LG
Life's Good

MULTI V™ 2015

MULTI V™ 2015

LG HVAC SOLUTION

LG Electronics
H&A Company, Commercial Air Conditioning

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MULTI V IV Development Philosophy

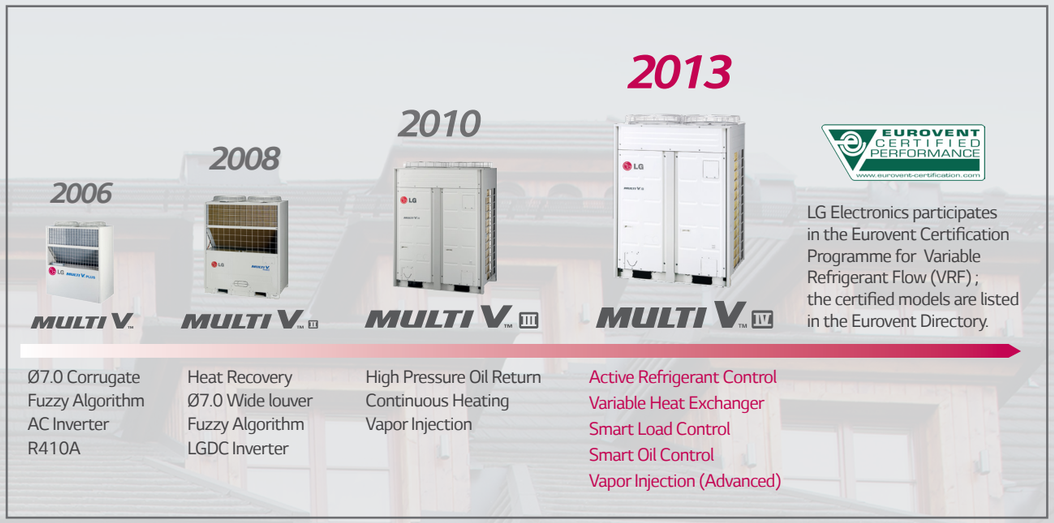
LG's primary goal is to 'vitalizing every environment' around the globe – from private residences to commercial buildings and shared communal spaces. To make this a reality, the company has developed a comprehensive range of innovative Heating, Ventilation and Air Conditioning (HVAC) products, as well as state-of-the-art energy solutions.

One such product is the advanced MULTI V IV Variable Refrigerant Flow (VRF), which delivers incredible performance and energy efficiency through a number of proprietary LG technologies. VRF solutions are widely considered to be among the most versatile and powerful system air conditioners available. Providing exceptional comfort, energy efficiency and reliability, they are highly regarded by building managers, business operators and HVAC engineers. The latest VRF solutions boast a number of other tangible benefits including cost effectiveness and easier installation.

Thanks to significant advancements in HVAC technology, VRF systems are now able to offer unmatched performance capabilities along with reduced energy consumption. Nevertheless, LG continues to focus on removing all causes of 'hidden loss,' thereby further improving operational efficiency and passing on considerable energy savings to the consumer.

Through close observation, testing, analysis and extensive R&D, LG has been able to drastically cut energy loss. The results of this endeavor can clearly be seen in the company's finest achievement to date, the new MULTI V IV. Going 'Beyond Your Standard,' the ground breaking HVAC system possesses all of the strengths and none of the weaknesses in VRF system. One of LG's firmly held beliefs is that in order to be the very best, one must offer the very best. Equipped with world's first technologies and offering unrivalled performance, MULTI V IV can rightly be called 'the very best' VRF system in the market.

Revolution of MULTI V



"Aries Hotel & Spa"
in Zakopane, Poland (Multi V IV)

EUROPE SALES INFRASTRUCTURE

- Europe B2B Regional Head Office
- National Sales Office
- Air Conditioning Academy
- European Distribution Center
- Europe Energy Lab
- Production Site

LG Energy Labs in Europe

Committed to meet all the requirements regarding energy efficiency and environmental demands, LG has been running Energy Labs. LG Energy Lab is an innovative site dedicated to commercial and residential products in heating, ventilation and the latest energy efficient air conditioning solutions. Also as a showcase, LG Energy Lab is equipped with complete monitoring and control systems. The performance of all products will be tracked and analyzed by a team of Research and Development engineers based in France, Finland and Korea, ensuring efficiency and reliability during the whole product lifecycle.

European Air Conditioning Distribution Center

LG's European Air Conditioning Distribution Center is located in Oosterhout, the Netherlands. Supplying and delivering products to 15 countries in Europe, this distribution hub has contributed to smooth and rapid delivery, direct shipping for smaller orders and delivery tailored to air conditioners. The hub tries to manage inventory efficiency by taking advantage of LG EU's established inventory pool.

GLOBAL PRODUCTION SITE

LG Electronics products sold in Europe are 'Made in Korea' (except for ceiling suspended unit).

TOTAL HVAC SOLUTION PROVIDER

Ever since manufacturing Korea's first home grown air conditioner in 1968, LG has remained at the forefront of air conditioning innovation. LG has been the world's top selling manufacturer of residential air conditioning solutions. In 2008, LG achieved to sell the 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 provide effective temperature control to large-scale buildings and facilities. Overtime, LG has evolved into the total HVAC and energy solution provider, investing in new technologies and adding chillers, VRF systems, and building management systems (BMS) into its comprehensive product portfolio. Along with a wide range of innovative solutions, LG delivers unrivalled customer service.

The company produces top-notch air conditioning professionals at its academies, of which there are nearly 80 worldwide. These centers of excellence provide workshops and training programs that offer invaluable hands-on experience. LG also provides useful tools for HVAC system engineers and installers, including its time saving 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. Combining the best technologies with the best ideas, LG's high quality products are now enjoyed by customers in over 100 countries.

INDEX

OUTDOOR UNIT

INDOOR UNIT

HOT WATER SOLUTION

ACCESSORIES

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.

OUTDOOR UNIT

12
MULTI V IV Heat Pump

34
MULTI V IV Heat Recovery

50
MULTI V S

64
MULTI V WATER IV
(Heat Pump / Heat Recovery)

90
MULTI V WATER S

OUTDOOR UNIT
Line-Up

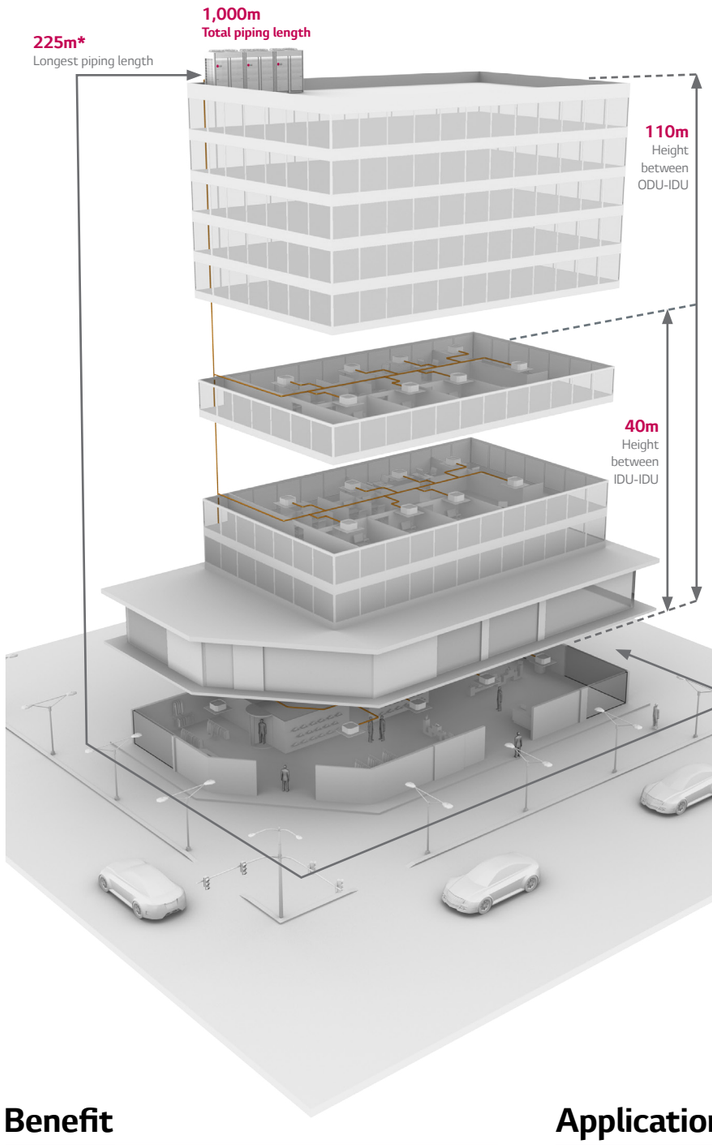
Unit : HP

Type	Features	Appearance	4 5 6 8 10 12 14 16 18 20	22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80
MULTI V IV Heat Pump	• Energy saving product • Flexible installation • For large space and high rise building - Office, Commercial, School etc.			
				
MULTI V IV Heat Recovery	• Cooling and heating at the same time. • Energy saving by heat recovery technology • Flexible installation with heat recovery unit • For individual control building - Office, Hotel, Commercial etc.			
				
MULTI V S	• Saves floor space • Flexible design applications - Slim, light and wide line up (4 ~ 12 HP) - Combination of indoor unit (up to 20 units) • For Small / Medium building with up to 20 rooms			
				
MULTI V WATER IV Heat Pump	• High efficiency system regardless external conditions • Indoor installation product • Quiet unit noise level(no fans) • For Water sourced system, High rise building and Aesthetic building			
				
MULTI V WATER IV Heat Recovery	• Cooling and heating at the same time. • Minimizing energy cost by water sourced heat recovery system. • For individual control building • For Water sourced system, High rise building and Aesthetic building			
				
MULTI V WATER S	• Easy to install additional capacity • Compact size • Light weight • For Residential and Commercial building			

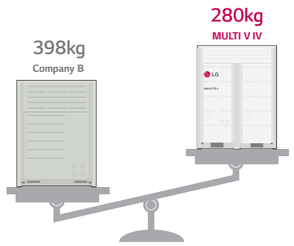
380V, 3ø 220V, 1ø

MULTI V SOLUTION
(HEAT PUMP)

MULTI V™ IV



1. Light Weight



* 20HP Continuous heating model comparison

2. Piping Capabilities

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

3. Operation Range

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

Benefit

LG VRF MULTI V IV heat pump systems provide heating or cooling to individual zones. The benefits of VRF heat pump zoning are to provide a level of control for tenant comfort in their individual space. The owner saves on boiler size redustion.

Application

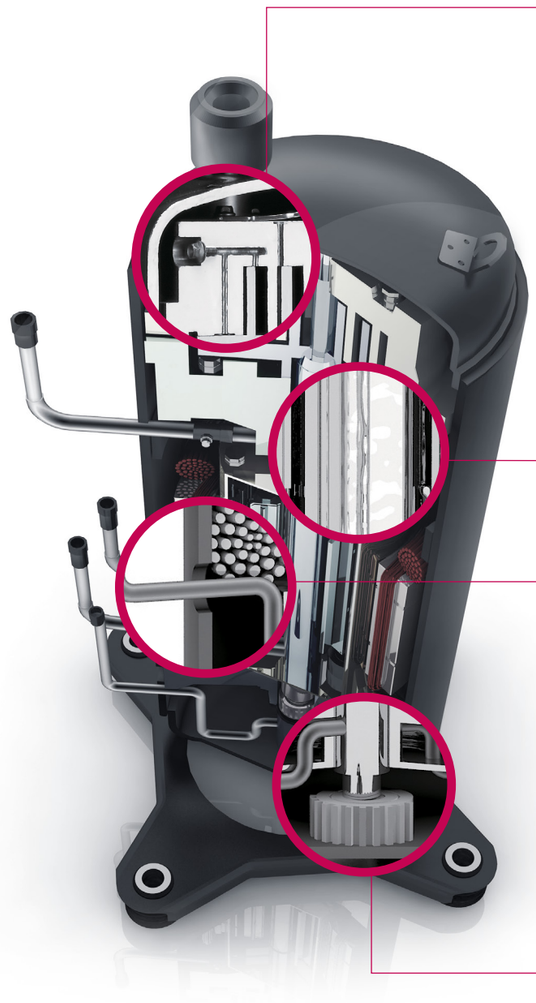
- Office of small / Medium factory
- Education facility
- Commercial building of small / Medium
  (Shopping mall / Department store / Large scale retail / Super market)

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.

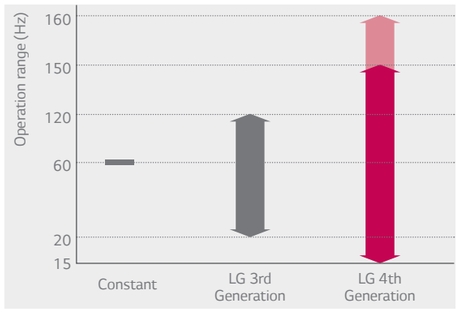


Vapor Injection

- Maximize heating capacity via two-stage compression
- Provide powerful heating in low temperature conditions
- Improve energy efficiency and heating performance

Extended Compressor Speed 150Hz

- Rapid operation response
- Capable of reaching required temperature quickly
- Increase part load efficiency



*Operation available up to 160 Hz dependent upon operating conditions

HiPOR™ (High Pressure Oil Return)

- Resolve compressor efficiency loss caused by oil return
- Improve part load efficiency at all operation ranges

Smart Oil Return

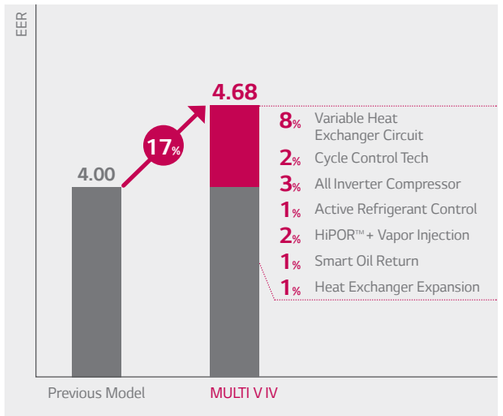
- Oil level detection in real time
- Oil recovery occurs only when required
- Enhance user comfort

EFFICIENCY

World's first class rated and part load efficiency

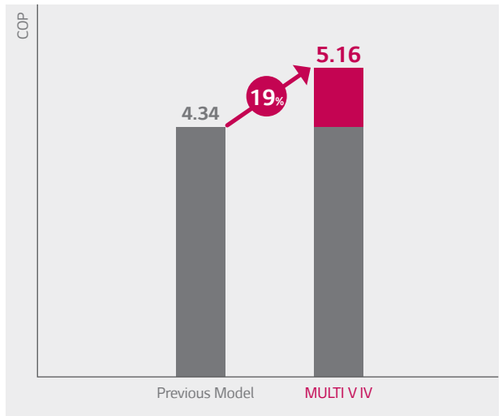
World's First Class, Rated Efficiency (Eurovent Test Condition)

EER(Cooling)



* Comparison Based on 10HP in cooling mode

COP(Heating)



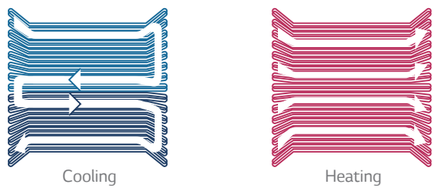
* Comparison Based on 10HP in heating mode

Variable Heat Exchanger Circuit

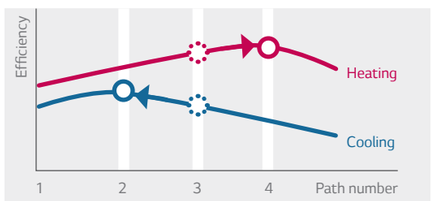
Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling.

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

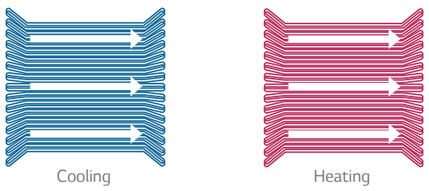


Maximizing Efficiency for All Operations

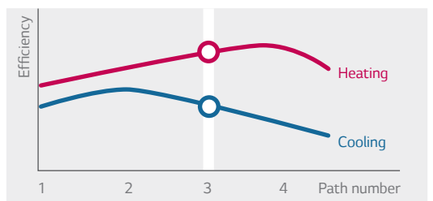


Conventional

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



Compromising Efficiency for Each Operation

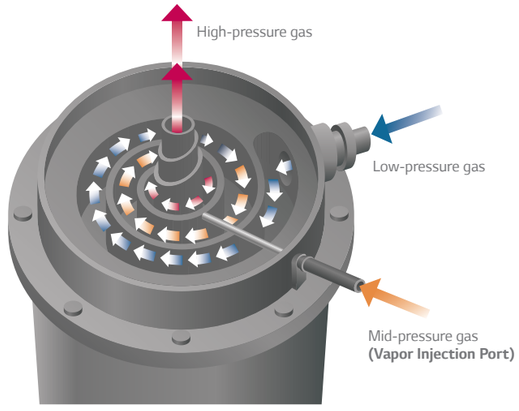


EFFICIENCY

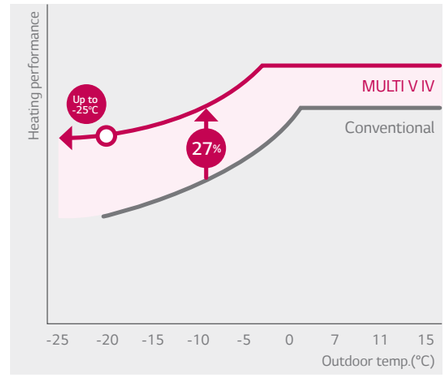
World's first class rated and part load efficiency

Vapor Injection

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



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

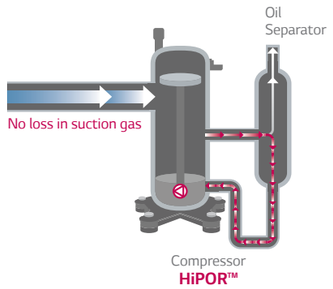


HiPOR™ (High Pressure Oil Return)

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

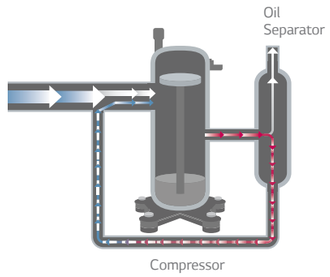
MULTI V IV

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

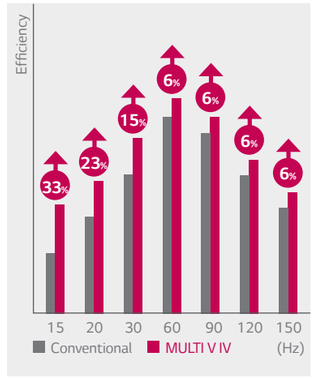


Conventional

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



Efficiency Comparison



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

EFFICIENCY

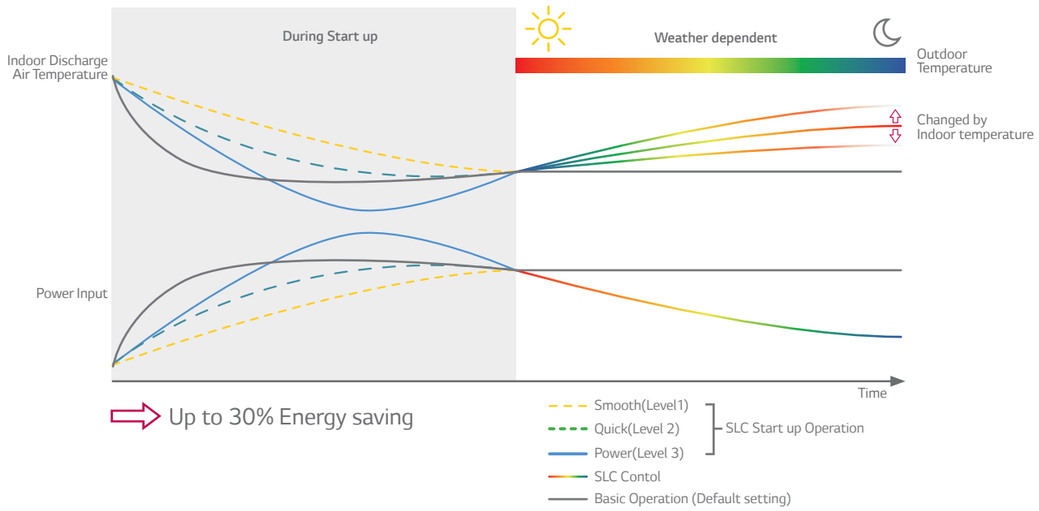
World's first class rated and part load efficiency

Smart Load Control

Smart Load Control function allows MULTI V IV to sense outdoor and indoor temperature and changes indoor discharge air temperature accordingly. This optimizes energy efficiency and maximizes indoor comfort level in cooling/heating modes.

Benefits:

- Energy efficiency increased by 3-step Smart Load Control during start-up phase
- Discharge air temperature adjusted according to outdoor and indoor temperature
- Comfort level in cooling/heating operations ensured



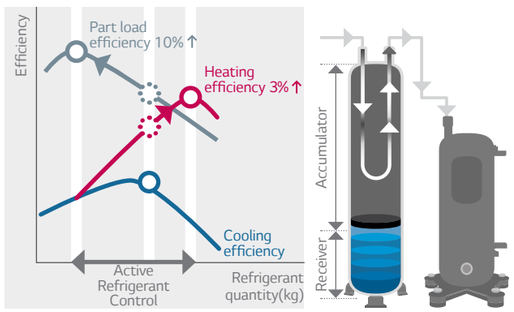
Active Refrigerant Control

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

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

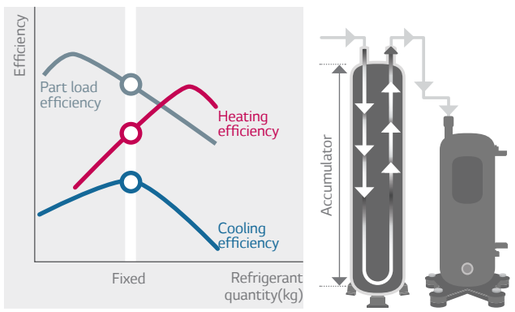
Maximizing efficiency for all operations



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



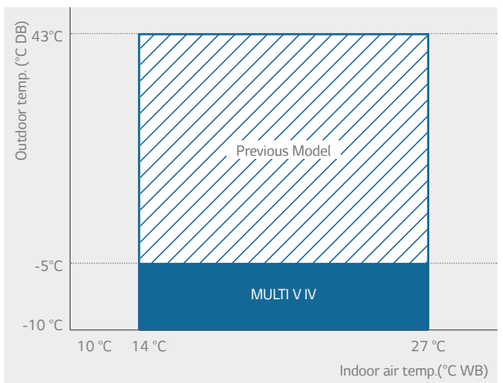
PERFORMANCE

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

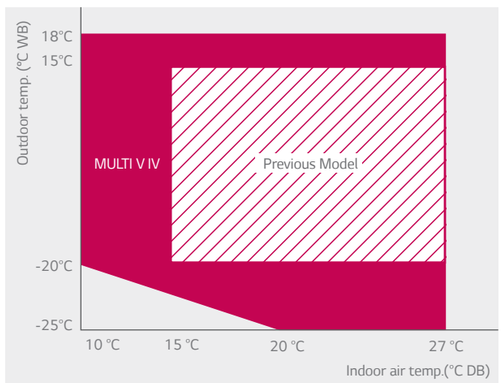
Wide Operation Range

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

Cooling



Heating



Cooling Operation Range Down to –10°C

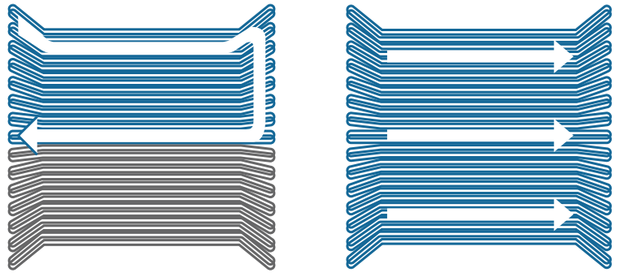
LG has expanded the temperature range for continuous cooling from -5°C to -10°C to provide a better solution for zones that require four seasons cooling such as server rooms.

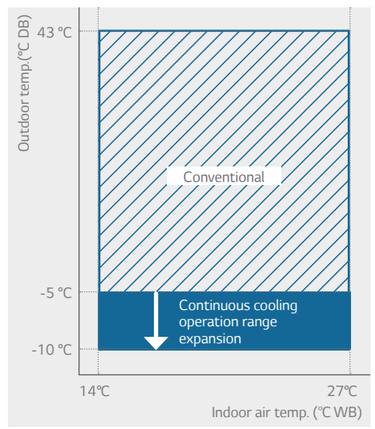
MULTI V IV

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

Conventional

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





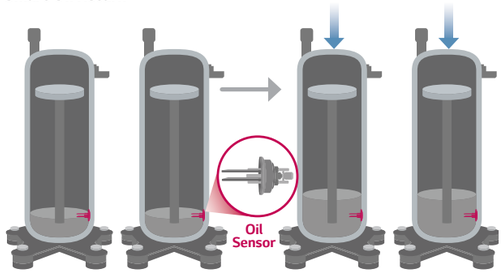
PERFORMANCE

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

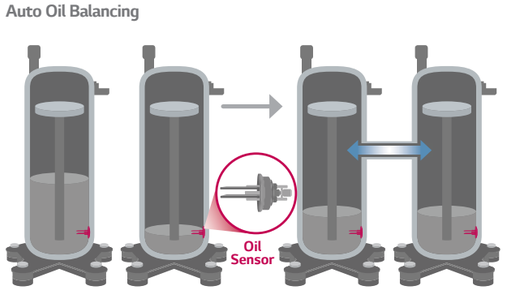
Smart Oil Management

Compressor reliability is improved with an oil sensor that allows oil balancing and oil return.
The value of the capacitance between the electrodes can measure the presence of oil in real-time.

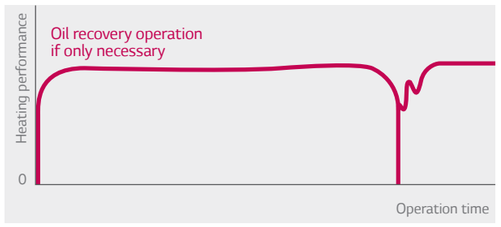
Smart Oil Return



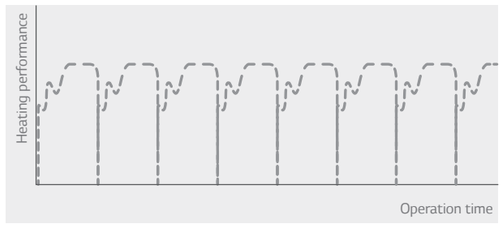
Auto Oil Balancing



MULTI V IV



Conventional

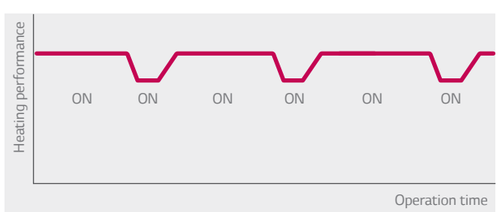


Continuous Heating Operation in Defrost

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.

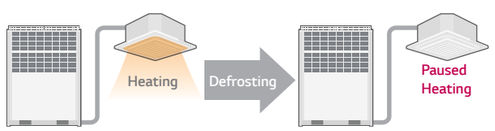
MULTI V IV

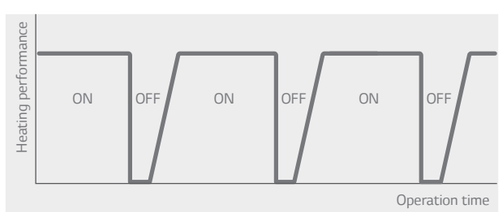
Continuous heating during part load defrosting operation.



Conventional

Heating stops during defrosting operation.





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

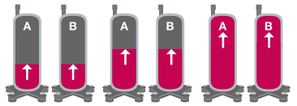
PERFORMANCE

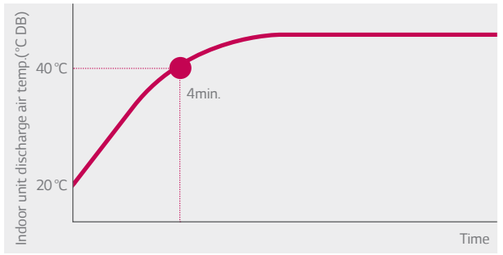
Always ahead of the competition and on the leading edge of innovation
with powerful heating and unsurpassed cooling performance

Fast Heating and Cooling via Advanced Inverter

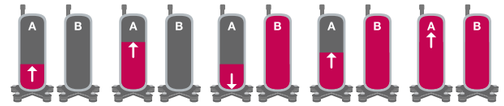
In conventional models, inverter compressor and on/off compressor operate one by one, which takes far longer to reach maximum capacity. Thanks to LG's all inverter compressor system and high performance cycle design, MULTI V IV delivers fast cooling or heating by operating two compressors simultaneously.

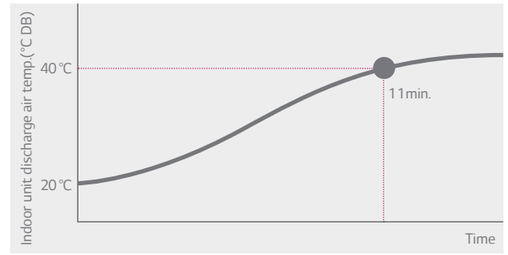
MULTI V IV





Conventional



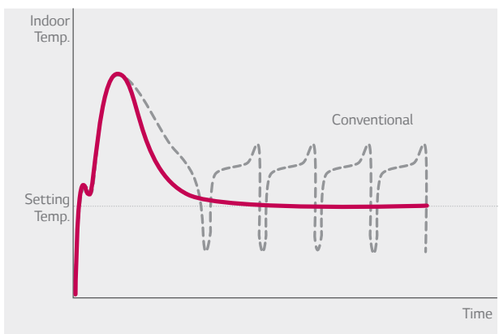


* Condition : Standard heating mode (Ambient air temp. 7℃, Indoor temp. 20℃)

Comfort Cooling

Without operation stop, this function is able to maintain operation at mild cooling mode around the set temperature.
You can experience more comfortable indoor environment and energy saving.

Comfort Cooling



- Indoor Unit Target superheat increased
- Refrigerant flow rate decreased
- Thermo-on Time increased (47min. More than 120min.)
- No repeat thermo On/Off.
- Average electric power 2% saving

CONVENIENCE

Self-diagnostic maintenance solution, offering smart and reliable functionality

Smartphone Monitoring & Control

Mobile LGMV helps users to monitor the MULTI V IV system cycle using Wi-Fi MV Module.
Technicians can check LGMV data 10m away from MULTI V IV outdoor with smartphone

Connection type : Wi-Fi
To use Mobile LGMV Application, exclusive Wi-Fi MV Module is required

Smart Phone Specification

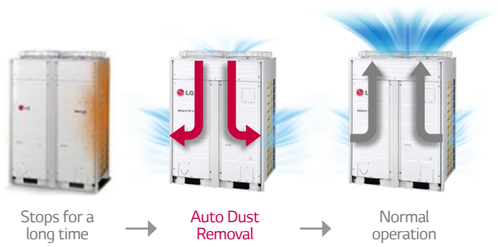
App. Name	OS	Recommended Specification	Resolution	Wireless communication effective distancd
Mobile LGMV	iOS (iPad only)	AppiOS 8.0/8.1	2048 x 1536 (optimization), 1024 x 768	• Effective distance : 10m(Open area) • The effective distance may be reduced by the communication environment
	Android	Android 4.4 (Android 3.x, Honeycomb not supported)	480 x 800, 720 x 1280, 768 x 1280, 768 x 1024, 1080 x 1920	

Auto Dust Removal

MULTI V IV can remove dust(sand, leaves, and etc.) in heat exchanger of outdoor unit by outdoor unit setting.
Auto Dust Removal function improves the heat exchange efficiency to maintain clean state in heat exchanger of outdoor unit.

Auto Dust Removal

- Dust is removed in heat exchanger of outdoor unit by reverse rotation of fan
- 5 min. operation in every 2 hour



Conventional

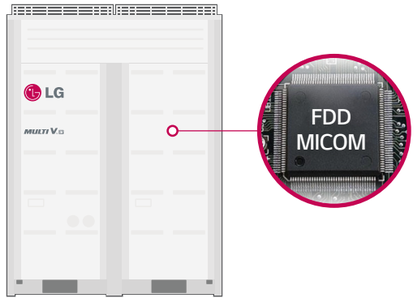
Dust remains in heat exchanger of outdoor unit

CONVENIENCE

Self-diagnostic maintenance solution, offering smart and reliable functionality

Upgraded FDD (Fault Detection & Diagnosis)

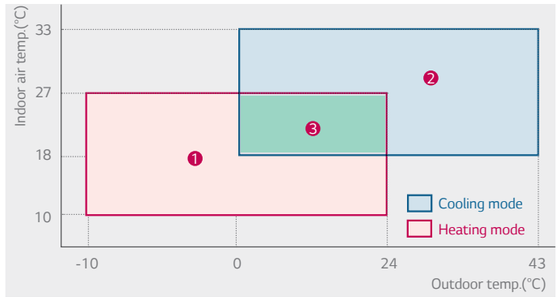
Newly upgraded FDD elements provide the optimal solution for user reliability and easy maintenance.



- 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

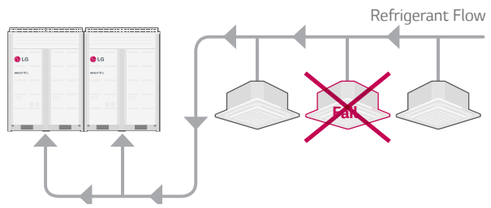


1. Refrigerant quantity evaluation during heating Operation
2. Refrigerant quantity evaluation during cooling Operation
3. Refrigerant quantity evaluation during cooling and heating Operation

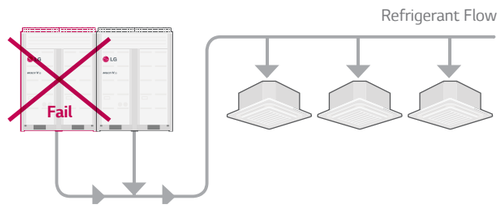
Auto Refrigerant Collection

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



ARUN080LTE4 / ARUN100LTE4 / ARUN120LTE4

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
Power Input [1]	Cooling	Nom	kW	4.64	5.98	7.58
	Heating	Nom	kW	4.74	6.10	8.51
EER [1]	Cooling	Nom		4.83	4.68	4.43
COP [1]	Heating	Nom		5.32	5.16	4.44
Power Input [2]	Cooling	Nom	kW	4.38	5.38	6.85
	Heating	Nom	kW	4.58	5.49	7.80
EER [2]	Cooling	Nom		5.11	5.20	4.91
COP [2]	Heating	Nom		5.50	5.74	4.85
ESEER [3]		Nom		7.90	7.54	7.48
Operation Range	Cooling	Min~Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	210	210	210
Sound Pressure		Nom	dBA	58.5	59.0	59.0
Sound Power		Nom	dBA	69.5	70.0	70.0
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	2,400	2,600	2,600
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)	200(225)
	After 1st Y branch [5]	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		20	25	30
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 200%	50 ~ 200%	50 ~ 200%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN140LTE4 / ARUN160LTE4 / ARUN180LTE4 / ARUN200LTE4

HP				14	16	18	20
Model	Combination Unit			ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN200LTE4
	Independent Unit			ARUN140LTE4	ARUN160LTE4	ARUN180LTE4	ARUN200LTE4
Capacity	Cooling	Nom	kW	40.5	44.8	50.4	56.0
	Heating	Nom	kW	44.1	50.0	56.7	63.0
Power Input [1]	Cooling	Nom	kW	8.77	10.90	10.93	12.81
	Heating	Nom	kW	9.21	11.31	12.49	14.82
EER [1]	Cooling	Nom		4.62	4.11	4.61	4.37
COP [1]	Heating	Nom		4.79	4.42	4.54	4.25
Power Input [2]	Cooling	Nom	kW	8.48	10.42	9.85	11.54
	Heating	Nom	kW	9.60	11.40	11.25	13.36
EER [2]	Cooling	Nom		4.62	4.30	5.12	4.85
COP [2]	Heating	Nom		4.59	4.42	5.04	4.72
ESEER [3]		Nom		7.37	7.27	7.17	6.78
Operation Range	Cooling	Min~Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	2	2
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290	290	290	290
Sound Pressure		Nom	dBA	59.0	59.0	59.5	59.5
Sound Power		Nom	dBA	70.0	70.0	70.5	70.5
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 x 1	245 x 1	280 × 1	280× 1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	10.5	10.5	10.5	10.5
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	2,600	2,600	3,600	3,600
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch [5]	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		35	40	45	50
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 200%	50 ~ 200%	50 ~ 200%	50 ~ 200%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN220LTE4 / ARUN240LTE4

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
Power Input [1]	Cooling	Nom	kW	13.56	15.16
	Heating	Nom	kW	14.61	17.02
EER [1]	Cooling	Nom		4.54	4.43
COP [1]	Heating	Nom		4.74	4.44
Power Input [2]	Cooling	Nom	kW	12.23	13.70
	Heating	Nom	kW	13.29	15.60
EER [2]	Cooling	Nom		5.04	4.91
COP [2]	Heating	Nom		5.21	4.85
ESEER [3]		Nom		7.51	7.48
Operation Range	Cooling	Min~Max	°C DB	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	°C WB	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	210 x 2	210 x 2
Sound Pressure		Nom	dBA	62.0	62.0
Sound Power		Nom	dBA	73.0	73.0
Dimensions		WxHxD	mm	(920 × 1,680 × 760) × 2	(920 × 1,680 × 760) × 2
Net Weight			kg	208 × 2	208 × 2
Refrigerant	Type			R410A	R410A
	Charge		kg	7.5 × 2	7.5 × 2
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	5,200	5,200
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)
	After 1st Y branch [5]	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		44	48
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%	50 ~ 160%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN260LTE4 / ARUN280LTE4
ARUN300LTE4 / ARUN320LTE4

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	74.1	78.4	84.0	89.6
	Heating	Nom	kW	81.9	87.8	94.5	100.8
Power Input [1]	Cooling	Nom	kW	16.35	18.48	18.51	20.39
	Heating	Nom	kW	17.72	19.82	21.00	23.33
EER [1]	Cooling	Nom		4.53	4.24	4.54	4.39
COP [1]	Heating	Nom		4.62	4.43	4.50	4.32
Power Input [2]	Cooling	Nom	kW	15.33	17.27	16.70	18.39
	Heating	Nom	kW	17.40	19.20	19.05	21.16
EER [2]	Cooling	Nom		4.75	4.54	5.03	4.87
COP [2]	Heating	Nom		4.71	4.59	4.96	4.76
ESEER [3]		Nom		7.43	7.38	7.33	7.13
Operation Range	Cooling	Min~Max	°C DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	°C WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 + 210	290 + 210	290 + 210	250 + 210
Sound Pressure		Nom	dBA	62.0	62.0	62.3	62.3
Sound Power		Nom	dBA	73.0	73.0	73.3	73.3
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 × 1 + 208 × 1	245 × 1 + 208 × 1	280 × 1 + 208 × 1	280 × 1 + 208 × 1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	5,200	5,200	6,200	6,200
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch [5]	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		52	56	60	64
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%	50 ~ 160%	50 ~ 160%	50 ~ 160%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN340LTE4 / ARUN360LTE4

HP				34	36
Model	Combination Unit			ARUN340LTE4	ARUN360LTE4
	Independent Unit			ARUN200LTE4	ARUN200LTE4
				ARUN140LTE4	ARUN160LTE4
Capacity	Cooling	Nom	kW	96.5	100.8
	Heating	Nom	kW	107.1	113.0
Power Input [1]	Cooling	Nom	kW	21.58	23.71
	Heating	Nom	kW	24.03	26.13
EER [1]	Cooling	Nom		4.47	4.25
COP [1]	Heating	Nom		4.46	4.32
Power Input [2]	Cooling	Nom	kW	20.02	21.96
	Heating	Nom	kW	22.96	24.76
EER [2]	Cooling	Nom		4.76	4.59
COP [2]	Heating	Nom		4.66	4.58
ESEER [3]		Nom		7.08	7.03
Operation Range	Cooling	Min~Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 2	290 x 2
Sound Pressure		Nom	dBA	62.3	62.3
Sound Power		Nom	dBA	73.3	73.3
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	6,200	6,200
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)
	After 1st Y branch [5]	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		64	64
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%	50 ~ 160%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN380LTE4 / ARUN400LTE4

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
Power Input [1]	Cooling	Nom	kW	23.75	25.63
	Heating	Nom	kW	27.31	29.65
EER [1]	Cooling	Nom		4.48	4.37
COP [1]	Heating	Nom		4.38	4.25
Power Input [2]	Cooling	Nom	kW	21.39	23.08
	Heating	Nom	kW	24.61	26.72
EER [2]	Cooling	Nom		4.97	4.85
COP [2]	Heating	Nom		4.86	4.72
ESEER [3]		Nom		6.98	6.78
Operation Range	Cooling	Min~Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			4	4
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 2	290 x 2
Sound Pressure		Nom	dBA	62.5	62.5
Sound Power		Nom	dBA	73.5	73.5
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	7,200	7,200
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)
	After 1st Y branch [5]	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		64	64
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%	50 ~ 160%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN420LTE4 / ARUN440LTE4 / ARUN460LTE4

