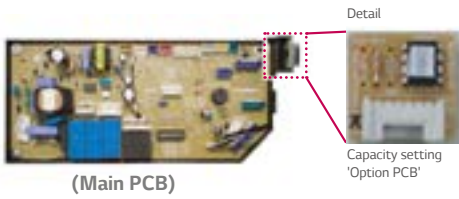
Type	Model name	Control	Max Capacity	Dimensions(mm)		
				W	H	D
EEV Kit	PRLK048A0	For MULTI V - In combination with AC system or stand alone(with 1xODU)	28.1kW	404	83	217
	PRLK096A0	For MULTI V - In combination with AC system or stand alone(with 1xODU)	56.2kW	404	83	217

Type	Model name	Control	Max Capacity	Dimensions(mm)		
				W	H	D
Expansion Kit	PATX13A0E	For MULTI V - Stand alone(with 1xODU)	ODU Capacity : 8~16HP(23~46kW)	238	169	491
	PATX20A0E	For MULTI V - Stand alone(with 1xODU)	ODU Capacity : 18~26HP(52~75kW)			
	PATX25A0E	For MULTI V - Stand alone(with 1xODU)	ODU Capacity : 28~36HP(82~104kW)			
	PATX35A0E	For MULTI V - Stand alone(with 1xODU)	ODU Capacity : 38~46HP(110~133kW)			
	PATX50A0E	For MULTI V - Stand alone(with 1xODU)	ODU Capacity : 48~56HP(139~163kW)	291	192	561

Selection of Evaporator

For SCAC

When selecting evaporator, change 'Option PCB' in Control kit according to below table (Basic 'Option PCB' is for 24k Btu/h)

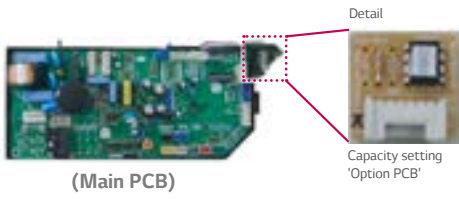


Capacity (Btu/h)	Allowed heat exchanger capacity (kW)	Air flow rate (CMM)
18K	5~6	18~21
24K	6~7	20~23
30K	7~9	22~26
36K	9~11	25~32
42K	11~13	31~35
48K	13~16	33~45
60K	20~24	42~55

* Saturated Suction Temperature (SST) = 6°C, SH (Superheat) = 5k, Air Temperature = 27°C DB / 19°C WB.

For MULTI V

- When selecting evaporator, change 'Option PCB' in Control kit according to below table (Basic 'Option PCB' is for 36k Btu/h)
- After checking the need capacity, remove the 192k Option PCB equipped in the main PCB, and set up the Option PCB fitted the need capacity in the main PCB.



Model name	Option PCB P/No	Capacity (Btu/h)	Maximum heat exchanger capacity(kW)	Air flow rate (CMM)
PRLK048A0	EBR52358907	28k	8.6	22~26
	EBR52358908	36k	11.0	25~32
	EBR52358909	42k	13.8	31~35
	EBR52358910	48k	15.4	33~45
	EBR52358911	76k	22.2	50~64
	EBR52358912	96k	28.1	64~72
PRLK096A0	EBR52358914	115k	33.7	72~88
	EBR52358915	134k	39.3	88~103
	EBR52358916	155k	45.4	103~116
	EBR52358917	172k	50.4	114~129
	EBR52358913	192k	56.2	121~137

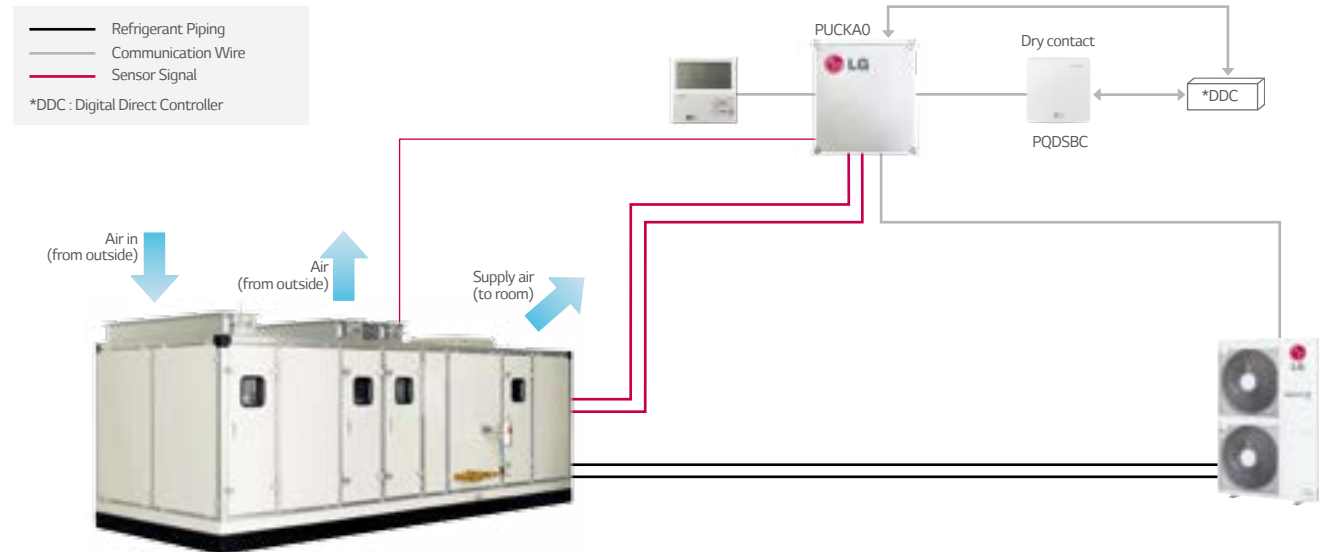
* Evaporator saturated temperature = 6°C, SH (Superheat) = 5K, Air Temperature = 27°C DB / 19°C WB.