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	118.9	124.5	128.8
	Heating	Nom	kW	132.3	138.6	144.5
Power Input [1]	Cooling	Nom	kW	25.68	27.56	29.69
	Heating	Nom	kW	27.80	30.13	32.23
EER [1]	Cooling	Nom		4.63	4.52	4.34
COP [1]	Heating	Nom		4.76	4.60	4.48
Power Input [2]	Cooling	Nom	kW	23.71	25.40	27.34
	Heating	Nom	kW	26.34	28.45	30.25
EER [2]	Cooling	Nom		4.96	4.85	4.71
COP [2]	Heating	Nom		5.02	4.87	4.79
ESEER [3]		Nom		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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	250 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure		Nom	dBA	63.9	63.9	63.9
Sound Power		Nom	dBA	74.9	74.9	74.9
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 × 1 + 245 x 1 + 208 × 1	280 × 1 + 245 x 1 + 208 × 1	280 × 1 + 245 x 1 + 208 × 1
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	(10.5 × 2) + 7.5	(10.5 × 2) + 7.5	(10.5 × 2) + 7.5
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	8,800	8,800	8,800
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)	200(225)
	After 1st Y branch [5]	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

MULTI V IV

ARUN480LTE4 / ARUN500LTE4 / ARUN520LTE4

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
Power Input [1]	Cooling	Nom	kW	29.73	31.61	33.21
	Heating	Nom	kW	33.41	35.75	38.16
EER [1]	Cooling	Nom		4.52	4.43	4.38
COP [1]	Heating	Nom		4.53	4.41	4.29
Power Input [2]	Cooling	Nom	kW	26.77	28.46	29.93
	Heating	Nom	kW	30.10	32.21	34.52
EER [2]	Cooling	Nom		5.02	4.92	4.86
COP [2]	Heating	Nom		5.02	4.89	4.75
ESEER [3]		Nom		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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure		Nom	dBA	64.1	64.1	64.1
Sound Power		Nom	dBA	75.1	75.1	75.1
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 × 1	280 x 2 + 208 × 1	280 x 2 + 208 × 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	9,800	9,800	9,800
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)	200(225)
	After 1st Y branch [5]	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN540LTE4 / ARUN560LTE4
ARUN580LTE4 / ARUN600LTE4

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	152.5	156.8	162.4	168.0
	Heating	Nom	kW	170.1	176.0	182.7	189.0
Power Input [1]	Cooling	Nom	kW	34.40	36.53	36.56	38.44
	Heating	Nom	kW	38.86	40.96	42.14	44.47
EER [1]	Cooling	Nom		4.43	4.29	4.44	4.37
COP [1]	Heating	Nom		4.38	4.30	4.34	4.25
Power Input [2]	Cooling	Nom	kW	31.56	33.50	32.93	34.62
	Heating	Nom	kW	36.32	38.12	37.97	40.08
EER [2]	Cooling	Nom		4.79	4.68	4.93	4.85
COP [2]	Heating	Nom		4.68	4.63	4.81	4.72
ESEER [3]		Nom		6.98	6.94	6.91	6.78
Operation Range	Cooling	Min~Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min~Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			5	5	5	5
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 3	290 x 3	290 x 3	290 x 3
Sound Pressure		Nom	dBA	64.1	64.1	64.3	64.3
Sound Power		Nom	dBA	75.1	75.1	75.3	75.3
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 x 1	280 × 2 + 245 x 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 Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	9,800	9,800	10,800	10,800
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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 [4]	Max	m	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch [5]	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN620LTE4 / ARUN640LTE4
ARUN660LTE4 / ARUN680LTE4 / ARUN700LTE4

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	176.2	181.8	186.1	193.0	197.3
	Heating	Nom	kW	194.9	201.6	207.5	214.2	220.1
Power Input [1]	Cooling	Nom	kW	39.37	39.41	41.54	43.17	45.30
	Heating	Nom	kW	42.22	43.40	45.50	48.07	50.17
EER [1]	Cooling	Nom		4.48	4.61	4.48	4.47	4.36
COP [1]	Heating	Nom		4.62	4.65	4.56	4.46	4.39
Power Input [2]	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
EER [2]	Cooling	Nom		4.66	4.89	4.79	4.76	4.67
COP [2]	Heating	Nom		4.67	4.83	4.78	4.66	4.62
ESEER [3]		Nom		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	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4
Sound Pressure		Nom	dBA	65.2	65.3	65.3	65.3	65.3
Sound Power		Nom	dBA	76.2	76.3	76.3	76.3	76.3
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 x 3	280 × 2 + 245 x 2	280 × 2 + 245 x 2	280 × 2 + 245 x 2	280 × 2 + 245 x 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 Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	11,400	12,400	12,400	12,400	12,400
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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	1000	1000	1000	1000	1000
	Actual Longest Piping Length [4]	Max	m	200(225)	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch [5]	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUN720LTE4 / ARUN740LTE4
ARUN760LTE4 / ARUN780LTE4 / ARUN800LTE4

HP				72	74	76	78	80
Model	Combination Unit			ARUN720LTE4	ARUN740LTE4	ARUN760LTE4	ARUN780LTE4	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	202.9	207.2	212.8	218.4	224.0
	Heating	Nom	kW	226.8	232.7	239.4	245.7	252.0
Power Input [1]	Cooling	Nom	kW	45.33	47.46	47.49	49.38	51.26
	Heating	Nom	kW	51.35	53.45	54.63	56.96	59.29
EER [1]	Cooling	Nom		4.48	4.37	4.48	4.42	4.37
COP [1]	Heating	Nom		4.42	4.35	4.38	4.31	4.25
Power Input [2]	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
EER [2]	Cooling	Nom		4.87	4.78	4.97	4.91	4.85
COP [2]	Heating	Nom		4.77	4.72	4.86	4.79	4.72
ESEER [3]		Nom		7.03	7.00	6.98	6.88	6.78
Operation Range	Cooling	Min-Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min-Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4
Sound Pressure		Nom	dBA	65.4	65.4	65.5	65.5	65.5
Sound Power		Nom	dBA	76.4	76.4	76.5	76.5	76.5
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 × 3 + 245 x 1	280 × 3 + 245 x 1	280 × 4	280 × 4	280 × 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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	13,400	13,400	14,400	14,400	14,400
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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	1000	1000	1000	1000	1000
	Actual Longest Piping Length [4]	Max	m	200(225)	200(225)	200(225)	200(225)	200(225)
	After 1st Y branch [5]	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. EURIVENT Test Condition : Certified performance based on testing of 1 outdoor unit and 4 indoor units (Maximum 4 indoor units)
   - Refer to EUROVENT certification regulation for more detail test conditions.
   - Performances of Combination units are sum of Independent unit.
2. Performances 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. ESEER calculation corresponds with below conditions and power input of indoor units is not included.
   - Refer to PDB for more detail.
   - Indoor temperature: 27°C(80.6°F) DB / 19°C(66.2°F) WB
   - Outdoor temperature conditions.

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

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

4. Equivalent length
5. Conditional Application
   - To make 40~90m of pipe length after first branch refer to the part of "Installation of outdoor units" in PDB

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

⚠ CAUTION

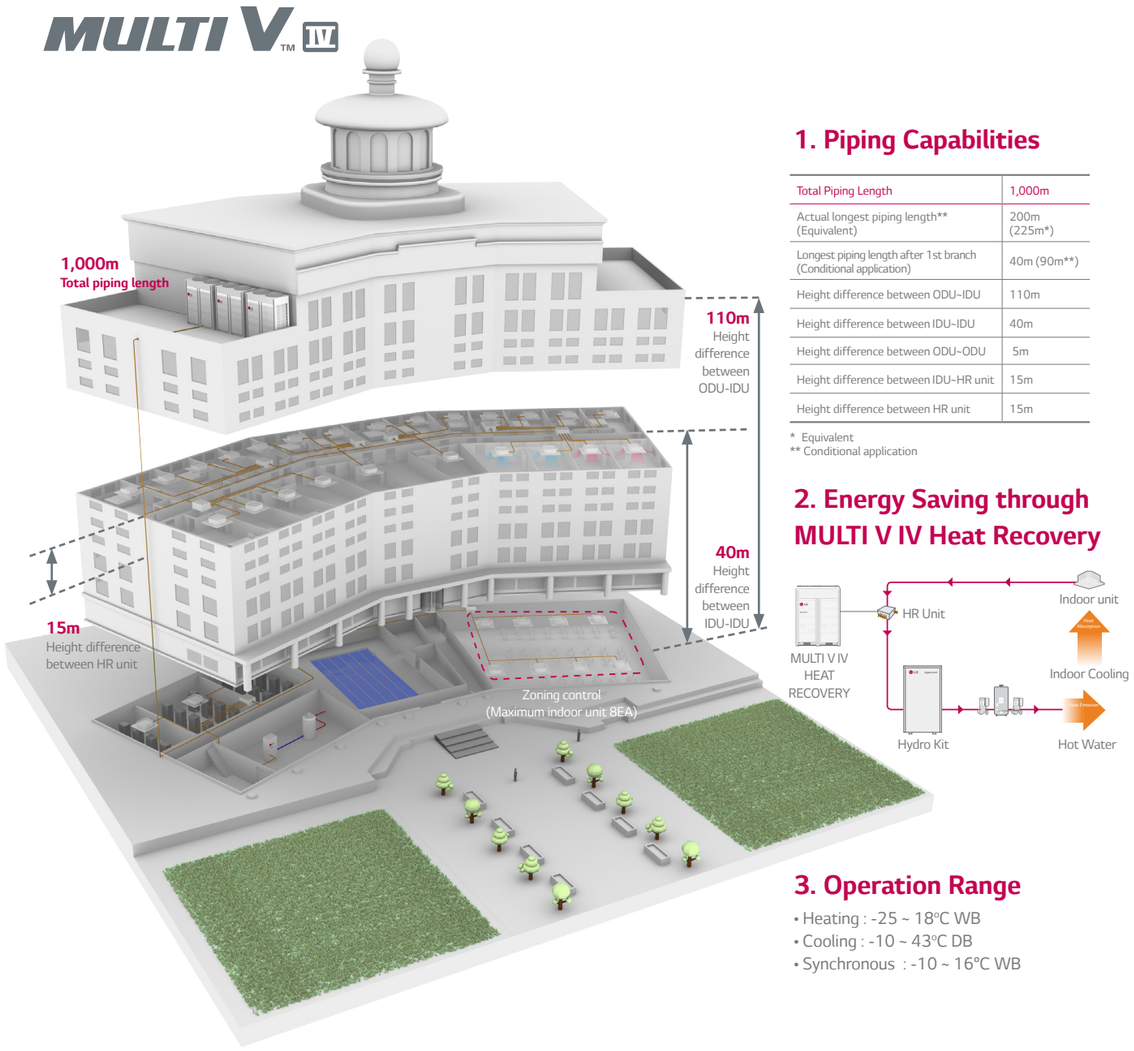
- A combination operation over 100% cause to reduce each indoor unit capacity
- Combination ratio(50~200%)

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.

MULTI V SOLUTION
(HEAT RECOVERY)



1. Piping Capabilities

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

* Equivalent
** Conditional application

2. Energy Saving through MULTI V IV Heat Recovery

3. Operation Range

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

Benefit

LG MULTI V IV heat recovery systems permit synchronous cooling and heating in different zones. The benefit of zoning for heating and cooling at the same time provides ultimate VRF technology, moving heat from one zone to another.

Application

- Hotel / Resort
- Hospital
- Dormitory

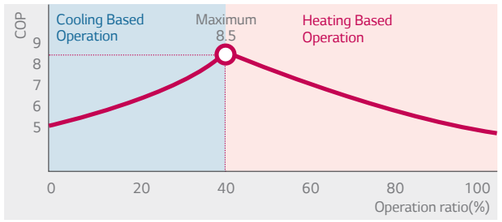
EFFICIENCY

World's first class, rated and part load efficiency

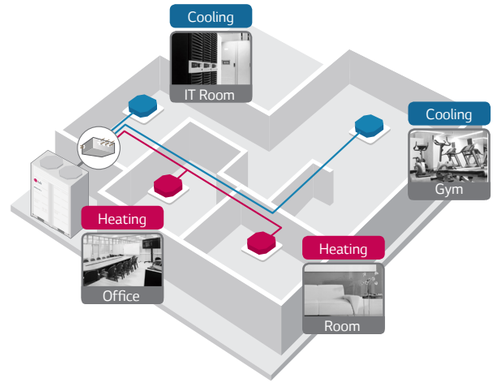
Simultaneous Operation with High Efficiency

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%

The outdoor units' heat exchanger can be operated for cooling and heating simultaneously.
- Minimize to switch mode for continuous operation
- Increase efficiency with simultaneous operation



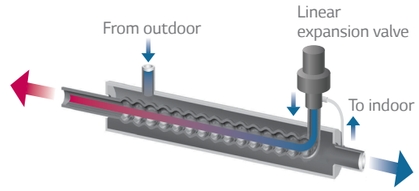
* Outdoor temperature : 7°C DB / 6°C WB
* Indoor temperature : 20°C DB / 15°C WB



High Efficiency Heat Recovery Unit (HR 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, Maximum 58 kW per a HR unit
- Easy installation with auto piping detect function
- Access allowed to internal parts for service.

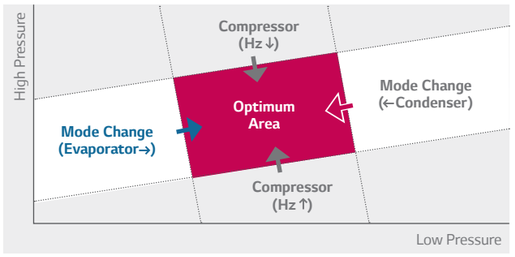
Double spiral tube heat exchanger



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

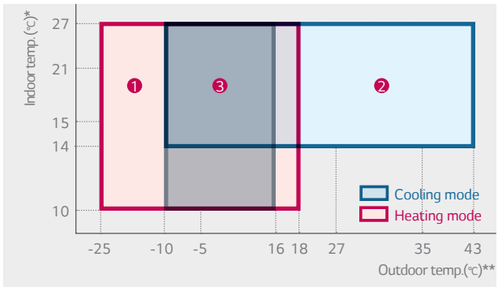


PERFORMANCE

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.



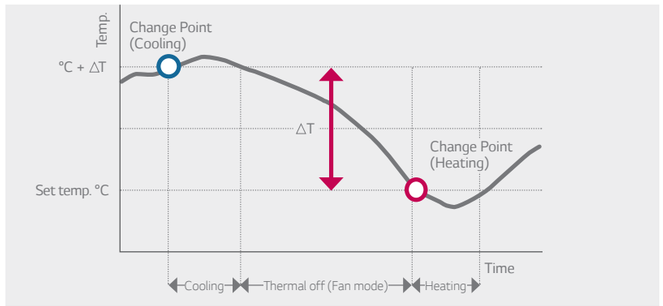
Outdoor Temperature

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

* Heating (°C DB), Cooling(°C WB), Synchronous(°C DB)
** Heating (°C WB), Cooling(°C DB), Synchronous(°C WB)

Auto Changeover

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

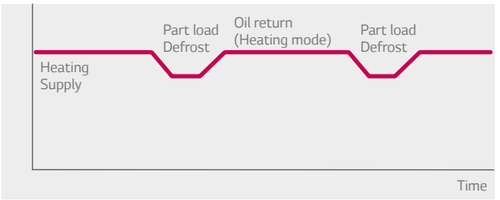


Continuous Heating Operation

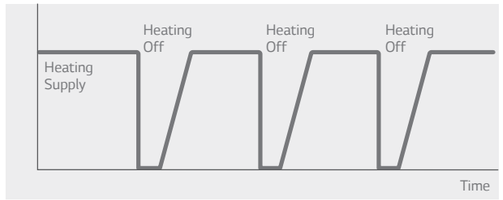
Improved continuous heating operation (In case of series unit, alternative defrost per unit)
- Integrated heating capacity : 17% up

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

MULTI V IV Heat Recovery



Conventional



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

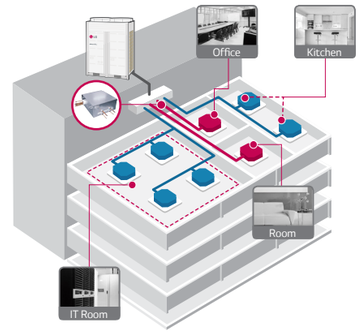
FLEXIBLE DESIGN

Easy design with the most convenient features

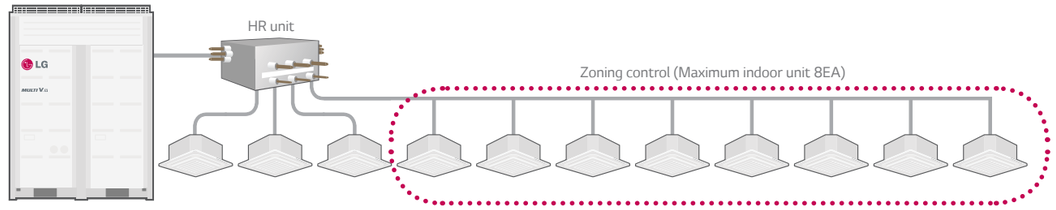
Flexible Connection of Heat Recovery Unit

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

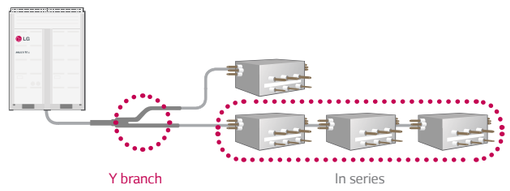
Zone control
- Up to 8 indoor units can be connected to a branch,
  Maximum 32 indoor units can be connected to a HR unit
- Same operation mode can be operated for zone control function
- Save installation cost



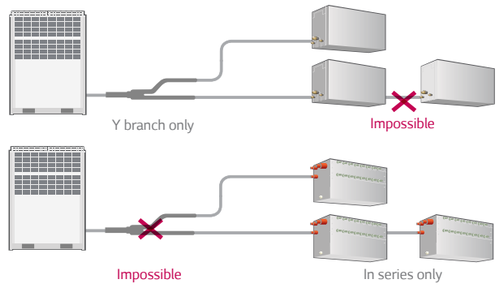
Zoning control



MULTI V IV Heat Recovery



Conventional



ARUB080LTE4 / ARUB100LTE4 / ARUB120LTE4

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
Power Input [1]	Cooling	Nom	kW	4.64	5.98	7.58
	Heating	Nom	kW	4.74	6.10	8.51
EER [1]	Cooling	Nom		4.83	4.68	4.43
COP [1]	Heating	Nom		5.32	5.16	4.44
Power Input [2]	Cooling	Nom	kW	4.38	5.38	6.85
	Heating	Nom	kW	4.58	5.49	7.80
EER [2]	Cooling	Nom		5.11	5.20	4.91
COP [2]	Heating	Nom		5.50	5.74	4.85
ESEER [3]		Nom		7.90	7.54	7.48
Operation Range	Cooling	Min~Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	210	210	210
Sound Pressure		Nom	dBA	58.5	59.0	59.0
Sound Power		Nom	dBA	69.5	70.0	70.0
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	2,400	2,600	2,600
Power Supply			Φ/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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUB140LTE4 / ARUB160LTE4 ARUB180LTE4 / ARUB200LTE4

HP				14	16	18	20
Model	Combination Unit			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
	Independent Unit			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	40.5	44.8	50.4	56.0
	Heating	Nom	kW	44.1	50.0	56.7	63.0
Power Input [1]	Cooling	Nom	kW	8.77	10.90	10.93	12.81
	Heating	Nom	kW	9.21	11.31	12.49	14.82
EER [1]	Cooling	Nom		4.62	4.11	4.61	4.37
COP [1]	Heating	Nom		4.79	4.42	4.54	4.25
Power Input [2]	Cooling	Nom	kW	8.48	10.42	9.85	11.54
	Heating	Nom	kW	9.60	11.40	11.25	13.36
EER [2]	Cooling	Nom		4.62	4.30	5.12	4.85
COP [2]	Heating	Nom		4.59	4.42	5.04	4.72
ESEER [3]		Nom		7.37	7.27	7.17	6.78
Operation Range	Cooling	Min~Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	2	2
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290	290	290	290
Sound Pressure		Nom	dBA	59.0	59.0	59.5	59.5
Sound Power		Nom	dBA	70.0	70.0	70.5	70.5
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	2,600	2,600	3,600	3,600
Power Supply			Φ/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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUB220LTE4 / ARUB240LTE4

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
Power Input [1]	Cooling	Nom	kW	13.56	15.16
	Heating	Nom	kW	14.61	17.02
EER [1]	Cooling	Nom		4.54	4.43
COP [1]	Heating	Nom		4.74	4.44
Power Input [2]	Cooling	Nom	kW	12.23	13.70
	Heating	Nom	kW	13.29	15.60
EER [2]	Cooling	Nom		5.04	4.91
COP [2]	Heating	Nom		5.21	4.85
ESEER [3]		Nom		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			10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	210 x 2	210 x 2
Sound Pressure		Nom	dBA	62.0	62.0
Sound Power		Nom	dBA	73.0	73.0
Dimensions		WxHxD	mm	(920 × 1,680 × 760) × 2	(920 × 1,680 × 760) × 2
Net Weight			kg	208 × 2	208 × 2
Refrigerant	Type			R410A	R410A
	Charge		kg	7.5 × 2	7.5 × 2
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	5,200	5,200
Power Supply			Φ/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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUB260LTE4 / ARUB280LTE4
ARUB300LTE4 / ARUB320LTE4

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	74.1	78.4	84.0	89.6
	Heating	Nom	kW	81.9	87.8	94.5	100.8
Power Input [1]	Cooling	Nom	kW	16.35	18.48	18.51	20.39
	Heating	Nom	kW	17.72	19.82	21.00	23.33
EER [1]	Cooling	Nom		4.53	4.24	4.54	4.39
COP [1]	Heating	Nom		4.62	4.43	4.50	4.32
Power Input [2]	Cooling	Nom	kW	15.33	17.27	16.70	18.39
	Heating	Nom	kW	17.40	19.20	19.05	21.16
EER [2]	Cooling	Nom		4.75	4.54	5.03	4.87
COP [2]	Heating	Nom		4.71	4.59	4.96	4.76
ESEER [3]		Nom		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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 + 210	290 + 210	290 + 210	250 + 210
Sound Pressure		Nom	dBA	62.0	62.0	62.3	62.3
Sound Power		Nom	dBA	73.0	73.0	73.3	73.3
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 × 1 + 208 × 1	245 × 1 + 208 × 1	280 x 1 + 208 x 1	280 x 1 + 208 x 1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	5,200	5,200	6,200	6,200
Power Supply			Φ/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)	34.9(1-3/8)	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)	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUB340LTE4 / ARUB360LTE4

HP				34	36
Model	Combination Unit			ARUB340LTE4	ARUB360LTE4
	Independent Unit			ARUB140LTE4	ARUB160LTE4
				ARUB200LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	96.5	100.8
	Heating	Nom	kW	107.1	113.0
Power Input [1]	Cooling	Nom	kW	21.58	23.71
	Heating	Nom	kW	24.03	26.13
EER [1]	Cooling	Nom		4.47	4.25
COP [1]	Heating	Nom		4.46	4.32
Power Input [2]	Cooling	Nom	kW	20.02	21.96
	Heating	Nom	kW	22.96	24.76
EER [2]	Cooling	Nom		4.76	4.59
COP [2]	Heating	Nom		4.66	4.58
ESEER [3]		Nom		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			10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 2	290 x 2
Sound Pressure		Nom	dBA	62.3	62.3
Sound Power		Nom	dBA	73.3	73.3
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	6,200	6,200
Power Supply			Φ/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)	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

MULTI V IV

ARUB380LTE4 / ARUB400LTE4

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
Power Input [1]	Cooling	Nom	kW	23.75	25.63
	Heating	Nom	kW	27.31	29.65
EER [1]	Cooling	Nom		4.48	4.37
COP [1]	Heating	Nom		4.38	4.25
Power Input [2]	Cooling	Nom	kW	21.39	23.08
	Heating	Nom	kW	24.61	26.72
EER [2]	Cooling	Nom		4.97	4.85
COP [2]	Heating	Nom		4.86	4.72
ESEER [3]		Nom		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			10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 2	290 x 2
Sound Pressure		Nom	dBA	62.5	62.5
Sound Power		Nom	dBA	73.5	73.5
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	7,200	7,200
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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)	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		64	64
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%	50 ~ 160%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUB420LTE4 / ARUB440LTE4 / ARUB460LTE4

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	118.9	124.5	128.8
	Heating	Nom	kW	132.3	138.6	144.5
Power Input [1]	Cooling	Nom	kW	25.68	27.56	29.69
	Heating	Nom	kW	27.80	30.13	32.23
EER [1]	Cooling	Nom		4.63	4.52	4.34
COP [1]	Heating	Nom		4.76	4.60	4.48
Power Input [2]	Cooling	Nom	kW	23.71	25.40	27.34
	Heating	Nom	kW	26.34	28.45	30.25
EER [2]	Cooling	Nom		5.01	4.90	4.71
COP [2]	Heating	Nom		5.02	4.87	4.78
ESEER [3]		Nom		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	1
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	250 x 2 + 210	290 x 2 + 210	210
Sound Pressure		Nom	dBA	63.9	63.9	59.0
Sound Power		Nom	dBA	74.9	74.9	70.0
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 × 1 + 245 x 1 + 208 × 1	280 × 1 + 245 x 1 + 208 × 1	280 × 1 + 245 x 1 + 208 × 1
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	(10.5 × 2) + 7.5	(10.5 × 2) + 7.5	(10.5 × 2) + 7.5
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	8,800	8,800	8,800
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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)	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

MULTI V IV

ARUB480LTE4 / ARUB500LTE4 / ARUB520LTE4

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
Power Input [1]	Cooling	Nom	kW	29.73	31.61	33.21
	Heating	Nom	kW	33.41	35.75	38.16
EER [1]	Cooling	Nom		4.52	4.43	4.38
COP [1]	Heating	Nom		4.53	4.41	4.29
Power Input [2]	Cooling	Nom	kW	26.77	28.46	29.93
	Heating	Nom	kW	30.10	32.21	34.52
EER [2]	Cooling	Nom		5.02	4.92	4.86
COP [2]	Heating	Nom		5.02	4.89	4.75
ESEER [3]		Nom		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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure		Nom	dBA	64.1	64.1	64.1
Sound Power		Nom	dBA	75.1	75.1	75.1
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 × 1	280 x 2 + 208 × 1	280 x 2 + 208 × 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	9,800	9,800	9,800
Power Supply			Φ/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)	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUB540LTE4 / ARUB560LTE4
ARUB580LTE4 / ARUB600LTE4

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	152.5	156.8	162.4	168.0
	Heating	Nom	kW	170.1	176.0	182.7	189.0
Power Input [1]	Cooling	Nom	kW	34.40	36.53	36.56	38.44
	Heating	Nom	kW	38.86	40.96	42.14	44.47
EER [1]	Cooling	Nom		4.43	4.29	4.44	4.37
COP [1]	Heating	Nom		4.38	4.30	4.34	4.25
Power Input [2]	Cooling	Nom	kW	31.56	33.50	32.93	34.62
	Heating	Nom	kW	36.32	38.12	37.97	40.08
EER [2]	Cooling	Nom		4.79	4.68	4.93	4.85
COP [2]	Heating	Nom		4.68	4.63	4.81	4.72
ESEER [3]		Nom		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			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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 + 210	290 + 210	290 + 210	250 + 210
Sound Pressure		Nom	dBA	62.0	62.0	62.3	62.3
Sound Power		Nom	dBA	73.0	73.0	73.3	73.3
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 × 1 + 208 × 1	245 × 1 + 208 × 1	280 × 1 + 208 × 1	280 × 1 + 208 × 1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5	10.5 + 7.5
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	5,200	5,200	6,200	6,200
Power Supply			Φ/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)	34.9(1-3/8)	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)	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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUB620LTE4 / ARUB640LTE4
ARUB660LTE4 / ARUB680LTE4 / ARUB700LTE4

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	176.2	181.8	186.1	193.0	197.3
	Heating	Nom	kW	194.9	201.6	207.5	214.2	220.1
Power Input [1]	Cooling	Nom	kW	39.37	39.41	41.54	43.17	45.30
	Heating	Nom	kW	42.22	43.40	45.50	48.07	50.17
EER [1]	Cooling	Nom		4.48	4.61	4.48	4.47	4.36
COP [1]	Heating	Nom		4.62	4.65	4.56	4.46	4.39
Power Input [2]	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
EER [2]	Cooling	Nom		4.66	4.89	4.79	4.76	4.67
COP [2]	Heating	Nom		4.67	4.83	4.78	4.66	4.62
ESEER [3]		Nom		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	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4
Sound Pressure		Nom	dBA	65.2	65.3	65.3	65.3	65.3
Sound Power		Nom	dBA	76.2	76.3	76.3	76.3	76.3
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 x 3	280 × 2 + 245 x 2	280 × 2 + 245 x 2	280 × 2 + 245 x 2	280 × 2 + 245 x 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 Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	11,400	12,400	12,400	12,400	12,400
Power Supply			Φ/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%

* This product contains Fluorinated Greenhouse Gases.(R410A)

ARUB720LTE4 / ARUB740LTE4
ARUB760LTE4 / ARUB780LTE4 / ARUB800LTE4

HP				72	74	76	78	80
Model	Combination Unit			ARUN720LTE4	ARUN740LTE4	ARUN760LTE4	ARUN780LTE4	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	202.9	207.2	212.8	218.4	224.0
	Heating	Nom	kW	226.8	232.7	239.4	245.7	252.0
Power Input 1)	Cooling	Nom	kW	45.33	47.46	47.49	49.38	51.26
	Heating	Nom	kW	51.35	53.45	54.63	56.96	59.29
EER 1)	Cooling	Nom		4.48	4.37	4.48	4.42	4.37
COP 1)	Heating	Nom		4.42	4.35	4.38	4.31	4.25
Power Input 2)	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
EER 2)	Cooling	Nom		4.87	4.78	4.97	4.91	4.85
COP 2)	Heating	Nom		4.77	4.72	4.86	4.79	4.72
ESEER 3)		Nom		7.03	7.00	6.98	6.88	6.78
Operation Range	Cooling	Min~Max	℃ DB	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃	-10℃ ~ 43℃
	Heating	Min~Max	℃ WB	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃	-25℃ ~ 18℃
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			10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)	10mmAq(100Pa)
Airflow Rate	Cooling	Max	m3/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4
Sound Pressure		Nom	dBA	65.4	65.4	65.5	65.5	65.5
Sound Power		Nom	dBA	76.4	76.4	76.5	76.5	76.5
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 × 3 + 245 x 1	280 × 3 + 245 x 1	280 × 4	280 × 4	280 × 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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	13,400	13,400	14,400	14,400	14,400
Power Supply			Φ/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)	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%

*This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1) Eurovent Test Condition : Maximum 4 Indoor units are connected
- Refer to EUROVENT certification regulation for more detail test conditions.
- Performances of Combination units are sum of Independent unit (Outdoor Units).

2) Performances are based on the following conditions.

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

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

3) ESEER calculation corresponds with below conditions and power input of indoor units is not included.
- Refer to PDB for more detail.
- Indoor temperature: 27℃(80.6℉) DB / 19℃(66.2℉) WB
- Outdoor temperature conditions.

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

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

4) Equivalent length

5) Conditional Application
- To make 40~90m of pipe length after first branch refer to the part of "Installation of outdoor units" in PDB

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

⚠ 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%

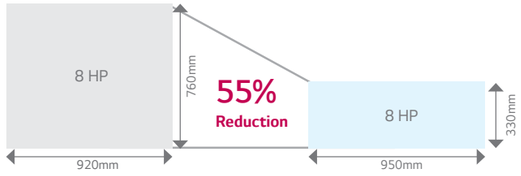
We can guarantee the operation only within 130% Combination.
If you want to connect more than 130% combination, please conta~ct us and discuss the requirement like below.

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.

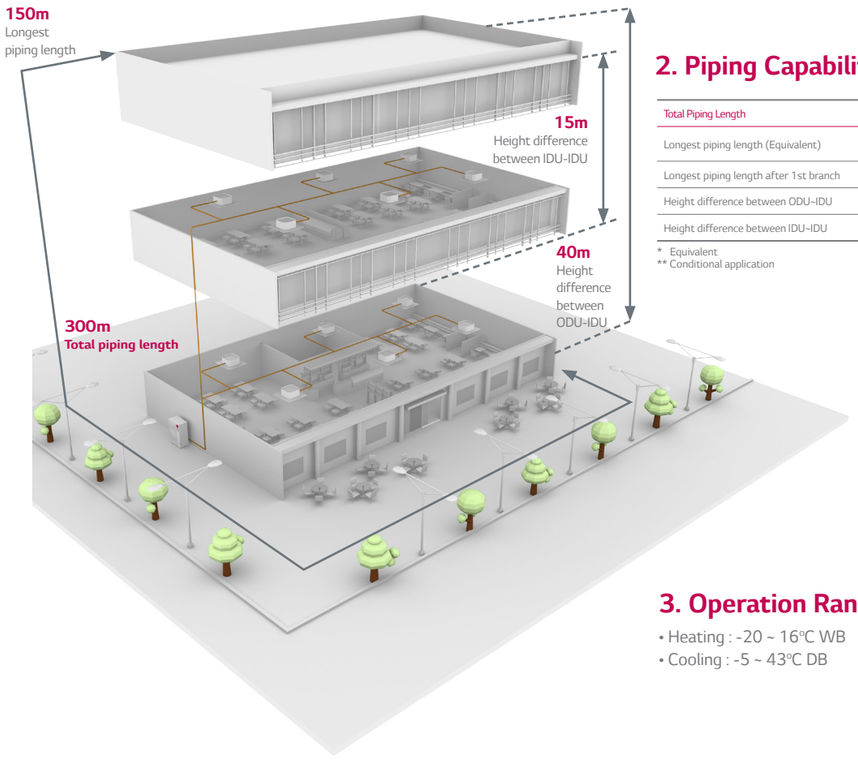
MULTI V S SOLUTION

MULTI V S

1. Compact Size



2. Piping Capabilities



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

* Equivalent
** Conditional application

3. Operation Range

- Heating : -20 ~ 16°C WB
- Cooling : -5 ~ 43°C DB

Benefit

- Saves valuable floor space
- Flexible design applications
  - Slim, light and wide line up(4 ~ 12 HP)
  - Combination of indoor unit

Application

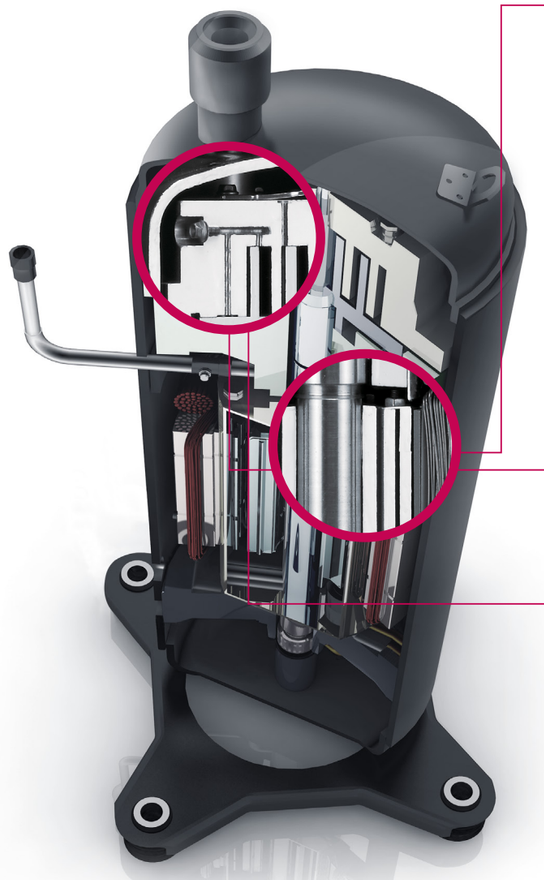
- Premium residential apartment / House (with small balcony)
- Small sized office / Restaurant / Retail shops
- Building with multiple owners

EFFICIENCY

World's first class, rated and part load efficiency

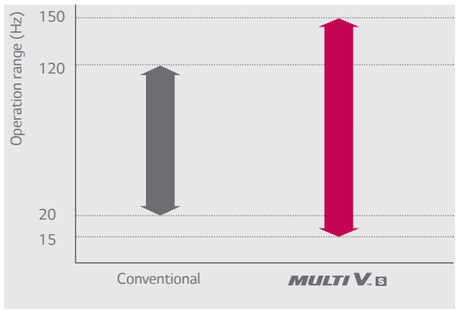
LG's 4th Generation Inverter Compressor

MULTI V S has high efficiency inverter scroll compressor with frequency range 15Hz~150Hz.



World Best Compressor Speed 150Hz

- Rapid response capability
- Compact core design(concentrated motor)
- Down to 15Hz : part load efficiency improvement



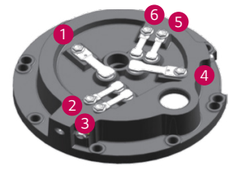
Vapor Injection

- Maximize heating capacity via two-stage compression
- Provide powerful heating in low temperature conditions
- Improve energy efficiency and heating performance

6 By-pass Valve

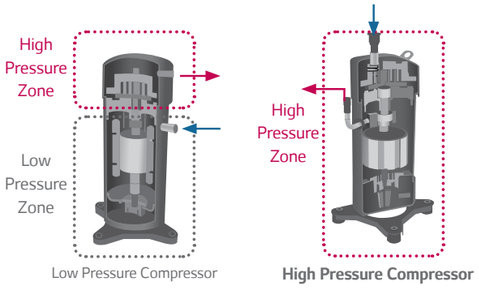
Compressor reliability is maximized with 6 By-pass Valve

- Prevent compressor damage due to excessively compressed refrigerant more efficiently than 4 by-pass valve



High Pressure Compressor

- Viscosity of oil is secured due to high temperature and pressure.
- Do not need oil pump. (Efficiency Increases)



Inverter Scroll Compressor

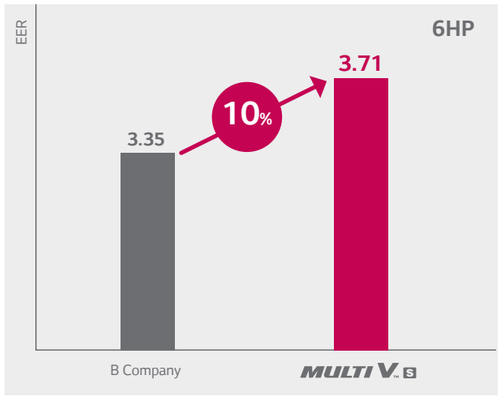
- Inverter SCROLL compressor of high efficiency
- Low vibration / Low noise

EFFICIENCY

World's first class, rated and part load efficiency

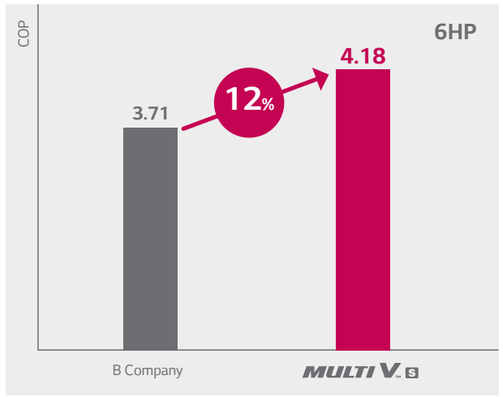
High Efficiency

EER(Cooling)



* Comparison Based on 6HP in cooling mode

COP(Heating)



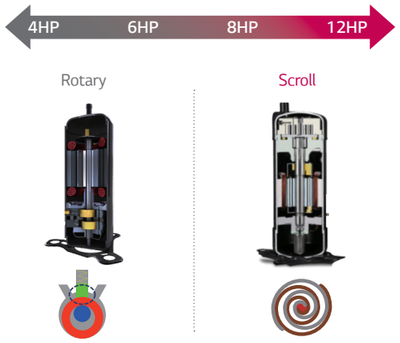
* Comparison Based on 6HP in heating mode

Reliable Inverter Compressor

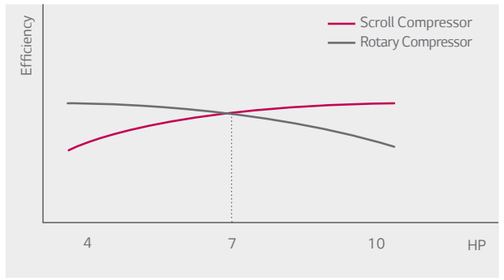
MULTI V S Inverter compressors are highly efficient and reliable for all commercial & residential applications.

MULTI V S

High reliability and efficiency at all capacity
- Below 7 HP : Rotary compressor
- Upper 7 HP : Scroll compressor



Compressor Efficiency Comparison



* Based on internal test data

EFFICIENCY

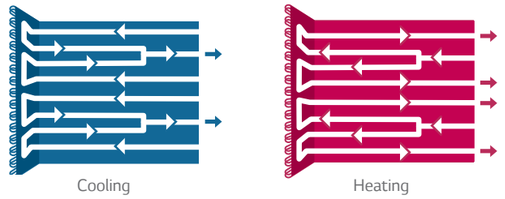
World's first class, rated and part load efficiency

Optimal Heat Exchanger Circuit

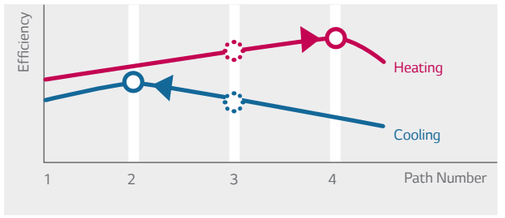
Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling (Efficiency increased up to 5%).

MULTI V S

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

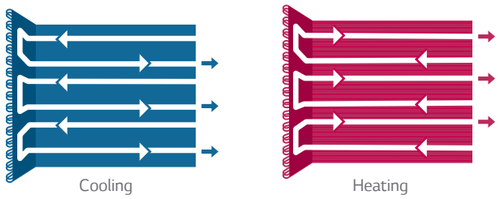


Maximizing efficiency for all operations

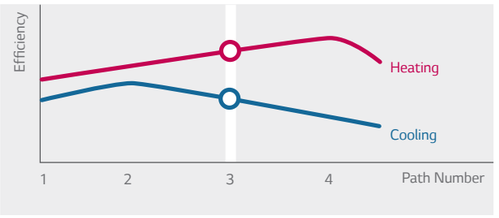


Conventional

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



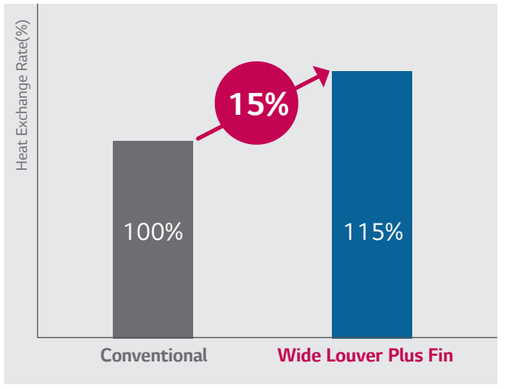
Compromising efficiency for each operation



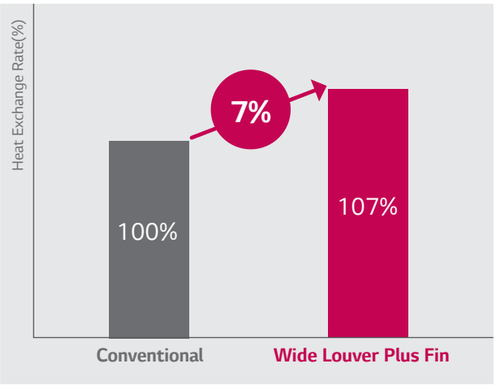
Heat Exchanger with Wide Louver Plus Fin

Improved heat exchanger efficiency of up to 15%

Cooling



Heating

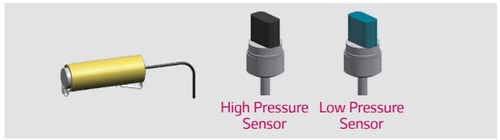


EFFICIENCY

World's first class, rated and part load efficiency

Pressure Sensor

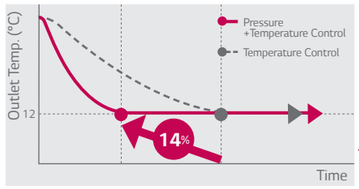
Temperature + Pressure Control



Senses and controls pressure directly using pressure sensor for faster and more exact response to load variation

Quick Operating Response

Pressure control takes up to 14% less time in cooling mode, to reach the desired temperature.



The indoor environment can be made more comfortable, faster and more accurately.

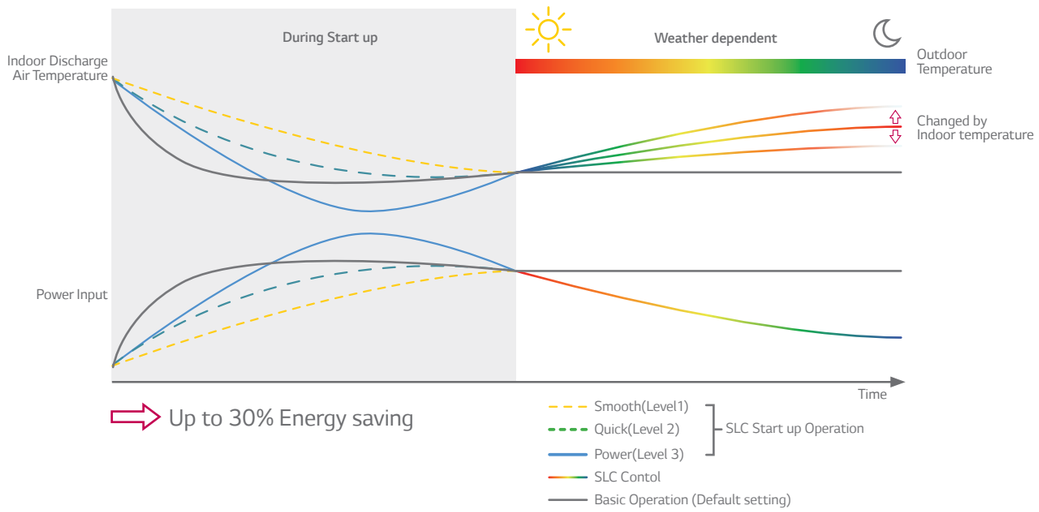
* Based on internal test data

Smart Load Control

MULTI V S changes indoor discharge air temperature continuously according to load, to save energy

Benefits:

- Energy efficiency increased by 3-step Smart Load Control during start-up phase
- Discharge air temperature adjusted according to outdoor and indoor temperature
- Comfort level in cooling/heating operations ensured



PERFORMANCE

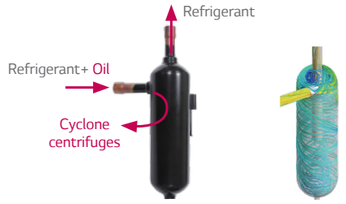
Always ahead of the competition and on the leading edge of innovation with powerful heating and unsurpassed cooling performance

High Reliability of Refrigerant Cycle

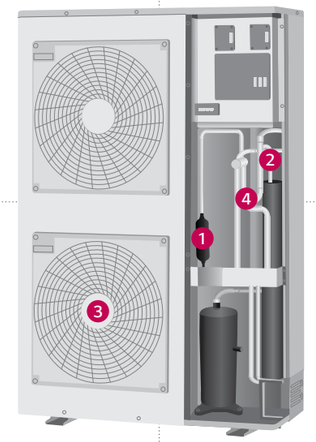
MULTI V S improved reliability through an excellent technique of Oil separator / Accumulator / Sub-cooling.

1. Cyclone Centrifuges Oil Separator

- Highly reliable and efficient oil separation by centrifugal separation using cyclone methods
- High collection efficiency as well as outstanding resistance to high temperature and pressure



Oil Separator



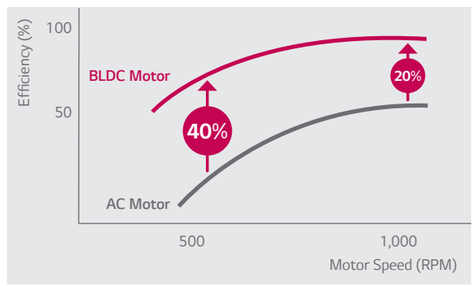
2. Large Volume Accumulator

- Improved reliability by adopting the large volume accumulator (138% volume up compared to conventional)
- Prevents the liquid refrigerant entering the compressor suction

Accumulator

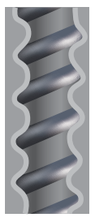
3. BLDC Fan Motor

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



4. Double Sub-cool Interchanger

- Reliability is enhanced by minimizing pressure drop due to high efficiency spiral structure and 2 times larger size
  ->Long pipe is possible (up to 175 m) and high elevation (up to 50 m)
  ->Reduction of indoor refrigerant noise level



Double Sub-cool Interchanger

PERFORMANCE

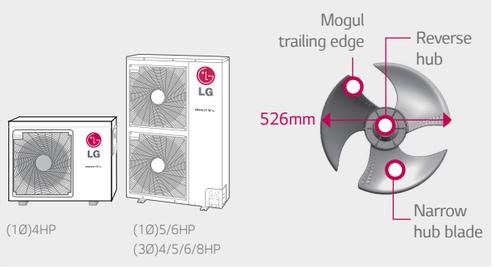
Always ahead of the competition and on the leading edge of innovation
with powerful heating and unsurpassed cooling performance

Fan Technology and E.S.P. Control

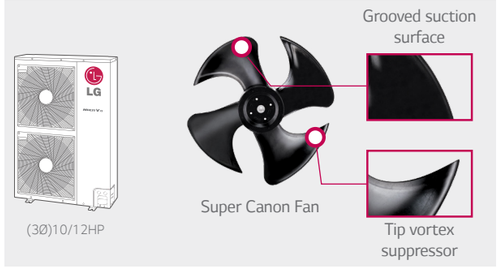
For efficient operation, newly developed fan blows higher air volume and has more high static pressure, also operating noise is decreased.

Fan Technology

The new axial fan has a mogul trailing edge, narrow hub blade and reverse hub, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.

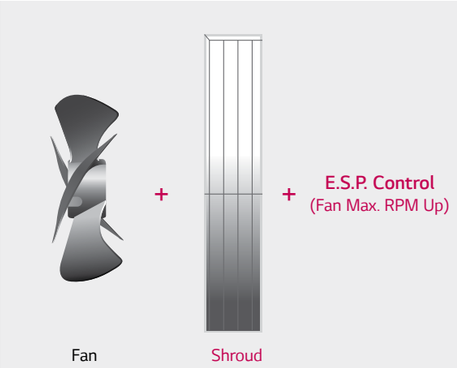


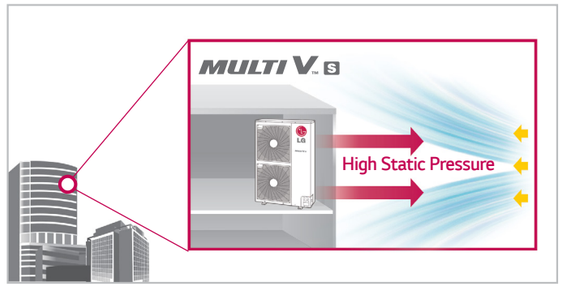
Super cannon fan increases the air volume in 50 CMM and the noise level is decreased by 4 dB(A).



High E.S.P. Technology

Flow of air has straightness due to fan shroud and E.S.P. control even in high-rise building.





• Straight air flow

- New shroud adopted
- Performs high static pressure

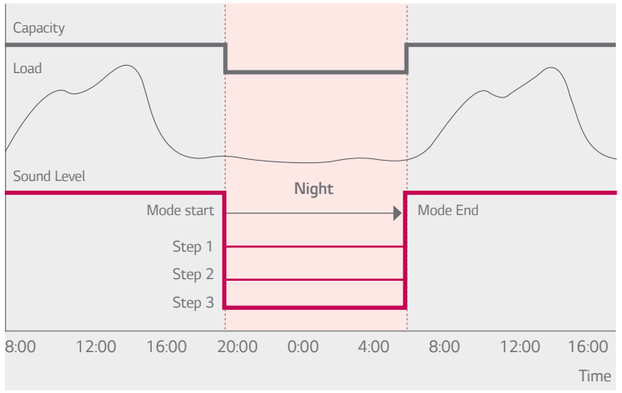
* E.S.P : External Static Pressure

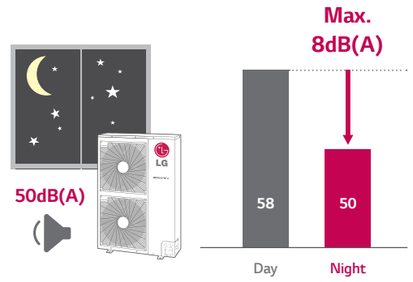
PERFORMANCE

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

Night Silent Operation

At night mode, noise reduced maximum 14% compared to normal mode.



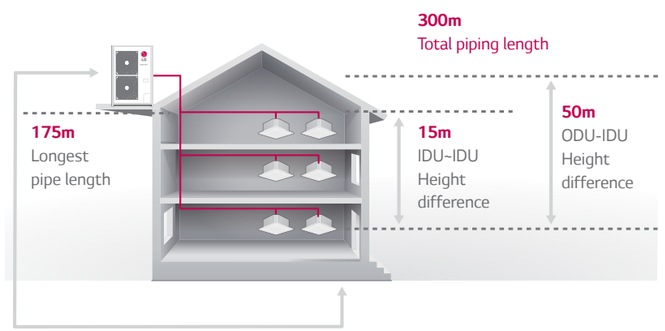


* Normal mode noise level (10HP) : 58dB(A)
* Night 3 step noise level (10HP) : 56dB(A), 53dB(A), 50dB(A)

Expanded Piping Capabilities

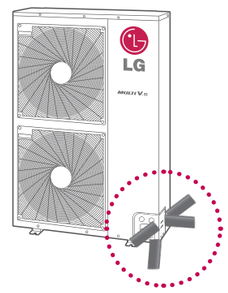
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient design.

Piping Capabilities



4 Way Piping

- Free design and installation by 4 way piping.

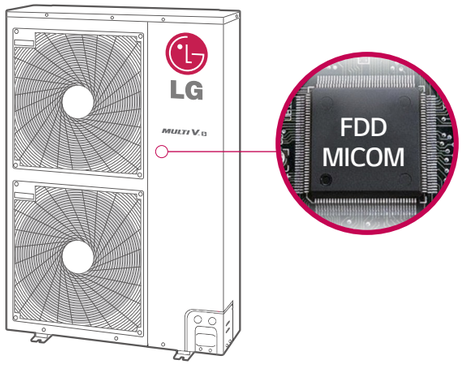


CONVENIENCE

Self-diagnostic maintenance solution, offering smart and reliable functionality

Upgraded Fault Detection and Diagnosis

The inclusion of FDD elements - Auto start-up, auto refrigerant check, black box functionality, simultaneous evaluation, and auto refrigerant collection, provides the optimal solution for user reliability and ease of maintenance.



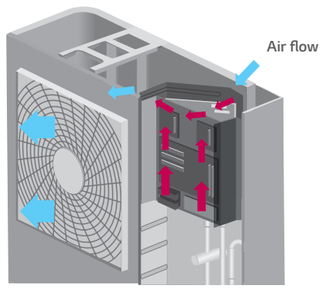
- Auto commissioning Mode
- Auto Refrigerant Collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function
- Piping & wiring error check-up

Self Cooled Control

MULTI V S has heat exchanger structure and diagonal shape of control box.(Efficiency increased up to 3%)

Control Box Cooling System

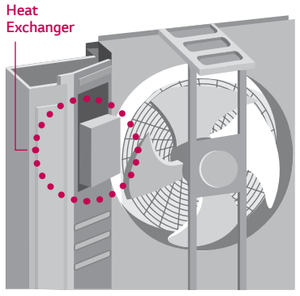
- Feature of control box is diagonal shape, it makes naturally air flowing(directly pulling air back of the fan)
- Reduced heating / cooling efficiency loss



Front view

Heat Exchanger Technology

- Heat exchanger structure
- Optimal air flow by aluminum heat exchanger on control box.



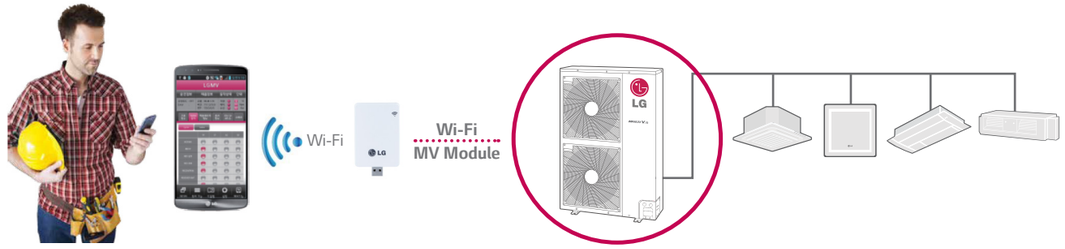
Rear view

CONVENIENCE

Self-diagnostic maintenance solution, offering smart and reliable functionality

Smartphone Monitoring & Control

Mobile LGMV helps users to monitor the MULTI V S system cycle using Wi-Fi MV Module.
Technicians can check LGMV data 10m away from MULTI V S outdoor with smartphone



Install /SVC Engineer

Mobile LGMV

Connection type : Wi-Fi
To use Mobile LGMV Application, exclusive Wi-Fi MV Module is required

Smart Phone Specification

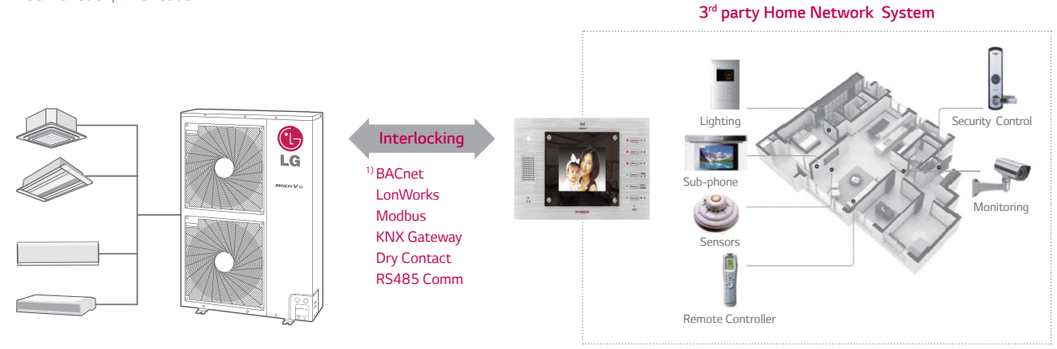
App. Name	OS	Recommended Specification	Resolution	Wireless communication effective distancd
Mobile LGMV	iOS (iPad only)	AppiOS 8.0/8.1	2048 x 1536 (optimization), 1024 x 768	• Effective distance : 10m(Open area) • The effective distance may be reduced by the communication environment
	Android	Android 4.4 (Android 3.x, Honeycomb not supported)	480 x 800, 720 x 1280, 768 x 1280, 768 x 1024, 1080 x 1920	

With Home Network System

Interlocking with home network system enables various application.
Depending on building size and usage, various communication method can be given.

Compatibility to Home Network System

- Basic control (On/Off, Mode, Setting Temp, Fan speed)
- Lock function, Error code



1)Appropriate PI 485 should be used according to PDB

ARUN040GSS0

1Ø 4HP

1ø / 220V

HP				4
Model	Independent Unit			ARUN040GSS0
Capacity	Cooling	Nom	kW	12.1
	Heating	Nom	kW	12.5
Power Input [1]	Cooling	Nom	kW	3.57
	Heating	Nom	kW	2.91
EER [1]	Cooling	Nom		3.39
COP [1]	Heating	Nom		4.30
Operation Range	Cooling	Min~Max	°C DB	-5°C ~ 43°C
	Heating	Min~Max	°C WB	-20°C ~ 18°C
Compressor	Type			BLDC Inverter Twin Rotary
	Number of Compressor			1
Fan	Type			Propeller fan
	Motor Type			DC Inverter motor
	Max static pressure			3mmAq(30Pa)
Airflow Rate	Cooling	Max	m3/min	60
Sound Pressure		Nom	dBA	50
Sound Power		Nom	dBA	66
Dimensions		WxHxD	mm	950 × 834 × 330
Net Weight			kg	69
Refrigerant	Type			R410A
	Charge		kg	1.8
Refrigerant Oil	Type			FVC68D(PVE)
	Control		cc	1,300
Power Supply			Φ/V/Hz	1 / 220~240 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm²	2C × 1.0 ~ 1.5
Piping Length	Total	Max	m	300
	Actual Longest Piping Length [2]	Max	m	150
	After 1st Y branch [3]	Max	m	40
Piping Level Difference	IDU-ODU	Max	m	50
	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		8
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :
1) Eurovent Test Condition : Maximum 4 Indoor units are connected.
- Refer to EUROVENT certification regulation for more detail test conditions.
2) Equivalent length
3) In case of outdoor unit installed lower than indoor unit

* 4HP Outdoor unit is not connectable with Hydro Kit
* Due to our policy of innovation some specifications may be changed without notification.

ARUN050GSS0 / ARUN060GSS0

1Ø 5HP, 6HP

1ø / 220V

HP				5	6
Model	Independent Unit			ARUN050GSS0	ARUN060GSS0
Capacity	Cooling	Nom	kW	14.0	15.5
	Heating	Nom	kW	16.0	18.0
Power Input [1]	Cooling	Nom	kW	3.51	4.18
	Heating	Nom	kW	3.60	4.31
EER [1]	Cooling	Nom		3.99	3.71
COP [1]	Heating	Nom		4.44	4.18
Operation Range	Cooling	Min~Max	°C DB	-5°C ~ 43°C	-5°C ~ 43°C
	Heating	Min~Max	°C WB	-20°C ~ 18°C	-20°C ~ 18°C
Compressor	Type			BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Number of Compressor			1	1
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max static pressure			3mmAq(30Pa)	3mmAq(30Pa)
Airflow Rate	Cooling	Max	m3/min	110	110
Sound Pressure		Nom	dBA	51	52
Sound Power		Nom	dBA	67	69
Dimensions		WxHxD	mm	950 × 1,380 × 330	950 × 1,380 × 330
Net Weight			kg	94	94
Refrigerant	Type			R410A	R410A
	Charge		kg	3.0	3.0
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,300	1,300
Power Supply			Φ/V/Hz	1 / 220~240 / 50, 60	1 / 220~240 / 50, 60
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 [2]	Max	m	150	150
	After 1st Y branch [3]	Max	m	40	40
Piping Level Difference	IDU-ODU	Max	m	50	50
	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		10	13
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%	50 ~ 160%

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :
1) Eurovent Test Condition : Maximum 4 Indoor units are connected.
- Refer to EUROVENT certification regulation for more detail test conditions.
2) Equivalent length
3) In case of outdoor unit installed lower than indoor unit

* 4HP Outdoor unit is not connectable with Hydro Kit
* Due to our policy of innovation some specifications may be changed without notification.

ARUN040LSS0 / ARUN050LSS0 / ARUN060LSS0

3ø / 380V

3Ø 4HP, 5HP, 6HP

HP				4	5	6
Model	Independent Unit			ARUN040LSS0	ARUN050LSS0	ARUN060LSS0
Capacity	Cooling	Nom	kW	12.1	14.0	15.5
	Heating	Nom	kW	12.5	16.0	18.0
Power Input [1]	Cooling	Nom	kW	2.88	3.56	4.18
	Heating	Nom	kW	2.79	3.60	4.31
EER [1]	Cooling	Nom		4.20	3.93	3.71
COP [1]	Heating	Nom		4.48	4.44	4.18
Operation Range	Cooling	Min~Max	℃ DB	-5℃ ~ 48℃	-5℃ ~ 48℃	-5℃ ~ 48℃
	Heating	Min~Max	℃ WB	-20℃ ~ 18℃	-20℃ ~ 18℃	-20℃ ~ 18℃
Compressor	Type			BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	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			3mmAq(30Pa)	3mmAq(30Pa)	3mmAq(30Pa)
Airflow Rate	Cooling	Max	m3/min	110	110	110
Sound Pressure		Nom	dBA	50	51	52
Sound Power		Nom	dBA	66	67	69
Dimensions		WxHxD	mm	950 × 1,380 × 330	950 × 1,380 × 330	950 × 1,380 × 330
Net Weight			kg	96	96	96
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0	3.0	3.0
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,300	1,300	1,300
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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	300	300	300
	Actual Longest Piping Length [2]	Max	m	150	150	150
	After 1st Y branch [3]	Max	m	40	40	40
Piping Level Difference	IDU-ODU	Max	m	50	50	50
	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)	15.88(5/8)	15.88(5/8)	19.05(3/4)
Number of Outdoor Units				1	1	1
Number of Connectable Indoor Units *****		Max		8	10	13
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%	50 ~ 160%	50 ~ 160%

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :
1) Eurovent Test Condition : Maximum 4 Indoor units are connected.
- Refer to EUROVENT certification regulation for more detail test conditions.
2) Equivalent length
3) In case of outdoor unit installed lower than indoor unit

* 4HP Outdoor unit is not connectable with Hydro Kit
* Due to our policy of innovation some specifications may be changed without notification.

ARUN080LSS0 / ARUN100LSS0 / ARUN120LSS0

3ø / 380V

3Ø 8HP, 10HP, 12HP

HP				8	10	12
Model	Independent Unit			ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
Capacity	Cooling	Nom	kW	22.4	28.0	33.6
	Heating	Nom	kW	24.5	30.6	36.7
Power Input [1]	Cooling	Nom	kW	6.27	8.70	10.50
	Heating	Nom	kW	6.28	7.56	9.66
EER [1]	Cooling	Nom		3.57	3.22	3.20
COP [1]	Heating	Nom		3.90	4.05	3.80
Operation Range	Cooling	Min~Max	℃ DB	-5℃ ~ 48℃	-5℃ ~ 48℃	-5℃ ~ 48℃
	Heating	Min~Max	℃ WB	-20℃ ~ 18℃	-20℃ ~ 18℃	-20℃ ~ 18℃
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max static pressure			3mmAq(30Pa)	3mmAq(30Pa)	3mmAq(30Pa)
Airflow Rate	Cooling	Max	m3/min	130	190	190
Sound Pressure		Nom	dBA	59	60	62
Sound Power		Nom	dBA	74	77	78
Dimensions		WxHxD	mm	950 × 1,380 × 330	1,090 x 1,625 x 380	1,090 x 1,625 x 380
Net Weight			kg	115	144	157
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.5	4.5	6.0
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	2,400	2,600	3,400
Power Supply			Φ/V/Hz	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60	3 / 380~415 / 50, 60
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	300	300	300
	Actual Longest Piping Length [2]	Max	m	150	150	150
	After 1st Y branch [3]	Max	m	40	40	40
Piping Level Difference	IDU-ODU	Max	m	50	50	50
	IDU-IDU	Max	m	15	15	15
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	16	20
Ratio of the Connectable Indoor Units		Min - Max		50 ~ 160%	50 ~ 160%	50 ~ 160%

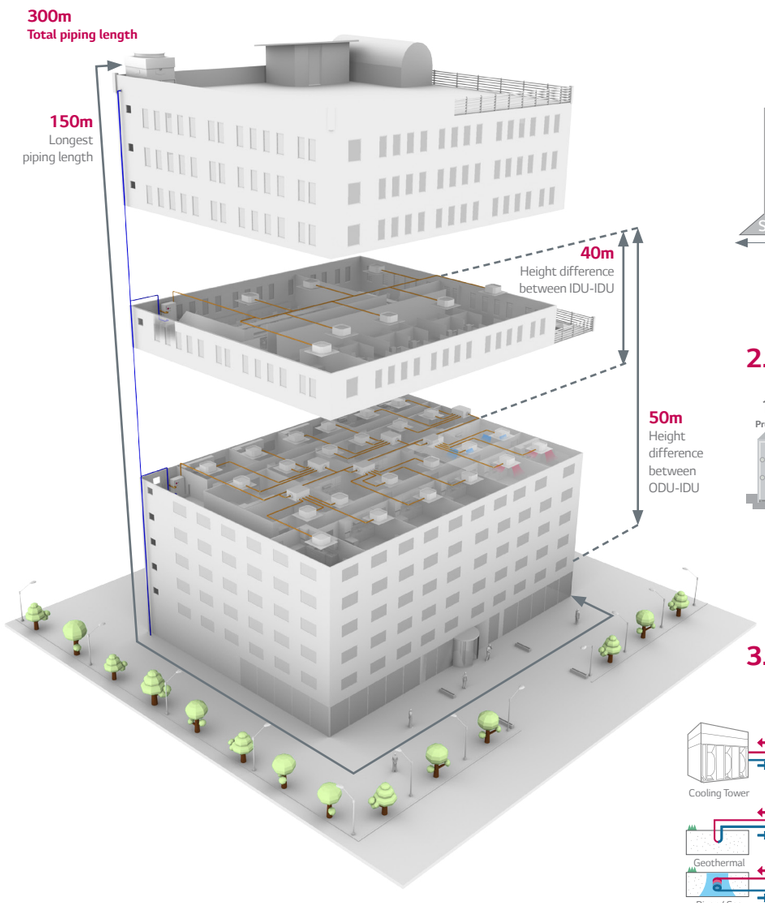
* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :
1) Eurovent Test Condition : Maximum 4 Indoor units are connected.
- Refer to EUROVENT certification regulation for more detail test conditions.
2) Equivalent length
3) In case of outdoor unit installed lower than indoor unit

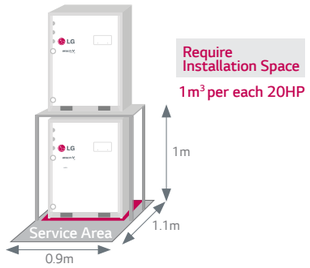
* 4HP Outdoor unit is not connectable with Hydro Kit
* Due to our policy of innovation some specifications may be changed without notification.

MULTI V WATER SOLUTION
(HEAT PUMP / HEAT RECOVERY)

MULTI V™ WATER IV

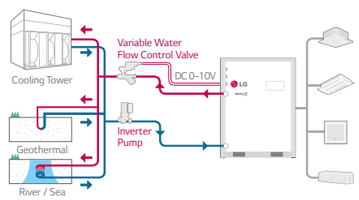


1. Compact Size



2. Light Weight

3. Variable Water Flow Control Kit



Benefit

- Saves valuable floor space
- Low noise level (no fans)
- Flexible design applications
- High efficient water source system

Application

- Large scale office
- Commercial building using geothermal / Water supply
- Luxurious residential building

MULTI V™ WATER IV

SUPERIOR EFFICIENCY VIA 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.

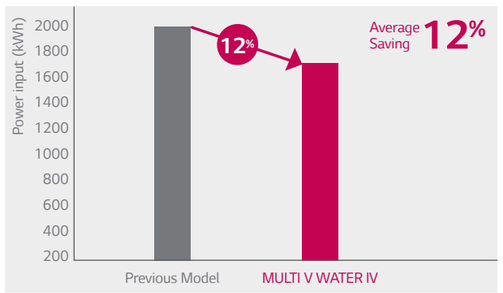
Offering several performance enhancements and greater installation versatility, LG's MULTI V WATER IV combines intelligent functions with advanced inverter technology; boosting both energy efficiency and operational range. This superior water cooled system significantly improves return on investment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

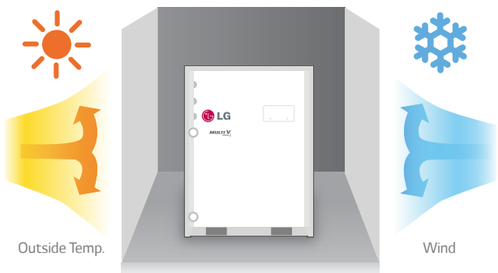
Adopting a water-based cooling method, this unit optimizes performance in comparison to compressor capacity. It also ensures heat exchange performance for high-rise buildings, thus allowing electrical-savings.



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

HIGH EFFICIENCY SYSTEM REGARDLESS OF EXTERNAL CONDITIONS

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.

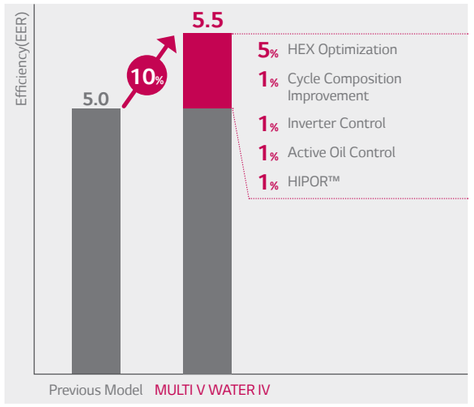


EFFICIENCY

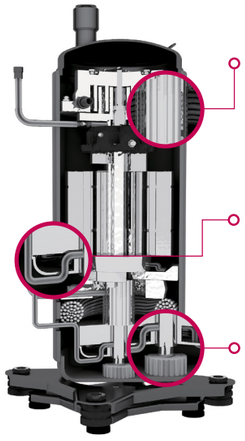
Designed to maximize energy efficiency for high-rise building

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



Extended Compressor Speed 20Hz ~ 140Hz
- Rapid operation response
- Capable of reaching required temperature quickly
- Increase part load efficiency

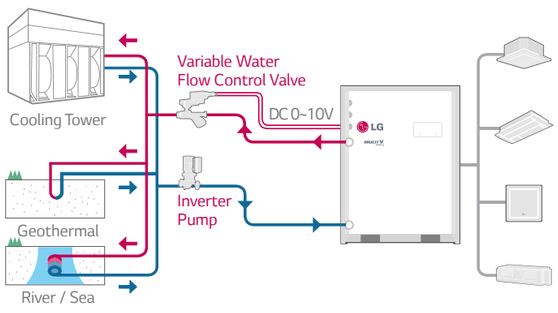
HiPOR™ (High Pressure Oil Return)
- Eliminating loss in suction gas by returning oil directly to compressor
- Resolve compressor efficiency loss caused by oil return

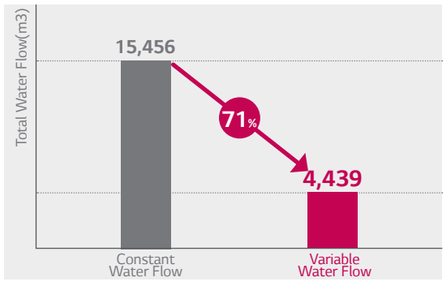
Smart Oil Return
- **Oil recovery occurs only when required**
- Enhanced compressor reliability & user comfort

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





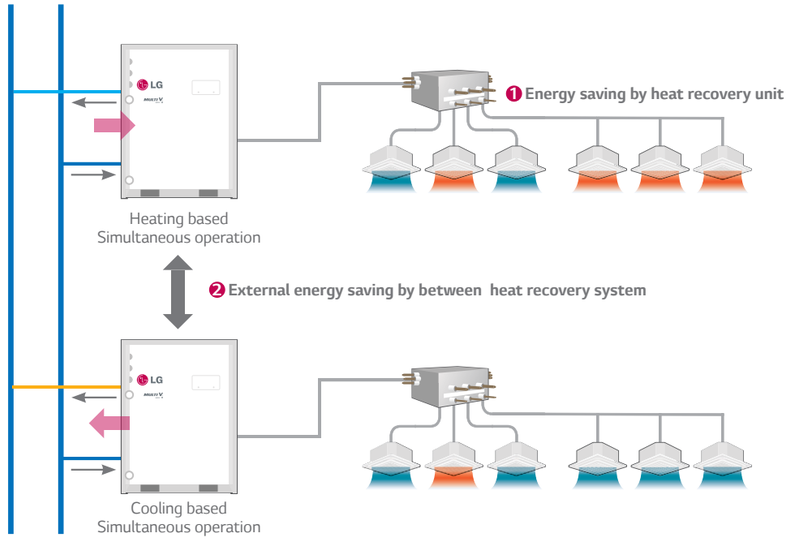
Note
1. Location: France
2. Total operationn time: 1,344hr
3. Indoor temperature: normal office environment
4. Outdoor temperature: average summer temperature
5. Inlet flow temperature: approximately 30°C

PERFORMANCE

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

Minimizing Energy Input

Through water sourced heat recovery system, minimizing not only outside unit power input but also external energy input such as cooling tower and boiler.



Largest Capacity

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

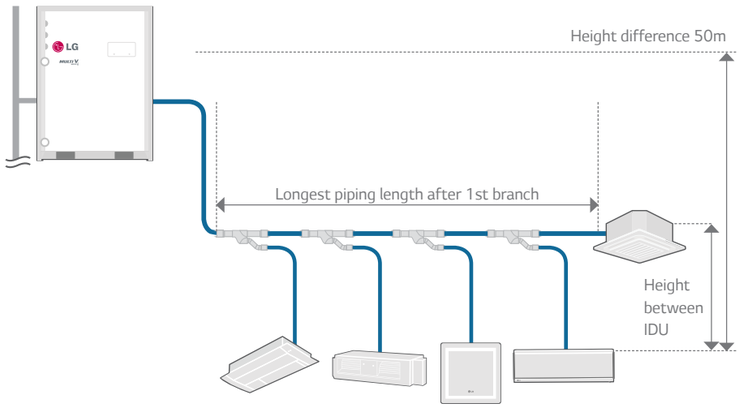
Line up (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42~60	62~80
LG	1 Unit							2 Units										3 Units	4 Units
Company B	1 Unit	-	-			2 Units	-			3 Units		-	-	-	-	-		-	-
Company C	1 Unit		-			2 Units				3 Units						-	-	-	-

FLEXIBLE DESIGN

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.



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

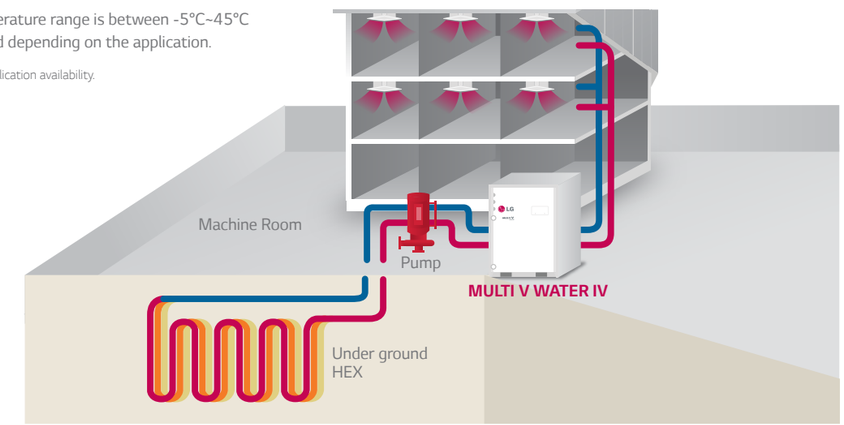
* Equivalent
** Conditional application

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.



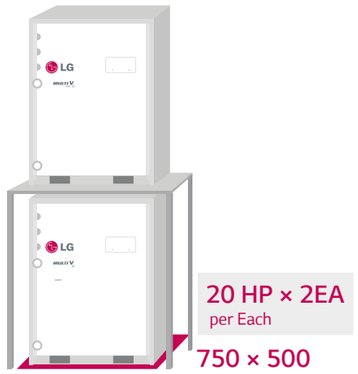
FLEXIBLE DESIGN

Easy design with the most convenient features

Compact Size

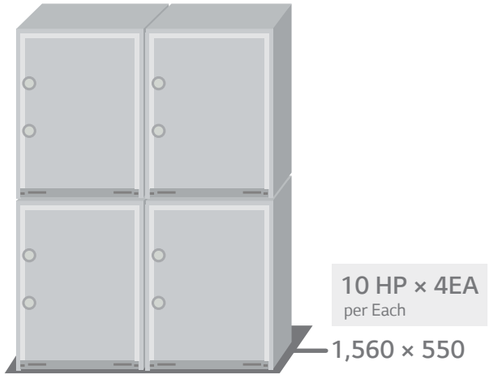
The optimal design of the compact, lightweight outdoor unit enables double stacking, which results in 50% savings in installation space.