AHU KITS (AIR HANDLING UNIT KITS)

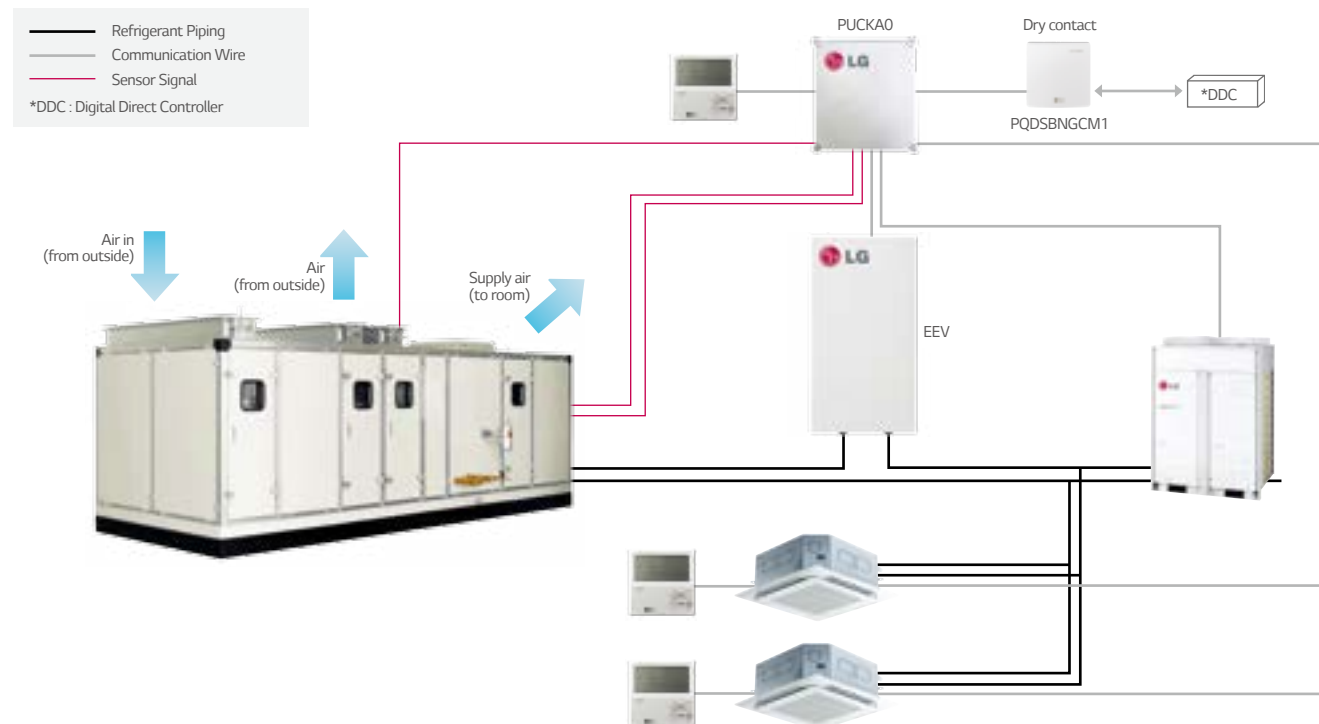
Solution to connect LG outdoor unit on the DX coil of an air handling unit, with LG's high efficient products for maximum cost saving