MULTI V WATER IV



* 40HP Capacity Installation scene

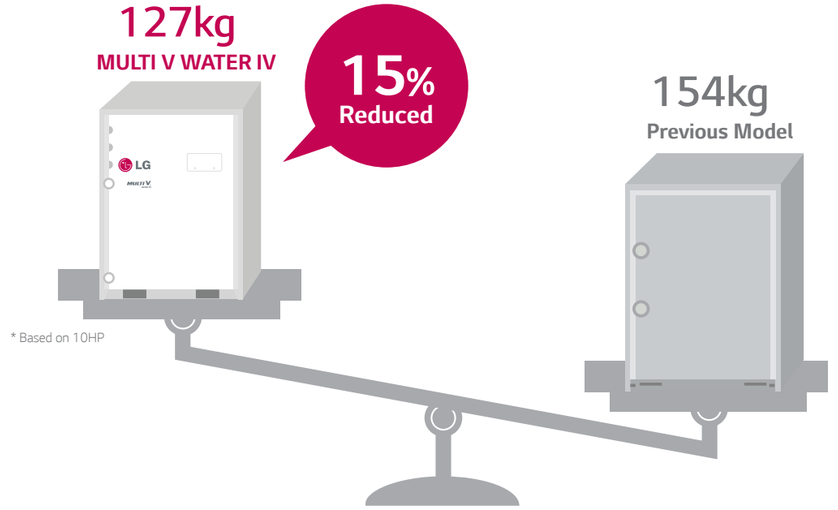
Company B



* Double stacking floor area
** 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

ARWN080LAS4 / ARWN100LAS4 / ARWN120LAS4

HP				8	10	12
Model	Combination Unit			ARWN080LAS4	ARWN100LAS4	ARWN120LAS4
	Independent Unit			ARWN080LAS4	ARWN100LAS4	ARWN120LAS4
Capacity	Cooling	Nom	kW	22.4	28.0	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	Cooling			5.80	5.50	5.20
COP	Heating			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		Nom	dBA	51	53	56
Sound Power		Nom	dBA	63	65	68
Dimensions		WxHxD	mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200	1,200	1,200
Power Supply			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150
	After 1st Y branch **	Max	m	40	40	40
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		20	25	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
	Rated Water Flow		L/min	77	96	116
	Head Loss		kPa	11	16	22
Water Connection pipe	Inlet		mm	PT 40	PT 40	PT 40
	Outlet		mm	PT 40	PT 40	PT 40
	Drain Outlet		mm	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWN140LAS4 / ARWN160LAS4 ARWN180LAS4 / ARWN200LAS4

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	56.0
	Heating	Nom	kW	44.1	50.4	56.7	63.0
Power Input	Cooling	Nom	kW	7.84	8.15	9.69	11.20
	Heating	Nom	kW	8.17	8.54	10.13	11.67
EER	Cooling			5.00	5.50	5.20	5.00
COP	Heating			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		Nom	dBA	57	57	56	60
Sound Power		Nom	dBA	70	69	68	72
Dimensions		WxHxD	mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200	1,400	1,400	1,400
Power Supply			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150	150
	After 1st Y branch **	Max	m	40	40	40	40
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		35	40	45	45
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
	Rated Water Flow		L/min	135	154	173	192
	Head Loss		kPa	29	20	25	31
Water Connection pipe	Inlet		mm	PT 40	PT 40	PT 40	PT 40
	Outlet		mm	PT 40	PT 40	PT 40	PT 40
	Drain Outlet		mm	20	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWN220LAS4 / ARWN240LAS4

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	13.50
EER	Cooling			5.33	5.20
COP	Heating			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		Nom	dBA	57	57
Sound Power		Nom	dBA	70	70
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200 + 1,200	1,200 + 1,200
Power Supply			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	150
	After 1st Y branch **	Max	m	40	40
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		44	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
	Rated Water Flow		L/min	116 + 96	116 + 116
	Head Loss		kPa	22 + 16	22 + 22
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

MULTI V™ WATER IV

ARWN260LAS4 / ARWN280LAS4

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	14.30	15.68
	Heating	Nom	kW	14.92	16.34
EER	Cooling			5.09	5.00
COP	Heating			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		Nom	dBA	58	58
Sound Power		Nom	dBA	72	72
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200 + 1,200	1,200 + 1,200
Power Supply			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	150
	After 1st Y branch **	Max	m	40	40
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		52	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
	Rated Water Flow		L/min	135 + 116	135 + 135
	Head Loss		kPa	29 + 22	29 + 29
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWN300LAS4 / ARWN320LAS4 / ARWN340LAS4

HP				30	32	34
Model	Combination Unit			ARWN300LAS4	ARWN320LAS4	ARWN340LAS4
	Independent Unit			ARWN140LAS4	ARWN140LAS4	ARWN140LAS4
				ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
Capacity	Cooling	Nom	kW	84.0	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	18.30	19.84
EER	Cooling			5.25	5.11	5.00
COP	Heating			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		Nom	dBA	58	58	61
Sound Power		Nom	dBA	72	72	74
Dimensions		WxHxD	mm	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight			kg	(127 x 1) + (140 x 1)	(127 x 1) + (140 x 1)	(127 x 1) + (140 x 1)
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0 + 5.8	3.0 + 5.8	3.0 + 5.8
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			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150
	After 1st Y branch **	Max	m	40	40	40
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		60	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
	Rated Water Flow		L/min	154 + 135	173 + 135	192 + 135
	Head Loss		kPa	20 + 29	25 + 29	31 + 29
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

MULTI V™ WATER IV

ARWN360LAS4 / ARWN380LAS4 / ARWN400LAS4

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	112.0
	Heating	Nom	kW	113.4	119.7	126.0
Power Input	Cooling	Nom	kW	19.38	20.89	22.40
	Heating	Nom	kW	20.26	21.80	23.34
EER	Cooling			5.20	5.09	5.00
COP	Heating			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		Nom	dBA	57	61	61
Sound Power		Nom	dBA	70	74	74
Dimensions		WxHxD	mm	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight			kg	140 x 2	140 x 2	140 x 2
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0 + 3.0	3.0 + 3.0	3.0 + 3.0
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			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150
	After 1st Y branch **	Max	m	40	40	40
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		64	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
	Rated Water Flow		L/min	173 + 173	192 + 173	192 + 192
	Head Loss		kPa	25 + 25	31 + 25	31 + 31
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWN420LAS4 / ARWN440LAS4
ARWN460LAS4 / ARWN480LAS4 / ARWN500LAS4

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	140.0
	Heating	Nom	kW	132.3	138.6	144.9	151.2	157.5
Power Input	Cooling	Nom	kW	22.75	24.12	25.50	26.88	27.19
	Heating	Nom	kW	23.76	25.17	26.59	28.01	28.38
EER	Cooling			5.17	5.11	5.05	5.00	5.15
COP	Heating			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	℃ DB	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃
	Heating	Min~Max	℃ WB	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃
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		Nom	dBA	62	62	62	62	62
Sound Power		Nom	dBA	76	76	76	76	76
Dimensions		WxHxD	mm	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3
Net Weight			kg	(140 x 1) + (127 X 2)	(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 + 5.8 + 5.8	3.0 + 3.0 + 5.8
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			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150	150	150
	After 1st Y branch **	Max	m	40	40	40	40	40
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
	Rated Water Flow		L/min	192 + 116 + 96	192 + 116 + 116	192 + 135 + 116	192 + 135 + 135	192 + 154 + 135
	Head Loss		kPa	31 + 22 + 16	31 + 22 + 22	31 + 29 + 22	31 + 29 + 29	31 + 20 + 29
Water Connection pipe	Inlet		mm	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	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

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWN520LAS4 / ARWN540LAS4
ARWN560LAS4 / ARWN580LAS4 / ARWN600LAS4

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	168.0
	Heating	Nom	kW	163.8	170.1	176.4	182.7	189.0
Power Input	Cooling	Nom	kW	28.73	30.24	30.58	32.09	33.60
	Heating	Nom	kW	29.97	31.51	31.93	33.47	35.01
EER	Cooling			5.07	5.00	5.13	5.06	5.00
COP	Heating			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	℃ DB	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃
	Heating	Min-Max	℃ WB	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃
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		Nom	dBA	62	62	62	62	62
Sound Power		Nom	dBA	76	76	76	76	76
Dimensions		WxHxD	mm	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3
Net Weight			kg	(140 x 2) + (127 X 1)	(140 x 2) + (127 X 1)	140 x 3	140 x 3	140 x 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
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			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150	150	150
	After 1st Y branch **	Max	m	40	40	40	40	40
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
	Rated Water Flow		L/min	192 + 173 + 135	192 + 192 + 135	192 + 173 + 173	192 + 192+ 173	192 + 192+ 192
	Head Loss		kPa	31 + 25 + 29	31 + 31 + 29	31 + 25 + 25	31 + 31 + 25	31 + 31 + 31
Water Connection pipe	Inlet		mm	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	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

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWN620LAS4 / ARWN640LAS4
ARWN660LAS4 / ARWN680LAS4 / ARWN700LAS4

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	196.0
	Heating	Nom	kW		195.3	201.6	207.9	214.2	220.5
Power Input	Cooling	Nom	kW		33.95	35.32	36.70	38.08	38.39
	Heating	Nom	kW		35.43	36.84	38.26	39.68	40.05
EER	Cooling				5.11	5.07	5.04	5.00	5.11
COP	Heating				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	℃ DB		10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃
	Heating	Min~Max	℃ WB		-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃
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		Nom	dBA		63	63	63	63	63
Sound Power		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		3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 3.0 + 5.8
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			Φ/V/Hz		3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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		300	300	300	300	300
	Actual Longest Piping Length *	Max	m		150	150	150	150	150
	After 1st Y branch **	Max	m		40	40	40	40	40
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/cm²		45	45	45	45	45
	Rated 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		31 + 31 + 22 + 16	31 + 31 + 22 + 22	31 + 31 + 29 + 22	31 + 31 + 29 + 29	31 + 31 + 20 + 29
Water Connection pipe	Inlet		mm		PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT40
	Outlet		mm		PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT40
	Drain Outlet		mm		20	20	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

* ( ) : Conditional application

ARWN720LAS4 / ARWN740LAS4
ARWN760LAS4 / ARWN780LAS4 / ARWN800LAS4

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	224.0
	Heating	Nom	kW		226.8	233.1	239.4	245.7	252.0
Power Input	Cooling	Nom	kW		39.93	41.44	41.78	43.29	44.80
	Heating	Nom	kW		41.64	43.18	43.60	45.14	46.68
EER	Cooling				5.05	5.00	5.09	5.05	5.00
COP	Heating				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	℃ DB		10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃
	Heating	Min~Max	℃ WB		-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃
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		Nom	dBA		63	63	63	63	63
Sound Power		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 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4	140 x 4	140 x 4
Refrigerant	Type				R410A	R410A	R410A	R410A	R410A
	Charge		kg		3.0 + 3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0 + 3.0
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			Φ/V/Hz		3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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		300	300	300	300	300
	Actual Longest Piping Length *	Max	m		150	150	150	150	150
	After 1st Y branch **	Max	m		40	40	40	40	40
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
	Rated 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		31 + 31 + 25 + 29	31 + 31 + 31 + 29	31 + 31 + 25 + 25	31 + 31 + 31 + 25	31 + 31 + 31 + 31
Water Connection pipe	Inlet		mm		PT 40 + PT 40 + PT 40 + PT40	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		PT 40 + PT 40 + PT 40 + PT40	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

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

* ( ) : Conditional application

ARWB080LAS4 / ARWB100LAS4 / ARWB120LAS4

HP				8	10	12
Model	Combination Unit			ARWB080LAS4	ARWB100LAS4	ARWB120LAS4
	Independent Unit			ARWB080LAS4	ARWB100LAS4	ARWB120LAS4
Capacity	Cooling	Nom	kW	22.4	28.0	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	Cooling			5.80	5.50	5.20
COP	Heating			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		Nom	dBA	51	53	56
Sound Power		Nom	dBA	63	65	68
Dimensions		WxHxD	mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200	1,200	1,200
Power Supply			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150
	After 1st Y branch **	Max	m	40	40	40
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		20	25	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
	Rated Water Flow		L/min	77	96	116
	Head Loss		kPa	11	16	22
Water Connection pipe	Inlet		mm	PT 40	PT 40	PT 40
	Outlet		mm	PT 40	PT 40	PT 40
	Drain Outlet		mm	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWB140LAS4 / ARWB160LAS4 ARWB180LAS4 / ARWB200LAS4

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	56.0
	Heating	Nom	kW	44.1	50.4	56.7	63.0
Power Input	Cooling	Nom	kW	7.84	8.15	9.69	11.20
	Heating	Nom	kW	8.17	8.54	10.13	11.67
EER	Cooling			5.00	5.50	5.20	5.00
COP	Heating			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		Nom	dBA	57	57	56	60
Sound Power		Nom	dBA	70	69	68	72
Dimensions		WxHxD	mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200	1,400	1,400	1,400
Power Supply			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150	150
	After 1st Y branch **	Max	m	40	40	40	40
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		35	40	45	45
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
	Rated Water Flow		L/min	135	154	173	192
	Head Loss		kPa	29	20	25	31
Water Connection pipe	Inlet		mm	PT 40	PT 40	PT 40	PT 40
	Outlet		mm	PT 40	PT 40	PT 40	PT 40
	Drain Outlet		mm	20	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWB220LAS4 / ARWB240LAS4

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	13.50
EER	Cooling			5.33	5.20
COP	Heating			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		Nom	dBA	57	57
Sound Power		Nom	dBA	70	70
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200 + 1,200	1,200 + 1,200
Power Supply			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	150
	After 1st Y branch **	Max	m	40	40
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		44	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
	Rated Water Flow		L/min	116 + 96	116 + 116
	Head Loss		kPa	22 + 16	22 + 22
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

MULTI V™ WATER IV

ARWB260LAS4 / ARWB280LAS4

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	14.30	15.68
	Heating	Nom	kW	14.92	16.34
EER	Cooling			5.09	5.00
COP	Heating			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		Nom	dBA	58	58
Sound Power		Nom	dBA	72	72
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
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)
	Control		cc	1,200 + 1,200	1,200 + 1,200
Power Supply			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	150
	After 1st Y branch **	Max	m	40	40
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		52	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
	Rated Water Flow		L/min	135 + 116	135 + 135
	Head Loss		kPa	29 + 22	29 + 29
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWB300LAS4 / ARWB320LAS4 / ARWB340LAS4

HP					30	32	34
Model	Combination Unit				ARWB300LAS4	ARWB320LAS4	ARWB340LAS4
	Independent Unit				ARWB140LAS4	ARWB140LAS4	ARWB140LAS4
					ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW		84.0	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	18.30	19.84
EER	Cooling				5.25	5.11	5.00
COP	Heating				5.66	5.51	5.40
ESEER					7.12	7.07	7.01
Operation Range	Cooling	Min~Max	℃ DB		10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃
	Heating	Min~Max	℃ WB		-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				2	2	2
Sound Pressure		Nom	dBA		58	58	61
Sound Power		Nom	dBA		72	72	74
Dimensions		WxHxD	mm		(755 × 997 × 500) x 2	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight			kg		(127 x 1) + (140 x 1)	(127 x 1) + (140 x 1)	(127 x 1) + (140 x 1)
Refrigerant	Type				R410A	R410A	R410A
	Charge		kg		3.0 + 5.8	3.0 + 5.8	3.0 + 5.8
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			Φ/V/Hz		3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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		300	300	300
	Actual Longest Piping Length *	Max	m		150	150	150
	After 1st Y branch **	Max	m		40	40	40
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			60	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
	Rated Water Flow		L/min		154 + 135	173 + 135	192 + 135
	Head Loss		kPa		20 + 29	25 + 29	31 + 29
Water Connection pipe	Inlet		mm		PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm		PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm		20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

* ( ) : Conditional application

ARWB360LAS4 / ARWB380LAS / ARWB400LAS4

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	112.0
	Heating	Nom	kW		113.4	119.7	126.0
Power Input	Cooling	Nom	kW		19.38	20.89	22.40
	Heating	Nom	kW		20.26	21.80	23.34
EER	Cooling				5.20	5.09	5.00
COP	Heating				5.60	5.49	5.40
ESEER					7.11	7.06	7.01
Operation Range	Cooling	Min~Max	℃ DB		10 ℃ ~ 45 ℃	10 ℃ ~ 45 ℃	10 ℃ ~ 45 ℃
	Heating	Min~Max	℃ WB		-5 ℃ ~ 45 ℃	-5 ℃ ~ 45 ℃	-5 ℃ ~ 45 ℃
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				2	2	2
Sound Pressure		Nom	dBA		57	61	61
Sound Power		Nom	dBA		70	74	74
Dimensions		WxHxD	mm		(755 × 997 × 500) x 2	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight			kg		140 x 2	140 x 2	140 x 2
Refrigerant	Type				R410A	R410A	R410A
	Charge		kg		3.0 + 3.0	3.0 + 3.0	3.0 + 3.0
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			Φ/V/Hz		3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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		300	300	300
	Actual Longest Piping Length *	Max	m		150	150	150
	After 1st Y branch **	Max	m		40	40	40
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			64	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
	Rated Water Flow		L/min		173 + 173	192 + 173	192 + 192
	Head Loss		kPa		25 + 25	31 + 25	31 + 31
Water Connection pipe	Inlet		mm		PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm		PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm		20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

* ( ) : Conditional application

ARWB420LAS4 / ARWB440LAS4
ARWB460LAS4 / ARWB480LAS4 / ARWB500LAS4

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	140.0
	Heating	Nom	kW		132.3	138.6	144.9	151.2	157.5
Power Input	Cooling	Nom	kW		22.75	24.12	25.50	26.88	27.19
	Heating	Nom	kW		23.76	25.17	26.59	28.01	28.38
EER	Cooling				5.17	5.11	5.05	5.00	5.15
COP	Heating				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	℃ DB		10 ℃ ~ 45 ℃	10 ℃ ~ 45 ℃	10 ℃ ~ 45 ℃	10 ℃ ~ 45 ℃	10 ℃ ~ 45 ℃
	Heating	Min~Max	℃ WB		-5 ℃ ~ 45 ℃	-5 ℃ ~ 45 ℃	-5 ℃ ~ 45 ℃	-5 ℃ ~ 45 ℃	-5 ℃ ~ 45 ℃
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		Nom	dBA		62	62	62	62	62
Sound Power		Nom	dBA		76	76	76	76	76
Dimensions		WxHxD	mm		(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3
Net Weight			kg		(140 x 1) + (127 X 2)	(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 + 5.8 + 5.8	3.0 + 3.0 + 5.8
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			Φ/V/Hz		3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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		300	300	300	300	300
	Actual Longest Piping Length *	Max	m		150	150	150	150	150
	After 1st Y branch **	Max	m		40	40	40	40	40
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
	Rated Water Flow		L/min		192 + 116 + 96	192 + 116 + 116	192 + 135 + 116	192 + 135 + 135	192 + 154 + 135
	Head Loss		kPa		31 + 22 + 16	31 + 22 + 22	31 + 29 + 22	31 + 29 + 29	31 + 20 + 29
Water Connection pipe	Inlet		mm		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		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

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities and Inputs are based on the following conditions
   - Cooling : Indoor temp. 27℃ (80.6°F)DB/19℃(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. 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

ARWB520LAS4 / ARWB540LAS4
ARWB560LAS4 / ARWB580LAS4 / ARWB600LAS4

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
					ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
Capacity	Cooling	Nom	kW		145.6	151.2	156.8	162.4	168.0
	Heating	Nom	kW		163.8	170.1	176.4	182.7	189.0
Power Input	Cooling	Nom	kW		28.73	30.24	30.58	32.09	33.60
	Heating	Nom	kW		29.97	31.51	31.93	33.47	35.01
EER	Cooling				5.07	5.00	5.13	5.06	5.00
COP	Heating				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	℃ DB		10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃
	Heating	Min~Max	℃ WB		-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃
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		Nom	dBA		62	62	62	62	62
Sound Power		Nom	dBA		76	76	76	76	76
Dimensions		WxHxD	mm		(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3
Net Weight			kg		(140 x 2) + (127 X 1)	(140 x 2) + (127 X 1)	140 x 3	140 x 3	140 x 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
Refrigerant Oil	Type				FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(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			Φ/V/Hz		3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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		300	300	300	300	300
	Actual Longest Piping Length *	Max	m		150	150	150	150	150
	After 1st Y branch **	Max	m		40	40	40	40	40
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
	Rated 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		31 + 31 + 25 + 29	31 + 31 + 31 + 29	31 + 31 + 25 + 25	31 + 31 + 31 + 25	31 + 31 + 31 + 31
Water Connection pipe	Inlet		mm		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		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

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities and Inputs are based on the following conditions
   - Cooling : Indoor temp. 27℃ (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. 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

ARWB620LAS4 / ARWB640LAS4
ARWB660LAS4 / ARWB680LAS4 / ARWB700LAS4

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	196.0
	Heating	Nom	kW	195.3	201.6	207.9	214.2	220.5
Power Input	Cooling	Nom	kW	33.95	35.32	36.70	38.08	38.39
	Heating	Nom	kW	35.43	36.84	38.26	39.68	40.05
EER	Cooling			5.11	5.07	5.04	5.00	5.11
COP	Heating			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		Nom	dBA	63	63	63	63	63
Sound Power		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	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 3.0 + 5.8
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			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150	150	150
	After 1st Y branch **	Max	m	40	40	40	40	40
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
	Rated 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	31 + 31 + 22 + 16	31 + 31 + 22 + 22	31 + 31 + 29 + 22	31 + 31 + 29 + 29	31 + 31 + 20 + 29
Water Connection pipe	Inlet		mm	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40
	Outlet		mm	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40
	Drain Outlet		mm	20	20	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

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. 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

ARWB720LAS4 / ARWB740LAS4
ARWB760LAS4 / ARWB780LAS4 / ARWB800LAS4

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	224.0
	Heating	Nom	kW	226.8	233.1	239.4	245.7	252.0
Power Input	Cooling	Nom	kW	39.93	41.44	41.78	43.29	44.80
	Heating	Nom	kW	41.64	43.18	43.60	45.14	46.68
EER	Cooling			5.05	5.00	5.09	5.05	5.00
COP	Heating			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		Nom	dBA	63	63	63	63	63
Sound Power		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 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4	140 x 4	140 x 4
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge		kg	3.0 + 3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0 + 3.0
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			Φ/V/Hz	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60	3 / 380 - 415 / 50, 60
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	300	300	300	300	300
	Actual Longest Piping Length *	Max	m	150	150	150	150	150
	After 1st Y branch **	Max	m	40	40	40	40	40
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
	Rated 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	31 + 31 + 25 + 29	31 + 31 + 31 + 29	31 + 31 + 25 + 25	31 + 31 + 31 + 25	31 + 31 + 31 + 31
Water Connection pipe	Inlet		mm	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40
	Outlet		mm	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40	PT40 + PT40 + PT40 + PT40
	Drain Outlet		mm	20	20	20	20	20

* This product contains Fluorinated Greenhouse Gases.(R410A)

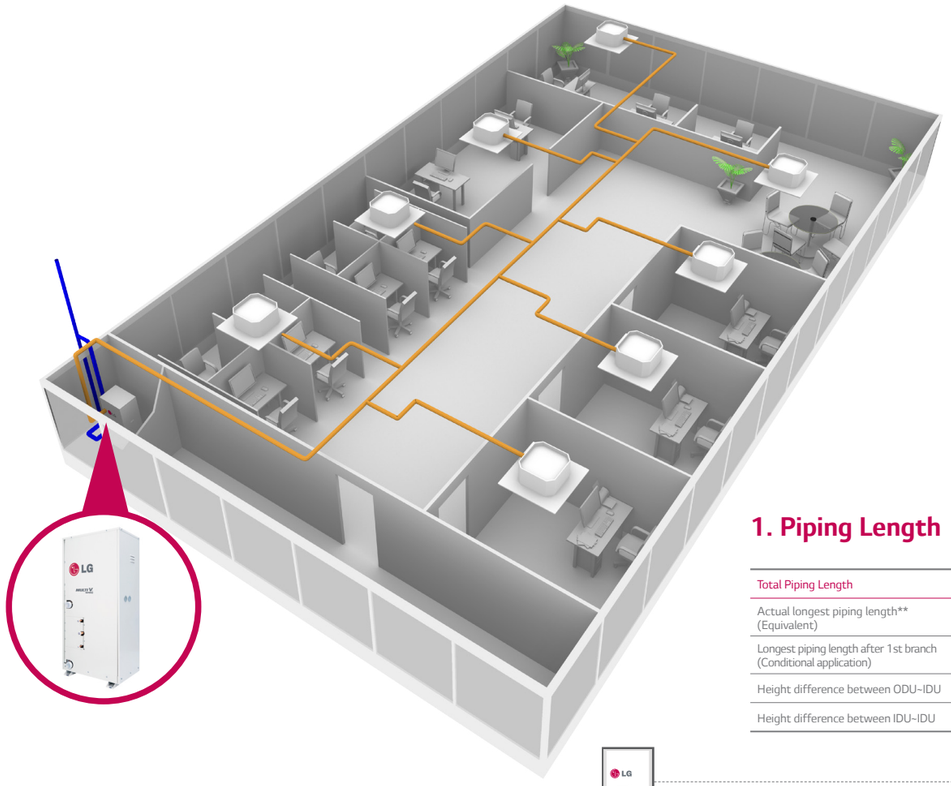
Note :

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. 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

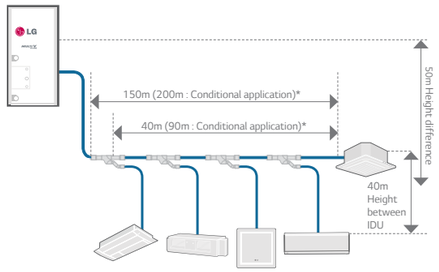
WATER S SOLUTION

MULTI V™ WATER S



1. Piping Length

Total Piping Length	300m
Actual longest piping length** (Equivalent)	175m
Longest piping length after 1st branch (Conditional application)	40m
Height difference between ODU~IDU	50m
Height difference between IDU~IDU	15m



* : Assume equivalent piping length of Y branch to be 0.5m, that of header to be 1m, calculation purpose.
** : To apply Conditional Application

Benefit

- Saves valuable floor space
- Low noise level (no fans)
- Flexible design applications
- High efficient water source system

Application

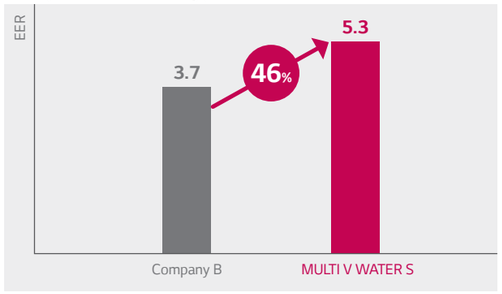
- Building remodeling case (initially equipped with Chillers)
- Residential building with geothermal / Water supply
- High-rise commercial building

MULTI V™ WATER S

Designed for space saving

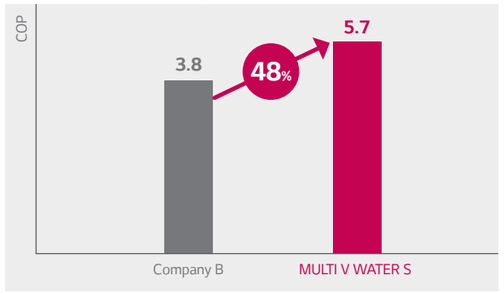
World's First Class Cooling and Heating Efficiency

EER(rated efficiency)



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

COP(rated efficiency)

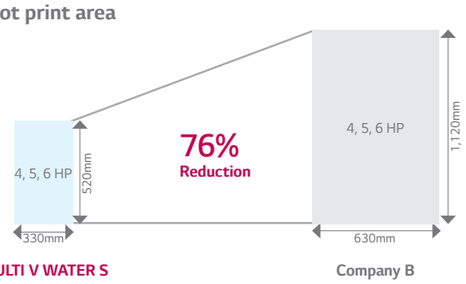


* Comparison between 4HP model, based on internal test data

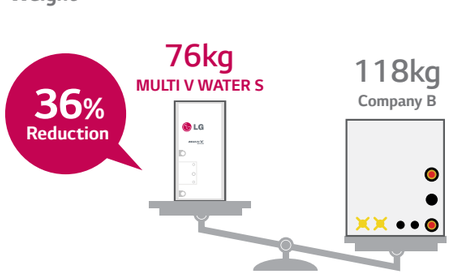
Compact Size

Outdoor 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

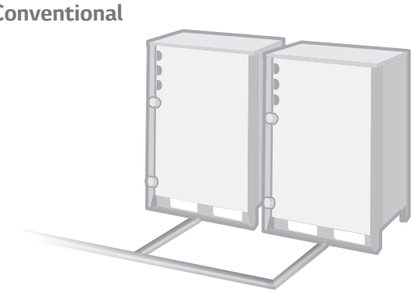


Convenient Installation

Absence of drain pipe makes installation easier.

MULTI V WATER S

Conventional



ARWN40GA0 / ARWN50GA0 / ARWN60GA0

HP				4	5	6
Model	Independent Unit			ARWN40GA0	ARWN50GA0	ARWN60GA0
Capacity	Cooling	Nom	kW	11.2	14.0	15.5
	Heating	Nom	kW	12.5	16.0	18.0
Power Input	Cooling	Nom	kW	2.10	2.70	3.20
	Heating	Nom	kW	2.20	2.90	3.50
EER				5.33	4.00	3.69
COP				5.33	4.10	3.91
Operation Range	Cooling	Min~Max	℃ DB	10℃ ~ 45℃	10℃ ~ 45℃	10℃ ~ 45℃
	Heating	Min~Max	℃ WB	-5℃ ~ 45℃	-5℃ ~ 45℃	-5℃ ~ 45℃
Compressor	Type			BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Number of Compressor			1	1	1
Sound Pressure		Nom	dBA	48	49	50
Sound Power		Nom	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			R401A	R401A	R401A
	Charge		kg	1.0	1.0	1.0
Refrigerant Oil	Type			FVC68D	FVC68D	FVC68D
	Control		cc	1,300	1,300	1,300
Power Supply			Φ/V/Hz	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60
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	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	PT32(1-1/4)	PT32(1-1/4)	PT32(1-1/4)
	Outlet		mm	PT32(1-1/4)	PT32(1-1/4)	PT32(1-1/4)
	Drain Outlet		mm	-	-	-

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :
1. Capacities are based on the following conditions:
   - Cooling Temperature : Indoor 27℃(80.6℉) DB / 19℃(66.2℉) WB / Water 30℃(86℉)
   - Heating Temperature : Indoor 20℃(68℉) DB / 15℃(59℉) WB / Water 20℃(68℉)
   - Piping Length : Interconnected Pipe Length = 7.5m
   - Difference Limit of Elevation (Outside ~ Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national codes.
3. Due to our policy of innovation some specifications may be changed without notification.
4. 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.

Reference Site

Bouygues Construction Co. HQ building

Water Cooled VRF System with Geothermal Application

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, 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 tertiares – 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.

INDOOR UNITS

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

INDOOR UNIT

Line-Up

Type		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
Wall Mounted Unit	Gallery / Panel			■	■	■											
	New Mirror			■	■	■	■	■		■							
	New Standard			■	■	■	■	■		■							
Ceiling Mounted Cassette	***New*** 4 Way Cassette (570x570)			■	■	■	■	■									
	New 4 Way Cassette (840x840)									■	■	■	■	■			
	New 2 Way Cassette				■	■		■		■							
	New 1 Way Cassette			■	■	■	■	■		■							
Ceiling Concealed Duct	***New*** Mid / High Statics			■	■	■	■	■		■	■	■	■	■	■	■	■
	New Low Statics		■	■	■	■	■	■	■	■							
	New Built-in			■	■	■	■	■		■							
	High Sensible							■		■		■	■	■			
Fresh Air Intake Units														■		■	■
Ceiling & Floor Convertible Unit					■	■											
Ceiling suspended unit								■		■		■		■			
Console				■	■	■	■										
Floor standing Unit	***New*** Floor standing with case			■	■	■	■	■		■							
	New Floor standing without case			■	■	■	■	■		■							

New Indoor Unit (4th Generation)

Feature

● Available ◐ Partly available ○ Accessories required

Type	1 Point Drycontact (On/Off Control)	Filter Sign	Model Information Monitoring	Thermo on/off Range Setting	Test Run	Group Control	Energy Monitoring [1]	Refrigerant Leakage Detection [2]	Neo Plasma Air Purifying System	Jet Cool	Dehumidification	Child Lock Function [3]	Soft-Dry operation	Auto Clean	Sleep Mode Auto operation	Swirl Swing	Weekly Program [3]	Changeable Panel
Gallery / Panel				◐	◐	◐			●	●	●	○		●	●	●	○	●
New Mirror	●	●	●	●	●	●	○	○	●	●	●	○	●	●	●	●	○	●
New Standard	●	●	●	●	●	●	○	○	●	●	●	○	●	●	●		○	
New 4 Way Cassette (570x570)	●	●	●	●	●	●	○	○	●	●	●	○	●		●	●	○	
New 4 Way Cassette (840x840)	●	●	●	●	●	●	○	○	●	●	●	○	●		●	●	○	
New 2 Way Cassette	●	●	●	●	●	●	○	○	●	●	●	○	●	●	●	●	○	
New 1 Way Cassette	●	●	●	●	●	●	○	○	●	●	●	○	●	●	●		○	●
New Mid / High Statics	●	●	●	●	●	●	○	○			●	○	●		●		○	
New Low Statics	●	●	●	●	●	●	○	○			●	○	●		●		○	
New Built-in	●	●	●	●	●	●	○	○			●	○	●		●		○	
High Sensible				◐	◐	◐					●	○	●		●		○	
Fresh Air Intake Units				◐	◐	◐					●	○	●		●		○	
Ceiling & Floor Convertible Unit				◐	◐	◐					●	○	●		●		○	
Ceiling suspended unit				◐	◐	◐					●	○	●		●		○	
Console				◐	◐	◐					●	○	●		●	●	○	
New Floor standing with case	●	●	●	●	●	●	○	○			●	○	●		●		○	
New Floor standing without case	●	●	●	●	●	●	○	○			●	○	●		●		○	

[1] Centralized control(PQCSW421E0A/PACS4B000/PQCPC22N0/PACP4B000/PQNFB17C0/PLNWKB000), PDI(PQNUD1S40/PPWRDB000) and wired remote controller(Premium or Standard) required
[2] Refrigerant leakage detector(PRLDNVS0) required
[3] Wired remote controller required(Please refer to "Individual controller" pages)
If new Indoor units (4th generations) are connected to previous models together, some of function will be limited : Filter Sign / Energy Monitoring.

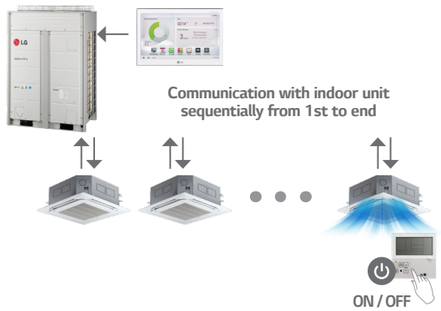
* If new Indoor units(4th generation) are connected to MULTI V S, some of function will be limited : Filter Sign / Energy Monitoring.

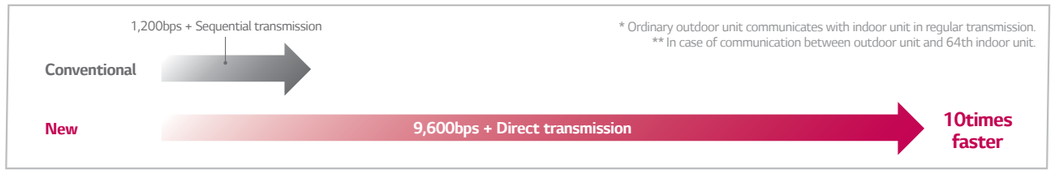
Quick Control

4th Generation indoor unit offers rapid heating and cooling about 10times faster than conventional through communication mode change and improved communication speed.

New

Conventional

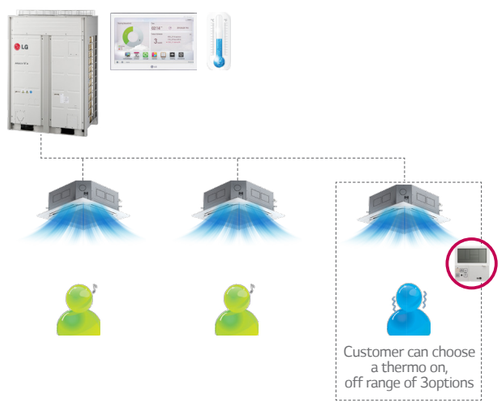




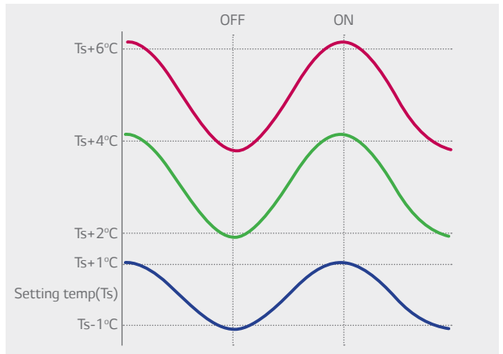
Cooling Thermo On/Off Range Setting

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

Prevention Overcooling



Cooling Thermo on/off Range

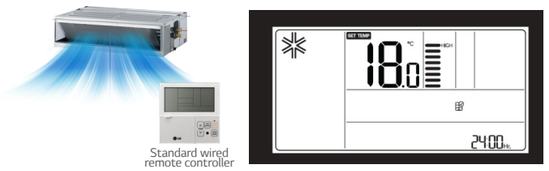


Filter Sign

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

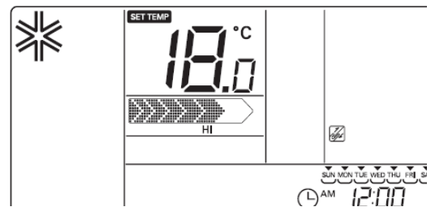
New

Remain time until indoor filter cleaning + alarm



Conventional

Only alarm

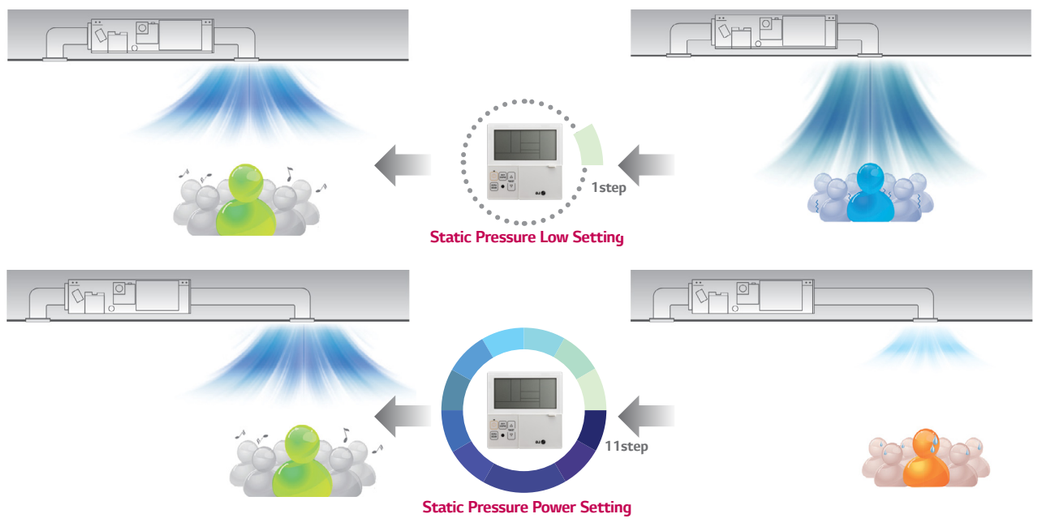


Static Pressure 11Step Control (Ceiling Concealed Duct)

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

New

Conventional



Group Control

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

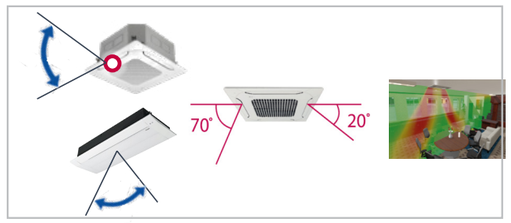
New

Cooling/Heating
Dehumidification
Fan only operating
Setting temp.

Standard Operation

+

In case of group control



Conventional

Cooling/Heating
Dehumidification
Fan only operating
Setting temp.

Standard Operation

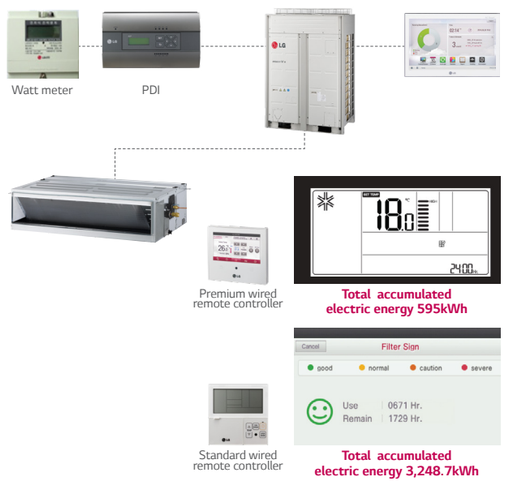
Sub function
isn't operating

*In case of all indoor unit in 1group is the same unit.
** Fan Auto function is applicable only in the ceiling concealed duct.

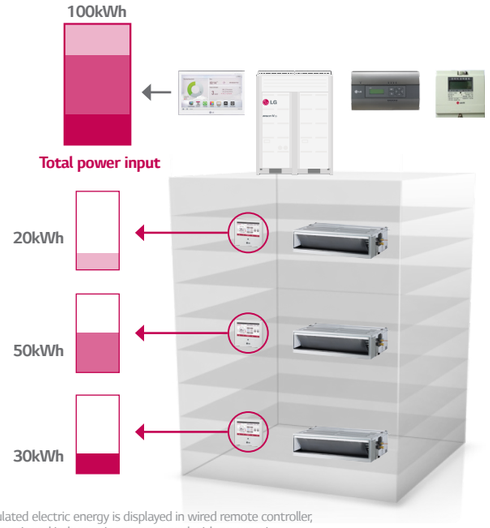
Accumulated Electric Energy Check (Energy Monitoring)

Accumulated electric energy of the indoor unit can be identified with wired remote control, as well as with the central controller. This function has advantage for energy management.

Install Scene



Apply for Store Building



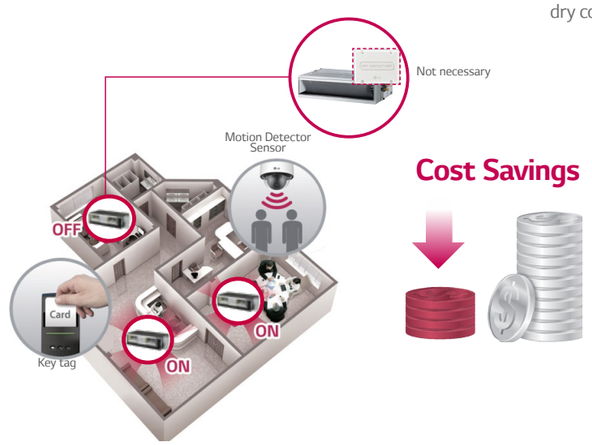
* Outdoor unit's accumulated electric energy/using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are connected with power wire. Only total accumulated electric energy is displayed in standard wired remote controller. In premium wired remote controller, that are displayed into week/month/year.

Control The External Devices (Built-in 1 Point Dry Contact)

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

New

Connection between an indoor unit and external devices directly



Cost Savings

Conventional

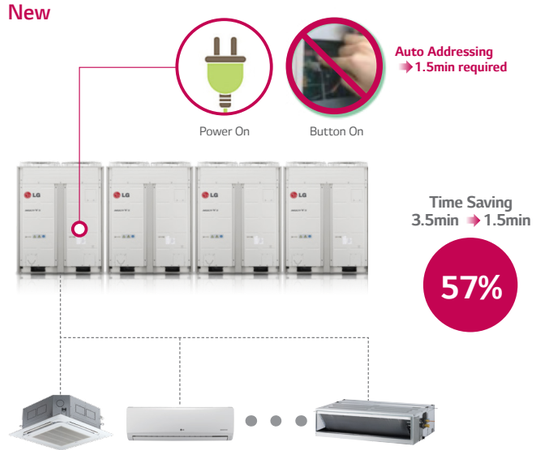
Connection between an indoor unit and external devices through dry contact

* In case of using more function of dry contact besides on/off control, dry contact is needed.

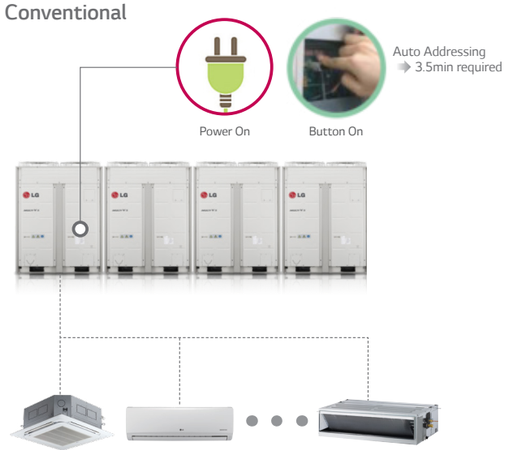
Auto Addressing

Addressing time has been reduced up to 1.5min., that needed only power on without any process. Auto addressing takes shorter as 57% as compared to conventional.

New



Conventional

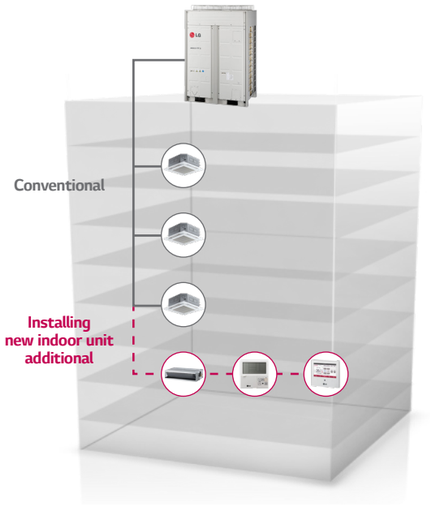


* 64ea indoor units installing time

Compatibility

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

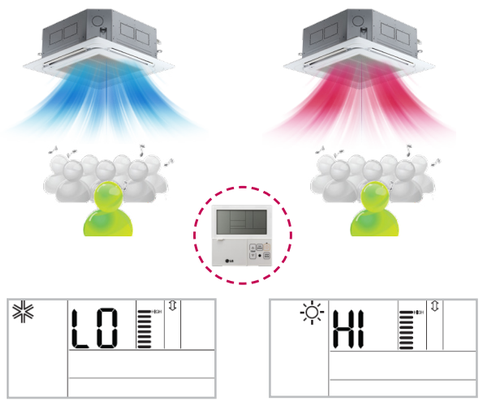
- Outdoor unit
  - Any MULTI V series outdoor unit can be installed
- Indoor unit
  - Any MULTI V series can be installed
- Outdoor unit
  - Any MULTI V series outdoor unit can be installed
- Wired remote controller
  - Standard II : PREMTB001, PREMTBB01
  - Premium : PREMTA000, PREMTA000A, PREMTA000B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



Heating Test Run Mode

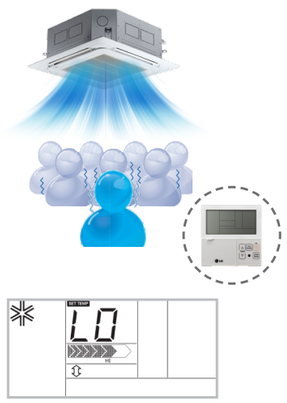
Test run mode can be operated cooling mode and heating mode for easy service.

New



Heating and cooling test run mode are available

Conventional



Heating test run mode is unavailable

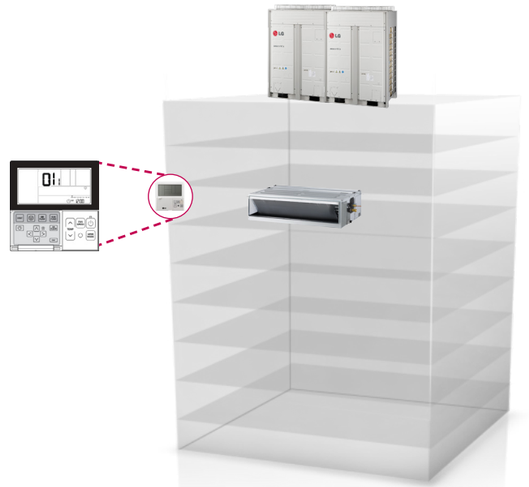
Model Information Monitoring

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

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

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

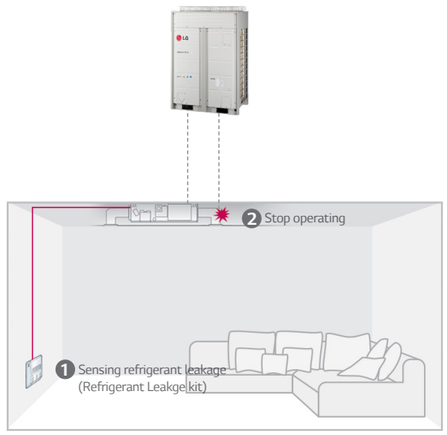
Category		No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
Third number : capacity of the indoor unit	MULTI V	0	5K	4	15K	8	36K	C	76K
		1	7K	5	18K	9	42K	D	96K
		2	9K	6	24K	A	48K		
		3	12K	7	28K	B	54K		
	MULTI	0	5K	4	12K	8	20K		
		1	7K	5	14K	9	24K		
		2	8K	6	15K	A	30K		
		3	9K	7	18K	B	36K		
	Single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



Refrigerant Leakge Detection (Option Function)

To meet the Global refrigerant leakage regulation, LG uses refrigerant leakage detection kit. This detector senses refrigerant leakage and when the refrigerant concentration exceeds over 6,000ppm not only stopping the indoor unit operation but also giving a alarm signaling using buzzer and sensor LED. (The green and red LED lights blink simultaneously.)

Refrigerant Leakge Detection

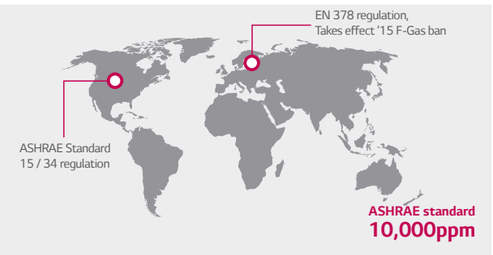


* Refrigerant leak kit is option

In Case of Leak Refrigerant

Oxygen reduction | Life span reduction | Environmental pollution

Global Regulation



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

Black

Silver

White

ARTCOOL Standard

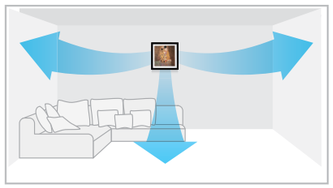
Standard
(Allergy Safe Filter Only)

WALL MOUNTED UNIT

Digital Air Flow Control

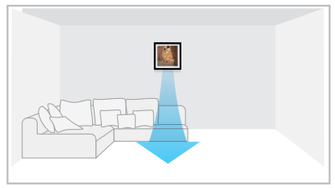
The air flow can be controlled to ensure maximum comfort and convenience.

Normal



Fast, wide and even

Jet Cool



Speedy and powerful

Sleep Mode

Indirect and discreet

Filtering (Virus & Allergy Safe Filter)

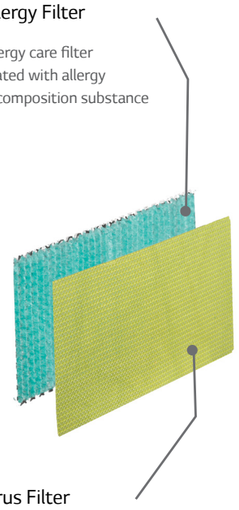
The virus and allergy safe filters are scientifically proven to deactivate viruses that may pose risks to health.

Virus Deactivation

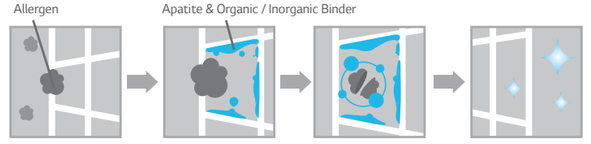
The LG virus & allergy safe filter blocks neuramidase and hemagglutinin, which is activated when the virus breaks up from host cell to proliferate.

Allergy Filter

Allergy care filter coated with allergy decomposition substance



Allergen



Apatite & Organic / Inorganic Binder

Step 1
Allergen is captured by filter

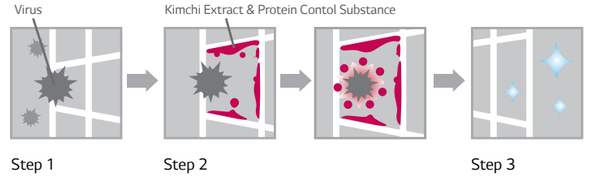
Step 2
The apatite and organic / inorganic binder surrounds the allergen

Step 3
Purified air

Certified by British Allergy Foundation (2009.01)

Virus Filter

Sterilising filter with anti-virus coating



Virus

Kimchi Extract & Protein Contol Substance

Step 1
Virus is captured by filter

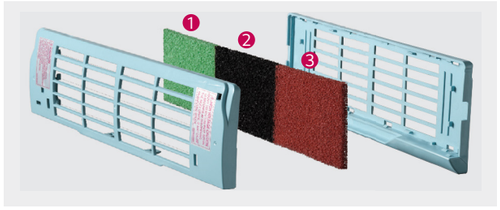
Step 2
Virus membrane is destroyed by agent composed of kimchi extract

Step 3
Purified air

Certified by Kitasato Institute

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.

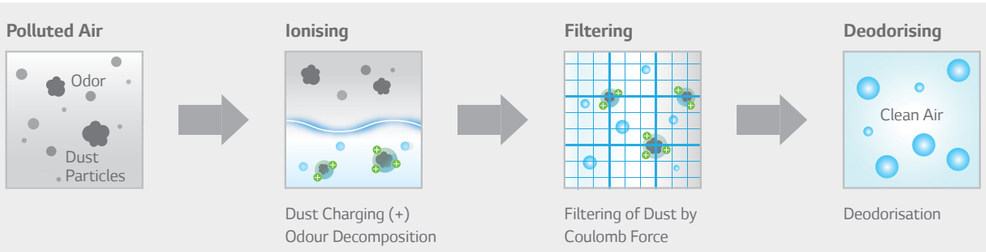


- Red filter removes smells such as smoke and food smells.
- Black filter removes the odour of new buildings such as formaldehyde.
- Blue filter removes the chemical smells such as the smell of fresh paint.

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.

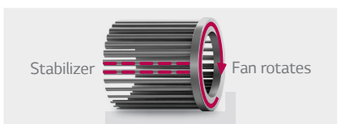


Low Noise Level

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.

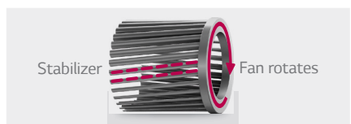
Conventional

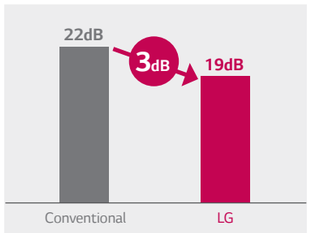
When the fan rotates, the stabilser and the fan blade are in parallel (= the contact of lines)
→ Instantaneous pressure change is great.



Skew Fan

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

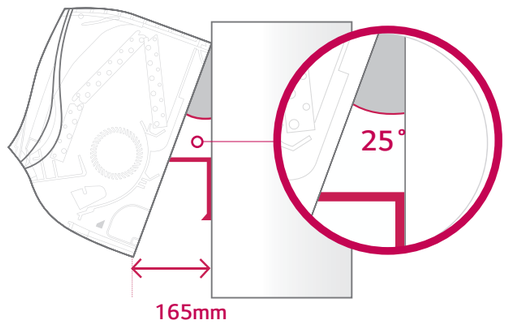




WALL MOUNTED UNIT

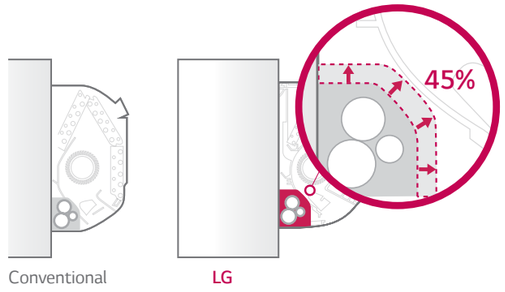
Installation Support Clip

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



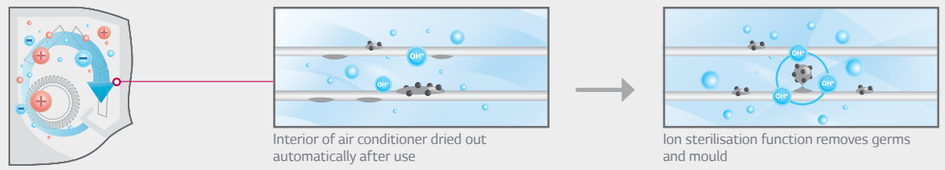
Wider Tubing Space

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.



ARTCOOL MIRROR

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


Mirror (R)


White (W)


Silver (V)

Model	Independent Unit			ARNU05GSB*4	ARNU07GSB*4	ARNU09GSB*4	ARNU12GSB*4	ARNU15GSB*4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0
Power Input	Cooling	Nom	W	20.0	20.0	20.0	20.0	20.0
	Heating	Nom	W	20.0	20.0	20.0	20.0	20.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
	Heating	H/M/L	m^3/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
Sound Pressure		H/M/L	dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	40 / 36 /32
Sound Power		H/M/L	dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Dimensions	Body	WxHxD	mm	895 × 289 × 205	895 × 289 × 205	895 × 289 × 205	895 × 289 × 205	895 × 289 × 205
Net Weight			kg	11.0	11.0	11.0	11.0	11.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7	12.7
	Drain	I.D	mm	16	16	16	16	16

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU05GSB*4	ARNU07GSB*4	ARNU09GSB*4	ARNU12GSB*4	ARNU15GSB*4
Dry Contact	Simple (1 Contact point without case)	PQDSA				
	Simple (1 Contact point with case)	PDRYCB000				
	2 Contact point	PDRYCB400				
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300				
	Modbus Communication	PDRYCB500				

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

ARTCOOL MIRROR

ARNU18GSC*4 / ARNU24GSC*4


Mirror (R)


White (W)


Silver (V)

Model	Independent Unit			ARNU18GSC*4	ARNU24GSC*4
Capacity	Cooling	Nom	kW	5.6	7.1
	Heating	Nom	kW	6.3	8.0
Power Input	Cooling	Nom	W	76.0	76.0
	Heating	Nom	W	76.0	76.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
	Heating	H/M/L	m^3/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
Sound Pressure		H/M/L	dBA	38 / 35 / 33	43 / 39 / 35
Sound Power		H/M/L	dBA	57 / 54 / 52	62 / 58 / 54
Dimensions	Body	WxHxD	mm	1 030 × 325 × 245	1 030 × 325 × 245
Net Weight			kg	15.5	15.5
Piping Connection	Liquid		mm	6.35	9.52
	Gas		mm	12.7	15.9
	Drain	I.D	mm	16	16

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

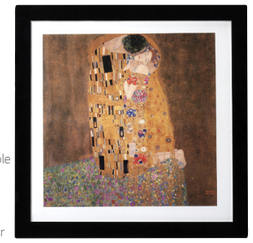
Accessories

Model		ARNU18GSC*4	ARNU24GSC*4
Dry Contact	Simple (1 Contact point without case)	PQDSA	
	Simple (1 Contact point with case)	PDRYCB000	
	2 Contact point	PDRYCB400	
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300	
	Modbus Communication	PDRYCB500	

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

ARTCOOL Gallery / Panel

ARNU07GSF*2 / ARNU09GSF*2 / ARNU12GSF*2



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

Silver(V) Gold(G) Red(E) White Silver(H)

Model	Independent Unit			ARNU07GSF*2	ARNU09GSF*2	ARNU12GSF*2
Capacity	Cooling	Nom	kW	2.2	2.8	3.6
	Heating	Nom	kW	2.5	3.2	4.0
Power Input	Cooling	Nom	W	35.0	35.0	35.0
	Heating	Nom	W	35.0	35.0	35.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
	Heating	H/M/L	m³/min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
Sound Pressure		H/M/L	dBA	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Sound Power		H/M/L	dBA	-	-	-
Dimensions	Body	WxHxD	mm	600 X 600 X 146	600 X 600 X 146	600 X 600 X 146
Net Weight			kg	15	15	15
Piping Connection	Liquid		mm	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7
	Drain	I.D	mm	12.2	12.2	12.2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU07GSF*2	ARNU09GSF*2	ARNU12GSF*2
Dry Contact	Simple (1 Contact point without case)	PQDSA		
	Simple (1 Contact point with case)	PDRYCB000		
	2 Contact point	PDRYCB400		
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300		
	Modbus Communication	PDRYCB500		

Wired Remote Controller					Wired Remote Controller
Premium	Standard		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PQRCVSL0QW	 PQRCUDS0	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

STANDARD

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

Model	Independent Unit			ARNU05GSBL4	ARNU07GSBL4	ARNU09GSBL4	ARNU12GSBL4	ARNU15GSBL4	ARNU18GSCL4	ARNU24GSCL4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	20.0	20.0	20.0	20.0	20.0	76.0	76.0
	Heating	Nom	W	20.0	20.0	20.0	20.0	20.0	76.0	76.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
	Heating	H/M/L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
Sound Pressure		H/M/L	dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	40 / 36 /32	38 / 35 / 33	43 / 39 / 35
Sound Power		H/M/L	dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54	57 / 54 / 52	62 / 58 / 54
Dimensions	Body	WxHxD	mm	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	1,030 × 325 × 255	1,030 × 325 × 255
Net Weight			kg	10	10	10	10	10	14	14
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	12.7	12.7	15.9
	Drain	I.D	mm	16	16	16	16	16	16	16

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

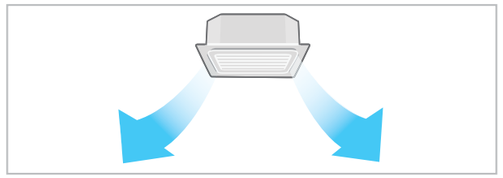
Model		ARNU05GSBL4	ARNU07GSBL4	ARNU09GSBL4	ARNU12GSBL4	ARNU15GSBL4	ARNU18GSCL4	ARNU24GSCL4
Dry Contact	Simple (1 Contact point without case)	PQDSA						
	Simple (1 Contact point with case)	PDRYCB000						
	2 Contact point	PDRYCB400						
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300						
	Modbus Communication	PDRYCB500						

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

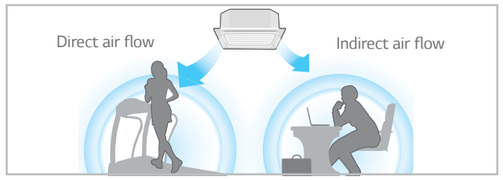
Independent Vane Control

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

All Vane Operation



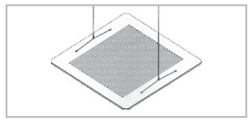
Independent Vane Control



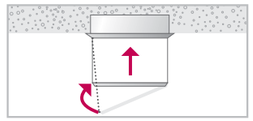
Auto Elevation Grille

Easy filter cleaning with elevation grill.

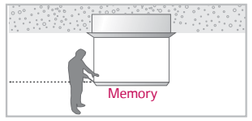
4-Point Support Structure



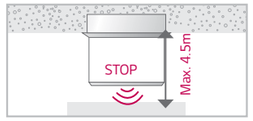
Auto Leveling



Memory for User's Level



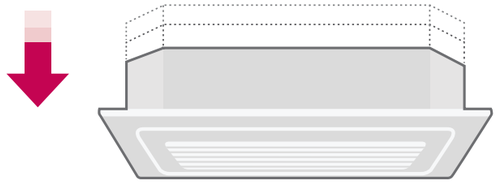
Auto Stop Detection



* Except ARNU05GTRC4, ARNU07GTRC4, ARNU09GTRC4, ARNU12GTRC4, ARNU15GTQC4, ARNU18GTQC4
* Operating with wired remote controller and wireless remote controller included in PTEGM0. PQRCVSL0QW, PQRCVSL0, PREMTB001, PREMTBB01

Compact Size

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



Length width : 840X840mm

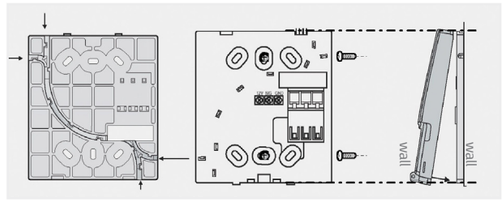
Standard Inverter	Height
7.1-8.0 kW	204mm
10.0 kW	246mm
12.5-15 kW	288mm

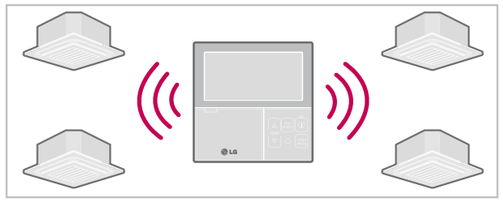
CEILING MOUNTED CASSETTE

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

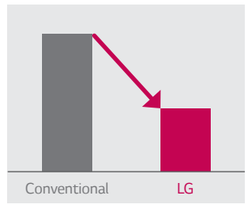




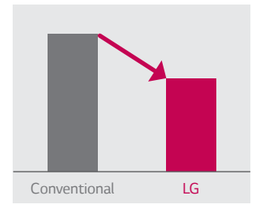
Swirl Swing

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

Comparison of Temperatures

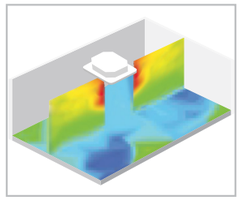


Vertical temperature differences

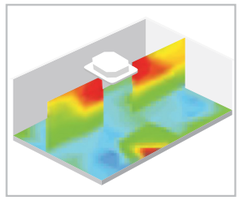


Horizontal temperature differences

Normal Air Flow



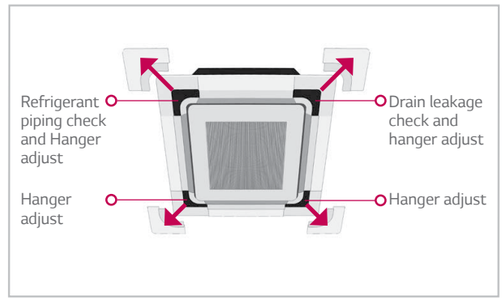
Swirl Swing (plaesant air)



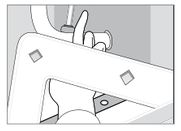
Convenient Panel Installation

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

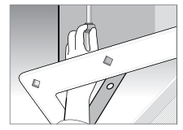
Detachable Corner Design



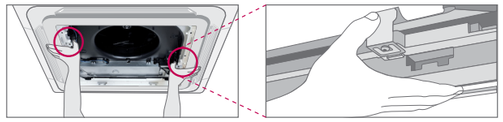
Drain leakage check



Hanger adjust



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



4 WAY CASSETTE (570×570)

ARNU05GTRC4 / ARNU07GTRC4 / ARNU09GTRC4
ARNU12GTRC4 / ARNU15GTQC4 / ARNU18GTQC4

Model	Independent Unit			ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4
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	43.0	43.0	43.0	43.0	43.0	43.0
	Heating	Nom	W	43.0	43.0	43.0	43.0	43.0	43.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	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	m^3/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0
Sound Pressure		H/M/L	dBA	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 /27	36 / 34 / 32	37 / 35 / 34
Sound Power		H/M/L	dBA	46 / 44 / 43	46 / 44 / 43	47 / 46 / 44	48 / 46 / 43	51 / 49 / 47	52 / 50 / 49
Dimensions	Body	WxHxD	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570
Net Weight			kg	13.1	13.1	13.1	13.1	15.5	15.5
Piping Connection	Liquid		mm	6.35	6.4	6.35	6.4	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7	12.7	12.7
	Drain	I.D	mm	25	25	25	25	25	25
Decoration Panel	Model			PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC
	Colour			Morning fog	Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions	WxHxD	mm	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700
	Weight		kg	3	3	3	3	3	3

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4
Dry Contact	Simple (1 Contact point without case)	PQDSA					
	Simple (1 Contact point with case)	PDRYCB000					
	2 Contact point	PDRYCB400					
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300					
	Modbus Communication	PDRYCB500					
Front Panel		PT-UQC					
Ventilation Kit		PTVK430					

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

4 WAY CASSETTE (840×840)

ARNU24GTPC4 / ARNU28GTPC4
ARNU36GTNC4 / ARNU42GTMC4 / ARNU48GTMC4

Model	Independent Unit			ARNU24GTPC4	ARNU28GTPC4	ARNU36GTNC4	ARNU42GTMC4	ARNU48GTMC4
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	30.0	30.0	30.0	30.0	30.0
	Heating	Nom	W	30.0	30.0	30.0	30.0	30.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	17 / 15 / 13	19 / 16 / 14	25 / 22 / 20	30 / 26 / 23	32 / 27 / 25
	Heating	H/M/L	m^3/min	17 / 15 / 13	19 / 16 / 14	25 / 22 / 20	30 / 26 / 23	32 / 27 / 25
Sound Pressure		H/M/L	dBA	36 / 34 / 31	39 / 35 / 33	44 / 41 / 38	45 / 41 / 38	46 / 42 / 40
Sound Power		H/M/L	dBA	55 / 53 / 50	56 / 52 / 50	62 / 59 / 56	63 / 59 / 56	65 / 61 / 59
Dimensions	Body	WxHxD	mm	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight			kg	21.8	21.8	24.3	26.5	26.5
Piping Connection	Liquid		mm	9.52	9.52	9.52	9.52	9.52
	Gas		mm	15.88	15.88	15.88	15.88	15.88
	Drain	I.D	mm	25	25	25	25	25
Decoration Panel	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Colour			Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions	WxHxD	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.6	5.6	5.6	5.6	5.6

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU24GTPC4	ARNU28GTPC4	ARNU36GTPC4	ARNU42GTMC4	ARNU48GTMC4
Dry Contact	Simple (1 Contact point without case)	PQDSA				
	Simple (1 Contact point with case)	PDRYCB000				
	2 Contact point	PDRYCB400				
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300				
	Modbus Communication	PDRYCB500				
Front Panel		PT-UQC				
Auto Elevation Grille		PTEGM0				
Ventilation Kit		PTVK410 / PTVK420 / PTVK430				

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

2 WAY CASSETTE

ARNU09GTLC4 / ARNU12GTLC4
ARNU18GTLC4 / ARNU24GTLC4

Model	Independent Unit			ARNU09GTLC4	ARNU12GTLC4	ARNU18GTLC4	ARNU24GTLC4
Capacity	Cooling	Nom	kW	2.8	3.6	5.6	7.1
	Heating	Nom	kW	3.2	4.0	6.3	8.0
Power Input	Cooling	Nom	W	40.0	40.0	40.0	40.0
	Heating	Nom	W	40.0	40.0	40.0	40.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	9 / 8 / 7	10 / 9 / 8	13 / 12 / 10	17 / 15 / 13
	Heating	H/M/L	m^3/min	9 / 8 / 7	10 / 9 / 8	13 / 12 / 10	17 / 15 / 13
Sound Pressure		H/M/L	dBA	31 / 30 / 29	32 / 31 / 30	40 / 36 / 32	42 / 38 / 34
Sound Power		H/M/L	dBA	50 / 49 / 48	50 / 49 / 48	59 / 55 / 51	61 / 57 / 53
Dimensions	Body	WxHxD	mm	830 × 225 × 550	830 × 225 × 550	830 × 225 × 550	830 × 225 × 550
Net Weight			kg	22	22	22	22
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7
	Drain	I.D	mm	25	25	25	25
Decoration Panel	Model			PT-HLC	PT-HLC	PT-HLC	PT-HLC
	Colour			Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions	WxHxD	mm	1,050 × 28 × 640	1,050 × 28 × 640	1,050 × 28 × 640	1,050 × 28 × 640
	Weight		kg	4.0	4.0	4.0	4.0

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU09GTLC4	ARNU12GTLC4	ARNU18GTLC4	ARNU24GTLC4
Dry Contact	Simple (1 Contact point without case)	PQDSA			
	Simple (1 Contact point with case)	PDRYCB000			
	2 Contact point	PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300			
	Modbus Communication	PDRYCB500			
Front Panel		PT-HLC			

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

1 WAY CASSETTE

ARNU07GTUC4 / ARNU09GTUC4
ARNU12GTUC4 / ARNU18GTTC4 / ARNU24GTUC4

Model	Independent Unit			ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTUC4	ARNU24GTUC4
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	30.0	30.0	30.0	30.0	30.0
	Heating	Nom	W	30.0	30.0	30.0	30.0	30.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Heating	H/M/L	m^3/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
Sound Pressure		H/M/L	dBA	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Sound Power		H/M/L	dBA	50 / 47 / 43	53 / 52 / 50	57 / 54 / 51	59 / 56 / 54	62 / 59 / 55
Dimensions	Body	WxHxD	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1 180 x 132 x 450	1 180 x 132 x 450
Net Weight			kg	14.7	14.7	14.7	18.7	18.7
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25	25	25	25	25
Decoration Panel	Model			PT-UUC(Grill), PT-UUD(Panel)	PT-UUC(Grill), PT-UUD(Panel)	PT-UUC(Grill), PT-UUD(Panel)	PT-UTC(Grill), PT-UTD(Panel)	PT-UTC(Grill), PT-UTD(Panel)
	Colour			White	White	White	White	White
	Dimensions	WxHxD	mm	1,100 x 34 x 500	1,100 x 34 x 500	1,100 x 34 x 500	1,420 x 34 x 500	1,420 x 34 x 500
	Weight		kg	4.6	4.6	4.6	5.5	5.5

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

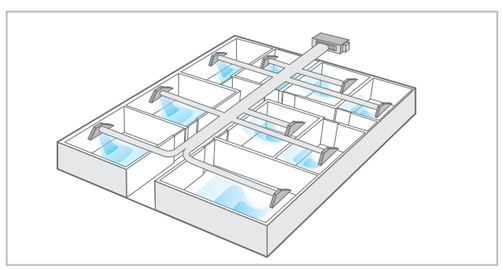
Model		ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTUC4	ARNU24GTUC4
Dry Contact	Simple (1 Contact point without case)	PQDSA				
	Simple (1 Contact point with case)	PDRYCB000				
	2 Contact point	PDRYCB400				
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300				
	Modbus Communication	PDRYCB500				
Front Panel		PT-UUC (Grill) / PT-UUD (Panel)			PT-UTC (Grill) / PT-UTD (Panel)	

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

CEILING CONCEALED DUCT

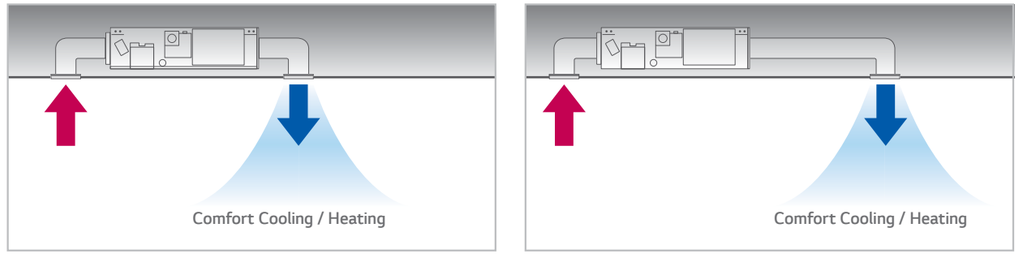
Operation for Multiple Rooms

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



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

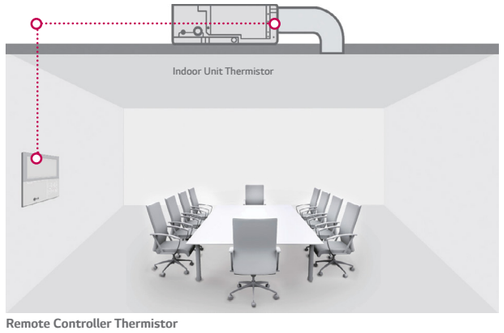
E.S.P. control function can make air volume controlled easily with remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.



Two Thermistors Control

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

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

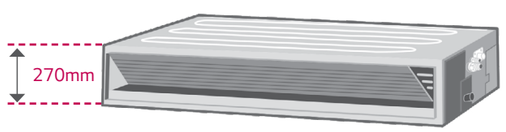


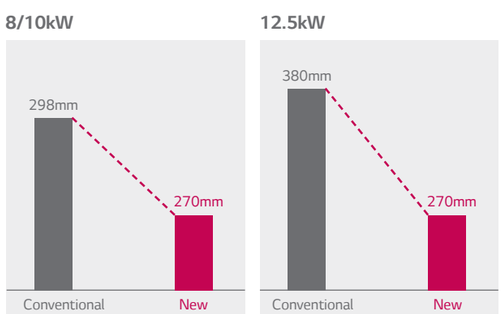
Remote Controller Thermistor

CEILING CONCEALED DUCT

Minimized Height

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



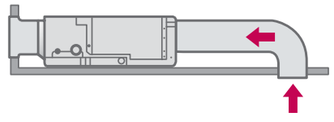


Flexible Installation (Low Static Duct Only)

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

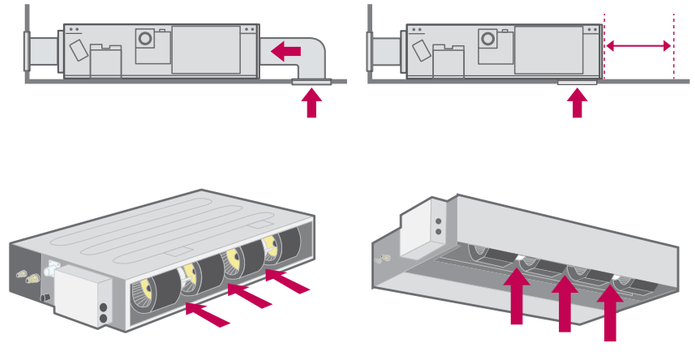
Conventional

Air intake at the only rear



New Low Static Duct

Air intake at the rear or bottom



MID / HIGH STACTICS

ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4
ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4

Model	Independent Unit			ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	89.0	89.0	89.0	89.0	89.0	190.0
	Heating	Nom	W	89.0	89.0	89.0	89.0	89.0	190.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	8.0 / 7.0 / 6.0	9.0 / 8.0 / 6.5	11.0 / 9.0 / 8.0	14.0 / 12.5 / 11.5	16.5 / 14.5 / 13	18.0 / 16.5 / 14.0
	Heating	H/M/L	m^3/min	8.0 / 7.0 / 6.0	9.0 / 8.0 / 6.5	11.0 / 9.0 / 8.0	14.0 / 12.5 / 11.5	16.5 / 14.5 / 13	18.0 / 16.5 / 14.0
Sound Pressure		H/M/L	dBA	28 / 27 / 26	29 / 28 / 27	31 / 29 / 28	33 / 32 / 31	36 / 34 / 32	37 / 36 / 33
Sound Power		H/M/L	dBA	53 / 52 / 51	54 / 53 / 52	56 / 54 / 53	58 / 57 / 56	59 / 58 / 57	60 / 59 / 58
Dimensions	Body	WxHxD	mm	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700
Net Weight			kg	23.8	23.8	23.8	23.8	23.8	24.2
Piping Connection	Liquid		mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas		mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88
	Drain	I.D	mm	25	25	25	25	25	25
Fan Motor Output x Number			W	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities are based on the following conditions
   Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
   Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
   Interconnecting piping length 7.5m
   Level difference of zero
   Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
   Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
   Interconnecting piping length 7.5m
   Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification
3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressue) as standard.
4. I.D - 'Internal Diameter'
5. This model is available from May '15

Accessories

Model		ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Dry Contact	Simple (1 Contact point without case)	PQDSA					
	Simple (1 Contact point with case)	PDRYCB000					
	2 Contact point	PDRYCB400					
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300					
	Modbus Communication	PDRYCB500					

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

MID / HIGH STACTICS

ARNU28GM2A4 / ARNU36GM2A4 / ARNU42GM3A4
ARNU48GM3A4 / ARNU54GM3A4 / ARNU76GB8A4 / ARNU96GB8A4

Model	Independent Unit			ARNU28GM2A4	ARNU36GM2A4	ARNU42GM3A4	ARNU48GM3A4	ARNU54GM3A4	ARNU76GB8A4	ARNU96GB8A4
Capacity	Cooling	Nom	kW	8.2	10.6	12.3	14.1	15.8	22.4	28
	Heating	Nom	kW	9.2	11.9	13.8	15.9	18.0	25.2	31.5
Power Input	Cooling	Nom	W	207.0	207.0	286.0	290.0	290.0	800.0	800.0
	Heating	Nom	W	207.0	207.0	286.0	290.0	290.0	800.0	800.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50,60	1 / 220 ~240 / 50,60	1 / 220 ~240 / 50,60	1 / 220 ~240 / 50,60	1 / 220 ~240 / 50,60	1 / 220 ~240 / 50,60	1 / 220 ~240 / 50,60
Airflow Rate	Cooling	H/M/L	m^3/min	26.0 / 24.0 / 22.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	Heating	H/M/L	m^3/min	26.0 / 24.0 / 22.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
Sound Pressure		H/M/L	dBA	34 / 32 / 30	38 / 35 / 33	40 / 38 / 36	40 / 38 / 36	46 / 44 / 42	50 / 48 / 48	52 / 50 / 50
Sound Power		H/M/L	dBA	59 / 57 / 55	60 / 58 / 56	62 / 60 / 59	65 / 63 / 61	70 / 68 / 66	70 / 68 / 68	72 / 70 / 70
Dimensions	Body	WxHxD	mm	1,250 × 270 × 700	1,250 × 270 × 700	1,250 × 270 × 700	1,250 × 360 × 700	1,250 × 360 × 700	1,562×460×688	1,562×460×688
Net Weight			kg	36.2	36.2	37	42	42.3	87(192)	87(192)
Piping Connection	Liquid		mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52(3/8)	Ø9.52(3/8)
	Gas		mm	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø19.05	Ø19.05(3/4)	Ø22.2(7/8)
	Drain	I.D	mm	25	25	25	25	25	25(1)	25(1)
Fan Motor Output x Number			W	350 x 1	350 x 1	350 x 1	350 x 1	350 x 1	375 x 2	375 x 2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities are based on the following conditions
   Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
   Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
   Interconnecting piping length 7.5m
   Level difference of zero
   Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
   Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
   Interconnecting piping length 7.5m
   Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification
3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressue) as standard.
4. I.D - 'Internal Diameter'
5. This model is available from May '15

Accessories

Model		ARNU28GM2A4	ARNU36GM2A4	ARNU42GM3A4	ARNU48GM3A4	ARNU54GM3A4	ARNU76GB8A4	ARNU96GB8A4
Dry Contact	Simple (1 Contact point without case)	PQDSA						
	Simple (1 Contact point with case)	PDRYCB000						
	2 Contact point	PDRYCB400						
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300						
	Modbus Communication	PDRYCB500						

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

LOW STACTICS

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4

Model	Independent Unit			ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Capacity	Cooling	Nom	kW	1.7	2.2	2.8
	Heating	Nom	kW	1.9	2.5	3.2
Power Input	Cooling	Nom	W	40.0	40.0	40.0
	Heating	Nom	W	40.0	40.0	40.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	Heating	H/M/L	m^3/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
Sound Pressure		H/M/L	dBA	26 / 25 / 23	27 / 26 / 23	30 / 26 / 23
Sound Power		H/M/L	dBA	47 / 46 / 44	48 / 47 / 44	49 / 47 / 44
Dimensions	Body	WxHxD	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
Net Weight			kg	17.5	17.5	17.5
Piping Connection	Liquid		mm	Ø6.35	Ø6.35	Ø6.35
	Gas		mm	Ø12.7	Ø12.7	Ø12.7
	Drain	I.D	mm	25.4	25.4	25.4
Fan Motor Output x Number			W	19 x 1	19 x 1	19 x 1

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities are based on the following conditions
   Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
   Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
   Interconnecting piping length 7.5m
   Level difference of zero
   Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
   Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
   Interconnecting piping length 7.5m
   Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification
3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressue) as standard.
4. I.D - 'Internal Diameter'
5. This model is available from May '15

Accessories

Model		ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Dry Contact	Simple (1 Contact point without case)	PQDSA		
	Simple (1 Contact point with case)	PDRYCB000		
	2 Contact point	PDRYCB400		
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300		
	Modbus Communication	PDRYCB500		