Combination

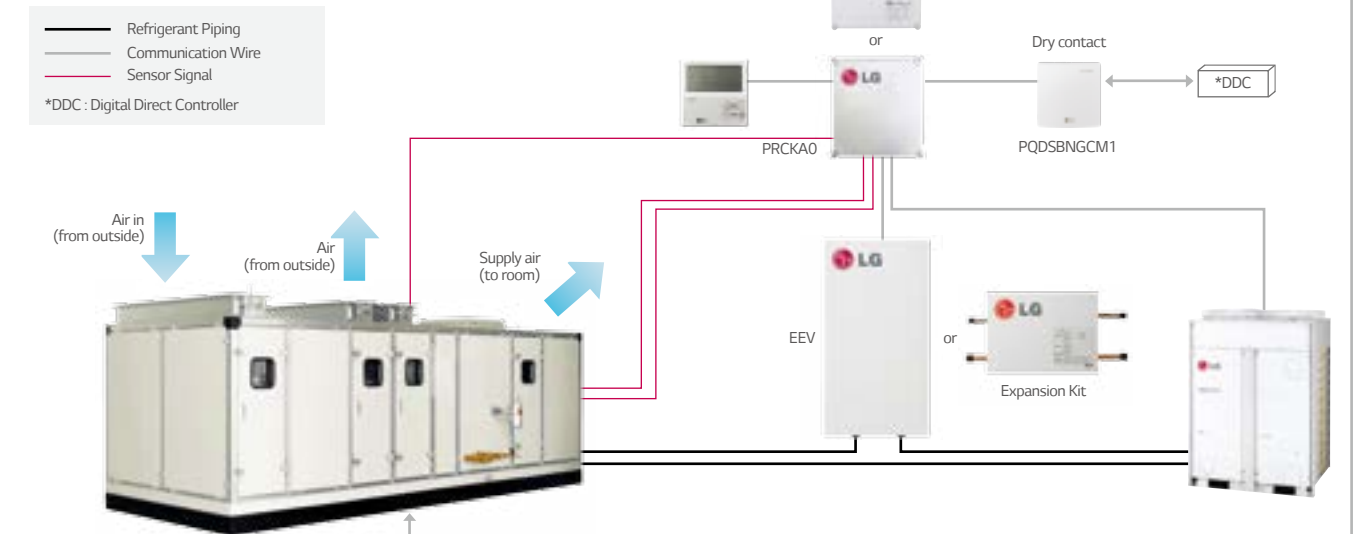
• SCAC Application



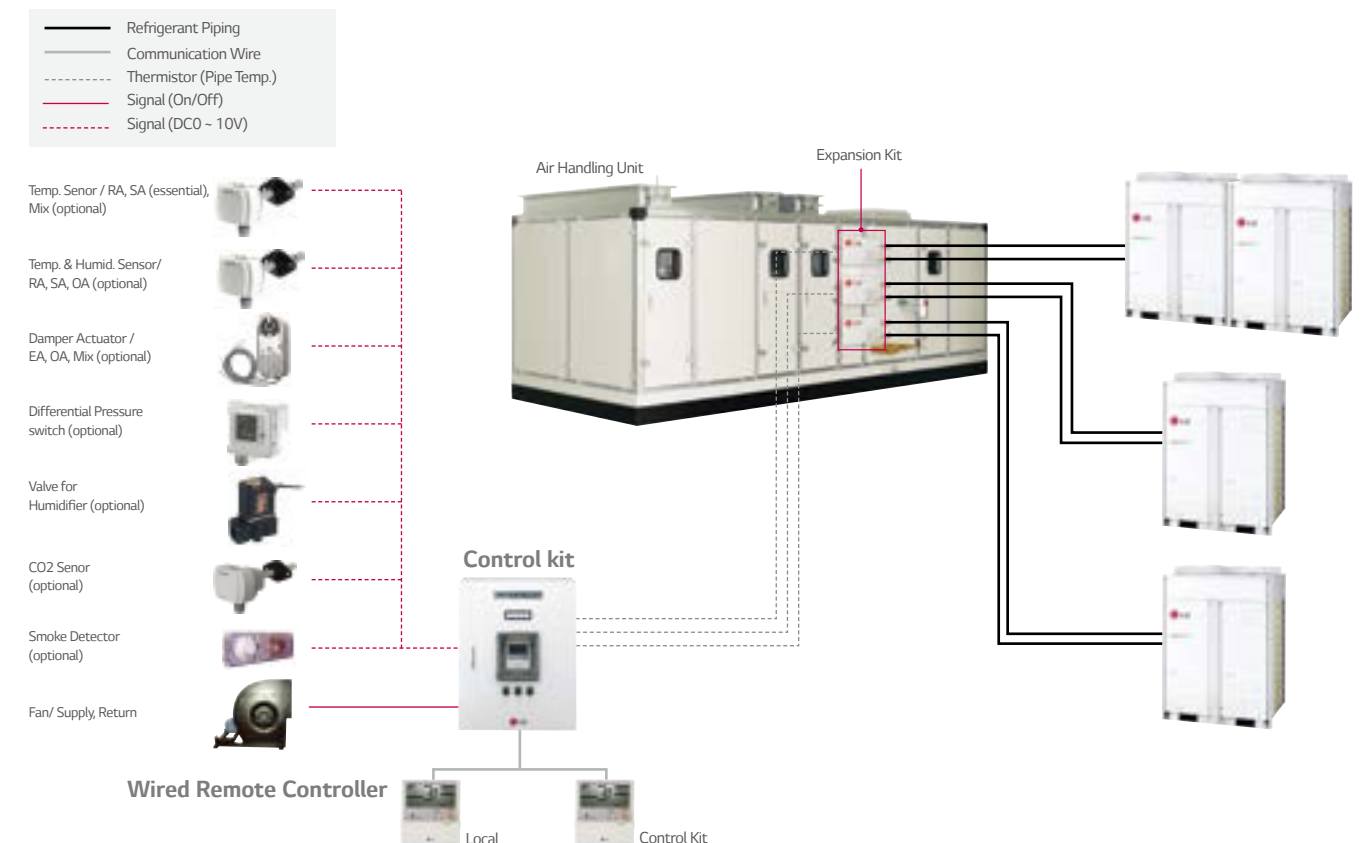
• MULTI V Application (in combination with AC system)



• MULTI V Application (Stand alone)



• MULTI V Application (Total AHU control for medium to large capacity)



MECHANICAL ACCESSORIES

Drain Pump Kit



> Page 194

Suction Grille / Canvas



> Page 196

Auto Elevation Grille



> Page 198

Plasma Kit



> Page 199

Ventilation Kit (Fresh kit) for New Cassette



> Page 200

Cassette Cover



> Page 201

Air Guide



> Page 202

Mechanical Accessories Line up and Application

Communication kit	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
Suction Grille / Canvas	-	-	O	Ceiling concealed duct (Built-in)
Auto Elevation Grille	O	-	O	4 Way Cassette
Plasma Kit	O	-	O	4 Way Cassette
Cassette Cover	O	O	O	4 Way Cassette
Air guide	-	-	O	Outdoor unit



DRAIN PUMP KIT

Drains away condensed water

ABDPE
ABDPG
ABDPT



Features

- In some places where natural drainage is not possible, a drain pump is very useful 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)