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

LOW STACTICS

ARNU12GL2G4 / ARNU15GL2G4
ARNU18GL2G4 / ARNU21GL3G4 / ARNU24GL3G4

Model	Independent Unit			ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4
Capacity	Cooling	Nom	kW	3.6	4.5	5.6	6.2	7.1
	Heating	Nom	kW	4	5	6.3	7	8
Power Input	Cooling	Nom	W	85.0	85.0	85.0	115.0	115.0
	Heating	Nom	W	85.0	85.0	85.0	115.0	115.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/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	m^3/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
Sound Pressure		H/M/L	dBA	31 / 29 / 26	34 / 31 / 29	36 / 34 / 31	37 / 34 / 32	39 / 35 / 32
Sound Power		H/M/L	dBA	52 / 49 / 46	53 / 51 / 49	54 / 52 / 50	56 / 53 / 51	58 / 54 / 51
Dimensions	Body	WxHxD	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700	1,100 x 190 x 700
Net Weight			kg	23	23	23	27	27
Piping Connection	Liquid		mm	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52
	Gas		mm	Ø12.7	Ø12.7	Ø12.7	Ø15.88	Ø15.88
	Drain	I.D	mm	25.4	25.4	25.4	25.4	25.4
Fan Motor Output x Number			W	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities are based on the following conditions
   Cooling - Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB
   Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB
   Interconnecting piping length 7.5m
   Level difference of zero
   Heating - Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
   Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
   Interconnecting piping length 7.5m
   Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification
3. BH : The Sound Pressure test condition is based on 50 Pa (Static Pressue) as standard.
4. I.D - 'Internal Diameter'
5. This model is available from May '15

Accessories

Model		ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4
Dry Contact	Simple (1 Contact point without case)	PQDSA				
	Simple (1 Contact point with case)	PDRYCB000				
	2 Contact point	PDRYCB400				
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300				
	Modbus Communication	PDRYCB500				

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

BUILT-IN

ARNU07GBHA4 / ARNU09GBHA4 / ARNU12GBHA4 ARNU15GBHA4 / ARNU18GBHA4 / ARNU24GBHA4

Model	Independent Unit			ARNU07GB3G4	ARNU09GB3G4	ARNU12GB3G4	ARNU15GB3G4	ARNU18GB4G4	ARNU24GB4G4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	85.0	85.0	85.0	85.0	115.0	115.0
	Heating	Nom	W	85.0	85.0	85.0	85.0	115.0	115.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
	Heating	H/M/L	m^3/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
Sound Pressure		H/M/L	dBA	33 / 32 / 29	34 / 33 / 32	35 / 34 / 33	41 / 40 / 37	43 / 40 / 37	46 / 43 / 37
Sound Power		H/M/L	dBA	53 / 52 / 49	54 / 53 / 52	55 / 54 / 53	60 / 59 / 56	61 / 58 / 55	62 / 59 / 55
Dimensions	Body	WxHxD	mm	820 x 190 x 575	820 x 190 x 575	820 x 190 x 575	820 x 190 x 575	1,100 x 190 x 575	1,100 x 190 x 575
Net Weight			kg	21	21	21	21	26	26
Piping Connection	Liquid		mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas		mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88
	Drain	I.D	mm	25.4	25.4	25.4	25.4	25.4	25.4
Fan Motor Output x Number			W	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU07GB3G4	ARNU09GB3G4	ARNU12GB3G4	ARNU15GB3G4	ARNU18GB4G4	ARNU24GB4G4
Dry Contact	Simple (1 Contact point without case)	PQDSA					
	Simple (1 Contact point with case)	PDRYCB000					
	2 Contact point	PDRYCB400					
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300					
	Modbus Communication	PDRYCB500					
Suction Grille		PBSGB40					
Suction Canvas		PBSC40					

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

HIGH SENSIBLE

ARNU18GBRA2 / ARNU24GBRA2 ARNU36GB8A2 / ARNU42GB8A2 / ARNU48GB8A2

Model	Independent Unit			ARNU18GBRA2	ARNU24GBRA2	ARNU36GB8A2	ARNU42GB8A2	ARNU48GB8A2
Capacity	Cooling	Nom	kW	5.6	7.1	10.6	12.3	14.1
	Heating	Nom	kW	6.3	8.0	11.9	13.8	15.9
Power Input	Cooling	Nom	W	450.0	450.0	800.0	800.0	800.0
	Heating	Nom	W	450.0	450.0	800.0	800.0	800.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	29.1 / 24.0 / 19.2	34.2 / 29.1 / 24.0	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
	Heating	H/M/L	m^3/min	29.1 / 24.0 / 19.2	34.2 / 29.1 / 24.0	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
Sound Pressure		H/M/L	dBA	43 / 42 / 41	44 / 43 /42	46 / 45 / 42	47 / 46 / 43	47 / 46 / 44
Sound Power		H/M/L	dBA	62 / 61 / 60	63 / 62 / 61	66 / 64 / 61	67 / 66 / 62	67 / 66 / 63
Dimensions	Body	WxHxD	mm	1,230 x 380 x 590	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 689	1,562 x 460 x 690
Net Weight			kg	51	51	87	87	87
Piping Connection	Liquid		mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas		mm	Ø15.88	Ø15.88	Ø19.05	Ø19.05	Ø19.05
	Drain	I.D	mm	25.4	25.4	25.4	25.4	25.4
Fan Motor Output x Number			W	185 x 2	185 x 2	375 x 2	375 x 2	375 x 2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

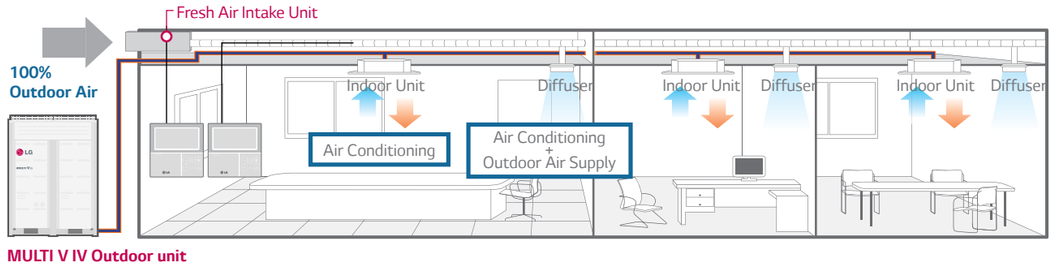
Model		ARNU18GBRA2	ARNU24GBRA2	ARNU36GB8A2	ARNU42GB8A2	ARNU48GB8A2
Dry Contact	Simple (1 Contact point without case)	PQDSA				
	Simple (1 Contact point with case)	PDRYCB000				
	2 Contact point	PDRYCB400				
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300				
	Modbus Communication	PDRYCB500				

Wired Remote Controller					Wired Remote Controller
Premium	Standard		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PQRCVSL0QW	 PQRCUDS0	 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.

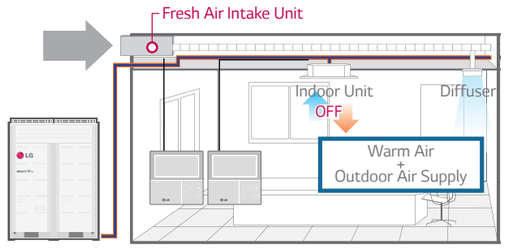


MULTI V IV Outdoor unit

Economic Operation

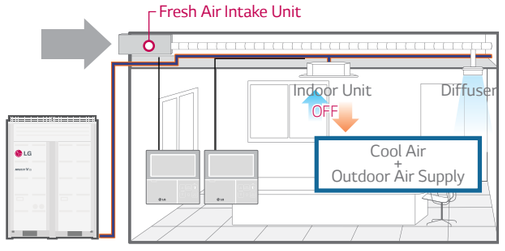
Using the free cooling and heating can save costs by blowing the natural outdoor air inside when the season change

Spring Season



MULTI V IV Outdoor unit

Autumn Season

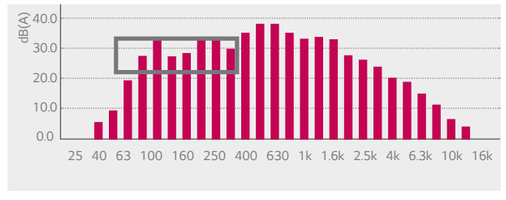


MULTI V IV Outdoor unit

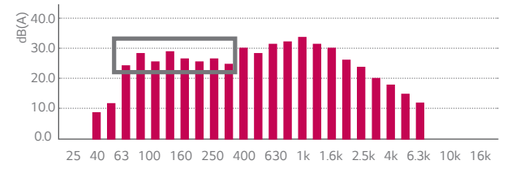
BLDC Fan Motor

It can reduce a noise at low frequencies

AC Tap Motor



BLDC motor



FRESH AIR INTAKE UNIT

ARNU48GB8Z2 / ARNU76GB8Z2 / ARNU96GB8Z2

ARNU48GB8Z2

ARNU76GB8Z2

ARNU96GB8Z2

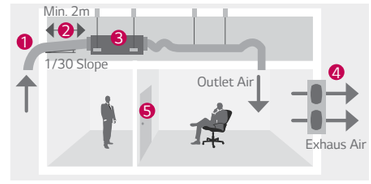
Model	Independent Unit			ARNU48GB8Z2	ARNU76GB8Z2	ARNU96GB8Z2
Capacity	Cooling	Nom	kW	14.1	22.4	28
	Heating	Nom	kW	13.5	21.4	26.7
Power Input	Cooling	Nom	W	169.0	230.0	360.0
	Heating	Nom	W	169.0	230.0	360.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	18.8/14.7/14.7	23.7/13.2/13.2	35.7/23.7/23.7
	Heating	H/M/L	m^3/min	18.8/14.7/14.7	23.7/13.2/13.2	35.7/23.7/23.7
Sound Pressure		H/M/L	dBA	44/42/42	49/47/47	50/48/48
Sound Power		H/M/L	dBA	65 / 63 / 62	69 / 67 / 67	70 / 68 / 68
Dimensions	Body	WxHxD	mm	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg	45	73	73
Piping Connection	Liquid		mm	Ø9.52	Ø9.52	Ø9.52
	Gas		mm	Ø15.88	Ø19.05	Ø22.2
	Drain	I.D	mm	25	25	25
Fan Motor Output x Number			W	195 x 1	375 x 1	375 x 1

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities are based on the following conditions:
   Cooling - Outdoor temp. 33°C(91.4°F)DB / 28°C(82.4°F)WB
   IDU-ODU Piping Length : 7.5m
   Level Difference of Zero
   Heating - Outdoor temp. 0°C(32°F)DB / -2.9°C(26.78°F)WB
   Interconnecting Piping Length : 7.5m
   Level Difference of Zero
2. Capacities are net capacities
3. Noise Level is under standard mode(For actual High Mode(Factory set) condition.
   Noise Level may exceed the standard level by 1.5dB(A)

Installation Scene



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

⚠ CAUTION

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

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

Accessories

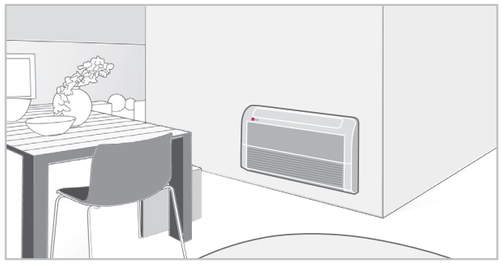
Model		ARNU48GB8Z2	ARNU76GB8Z2	ARNU96GB8Z2
Dry Contact	Simple (1 Contact point without case)	PQDSA		
	Simple (1 Contact point with case)	PDRYCB000		
	2 Contact point	PDRYCB400		
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300		
	Modbus Communication	PDRYCB500		

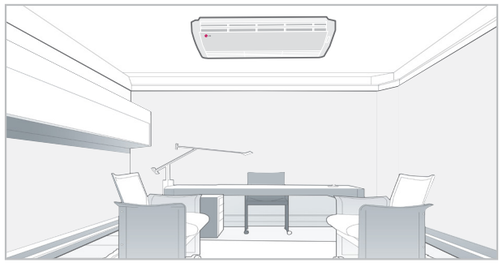
Wired Remote Controller					Wired Remote Controller
Premium	Standard		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PQRCVSL0QW	 PQRCUDS0	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

CEILING & FLOOR CONVERTIBLE UNIT
CEILING SUSPENDED UNIT

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.



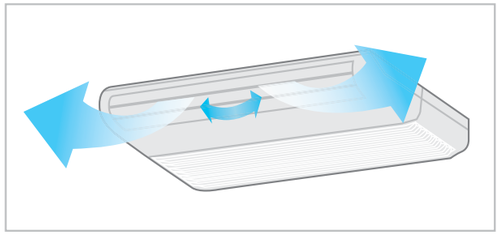


* Ceiling & Floor : CV09 NE2 / CV12 NE2

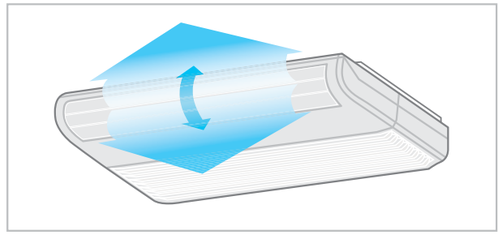
Airflow Direction Control

Vertical airflow direction can be adjusted using remote controller, and horizontal airflow direction can be adjusted manually.

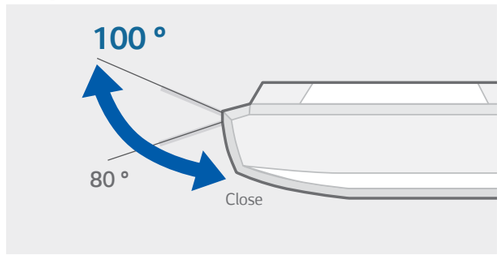
Horizontal



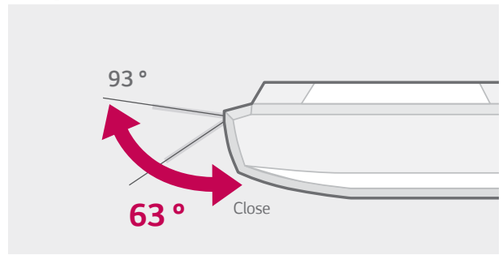
Vertical



Cooling



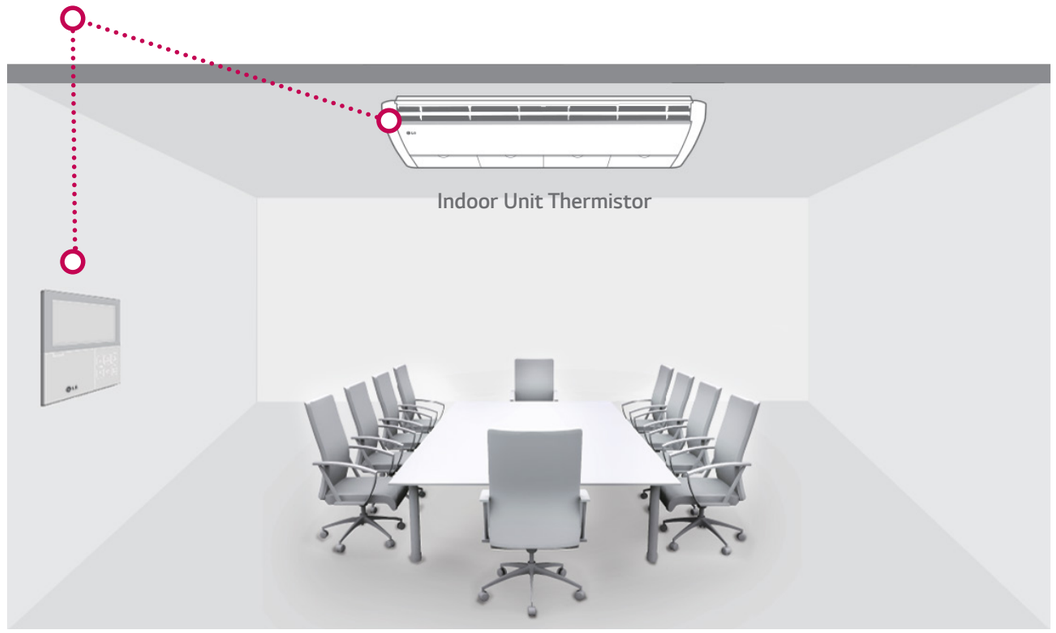
Heating



CEILING & FLOOR CONVERTIBLE UNIT
CEILING SUSPENDED UNIT

Two Thermistors Control

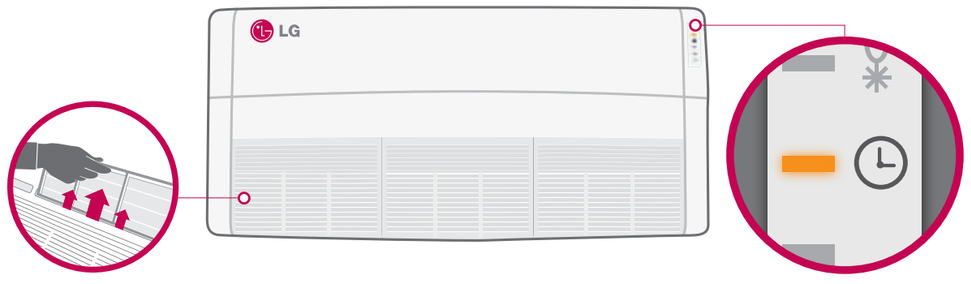
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users. Two thermistors can optimise indoor air temperature for a more comfortable environment.



Remote Controller Thermistor

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.



One Touch Filter

Filter Change Alarm

CEILING & FLOOR CONVERTIBLE UNIT

ARNU09GVEA2 / ARNU12GVEA2

Model	Independent Unit			ARNU09GVEA2	ARNU12GVEA2
Capacity	Cooling	Nom	kW	2.8	3.6
	Heating	Nom	kW	3.2	4.0
Power Input	Cooling	Nom	W	30.0	30.0
	Heating	Nom	W	30.0	30.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
	Heating	H/M/L	m^3/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
Sound Pressure		H/M/L	dBA	36 / 32 / 28	38 / 36 / 30
Sound Power		H/M/L	dBA	-	-
Dimensions	Body	WxHxD	mm	900 x 490 x 200	900 x 490 x 200
Net Weight			kg	13.7	13.7
Piping Connection	Liquid		mm	6.35	6.35
	Gas		mm	12.7	12.7
	Drain	I.D	mm	16	16

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU09GVEA2	ARNU12GVEA2
Dry Contact	Simple (1 Contact point without case)	PQDSA	
	Simple (1 Contact point with case)	PDRYCB000	
	2 Contact point	PDRYCB400	
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300	
	Modbus Communication	PDRYCB500	

Wired Remote Controller					Wired Remote Controller
Premium	Standard		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PQRCVSL0QW	 PQRCUDS0	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

CEILING SUSPENDED UNIT

URNU18GVJA2 / URNU24GVJA2
URNU36GVKA2 / URNU48GVLA2

URNU48GVLA2

URNU18GVJA2 / URNU24GVJA2

URNU36GVKA2

Model	Independent Unit			URNU18GVJA2	URNU24GVJA2	URNU36GVKA2	URNU48GVLA2
Capacity	Cooling	Nom	kW	5.6	7.1	10.6	14.1
	Heating	Nom	kW	6.3	8.0	11.9	15.9
Power Input	Cooling	Nom	W	63.0	63.0	140.0	190.0
	Heating	Nom	W	63.0	63.0	140.0	190.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/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	m^3/min	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0	24.6 / 23 / 21.4	35 / 32 / 30
Sound Pressure		H/M/L	dBA	42 / 40 / 37	43 / 41 / 39	48 / 46 / 44	49 / 48 / 47
Sound Power		H/M/L	dBA	-	-	-	-
Dimensions	Body	WxHxD	mm	900 x 490 x 200	900 x 490 x 200	1,350 x 650 x 220	1,350 x 650 x 220
Net Weight			kg	24.6	24.6	35.0	35.0
Piping Connection	Liquid		mm	6.35	6.35	9.52	9.52
	Gas		mm	12.7	12.7	15.9	15.9
	Drain	I.D	mm	16	16	16	16

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		URNU18GVJA2	URNU24GVJA2	URNU36GVKA2	URNU48GVLA2
Dry Contact	Simple (1 Contact point without case)	PQDSA			
	Simple (1 Contact point with case)	PDRYCB000			
	2 Contact point	PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300			
	Modbus Communication	PDRYCB500			

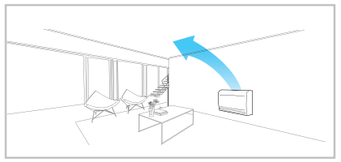
Wired Remote Controller					Wired Remote Controller
Premium	Standard		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PQRCVSL0QW	 PQRCUDS0	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

CONSOLE

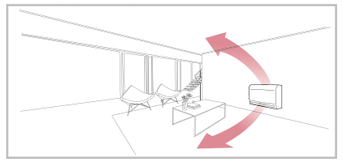
Installation Support Clip

During the cooling operation, the vane adjusts upwards to direct the air flow towards the ceiling.
When heating, the vane directs the warm air downwards to balance the room temperature especially for floor.

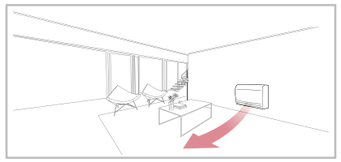
Cooling



Heating (Normal)

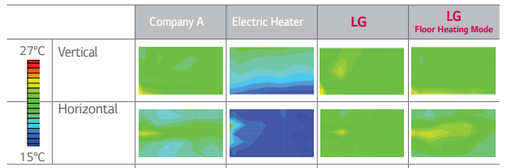


Heating (Floor Heating Mode)



Quick Floor Heating

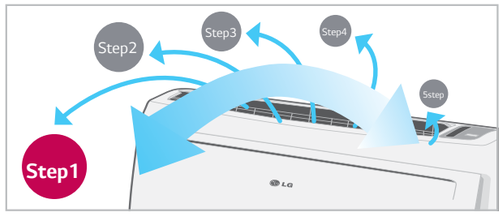
Console air conditioners offer a fast and powerful performance. Using the floor heating mode, console air conditioners provide faster floor heating and help to reach the desired temperature quickly.



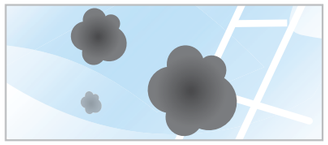
(Test Condition :Target Temp 23℃, Indoor Room:13℃~ , Outdoor Room:7℃)

5-Step Vane Control

There are 5 different stages to control air flow direction.



Healthier Air (3 Stage Air Filter System)



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

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

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

CONSOLE

ARNU07GQAA2 / ARNU09GQAA2
ARNU12GQAA2 / ARNU15GQAA2

Model	Independent Unit			ARNU07GQAA2	ARNU09GQAA2	ARNU12GQAA2	ARNU15GQAA2
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5
	Heating	Nom	kW	2.5	3.2	4.0	5.0
Power Input	Cooling	Nom	W	30.0	30.0	30.0	30.0
	Heating	Nom	W	30.0	30.0	30.0	30.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/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	m^3/min	6.7 / 5.9 / 4.8	6.7 / 5.9 / 4.8	7.5 / 5.9 / 4.8	8.7 / 6.7 / 5.9
Sound Pressure		H/M/L	dBA	37 / 34 / 28	37 / 34 / 28	39 / 34 / 28	42 / 37 / 31
Sound Power		H/M/L	dBA	53 / 50 / 44	53 / 50 / 44	56 / 51 / 45	58 / 53 / 47
Dimensions	Body	WxHxD	mm	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210
Net Weight			kg	14.0	14.0	14.0	14.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7
	Drain	I.D	mm	12.2	12.2	12.2	12.2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU07GQAA2	ARNU09GQAA2	ARNU12GQAA2	ARNU15GQAA2
Dry Contact	Simple (1 Contact point without case)	PQDSA			
	Simple (1 Contact point with case)	PDRYCB000			
	2 Contact point	PDRYCB400			
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300			
	Modbus Communication	PDRYCB500			

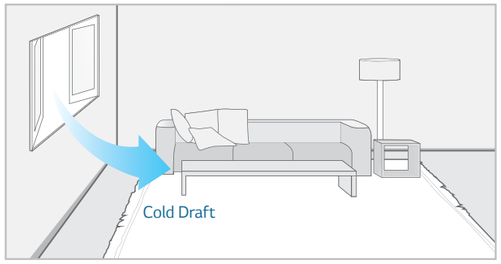
Wired Remote Controller					Wired Remote Controller
Premium	Standard		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PQRCVSL0QW	 PQRCUDS0	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q(Black) PQRCHCA0QW(White)	 PQWRHQ0FDB

FLOOR STANDING UNIT

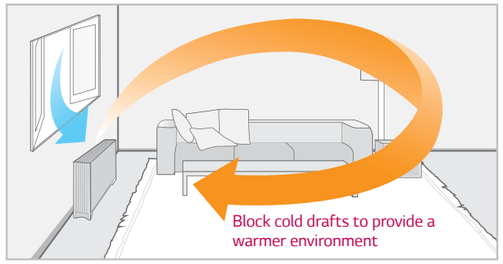
Block Cold Draft

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

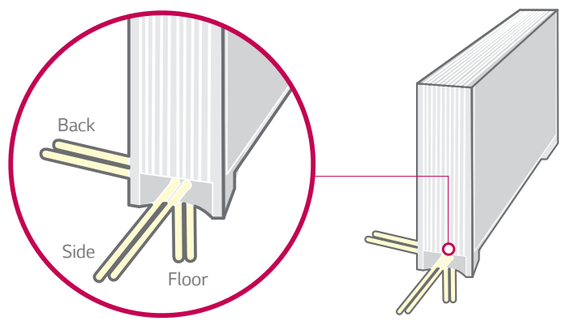


With Floor Standing



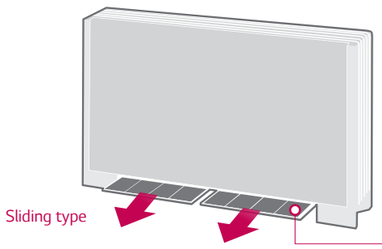
3 way Flexible Installation

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

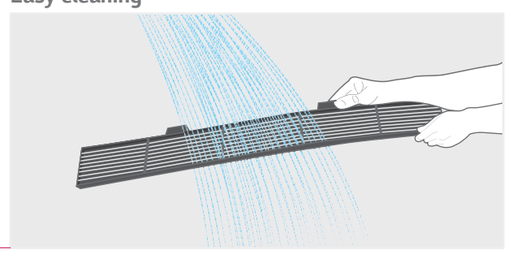


Sliding Type Filter

Easy maintenance and extended product life with sliding type filter



Easy cleaning



FLOOR STANDING UNIT

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

-U : Floor standing without case

-A : Floor standing with case

Model	Independent Unit			ARNU07GCE*4	ARNU09GCE*4	ARNU12GCE*4	ARNU15GCE*4	ARNU18GCF*4	ARNU24GCF*4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling	Nom	W	85.0	85.0	85.0	85.0	115.0	115.0
	Heating	Nom	W	85.0	85.0	85.0	85.0	115.0	115.0
Power Supply			Φ/V/Hz	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60	1 / 220 ~240 / 50, 60
Airflow Rate	Cooling	H/M/L	m^3/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Heating	H/M/L	m^3/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
Sound Pressure		H/M/L	dBA	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power		H/M/L	dBA	54 / 52 / 50	55 / 53 / 51	57 / 55 / 53	59 / 58 / 56	60 / 57 / 54	61 / 60 / 57
Dimensions	Body	WxHxD	mm	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,345 x 635 x 203	1,345 x 635 x 203
Net Weight			kg	27(20)	27(20)	27(20)	27(20)	34(27)	34(27)
Piping Connection	Liquid		mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas		mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88
	Drain	I.D	mm	12.0	12.0	12.0	12.0	12.0	12.0
Fan Motor Output x Number			W	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

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

Accessories

Model		ARNU07GCE*4	ARNU09GCE*4	ARNU12GCE*4	ARNU15GCE*4	ARNU18GCF*4	ARNU24GCF*4
Dry Contact	Simple (1 Contact point without case)	PQDSA					
	Simple (1 Contact point with case)	PDRYCB000					
	2 Contact point	PDRYCB400					
	For Thermostat (On-off / Mode / Fan speed)	PDRYCB300					
	Modbus Communication	PDRYCB500					

Wired Remote Controller					Wired Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q(Black) PQRCHCA0QW(White)	PQWRHQ0FDB

HOT WATER SOLUTION

HYDRO KIT

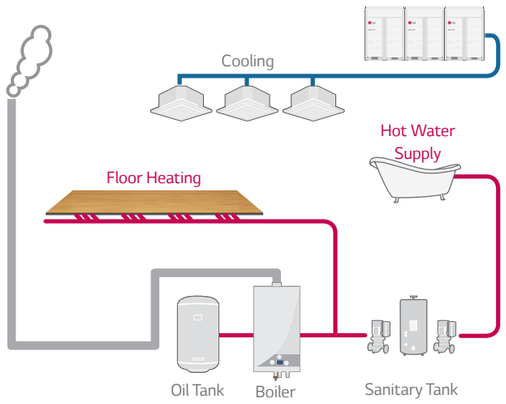
HYDRO KIT, using MULTI V to provide floor heating and hot water supply as a total HVAC solution.

HYDRO KIT

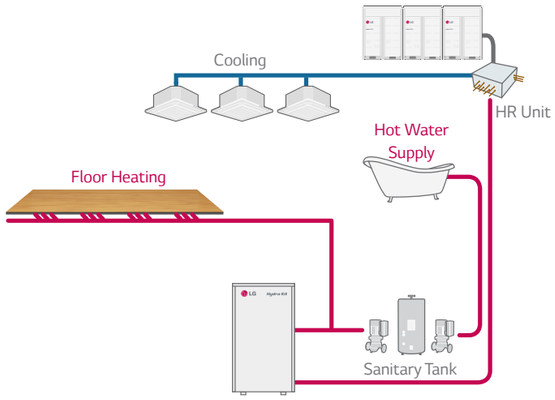
Easy Installation

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

MULTI IV + Boiler



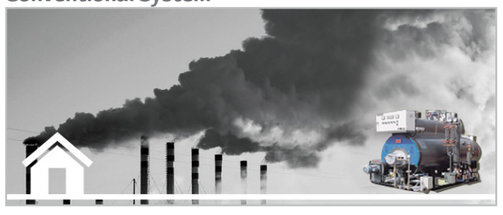
MULTI V IV + HYDRO KIT



Eco-friendly Green Energy Solution

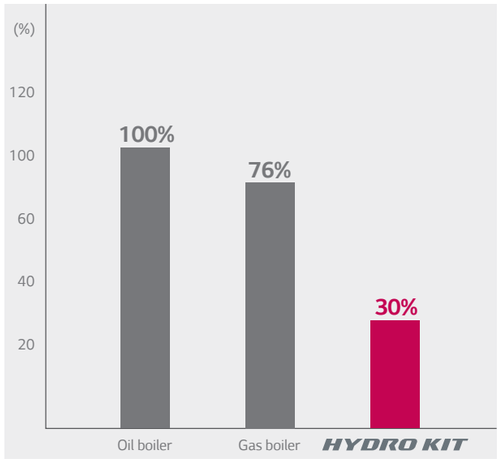
Green energy solution through the reduction of CO2 emmisions.

Conventional System



HYDRO KIT

CO_2 emissions



HYDRO KIT

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)

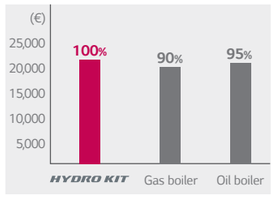
2nd Proposal MULTI V IV Air-conditioning + Gas Boiler
(Hot water supply + Floor Heating)

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

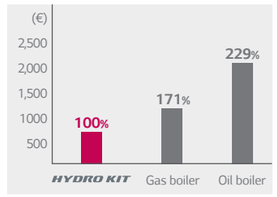
Analysis Conditions

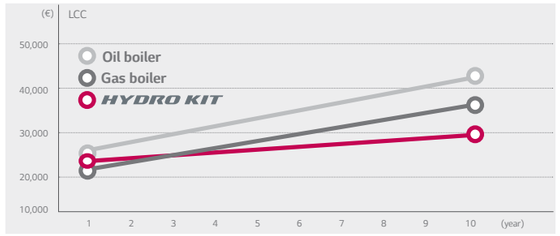
- Building Type : Dormitory, flats
- Cooling / Floor Heating / Sanitary Hot water for 10 years
- Cooling : MULTI V IV Indoor unit
- Floor Heating : Medium Temp. HYDRO KIT (1ea)
- Sanitary Hot water : High Temp. HYDRO KIT (2ea), Sanitary Hot water tanks
- Electricity cost : Average cost in EU
- Gas cost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

Initial Costs



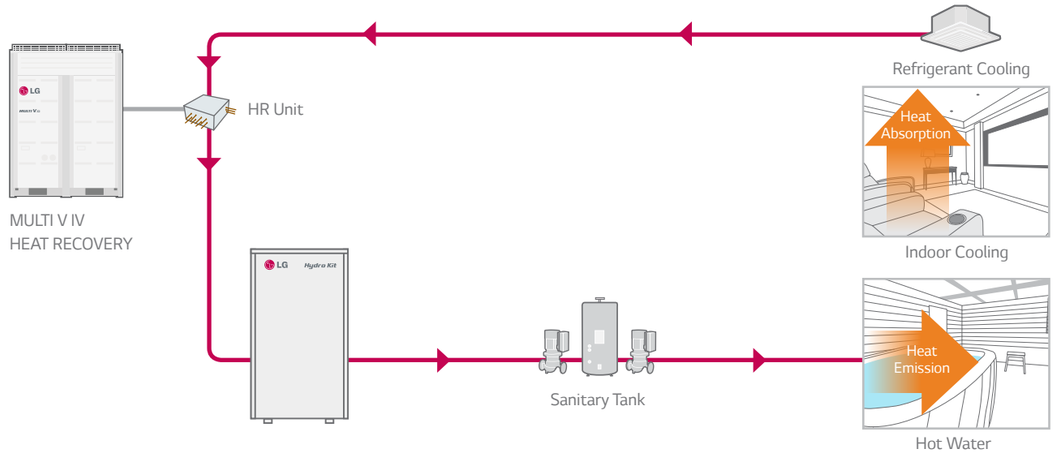
Annual Operating Coast





Energy Saving through MULTI V IV Heat Recovery

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



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.

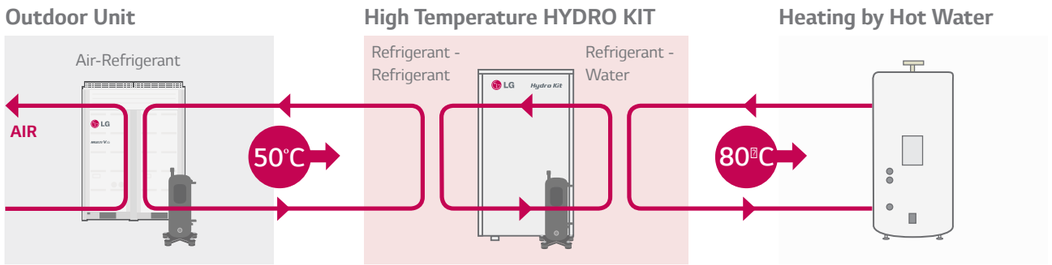
Dual Inverter Cascade Cycle Technology

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

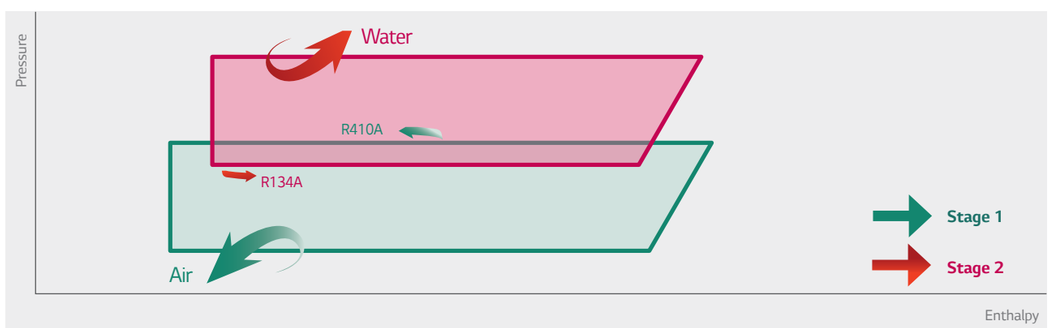
High Volume of Hot Water

- 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



HYDRO KIT

Various Applications

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

Office

University / School

Hospital / Clinic

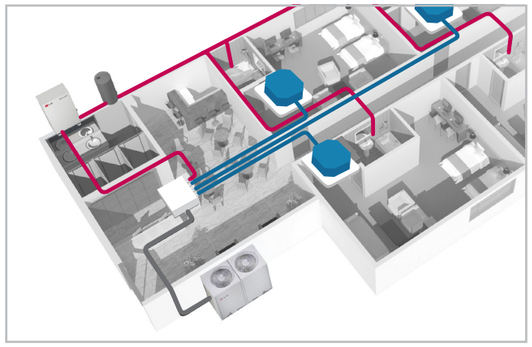
Shopping Mall / Restaurant

Hotel / Resort

Factory Facilities

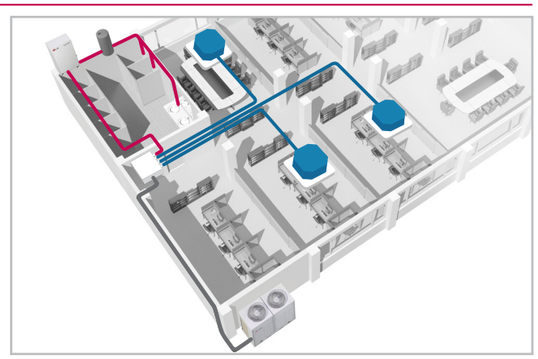
Hotel Application

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.



HYDRO KIT

ARNH04G**K2**A2 / ARNH10G**K2**A2

Type				Low Temp.	Low Temp.
Model				ARNH04G**K2**A2	ARNH10G**K2**A2
Power Supply			ø/ V / Hz	1 / 220 ~ 240 / 50	1 / 220 ~ 240 / 50
Capacity (Rated)	Cooling		kW	12.3	28
	Heating		kW	13.8	13a 31.5.8
Power Input	Cooling	Max	kW	0.01	0.01
	Heating	Max	kW	0.01	0.01
Water Outlet Temperature	Cooling	M in	℃	6	6
	Heating	Max	℃	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 Connectiion			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 to Water	Refrigerant type		R410A	R410A
		Precharged Amount	kg(lbs)	-	-
		Control		EEV	EEV
Operation range	Connected to Heat pump	Cooling	℃(DB)	-5℃ ~ 43℃	-5℃ ~ 43℃
		Heating	℃(DB)	-20℃ ~ 35℃	-20℃ ~ 35℃
	Connected to Heat recovery	Cooling	℃(DB)	-5℃ ~ 43℃	-5℃ ~ 43℃
		Heating	℃(DB)	-20℃ ~ 43℃	-20℃ ~ 43℃
Combination ratio	Only hydrokit	Min ~Max	%	50 ~ 100	50 ~ 100
	Hydrokit + standard IDUs	Min-Max	%	50 ~ 130	50 ~ 130

* This product contains Fluorinated Greenhouse Gases.(R410A)

Note :

1. Capacities are based on the following conditions:

   Cooling - Indoor 27℃(80.6℉) DB / 19℃(66.2℉) WB, Outdoor 35℃(95℉) DB / 24℃(75.2℉) WB, Water Inlet 23℃(73.4℉) / Outlet 18℃(64.4℉)
   Heating - Indoor 20℃(68℉) DB / 15℃(59℉) WB, Outdoor 7℃(44.6℉) DB / 6℃(42.8℉) WB, * Water Inlet 30℃(86℉) / Outlet 35℃(95℉),
   ** Water Inlet 55℃(131℉) / Outlet 65℃(149℉)

2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
4. MULTI V S 4HP (ARUN040GSS0, ARUNN040LSS0) cannot be connected to Hydro Kit.
5. MULTI V Water S cannot be connected to Hydro Kit.

* Medium Temp.
** High Temp.

HYDRO KIT

ARNH04G**K3**A2 / ARNH08G**K3**A2

Type				High Temp.	High Temp.
Model				ARNH04G**K3**A2	ARNH08G**K3**A2
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 Temperature	Cooling	M in	℃	-	-
	Heating	Max	℃	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 Connectiion			mm(inch)	Male PT 1	Male PT 1
Sound Pressure Level	Cooling		dB(A)	-	-
	Heating		dB(A)	43	43
Power Supply Cable			No. x mm²	3C x CV4.0	3C x CV4.0
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		R410A	R410A
		Control		EEV	EEV
	Refrigerant to Water	Refrigerant type		R134a	R134a
		Precharged Amount	kg(lbs)	2.3(5.1)	3.0(6.6)
		Control		EEV	EEV
Operation range	Connected to Heat pump	Cooling	℃(DB)	-5℃ ~ 43℃	-5℃ ~ 43℃
		Heating	℃(DB)	-20℃ ~ 35℃	-20℃ ~ 35℃
	Connected to Heat recovery	Cooling	℃(DB)	-5℃ ~ 43℃	-5℃ ~ 43℃
		Heating	℃(DB)	-20℃ ~ 43℃	-20℃ ~ 43℃
Combination ratio	Only hydrokit	Min ~Max	%	50 ~ 100	50 ~ 100
	Hydrokit + standard IDUs	Min-Max	%	50 ~ 130	50 ~ 130

* This product contains Fluorinated Greenhouse Gases.(R134A)

Note :

1. Capacities are based on the following conditions:

   Cooling - Indoor 27℃(80.6℉) DB / 19℃(66.2℉) WB, Outdoor 35℃(95℉) DB / 24℃(75.2℉) WB, Water Inlet 23℃(73.4℉) / Outlet 18℃(64.4℉)
   Heating - Indoor 20℃(68℉) DB / 15℃(59℉) WB, Outdoor 7℃(44.6℉) DB / 6℃(42.8℉) WB, * Water Inlet 30℃(86℉) / Outlet 35℃(95℉),
   ** Water Inlet 55℃(131℉) / Outlet 65℃(149℉)

2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
4. MULTI V S 4HP (ARUN040GSS0, ARUNN040LSS0) cannot be connected to Hydro Kit.
5. MULTI V Water S cannot be connected to Hydro Kit.

* Medium Temp.
** High Temp.

LG BECON™

HVAC CONTROL SOLUTION

Line-Up

INDIVIDUAL CONTROL

Wired Remote Controller

Premium

PREMTA000
PREMTA000A
PREMTA000B

Standard

PQRCVSL0QW

PQRCVSL0

Simple

PQRCVCL0QW

PQRCVCL0Q

Wireless Remote Controller

PQWRHQ0FDB

New
Wi-Fi Controller*

LG-IR-WF-1

CENTRALIZED CONTROL

Indoor Unit ~32

AC Ez

PQCSZ250S0

Indoor Unit ~128

AC Smart Premium

PQCSW421E0A

New
AC Smart IV

PACS4B000

Indoor Unit ~256

ACP Standard
(Advenced Control Platform)

PQCPC22N0

ACP IV

PACP4B000

CENTRALIZED CONTROL

Indoor Unit ~8196

AC Manager Plus

PQCSSA21E0

AC Manager IV

PACM4B000

System Integration Device

Facility Integrator

PDI
(Power Distribution Indicator)

Premium (8port)
PQNUD1S40
Standard (2port)
New PPWRDB000

ACS IO Module
(ACS Input / Output Module)

PEXPMB000

DO Kit
(Digital Output Kit)

PQNFP00T0

Gateway for Protocol

ACP BACnet

PQNFB17C0

ACP Lonworks

PLNWKB000

KNX Gateway*

LG-AC-KNX4
LG-AC-KNX8
LG-AC-KNX16
LG-AC-KNX64

PI-485

For SINGLE/MULTI/ THERMA V
PMNFP14A1

For Indoor Unit
(Air-Conditioner, ECO V)
PHNFP14A0

For Indoor Unit
(Air-Conditioner, ECO V)
PSNFP14A0

OTHER INTEGRATION DEVICE

Indoor Unit

New Dry Contact

Simple Dry Contact
PQDSA(without case)
PDRYCB000(with case)

2 Points Dry Contact
(For Setback)
PDRYCB400

Dry Contact for Thermostat
PDRYCB300

For Modbus
PDRYCB500

Control Accessory

Group Control Wire

PZCWRCG3

Remote Temperature Sensor

PQRSTA0

Zone Controller

4 Zones by thermostat
ABZCA

Outdoor Unit

IO Module
(Input / Output Module)

Demand controller
for MULTI V IV
PVDSMN000

New Low Ambient Kit

For MULTI V IV
PRVC2

Dry Contact for Demand Control

Demand controller
for MULTI V III
PQDSBCDVM0

Variable Water Flow Control kit

For MULTI V WATER IV
PWFCKN000

For MULTI V WATER II
PRVCO

Cool/Heat Selector

PRDSBM

AHU Kit

Communication Kit

Return/Room Air Control
PUCKA0
(For SINGLE SPLIT)
New PRCKA1
(For MULTI V)

Supply Air Control by DDC
New PUDCA0
(For SINGLE SPLIT)
PRDCA0 (For MULTI V)

Control kit

PRCKD21E
PRCKD41E

EEV Kit

PRLK048A0(28.1 kW)
PRLK096A0(56.2 kW)

Expansion Kit

PATX13A0E (23~46kW)
PATX20A0E (52~75kW)
PATX25A0E (82~104kW)
PATX35A0E (110~133kW)
PATX50A0E (139~163kW)

Wireless Remote Controller

New

PREMTB001

PQRCHCA0QW
(Simple for Hotel)

New

PREMTBB01

PQRCHCA0Q
(Simple for Hotel)

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

AIR CONDITIONER
CONTROL SYSTEM

INDIVIDUAL CONTROL

INDIVIDUAL CONTROLLER

Premium Wired Remote Controller
› Page 148

Standard Wired Remote Controller
› Page 150

Simple Wired Remote Controller
› Page 151

Wireless Remote Controller
› Page 152

Wi-Fi Controller
› Page 153

Remote Controller Line Up

Model Name	 PREMTA000 PREMTA000A PREMTA000B	*New*  PREMTB001 PREMTBB01	 PQRCVSL0QW PQRCVSL0	 PQRCVCL0QW PQRCVCL0Q PQRCHCA0QW PQRCHCA0Q	 PQWRHQ0FDB	*New* 1)  LG-IR-WF-1
On / Off	●	●	●	●	●	●
Fan Speed Control	●	●	●	●	●	●
Temperature Setting	●	●	●	●	●	●
Mode Change	●	●	●	●	●	●
Additional Mode Setting	●	●	●	●	●	-
Auto Swing	●	●	●	●*	●	●
Vane Control (Louver Direction)	●	●	●	-	●	-
E.S.P (External Static Pressure)	●	●	●	●	-	-
Reservation	Weekly / Yearly	Weekly	Weekly	-	Sleep, on/off	-
Child Lock	●	●	●	●	-	-
Electric Failure Compensation	●	●	●	●*	-	-
Time Display	●	●	●	-	●	-
Filter sign	● (Remain time + Alarm)	● (Remain time + Alarm)	● (Alarm)	-	-	-
Energy Management**	●	-	-	-	-	-
Home Leave	2 set points control	-	-	-	-	-

* PQRCHCA0QW/PQRCHCA0Q doesn't offer this function
**Centralized control(PQCSW421E0A/PACS4B000/PQCPC22N0/PACP4B000/PQNFB17C0/PLNWKB000) and PDI(PQNUD1S40/PPWRDB000) should be installed for this function
1) User and product registration are necessary to use functions with internet accessibility.
Providing functions can be changed according to the manufacturer.

PREMIUM WIRED REMOTE CONTROLLER

5 inch full touch screen with a premium design

PREMTA000 [1)]
PREMTA000A [2)]
PREMTA000B [3)]

1)English / Portuguese / Spanish / French
2)English / Italian / Russian / Chinese
3)English / German / Polish / Czech

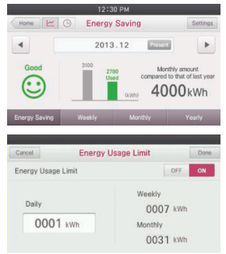
Features [1)]

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

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

* Centralized control(PQCSW421E0A/PACS4B000/PQCPC22N0/PACP4B000/PQNFB17C0/PLNWKB000) and PDI(PQNUD1S40/PPWRDB000) should be installed for this function
** For ceiling type duct
1) Indoor unit should have functions requested by the controller

Energy Management



Self Energy Management

After it gather information about usage time or electricity usage*, offer periodical history data to users as visual information. By using various setting mode (operation hour / electricity usage etc.), you can manage on your own.

Weekly / Monthly / Yearly Trend & Target Setting Control

Premium remote controller provides convenient trend & target graph for different period.

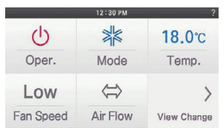
* Centralized control(PQCSW421E0A/PACS4B000/PQCPC22N0/PACP4B000/PQNFB17C0/PLNWKB000) and PDI(PQNUD1S40/PPWRDB000) should be installed for this function

User Friendly Design

Standard Mode

Intuitive UI & GUI Design

It is more easy to use and control various functions.



Simple Mode

Display Configuration

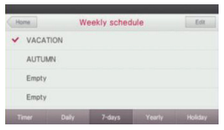
Users can use of five buttons as shortcuts for frequently used features.

Enhanced Schedule Function

Yearly Schedule

Yearly / Weekly Schedule Function

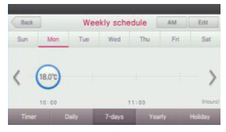
If you set the schedule all at once, you will be able to effectively manage for various lengths of time. It provides 5 kinds of reservation functions. (Timer, Daily, Weekly, Yearly, Holiday)



Weekly Schedule Pattern

Easy Pattern Schedule

It is possible to embody various schedules as pattern setting.



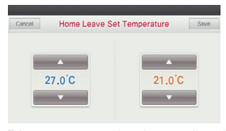
Weekly Schedule

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

2 Set Points Control

2 Set Points Control [1)]

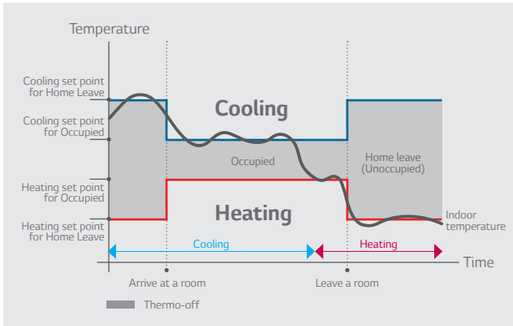
Ambient indoor temperature is guaranteed by setting two-point temperature for cooling and heating. New premium remote automatically changes from heating to cooling(and vice versa) depending on temperature.



Home Leave

Changeable setting for occupied / unoccupied status

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



STANDARD WIRED REMOTE CONTROLLER

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

Standard

PQRCVSL0QW
(White)

PQRCVSL0
(Black)

New
Standard II

PREMTB001
(White)

PREMTBB01
(Black)

Features [1)]

Model Name	PQRCVSL0QW / PQRCVSL0	PREMTB001 / PREMTBB01 (for 4th generations new indoor units)
On / Off	●	●
Fan Speed Control	●	●
Temperature Setting	●	●
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	●	●
Vane Control (Louver Direction)	●	●
E.S.P (External Static Pressure)	●	●
Reservation	Simple / Sleep / On / Off / Weekly / Holiday	Simple / Sleep / On / Off / Weekly / Holiday
Time Display	●	●
Electric Failure Compensation	●	●
Child Lock	●	●
Filter sign	● (Alarm)	● (Remain time + Alarm)
Operation Status LED	●	●
Indoor Temperature Display	●	●
Wireless Remote Controller Receiver	●*	●*
Size (W x H x D, mm)	120 x 121 x 16	120 x 121 x 16
Backlight	●	●
Power Consumption Monitoring	-	●**
Check Model Information	-	●

* For ceiling type duct
** Centralized control(PQCSW421E0A/PACS4B000/PQCPC22N0/PACP4B000/PQNFB17C0/PLNWKB000) and PDI(PQNUD1S40/PPWRDB000) should be installed for this function
[1)] Indoor unit should have functions requested by the controller

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 [1)]

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

* For ceiling type duct
[1)] Indoor unit should have functions requested by the controller

WIRELESS REMOTE CONTROLLER

Wireless control to operate air conditioners more conveniently

PQWRHQ0FDB

Features

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

WI-FI CONTROLLER [1)]

Advanced solution to control LG air-conditioner based on IR and Wi-Fi communication

New

LG-IR-WF-1

Models Applied

- Connectable with the indoor unit having IR receiver
- Control and monitor
  : On/Off Mode, Set Temp, Room Temp, Fan Speed
- Power supply includes EU-UK-US-AU heads
- Easy to install : Wall or desktop mounted
- Attractive design
- On/Off status and mode indicated by LED light
- Automatic firmware Updates*

* Internet access is necessary

Model Name	LG-IR-WF-1
Start/Stop Operation	●
Operation Mode	Cool / Heat / Auto / Fan / Dry
Set Point	●
Ambient Temperature	●
Fan Speed	●

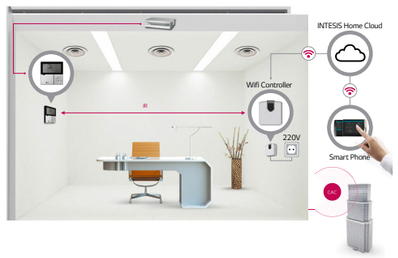
Specifications

Model Name	LG-IR-WF-1
Enclosure	ABS (V-0, 5VB) 2,1 mm thickness PC (V-2) 1mm thickness
Dimensions (mm)	81 × 78 × 28
Weight (g)	76
Colour	White
Power Supply	5VDC 0,2 A NEC Class 2 or Limited Power Source (LPS) and SELV Rated Power supply
Mounting	Wall
LED Indicators	1 × Device status
Operating Temperature	From 0°C to 40°C
Operating Humidity	<93% HR, no Condensation
Stock Humidity	<93% HR, no Condensation
RoHS Conformity	Compliant with RoHS Directive (2002/95/CE).
Certifications	Compliant with RoHS Directive (2002/95/CE) CE Conformity to EMC Directive (2004/108/EC) and Low-voltage Directive (2006/95/EC) EN 60950-1 EN 301489-1 v1.8.1 EN 300328

Overview

Case 1) Connection with Indoor units with IR receiver

Case 2) Connection with duct type Indoor units



[1)] This product is provided by INTESIS. For more information, please contact INTESIS directly

AIR CONDITIONER
CONTROL SYSTEM

CENTRALIZED CONTROL

CENTRALIZED CONTROL

AC EZ

› Page 156

AC Smart Premium
/ AC Smart IV

› Page 157

ACP Standard / ACP IV

› Page 159

AC Manager Plus
/ AC Manager IV

› Page 160

Central Controller Line Up

Model Name	 PQCSZ250S0	 PQCSW421E0A *New* PACS4B000	 PQCPC22N0 *New* PACP4B000	 PQCSSA21E0* *New* PACM4B000*
Maximum Number of Indoor Units	32	128	256	8,192
Individual / Group Control (On&Off, Mode, Set Point, Fan Speed)	●	●	●	●
Ventilation Control	●	●	●	●
Individual Controller Lock	●	●	●	●
Error Check	●	●	●	●
Schedule	●	●	●	●
Operation History	-	●	●	●
Visual Navigation	-	●	●	●
Operation Time Limit	-	●	●	●
Temperature Limit	-	●	●	●
Web Access [1]	-	●	●	●
Auto Changeover / Setback	-	●	●	●
Power Consumption Monitoring (with PDI)	-	●	●	●
Interlock Control	-	●	●	●
Virtual Group Control	-	●**	●**	●**
Emergency Pattern Display	-	●**	●**	●**
ACS IO Module Interlocking	-	●**	●**	●**

[1] Assignment of public IP adress is required to access central controller through internet.

* S/W program
** For ACS IV series : PACS4B000/PACP4B000 /PACM4B000

AC EZ

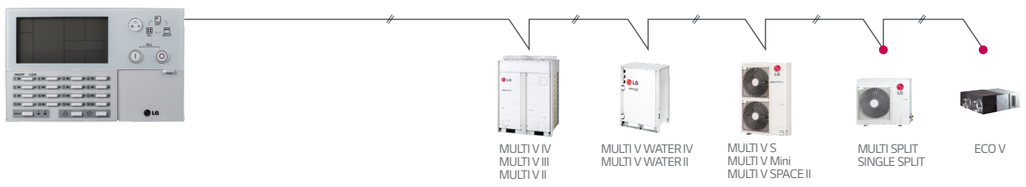
Easy to manage up to 32 indoor units include ECO V with simple commander

PQCSZ250S0

Features

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

Combination



● Appropriate PI 485 should be used according to PDB

AC SMART PREMIUM / IV

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

AC SMART PREMIUM

PQCSW421E0A

New
AC SMART IV

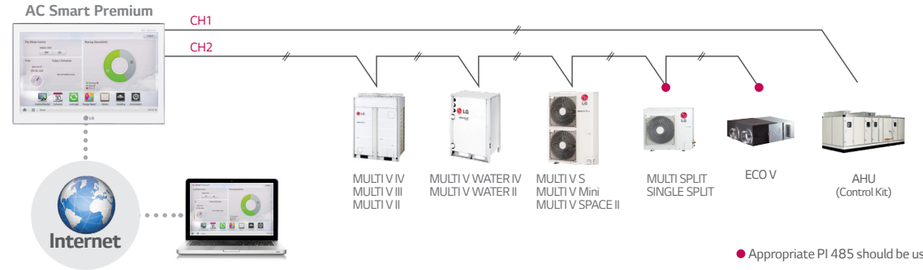
PACS4B000

Features

Model Name	PQCSW421E0A	PQCS4B000
Maximum Number of Indoor Units	128	128
Individual / Group Control	●	●
Ventilation Control	●	●
Individual Controller Lock	● (Temperature / Mode / Fan / All)	● (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception day	Daily / Weekly / Monthly / Yearly / Exception day
Operation History	●	●
Visual Navigation	●	●
Operation Time Limit	●	●
Temperature Limit	●	●
Web Access [1)]	●	●
Auto Changeover / Setback	● (2 set)	● (2 set)
Power Consumption Monitoring (with PDI)	●	●
Interlock Control	●	●
Virtual Group Control	-	●
Emergency Alarm Display	-	●
ACS IO Module Interlocking	-	●
External IO Port No.	DI 2 / DO 2	DI 2 / DO 2
Interfaceable Products	MULTI V / ECO V / ECO V DX / THERMA V / Hydro kit / AHU (Control kit)	MULTI V / ECO V / ECO V DX / THERMA V / Hydro kit / AHU (Control kit)

[1)] Assignment of public IP adress is required to access central controller through internet.

Combination

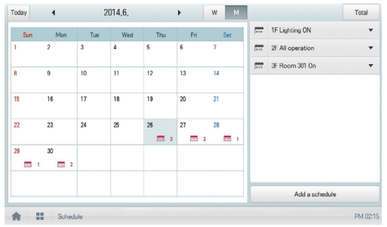


● Appropriate PI 485 should be used according to PDB

AC SMART PREMIUM / IV

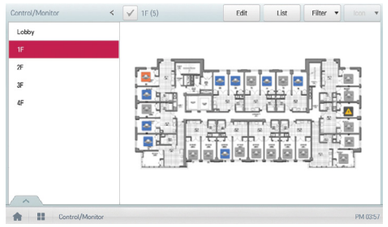
Large 10.2 inch touch screen with intuitive GUI (Graphic User Interface) allows easy control

Functions



Schedule

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

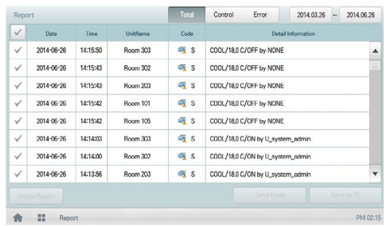


Visual Navigation

Current operation status on floor plan is checked at one view

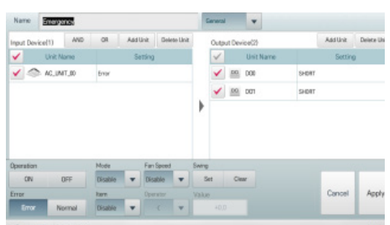
Energy Statistics (with PQNUD1S40 or PPWRDB000)

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



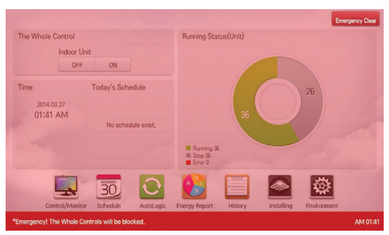
Operation Report

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



Interlocking

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



Emergency Display*

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

* For AC SmartIV : PACS4B000

ACP STANDARD / IV (ADVANCED CONTROL PLATFORM)

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

ACP Standard

PQCPC22N0

New
ACP IV

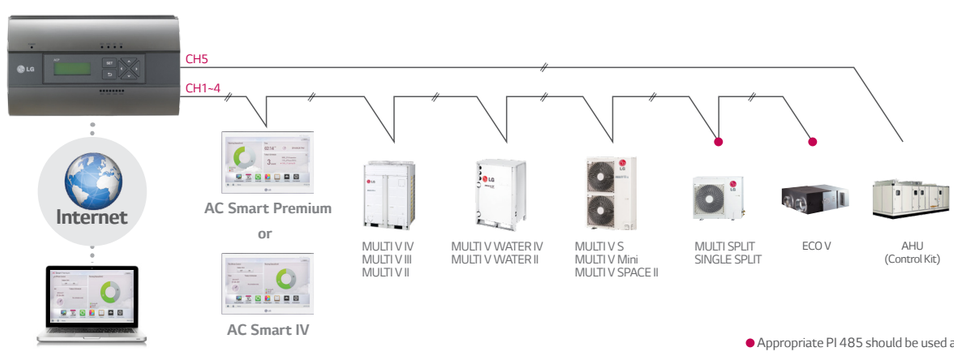
PACP4B000

Features

Model Name	PQCPC22N0	PACP4B000
Maximum Number of Indoor Units	256	256
Individual / Group Control	●	●
Ventilation Control	●	●
Individual Controller Lock	● (Temperature / Mode / Fan / All)	● (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception Day	Daily / Weekly / Monthly / Yearly / Exception Day
Operation History	●	●
Visual Navigation	●	●
Operation Time Limit	●	●
Temperature Limit	●	●
Web Access[1]	●	●
Auto Changeover / Setback	● (2 set)	● (2 set)
Power Consumption Monitoring (with PDI)	●	●
Interlock Control	●	●
Virtual Group Control	-	●
Emergency Alarm Display	-	●
ACS IO Module Interlocking	-	●
External IO Port No.	DI 2 / DO 2	DI 10 / DO 4
Interfaceable Products	MULTI V / ECO V / ECO V DX / THERMA V / Hydro kit / AHU (Control kit)	MULTI V / ECO V / ECO V DX / THERMA V / Hydro kit / AHU (Control kit)

[1] Assignment of public IP adress is required to access central controller through internet.

Combination



● Appropriate PI 485 should be used according to PDB

AC MANAGER PLUS / IV

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

AC MANAGER PLUS

PQCSSA21E0

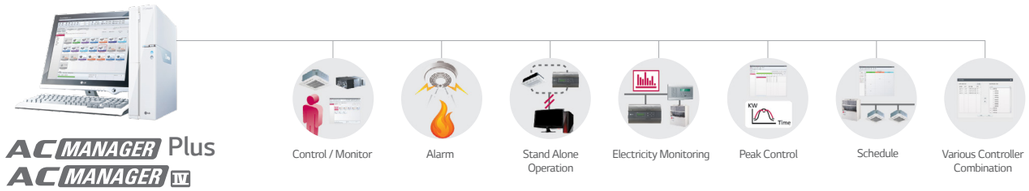
New
AC MANAGER IV

PACM4B000

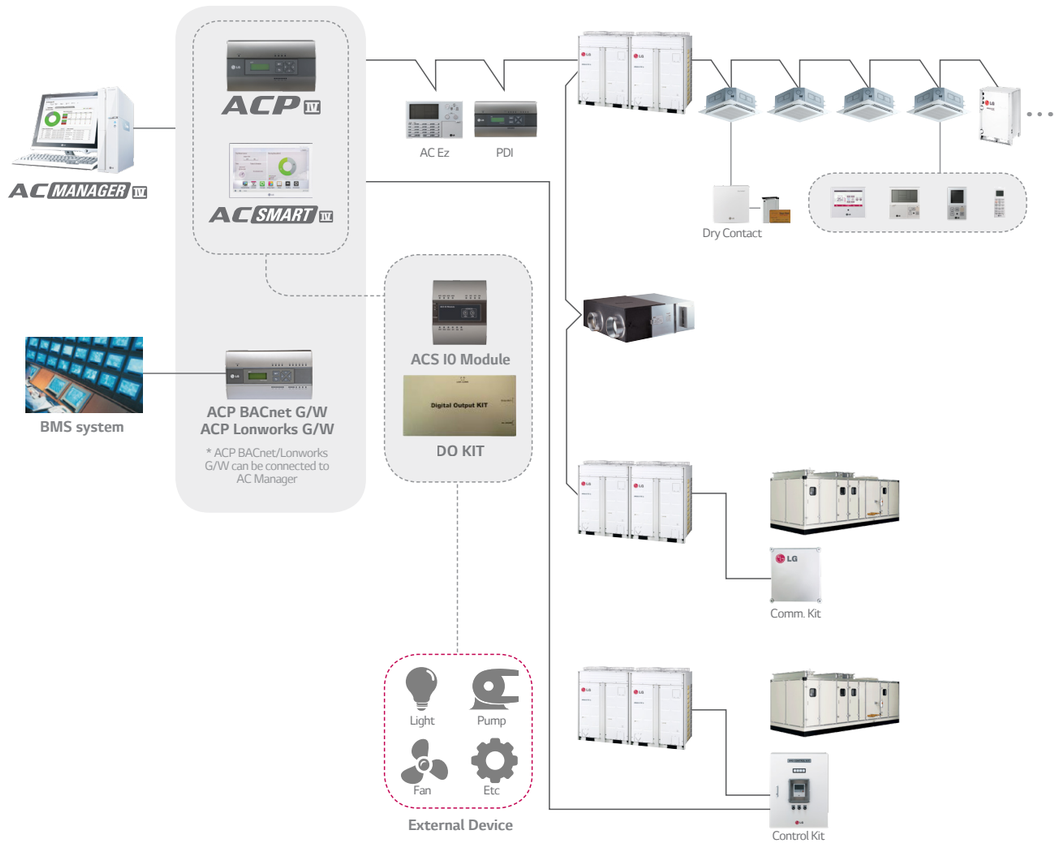
Features

Model Name	PQCSSA21E0	PACM4B000
Maximum Number of Indoor Units	8,192 (supports 32 ACP)	8,192 (supports 32 ACP IV)
Individual / Group Control	●	●
Ventilation Control	●	●
Individual Controller Lock	● (Temperature / Mode / Fan / All)	● (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception Day	Daily / Weekly / Monthly / Yearly / Exception Day
Operation History	●	●
Visual Navigation	●	●
Temperature range limit	●	●
Remote Access[1)]	●	●
Auto Changeover	● (1 set)	● (2 set)
Setback	● (2 set)	● (2 set)
Power Consumption Monitoring (with PDI)	●	●
Interlock Control	●	●
Virtual Group Control		●
Emergency Alarm Display	-	●
ACS IO Module Interlocking	-	●

[1)] Assignment of public IP adress is required to access central controller through internet.



Solution Overview



SYSTEM INTEGRATION DEVICE

Facility Integrator	Gateway for Protocol

PDI
(Power Distribution Indicator)

Premium (8 port)
PQNUD1S40
Standard (2 port)
New PPWRDB000

ACS IO MODULE
(ACS Input / Output Module)

New PEXPMB000

DO Kit
(Digital Output Kit)

PQNFP00T0

ACP BACnet
(Modbus)

PQNFB17C0

PI-485

For Outdoor Unit
(SINGLE/MULTI/THERMA V)
PMNFP14A1

ACP Lonworks

PLNWKB000

For Indoor Unit
(Air-Conditioner, ECO V)
PHNFP14A0

KNX Gateway

LG-AC-KNX4
LG-AC-KNX8
LG-AC-KNX16
LG-AC-KNX64

For Indoor Unit
(Air-Conditioner, ECO V)
PSNFP14A0

PDI PREMIUM
(POWER DISTRIBUTION INDICATOR)

PDI shows power consumption of up to 128 indoor units

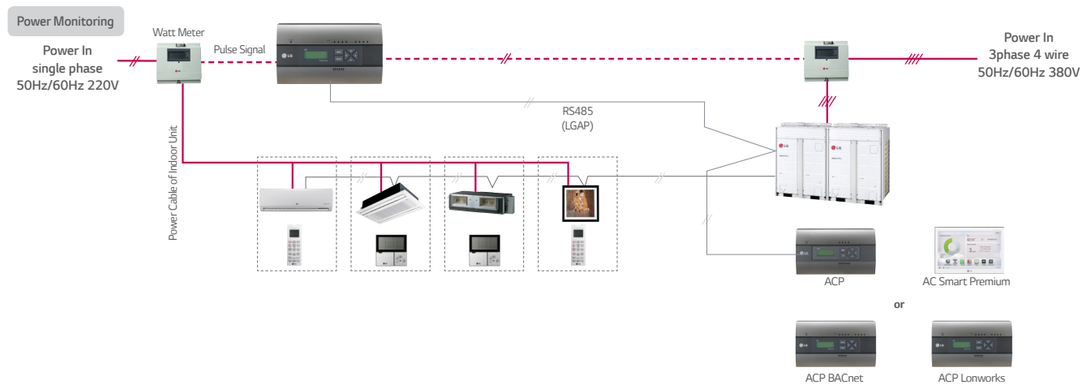
Premium
PQNUD1S40 (8 port)

New
Standard
PPWRDB000 (2 port)

Features

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

Combination



ACS IO MODULE (ACS INPUT / OUTPUT MODULE)

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

New

PEXPMB000

Features

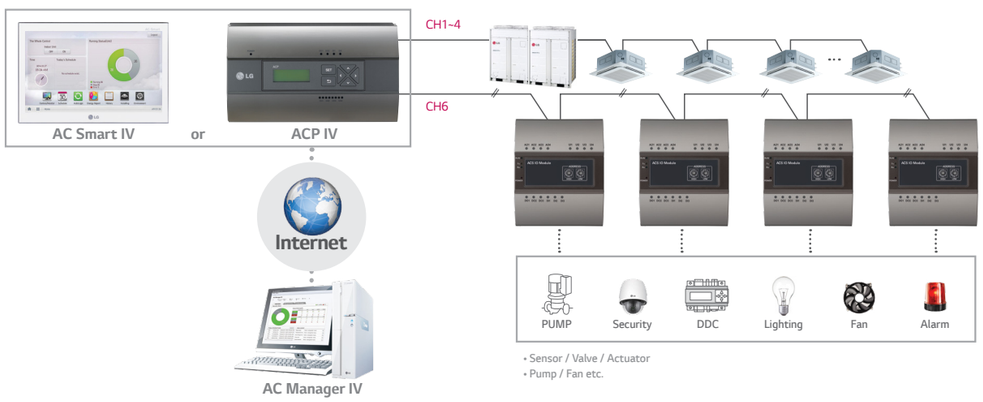
Model Name		PEXPMB000
Linkable Products		AC Smart IV ACP IV AC Manager IV
Communication	CAN	1
	RS-485	1
I/O	DI	3
	DO	3
	UI	4
	AO	4

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

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

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

Combination

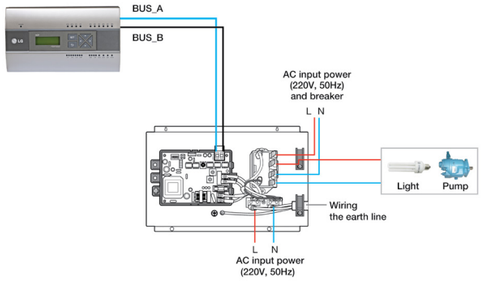


DO KIT (DIGITAL OUTPUT KIT)

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

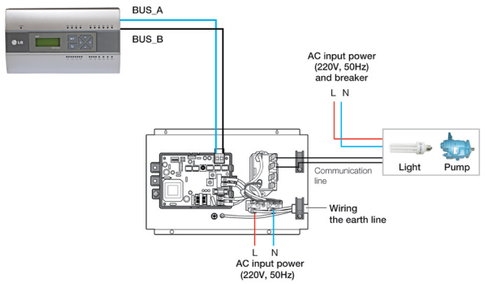
PQNFP00T0

Features



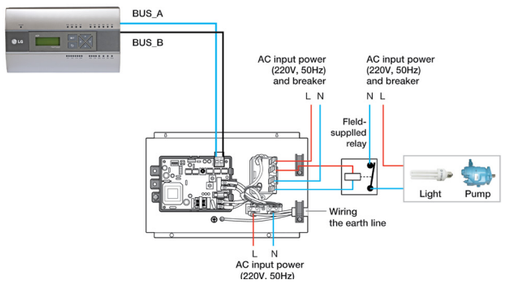
• When the product input is less or equal to 25A (The device is controlled by turning On/Off the power supply line of the product.)

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



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

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



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

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

ACP BACNET GATEWAY

PQNFB17C0

Features

- Process ability
  - EHP Type : 256 units (Indoor / ECO V / ECO V DX / Hydro Kit / THERMA V)
  - AHU Control kit : Maximum 16 units
- 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.
- Modbus protocol support
- BTL Certified (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
Operation Mode Setting	Operation Mode Status
Fan Speed Setting	Fan Speed Status
Lock Setting	Lock Status
Air Flow Setting	Air Flow Status
Set Temperature Setting	Set Temperature Status
-	Current Space Temperature Status
-	Error Status
User Mode Setting (for only ECO V)	User Mode Status (for only ECO V)
-	Accumulator Power Distribution Status
Upper Limit Temp. Setting	Upper Limit Temperature Status
Low Limit Temp. Setting	Low Limit Temperature Status
Mode Lock Setting	Mode Lock Status
AC Operation Mode Setting (ECO V DX only)	Air Conditioner Operation Mode Status (ECO V DX only)
AC On/Off Command (ECO V DX only)	Air Conditioner On/Off Status (ECO V DX only)

* In case of using Modbus, the compatibility is different from BACnet. Refer to manual in detail.

Combination

BACnet

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

ACP LONWORKS GATEWAY

PLNWKB000

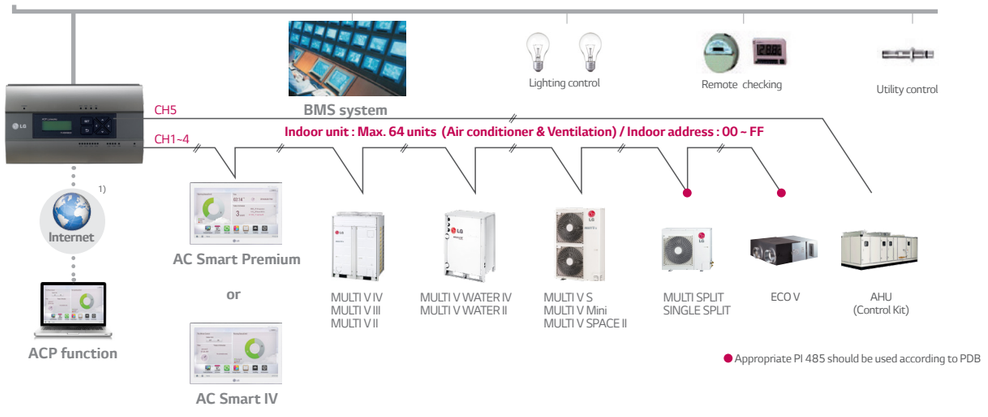
Features

- Process ability
  - EHP Type : 64 units (Indoor / ECO V / Hydro Kit / THERMA V)
  - AHU Control kit : Maximum 16 units
- Connect to use Lonworks® protocol and LG air conditioner protocol.
- Self installation verification function using internet (Web server included)
  - Setting gateway
  - Diagnosis of communication status on LG Air-conditioner network
- 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
Operation Mode Setting	Operation Mode Status
Fan Speed Setting	Fan Speed Status
Lock Setting	Lock Status
Air Flow Setting	Air Flow Status
Set Temperature Setting	Set Temperature Status
-	Current Space Temperature Status
-	Error Status
-	Accumulator Power Distribution Status
Upper Limit Temperature Setting	Upper Limit Temperature Status
Mode Lock Setting	Mode Lock Status
Peak Operation Ratio Setting	Peak Operation Ratio Status
All On / Off Setting	-
-	Total Accumulate Power Status

Combination

LONWORKS®



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

KNX GATEWAY [1)]

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

LG-AC-KNX4
LG-AC-KNX8
LG-AC-KNX16
LG-AC-KNX64

Features

- Easy installation, direct connection to all outdoor units (communication interface PMNFP14A1, when needed) and Heat recovering units (communication interface PHNFP14A0, when needed) throungh the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24V DC or 24V AC
- Standard DIN-Rail 6 modules enclosure
- Maximum connection unit

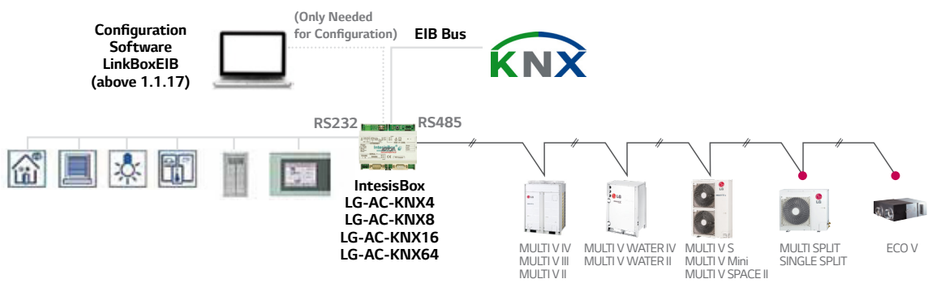
Model Name	Max. Connection Units
LG-AC-KNX4	4
LG-AC-KNX8	8
LG-AC-KNX16	16
LG-AC-KNX64	64

Link BoxEIB Configuration Software for IntesisBox® KNX serious

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.

Combination



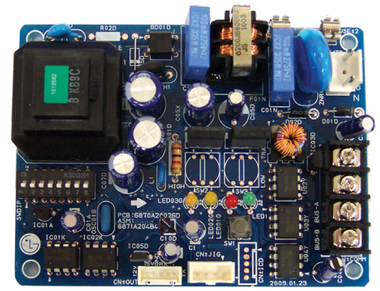
● Appropriate PI 485 should be used according to PDB

[1)] This product is provided by INTESIS. For more information, please contact INTESIS directly.

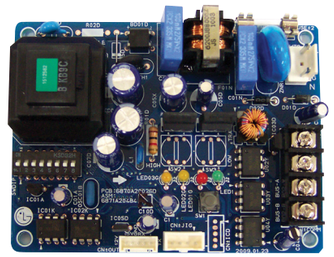
PI 485

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

PMNFP14A1
PHNFP14A0
PSNFP14A0

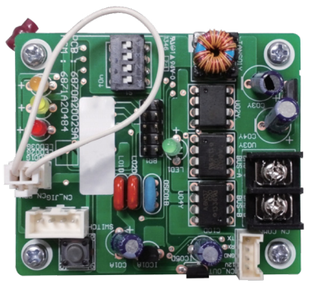


Features



- 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)
  - SINGLE SPLIT
  - MULTI SPLIT
  - THERMA V

- Model Name : PHNFP14A0
- Power : Connected with the Indoor Units
- 1 for Each Indoor Unit
  - Indoor Unit (Air-Conditioner, ECO V)



- Model Name : PSNFP14A0
- Power : Connected with the Indoor Units
- 1 for Each Indoor Unit
  - Indoor Unit (Air-Conditioner, ECO V)

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

* MULTI V PLUS II & MULTI V III & MULTI V IV series do not require any other PI 485 since these series have PI 485 in its outdoor unit PCB.

AIR CONDITIONER
CONTROL SYSTEM

OTHER INTEGRATION DEVICE

OTHER INTEGRATION DEVICE
Line-Up

Indoor Unit		Outdoor Unit	AHU Kit
New Dry Contact	Control Accessory		
Simple Dry Contact PQDSA(without case) PDRYCB000(with case)	Group Control Wire PZCWRCG3	IO Module (Input / Output Module) PVDSMN000	Communication Kit PUCKA0
2 Points Dry Contact (For Setback) PDRYCB400	Remote Temperature Sensor PQRSTA0	**New** Low Ambient Kit PRVC2	**New** PRCKA1 **New** PUDCA0 PRDCA0
Dry Contact for Thermostat PDRYCB300	Zone Controller ABZCA	Dry Contact for Demand Control PQDSBCDVM0	Control Kit PRCKD21E PRCKD41E
For Modbus PDRYCB500		Variable Water Flow Control Kit PWFCKN000 PRVCO	EEV Kit (Electronic Expansion Valve kit) PRLK048A0 / PRLK096A0
		Cool/Heat Selector PRDSBM	Expansion Kit PATX13A0E / PATX20A0E PATX25A0E / PATX35A0E PATX50A0E

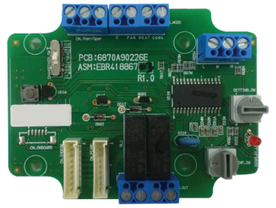
DRY CONTACT

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

New
PDRYCB000 PQDSA

New
PDRYCB400

New
PDRYCB300

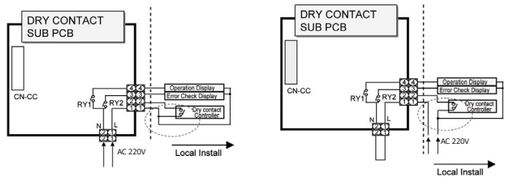


Features

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

* Refer to each models PDB for applicable models.
* PDRYCB000(with case) / PQDSA(without case)
* Maximum operation AC : 3A
* 4th generation indoor unit has 1 contact point function for on/off control.
But in case of using more function of Dry Contact besides on/off control, Dry Contact is needed.