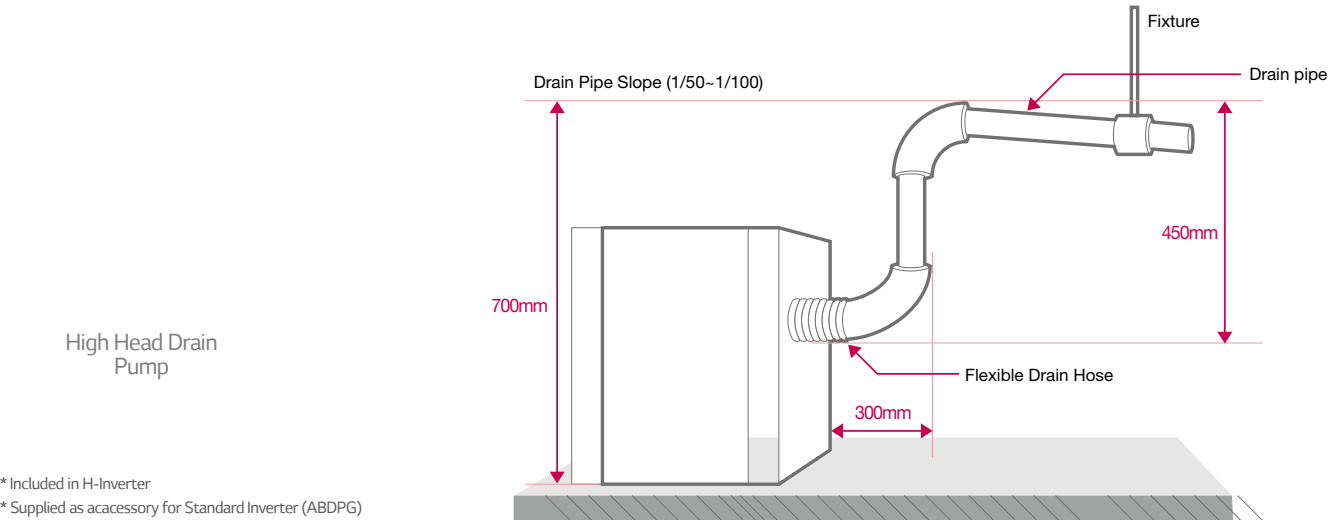
Accessory Model Name

- Ceiling concealed duct (refer PDB for applicable models)

Model name	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. It provides perfect solution for water drainage.



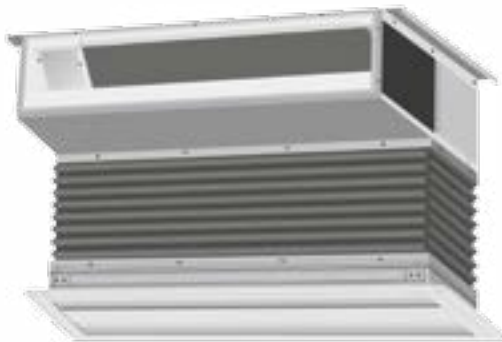
Parts Included

- For E Chassis Models :
 - Drain pump assembly (1 EA)
(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)

SUCTION GRILLE / CANVAS

High flexibility for a wide variety of applications

PBSGB30 PBSC30
PBSGB40 PBSC40



Features

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

Models Applied

- Ceiling concealed duct _ Built-in type (refer block for applicable model)

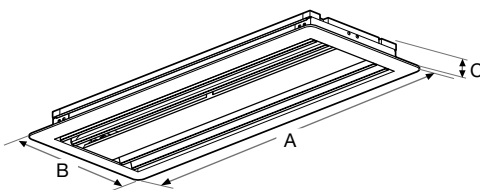
Accessory Model Name

Category	Model name	Capacity (Btu/h)					
		7K	9K	12K	15K	18K	24 K
Grille	pbsgb30	○	○	○	○	-	-
	pbsgb40	-	-	-	-	○	○
Canvas	pbsc30	○	○	○	○	-	-
	pbsc40	-	-	-	-	○	○

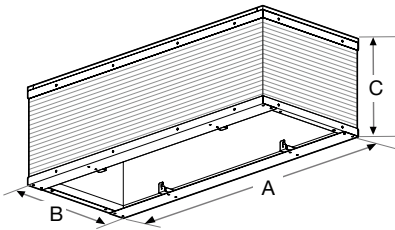
Parts Included

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

Dimensions

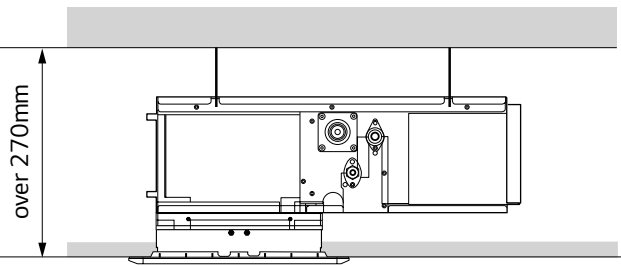
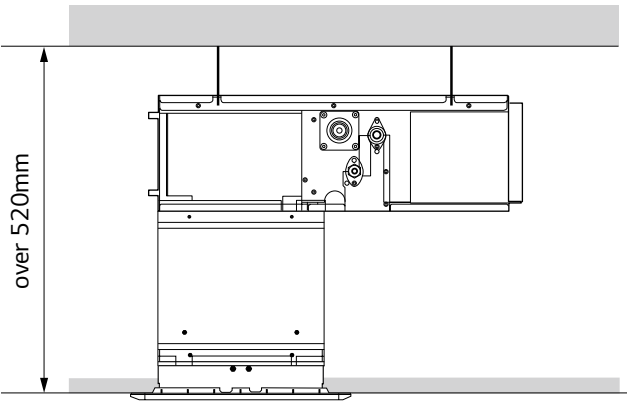


(Unit : mm)			
Model name	A	B	C
PBSGB30	910	359	56
PBSGB40	1188	359	56



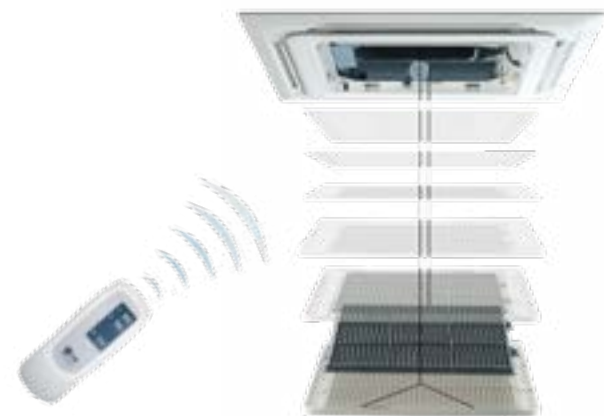
(Unit : mm)			
Model name	A	B	C
PBSC30	821	274	42-250
PBSC40	1100	274	42-250

Application



AUTO ELEVATION GRILLE

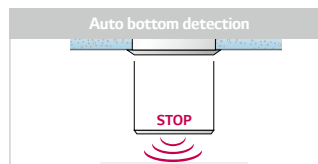
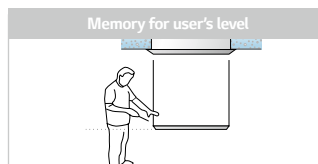
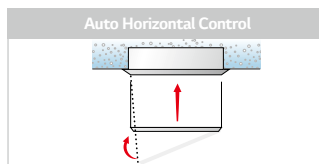
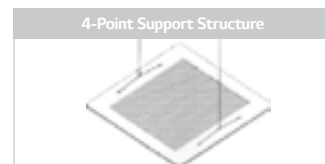
Easy filter cleaning with the elevation grille



PTEGM0

Features

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



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

Models Applied

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

Parts Supplied

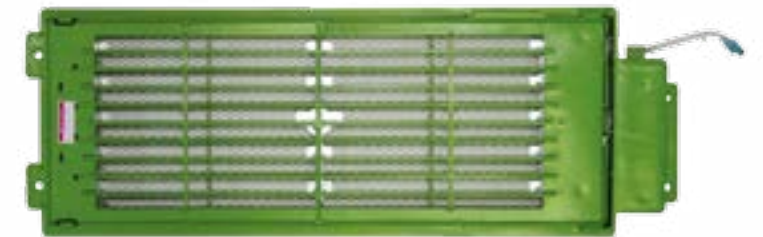
- Inlet Grille (1EA)
- Auto elevation grille kit (1EA)
- Wireless Remote Controller (1EA)
- Screws (4EA)
- Installation manual (1EA)

Application



PLASMA KIT

Air purifying filter to repel dust and allergens



PTPKM0
PTPKQ0

Features

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

Models Applied

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

Parts Supplied

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

VENTILATION KIT

Fresh air can be supplied from outside through this ventilation kit

PTVK410
PTVK420
PTVK430



Features

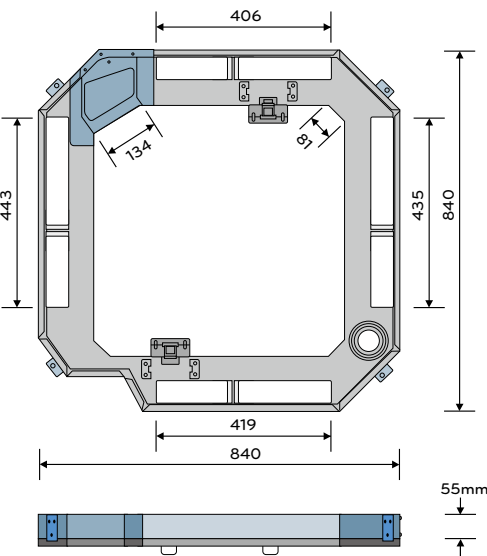
- PTVK410 : 1 Ventilation Kit, 8 Bolts, 1 Insulation
- PTVK420 : 1 Flange, 7 Screws
- PTVK420 : 1 Flange, 4 Screws, 1 Insulation

Models Applied

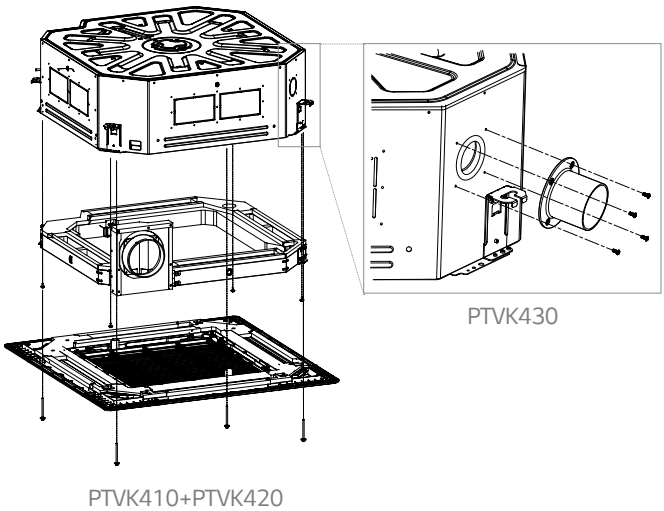
- There are 2 solutions for Fresh air
 - PTVK410+PTVK420 (for chassis TP, TN, TM)
 - PTVK430 (for chassis TR, TQ, TP, TN, TM)

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

Dimensions



Assembly Diagram



CASSETTE COVER

Air purifying filter to prevent dust and allergens

PTDCM
PTDCQ



Features

- Specially designed for indoor unit.
- Covers the side area of cassette.
- Gives elegant looks.
- 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)

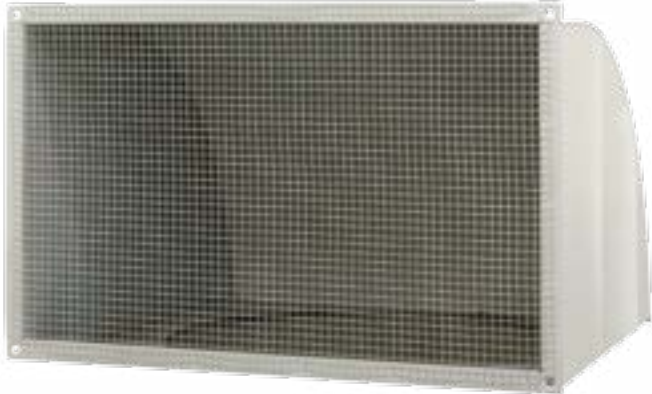
Accessory Model Name

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

AIR GUIDE

Air discharge in difficult to access areas

PRAGX*SO



Features

- Converts vertical discharge into horizontal discharge.
- Designed for outdoor discharge air.
- Direction of air discharge can be changed by simple installation.
- Installation flexibility.

Models Applied

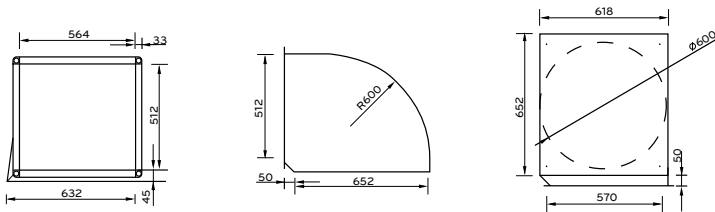
- MULTI V IV (UX2, UX3)

* In case of UX3, must purchase 2 units of PRAGX3SO.

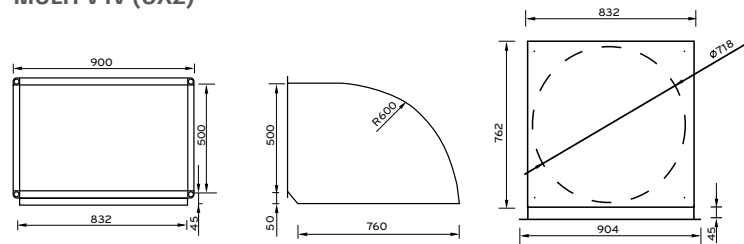
Dimensions

Model name	Gross Weight	Net Weight
PRAGX2SO	22.5kg	12.3kg
PRAGX3SO	17kg	9.4kg

MULTI V IV (UX3)



MULTI V IV (UX2)



Application



MULTI V IV (UX2)



MULTI V IV (UX3)

PIPING ACCESSORIES

Refrigerant charging Kit



> Page 205

Drain Hose



> Page 208

Y Branch & Header Branch(MULTI V)



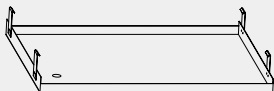
> Page 210

Stopper Valve



> Page 206

Drain pan



> Page 209

REFRIGERANT CHARGING KIT

Recharge refrigerant after a pump down or when refrigerant is either insufficient or excessive

PRAC1

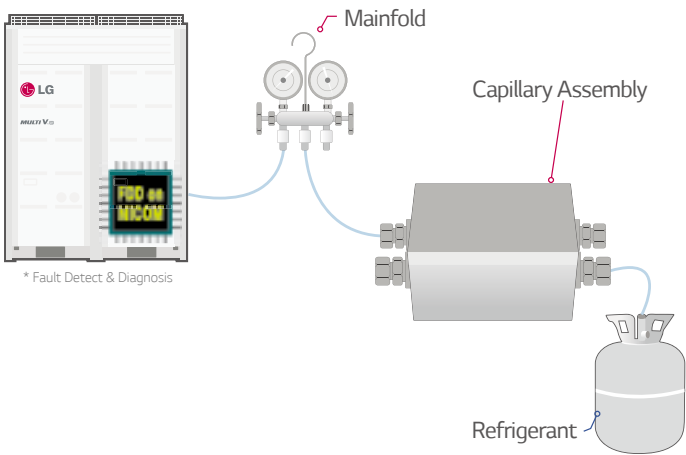


Procedure

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

Models Applied

- MULTI V III



Error Contents about Auto Refrigerant Charging Function

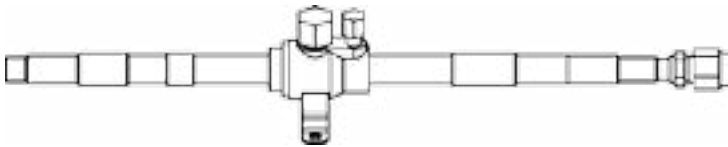
- "329" : Temperature Range Error (In case that indoor unit or outdoor unit is out of range)
- "339" : Low Pressure Descent Error (In case the system runs at low pressure limit for over 10 minutes)
- "349" : Rapid refrigerant inflow (In case the liquid refrigerant flows in because of not using designated capillary assembly)
- "359" : Instability Error (In case the high/low pressure target doesn't get satisfied for some time after the starting operation)

STOPPER VALVES

Under 1/2 (inch)
PRVT120

Under 9/8 (inch)
PRVT980

Under 7/8 (inch)
PRVT780



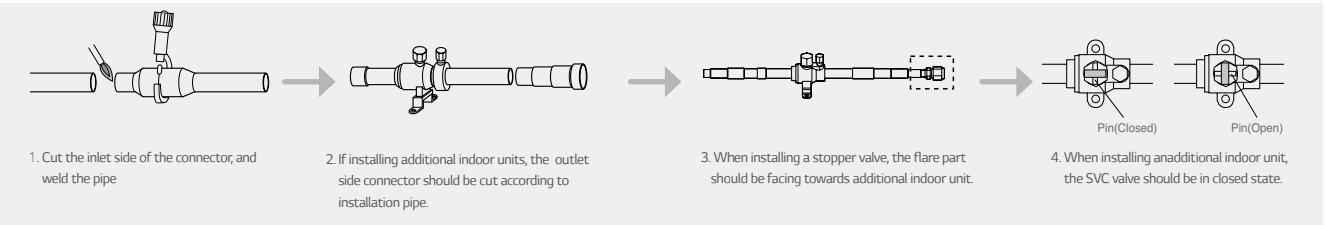
Features

Model name	Spec
PRVT120	
PRVT780	
PRVT980	

Usage

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

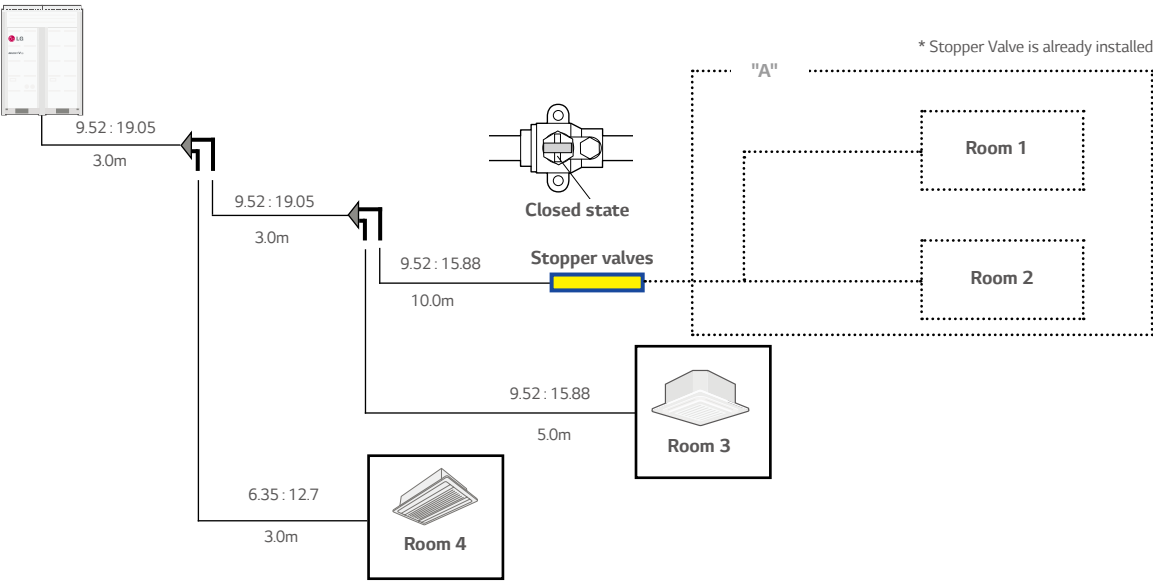
Installation



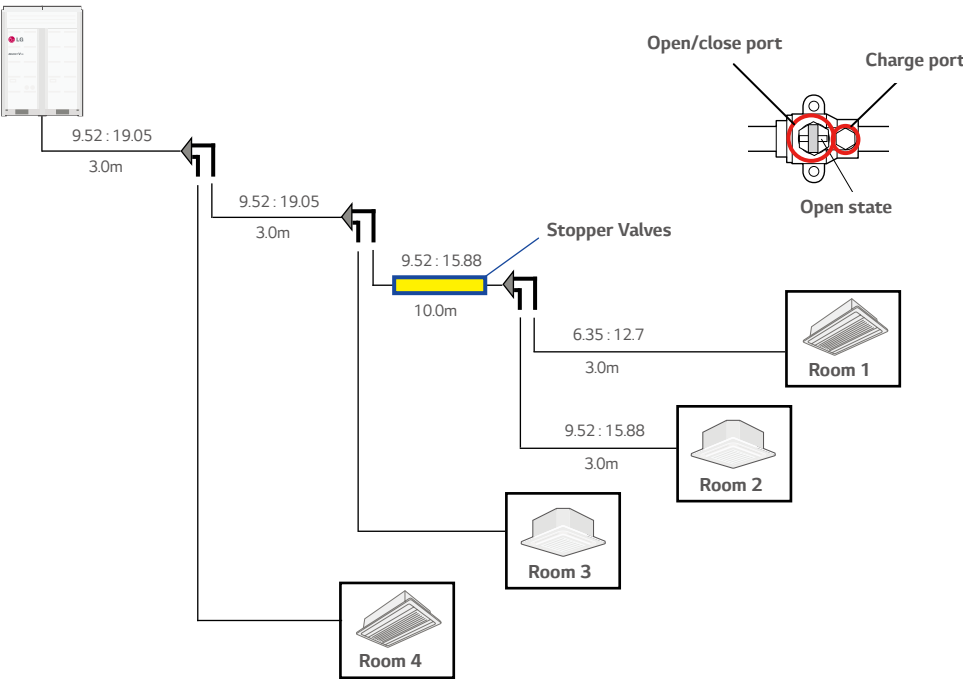
* When welding, service valve should be wrapped by wet cloth.

Details of Model Name

- case1
(Room 3 & 4 : in use / Room 1 & 2 : need to install indoor units)



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



DRAIN HOSE

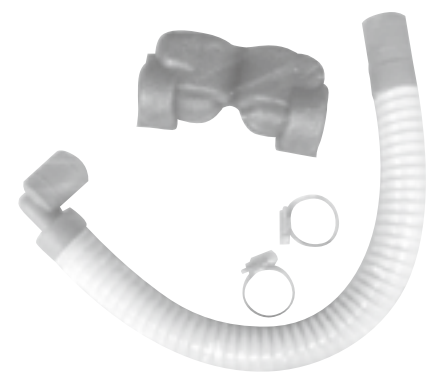
Easy drain installation

PHDHA05T

PHDHA07T

PHDHA05B

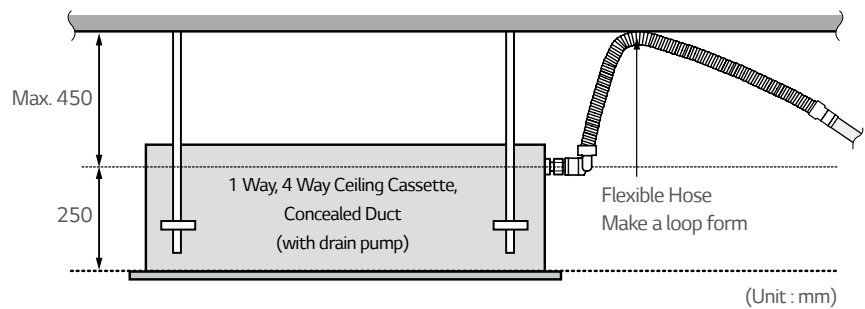
PHDHA07B



Features

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

Standard



Models applied to Ceiling Cassette,
Ceiling Concealed Duct.
(refer PDB for applicable model.)

Accessory Model Name

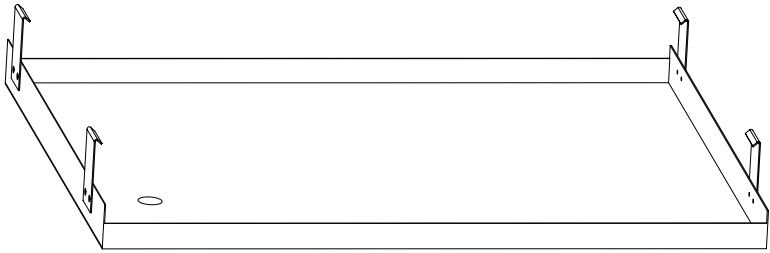
Model name	Length	Quantity
PHDHA05T	500mm	30EA
PHDHA07T	700mm	30EA
PHDHA05B	500mm	5EA
PHDHA07B	700mm	5EA

DRAIN PAN

Easy drain installation

PRODX20

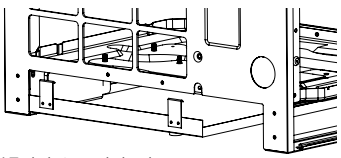
PRODX30



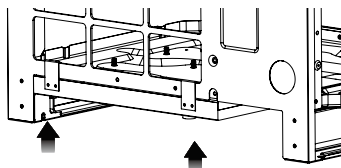
Features

This unit can be applied for outdoor unit's drain.

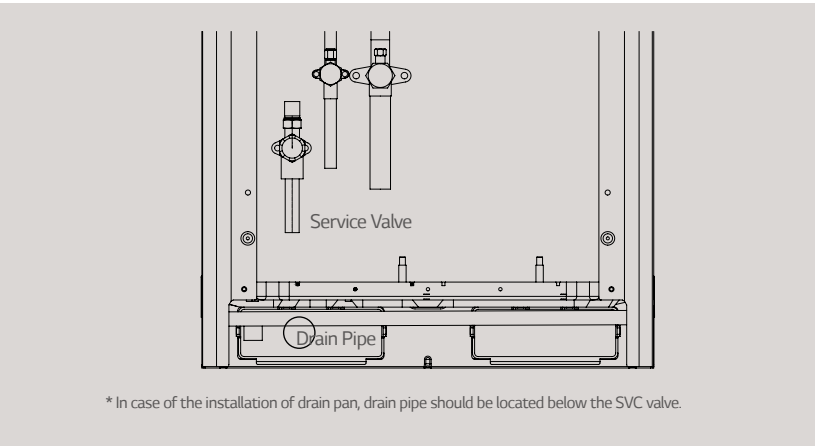
Installation



* Tuck drain pan below base pan



* Push drain pan in the direction of the arrow.
Brackets can be fixed on the side panel.



- This unit does not cover water drops of the outside product.
- Connect drain hose to drain pipe for drain condensate.

Accessory Model Name

Model name	L	Remark
PRODX20	920mm	UX2
PRODX30	1240mm	UX3

Y BRANCH AND HEADER BRANCH (MULTI V™)

For refrigerant distribution of indoor units



Features

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

Piping Diagram



Models Applied

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

Accessory Model Name

Header Branch

• R410A

(Unit : mm)

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

PIPING ACCESSORIES

• R410A / MULTI V III, MULTI V IV, MULTI V MINI, MULTI V SPACE II

(Unit : mm)

2 Outdoor Units		
Model name	Low Pressure Gas pipe	Liquid pipe
ARCNN21		
3 Outdoor Units		
Model name	Low Pressure Gas pipe	Liquid pipe
ARCNN31		
4 Outdoor Units		
Model name	Low Pressure Gas pipe	Liquid pipe
ARCNN41		

• R410A / MULTI V III Heat Recovery, MULTI V IV Heat Recovery

(Unit : mm)

2 Outdoor Units			
Model name	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARCNB21			
3 Outdoor Units			
Model name	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARCNB31			
4 Outdoor Units			
Model name	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARCNB41			

• **R410A /** MULTI V PLUS, MULTI V PLUS II, MULTI V III, MULTI V IV, MULTI V MINI, MULTI V SPACE II, MULTI V WATER II, MULTI V WATER IV (Unit : mm)

Model name	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, MULTI V MINI, MULTI V SPACE II (Unit : mm)

Model name	Gas pipe	Liquid pipe
ARBLN07121		
ARBLN14521		

• **R410A /** MULTI V PLUS, MULTI V PLUS II, MULTI V III, MULTI V IV, MULTI V WATER IV
MULTI V MINI, MULTI V SPACE II (Unit : mm)

[illegible]

• **R410A /** MULTI V III Heat recovery, MULTI V IV Heat recovery, MULTI V WATER II Heat recovery
MULTI V WATER IV Heat recovery (Unit : mm)

[illegible]

• **R410A /** MULTI V III Heat recovery, MULTI V IV Heat recovery, MULTI V WATER IV Heat recovery (Unit : mm)

Model name	Low Pressure Gas pipe	Liquid pipe	High Pressure Gas pipe
ARBLB23220			

The Total HVAC and Energy Solution Provider

Ever since manufacturing Korea's first 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 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 top-notch air conditioning professionals at its SAC 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 all across the planet. 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.