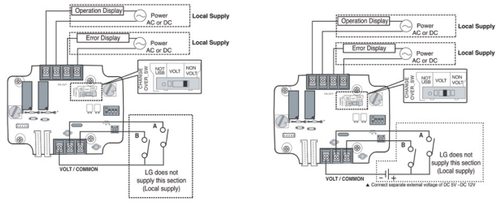
PDRYCB000/PQDSA



To Apply Power Source through PCB

To Apply Power Source Directly to External Source

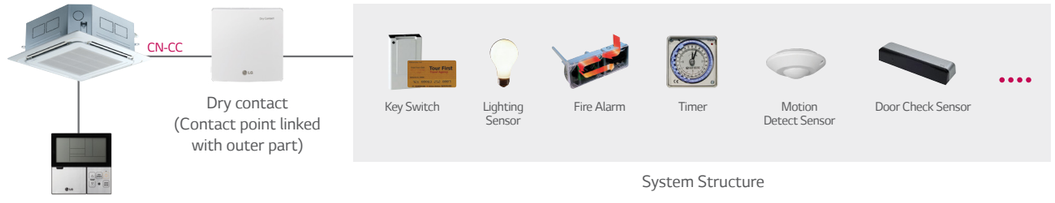
PDRYCB400



In Case Non Voltage Signal

In Case Voltage Signal

Combination

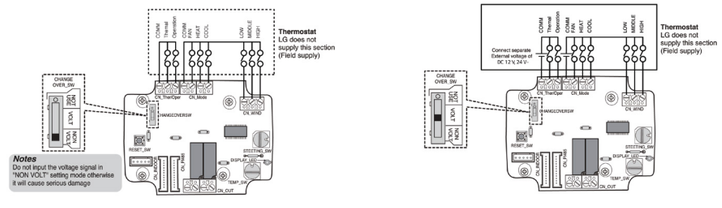


System Structure

Features

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

PDRYCB300

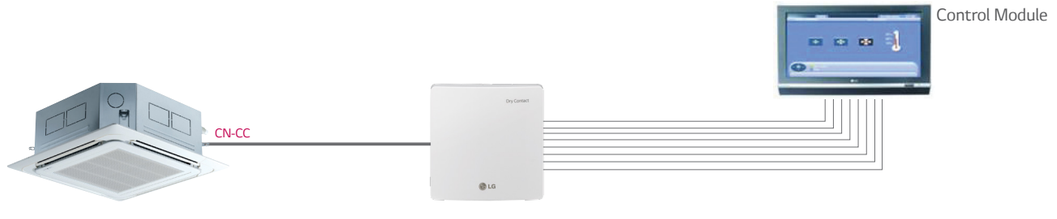


- For no Power Contact Point Signal Input

- For Power Contact Point Signal Input

- Indoor Unit Monitoring

Combination



DRY CONTACT

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

New

PDRYCB500

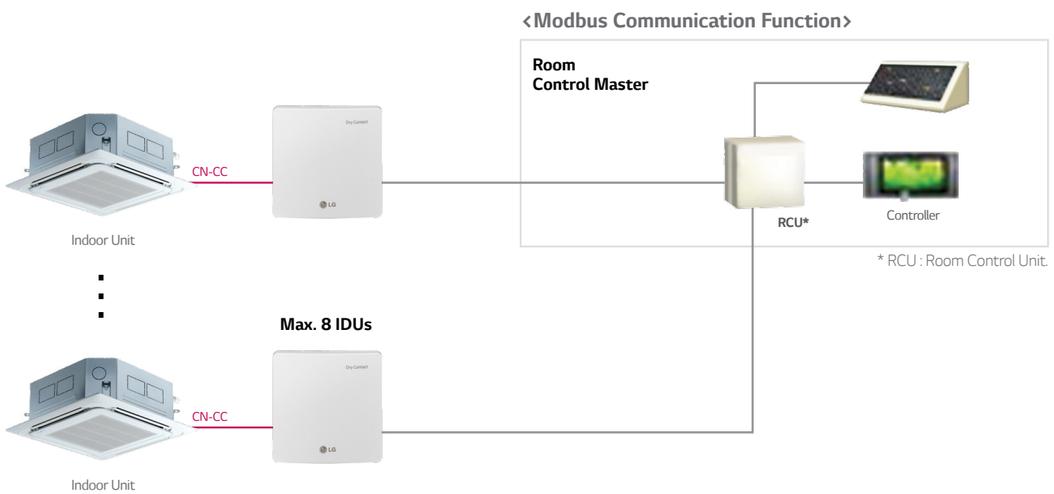
Features

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

• Memory map

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

Combination



GROUP CONTROL WIRE

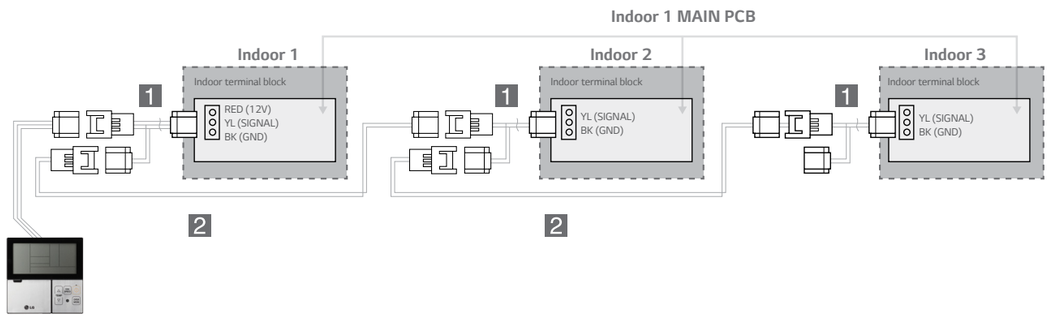
Cables used to connect a wired remote controller up to 16 indoor units

PZCWRCG3

Features

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

Combination



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

REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature

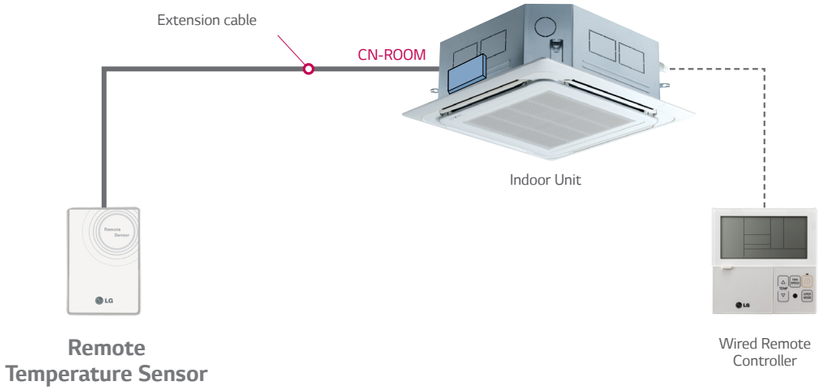
PQRSTA0

Features

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

Combination

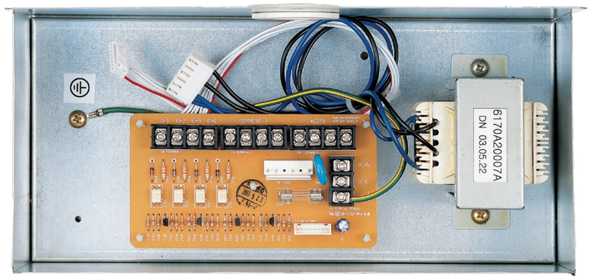
1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



ZONE CONTROLLER

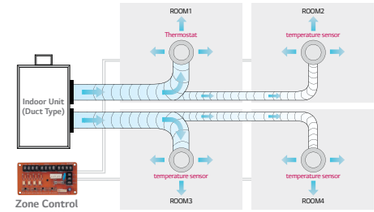
Controls air conditioning in up to 4 zones by external thermostat

ABZCA



Features

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



Models applied

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

Wiring Diagram

Ceiling Concealed Duct

CN-ZONE

Zone controller

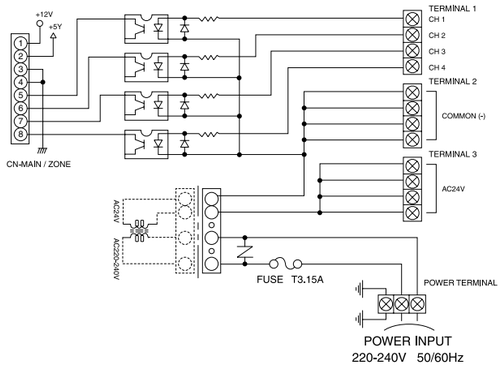
AC 24V

ROOM(External) THERMOSTAT #1 → Damper Or Relay

ROOM THERMOSTAT #2 → Damper Or Relay

ROOM THERMOSTAT #3 → Damper Or Relay

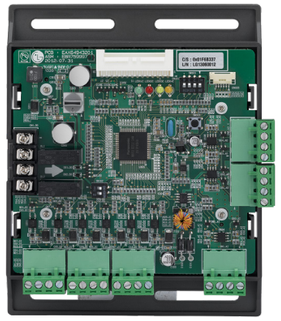
ROOM THERMOSTAT #4 → Damper Or Relay



IO MODULE (INPUT / OUTPUT MODULE)

External device interface module for system air conditioner

PVDSMN000



Features

- Function
  - Demand control
  - Low noise operation
  - Output outdoor or indoor unit operation status
  - Output error status
- Description
  IO Module is communication interface module for connection between MULTI V IV and external IO (Input / Output Module) devices.
- Note : IO Module is not compatible for MULTI V III

Models applied

- MULTI V IV, MULTI V WATER IV, MULTI V S

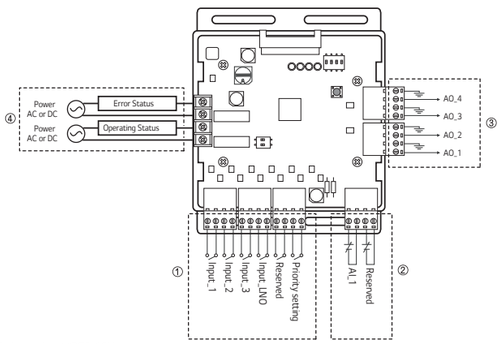
Wiring

1) Dry Contact Input Part
- Input_1,2,3 : Demand control by contact input(3 Step)
- Input_LNO : Low Noise Operation
- Priority Setting
  Using priority setting contact signal the priority of command. (Capacity control for external command from DDC vs. peak control by LG Central controller.)
  - Close : Central controller has priority to external signal
  - Open : External signal has priority to central controller(default setting)

2) Analog Input Part (AI : DC 0 ~ 10V)
- AI_1 : Demand ontrol by analog input (10 Step)

3) Analog Output Part(AO : DC 0 – 10V, Max 20 mA)
- Low ambient operation(AO_1~3)
- IO Module communication error display

4) Digital Output (DO : 250VAC, Max 1A)
- Output error status
- Output operation status

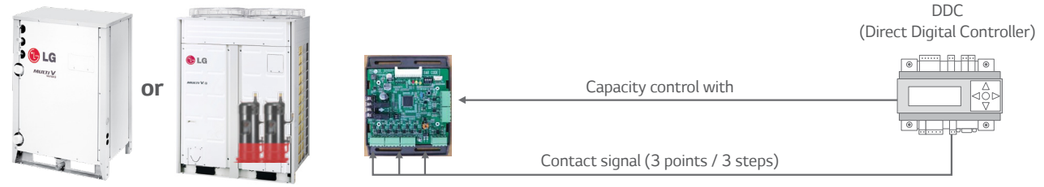


AI : Analog Input (DC0~10V)
AO : Analog Output (DC0~10V, Max 20mA)
Input_LNO : Low Noise Operation

Combination

Demand Control

Provides variable setting for demand control according to input method to reduce power consumption.
This function supports 2 types of input signal : AI(0~10V, 10Step) and contact signal(3 Step).

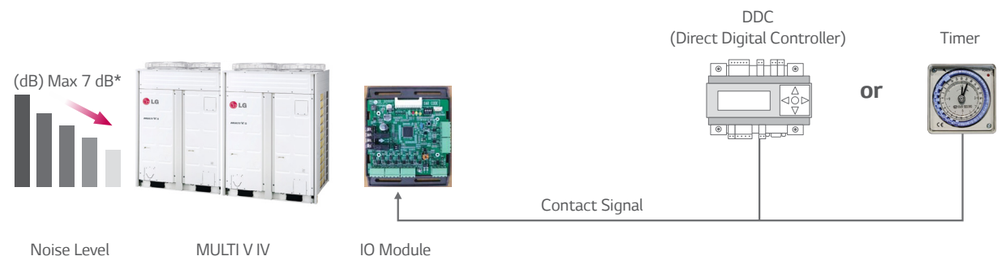


MULTI V WATER IV | MULTI V IV | IO Module

Range of Operation Rate
AI 0 ~ 10 V : 0%, 40% ~ 100%
Contact signal(3 steps) : 0%, 40% ~ 80%

Low Noise Operation

To reduce noise level , control outdoor unit's fan speed by dry contact input

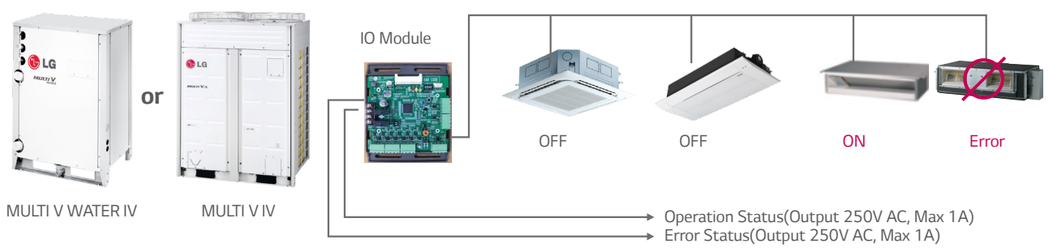


Noise Level | MULTI V IV | IO Module

* 8 HP model, Sound power level can be changed by outdoor unit operation status and low noise operation input signal.

Output Operation and Error Status

This function displays outdoor or indoor unit's operation and error status.
Depends on dip switch setting, either outdoor or indoor unit operation status is reflected through output signal.
Additionally, either outside or indoor unit has an error, IO Module display error signal by another replay.



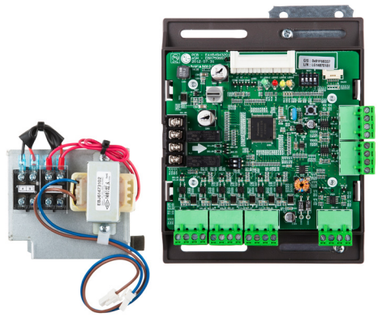
MULTI V WATER IV | MULTI V IV

LOW AMBIENT KIT

External integration module for cooling operation with -25°C low ambient temperature.

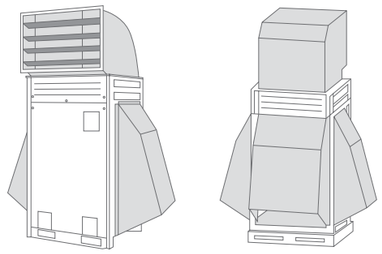
New

PRVC2



Features

- Function
  - 25C Low ambient cooling operation by Low ambient kit and hood with damper (Analog output 0~10V)
  - Demand control
  - Low noise operation
  - Output outdoor or indoor unit operation status (250VAC, Max 1A)
  - Output error status (250VAC, Max 1A)
- Description
  - Low ambient kit supports -25C cooling operation by making stable condensing pressure with reducing air flow rate from hood and damper control given 0~10V proportional to condensing pressure.
  - Low ambient kit Provides IO Module function.
  - External snow hood and air damper are required for this item.*
  - Transformer and terminal block are included.



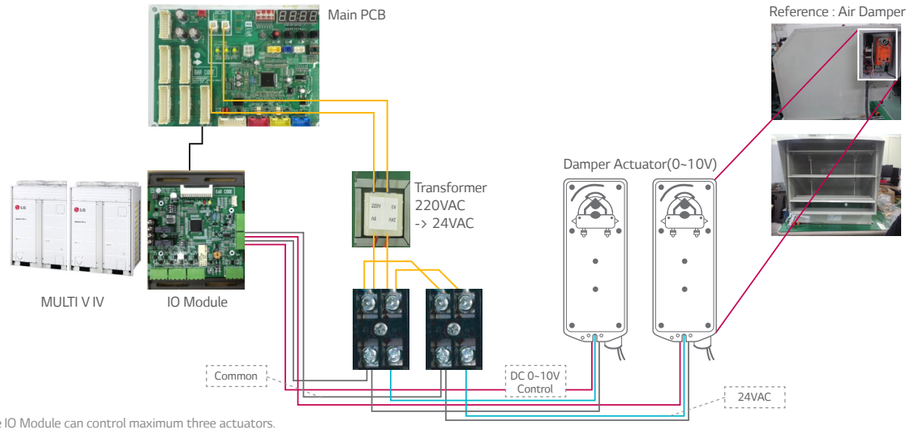
: Field Supply item

* Before apply this accessory, please contact regional sales office.

Models applied

- MULTI V IV

Combination

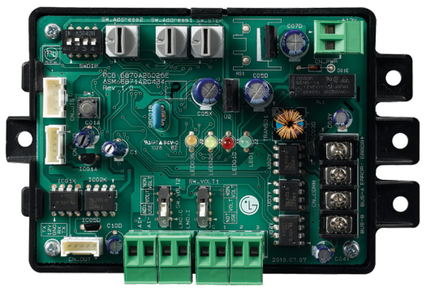


NOTE : The IO Module can control maximum three actuators.
Please, review damper actuator's installation manual.

OUTDOOR UNIT DRY CONTACT

Dry contact for demand control

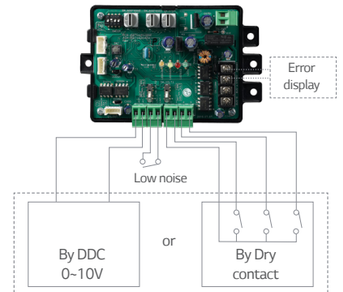
PQDSBCDVM0



Features

- Function
  - Demand control (3 contact signal)
  - Demand control (Co-work with DDC)
  - Outdoor unit fan low speed control (Night low noise operation)
  - All Off
  - Error Output (Display)
- Description

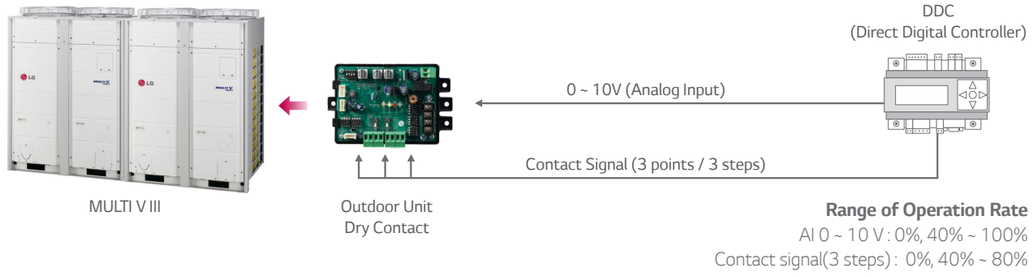
  The product is especially designed for demand control.



Models applied

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

Combination



Range of Operation Rate

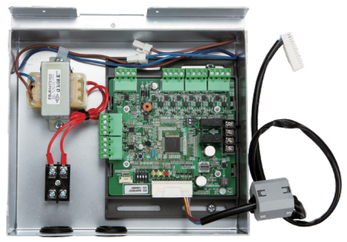
AI 0 ~ 10 V : 0%, 40% ~ 100%

Contact signal(3 steps) : 0%, 40% ~ 80%

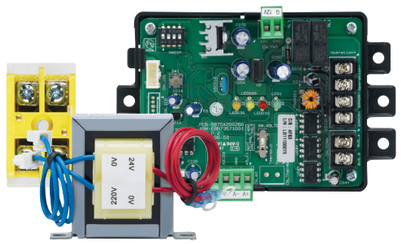
VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow

PWFCKN000 (MULTI V WATER IV)



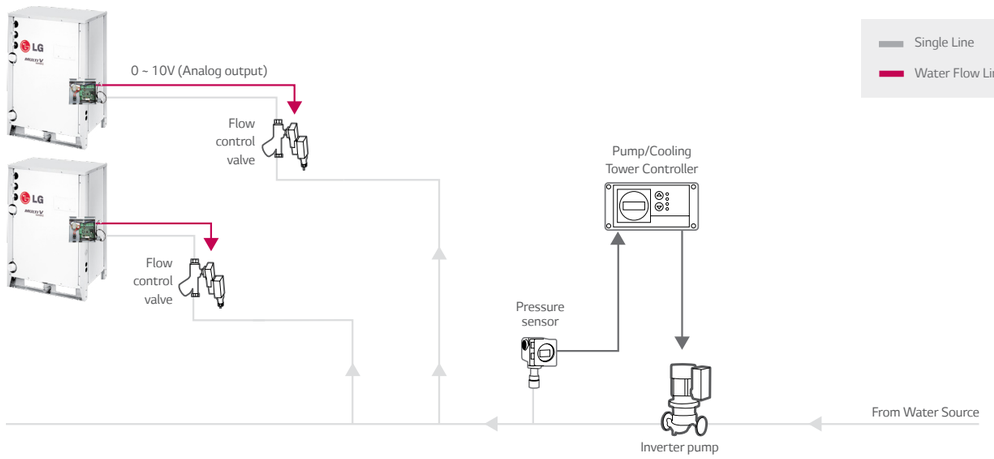
PRVCO (MULTI V WATER II)



Features

- Function
  - Water pump or valve control (0~10V)
  - Minimum output voltage setting available
  - Operation, error output (250VAC, Max 1A)
  - Dry contact input and analog output for demand control
  - Digital output for Operation, error status (250VAC, Max 1A)
- Advantage
  - Water flow consumption reduction
  - Pump electricity consumption reduction
  - Including IO Module (Dry contact input, Analog input/output, Digital output)
    : Using Dry contact and variable water flow control function simultaneously

Wiring Diagram



- 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.

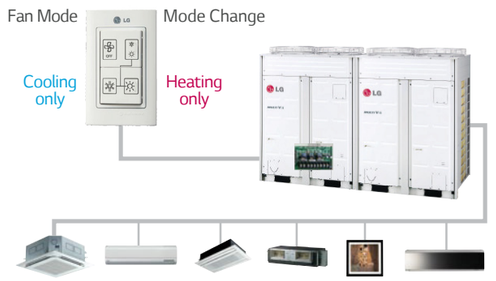
COOL / HEAT SELECTOR

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

PRDSBM

Features

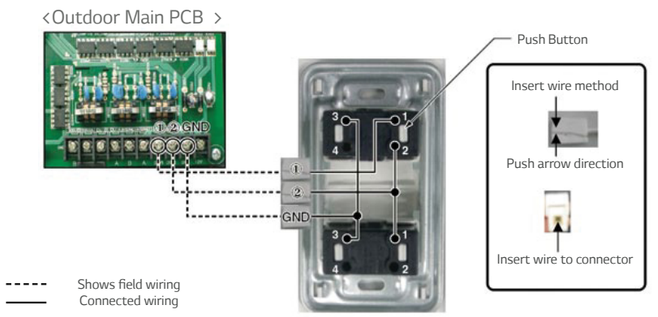
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



Models Applied

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

Wiring Diagram



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

* Communication line length can be maximum 300m, use Communication line as thick as 1.25mm

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

Communication Kit

PUCKA0
New PRCKA1
New PUDCA0
PRDCA0

Control Kit

PRCKD21E
PRCKD41E

EEV Kit

PRLK048A0
PRLK096A0

Expansion Kit

PATX13A0E PATX25A0E
PATX20A0E PATX35A0E
PATX50A0E

Specifications

Type	Model Name	Combination				Description	Dimensions(mm)		
		Outdoor unit	EEV Kit	Expansion Kit	Central controller		W	H	D
Communication Kit	PUCKA0	SINGLE SPLIT	-	-	●	Return/room air control by remote controller or dry contact	280	135	280
	PRCKA1	MULTI V	●	●	●	Return/room air by remote controller or dry contact control	280	135	280
	PUDCA0	SINGLE SPLIT	-	-	-	Return/room air or supply air(capacity) control by DDC	330	180	430
	PRDCA0	MULTI V	●	●	-	Return/room air or supply air(capacity) control by DDC This unit is connected with outdoor unit 1:1	330	180	430
Control Kit	PRCKD21E	MULTI V	-	●	●	Max capacity 1~4 master outdoor unit	600	750	285
	PRCKD41E	MULTI V	-	●	●	Max capacity 5~8 master outdoor unit	600	750	285

Function list for Communication Kit

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

Note : PUCKA0, PRCKA1 is controlled by remote controller(default) and Dry Contact
PUDCA0, PRDCA0 is controlled by external input(default) and wired remote controller
* Optional accessory, recommended model : PQRCVSL0, PQRCVSL0QW
** Binary input and output (Open and short), DO is normal open
*** Recommended model : PDRYCB000, PQDSA

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

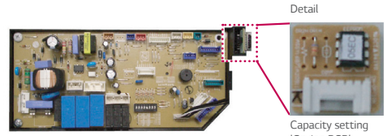
Specifications

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

Capacity Selection

For SINGLE SPILIT

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



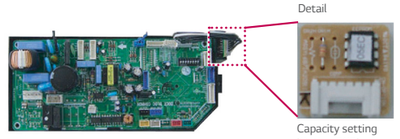
(Main PCB)

Option PCB	Outdoor Unit Capacity		Recommended Heat Exchanger Volume ($10^{-3} \times m^3$)	Maximum Heat Exchanger Capacity (kW)	Air Flow Rate (CMM)	Applicable Outdoor Units		
	kBTU	kW				PUCKA0		PUDCA0
						H-Inverter	Standard Inverter	Standard Inverter
EBR65102902	18	5.0	2.4	5.0	13 ~ 16.5	-	●	-
EBR65102903	24	7.1	2.6	7.1	14 ~ 18	●	●	-
EBR65102904	30	8.0	2.9	8.0	20 ~ 26.5	●	●	-
EBR65102905	36	10.0	3.1	10.0	26.5 ~ 32	●	●	-
EBR65102906	42	12.5	3.4	12.5	28 ~ 36	●	●	-
EBR65102907	48	14.0	4.0	14.0	30 ~ 40	●	●	-
EBR65102908	60	15.0	4.7	15.0	40 ~ 50	-	●	-
EBR77627409	70	19.0	5.2	20.0	60 ~ 70	-	●	●
EBR77627406	85	23.0	5.9	23.0	64 ~ 80	-	●	●

* Evaporator Saturated Temperature = 6℃, Air Temperature = 27℃ DBT / 19℃ WBT
* Combination allowed only for air-to-air system.

For MULTI V

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



(Main PCB)

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

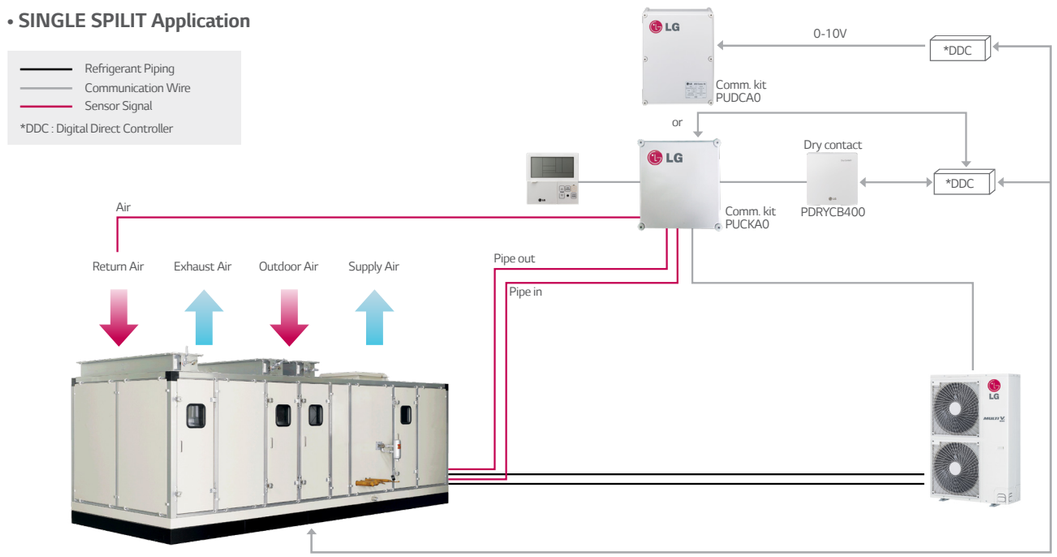
* Evaporator Saturated Temperature = 6℃, Air Temperature = 27℃ DBT / 19℃ WBT
* Heat exchanger volume (m^3) : Pipe cross-section x Tube length
  - Pipe cross-section (m^2) = $\pi \times ID^2 / 4$
  - Tube length (m) = Tube length of 1 pipe x Tube step x Tube row

AHU KITS (AIR HANDLING UNIT KITS)

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

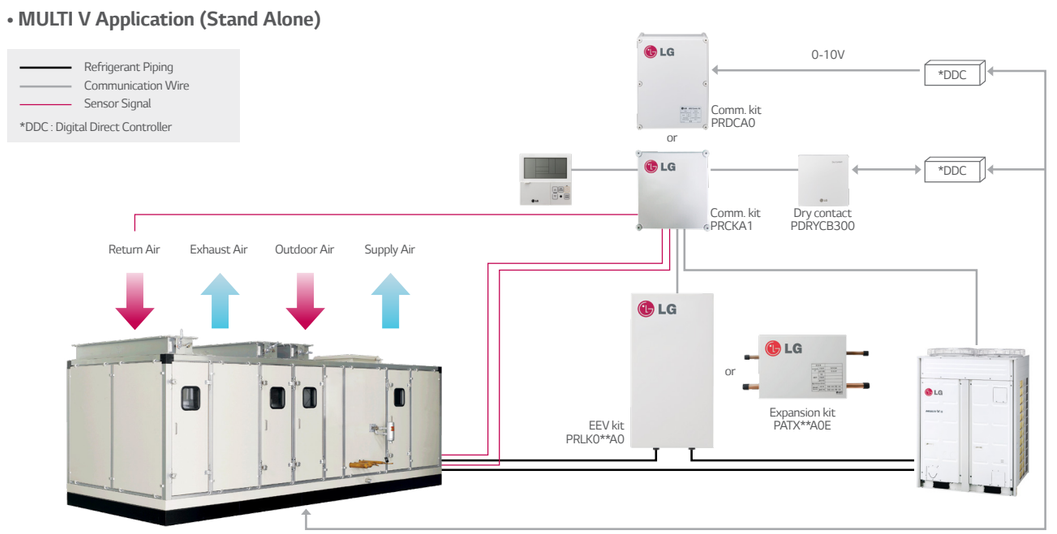
Combination

• SINGLE SPILIT Application

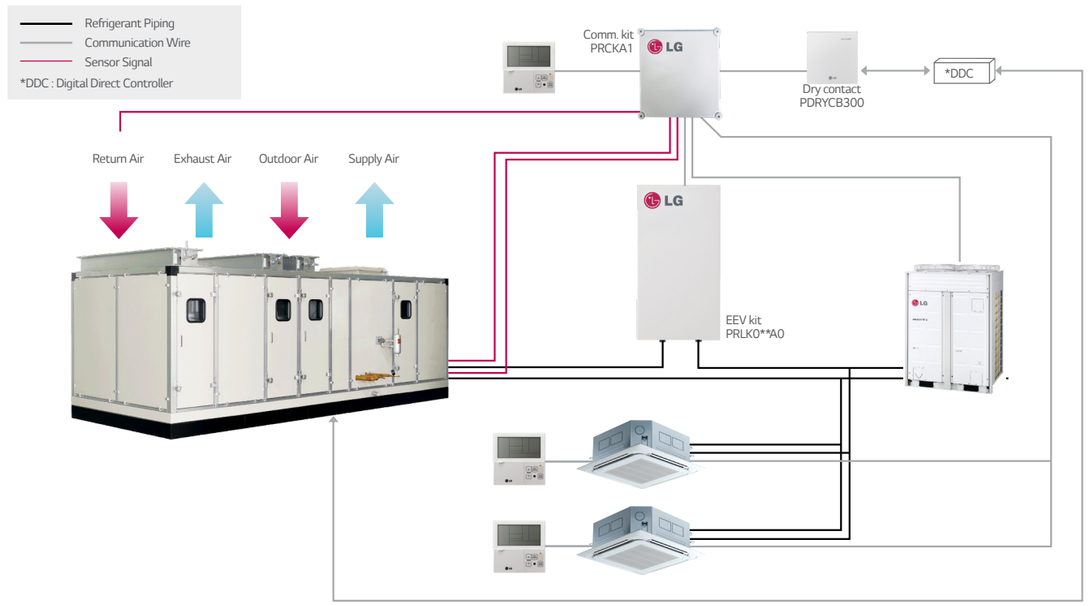


* AHU : Air Handling Unit

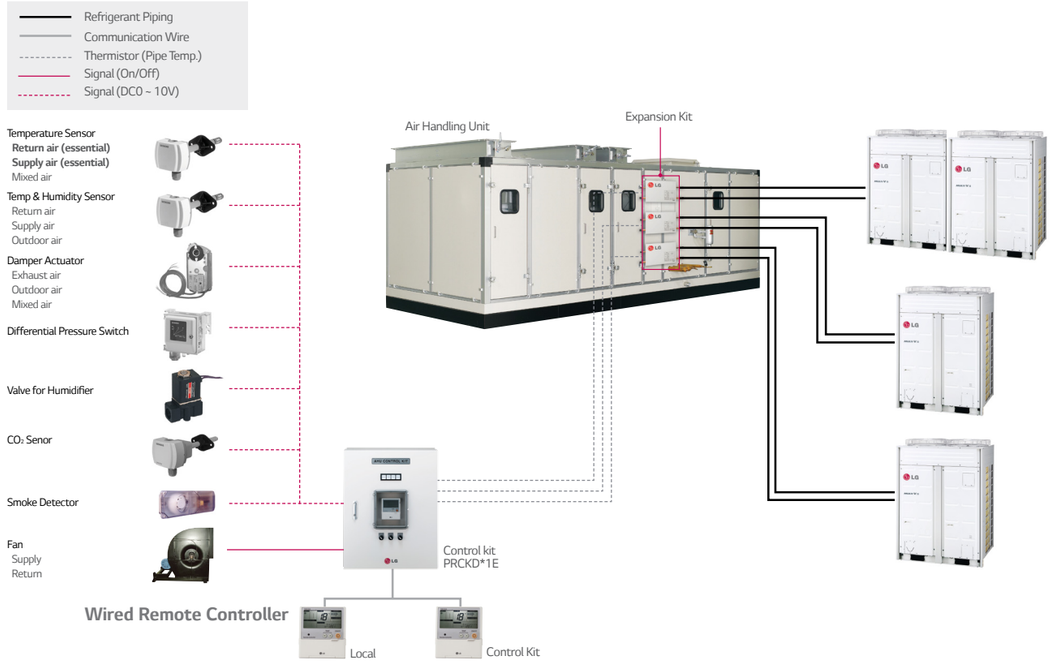
• MULTI V Application (Stand Alone)



• MULTI V Application (in Combination with AC System)



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

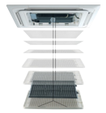


MECHANICAL ACCESSORIES Line-Up

INDOOR

Ceiling Mounted Cassette

Auto Elevation Grille



PTEGM0

Cassette Cover

PTDCM
PTDCQ

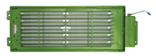
Cassette Panel

4 Way Cassette
PT-UQC / PT-UMC1

2 Way Cassette
PT-HLC

1 Way Cassette
(Grill Type)
PT-UUC
PT-UUC1
PT-UTC
(Panel Type)
PT-UUD
PT-UTD

Plasma Kit



PTPKM0
PTPKQ0

Ventilation Kit

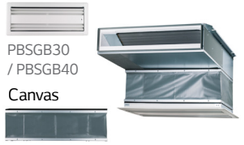
PTVK410

PTVK420

PTVK430

Ceiling Concealed Duct

Suction Grille



PBSGB30
/ PBSGB40

Canvas

PBSC30 / PBSC40

Drain Pump Kit

ABDPG

New PBDP9

Wall Mounted Unit

ARTCOOL Panel

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

ETC.

Refrigerant Leakage Detector

New PRLDNVS0

Independent Power Module

PRIP0

OUTDOOR

MULTI V

Air Guide

PRAGX3S0
PRAGX2S0

Drain Pan

PRODX20
PRODX30

THERMA V

Solar Heating Kit

PHLLA

Sanitary Tank Kit

PHLTA / PHLTC / PHLTB

Domestic Hot Water Tank

LGRTV200E
(198 LITERS)
LGRTV300E
(198 LITERS)

LGRTV200VE
(198 LITERS)
LGRTV300VE
(198 LITERS)

Mechanical Accessories Line up and Application

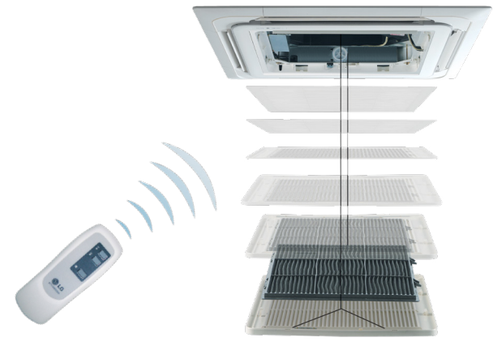
Type 1	Type 2	SINGLE SPLIT	MULTI SPLIT	MULTI V	THERMA V	Remark
INDOOR	Auto Elevation Grille	O	O*	O	-	4 Way Cassette
	Cassette Panel	O	O	O	-	1 Way Cassette
	Cassette Cover	O	O	O	-	4 Way Cassette
	Plasma Kit	O	O	O	-	4 Way Cassette
	Ventilation Kit	O	O	O	-	4 Way Cassette
	Suction Grille / Canvas	-	-	O	-	Ceiling concealed duct (Built-in)
	Drain Pump Kit	O	O	-	-	Ceiling concealed duct
	ARTCOOL Panel	-	-	O	-	ARTCOOL indoor unit
	Refrigerant Leakage Detector	-	-	O	-	MULTI V 4 series indoors (2015 New model)
	Independent Power Module	-	-	O	-	MULTI V indoor
OUTDOOR	Air Guide	-	-	O	-	MULTI V outdoor
	Drain Pan	-	-	O	-	MULTI V outdoor
	Solar Heating Kit	-	-	-	O	THERMA V
	Sanitary Tank Kit	-	-	-	O	THERMA V
	Domestic Hot Water Tank	-	-	-	O	THERMA V

* Only for chassis TM, TN, TP

AUTO ELEVATION GRILLE

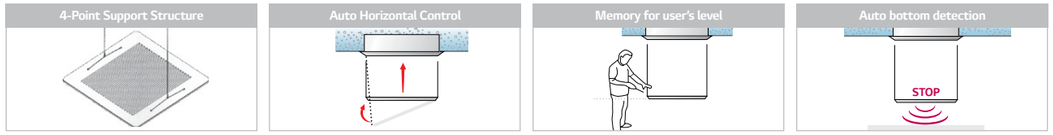
Easy filter cleaning with the elevation grille

PTEGM0



Features

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



Operating with wired remote controller* and wireless remote controller included in PTEGM0.
* PQRCVSL0QW, PQRCVSL0, PREMTB001, PREMTBB01

Models Applied

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

Parts Included

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

Application

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

CASSETTE PANEL

Stylish designed panels make more unique space by various applications

4 Way Cassette
PT-UQC / PT-UMC1

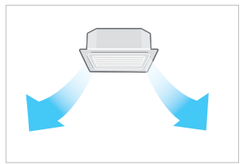
2 Way Cassette
PT-HLC

1 Way Cassette
(Grill Type)
PT-UUC / PT-UUC1 / PT-UTC
(Panel Type)
PT-UUD / PT-UTD

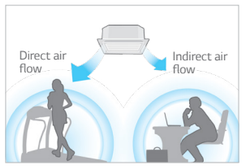
Features

- Independent vane operation uses separate motors, making it Possible to control all four vanes independently..
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

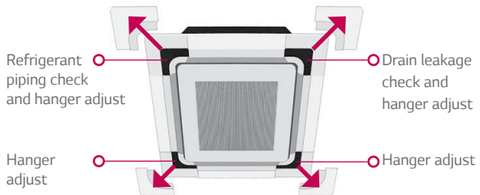
All Vane Operation



Independent Vane Control



Detachable Corner Design



Specifications

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

CASSETTE COVER / PLASMA KIT

Air purifying filter to prevent dust and allergens

PTDCM
PTDCQ

Features

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

Models Applied

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

Parts Included

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

Accessory Model Name

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

PTPKM0
PTPKQ0

Features

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

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

Models Applied

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

Parts Included

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

VENTILATION KIT

Fresh air can be supplied from outside through this ventilation kit

PTVK410
PTVK420
PTVK430

PTVK410

PTVK420

PTVK430

Features

• The ventilation kit can be supplied air from outside.

Models Applied

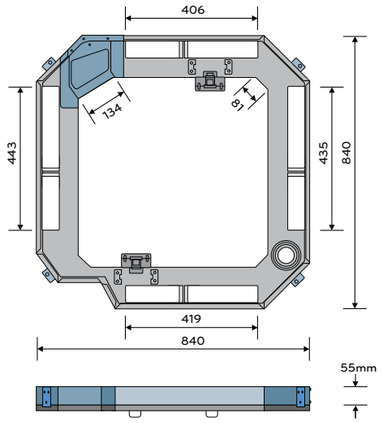
• There are 2 solutions for fresh air
- PTVK410+PTVK420 (for chassis TP, TN, TM)
- PTVK430 (for chassis TR, TQ, TP, TN, TM)

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

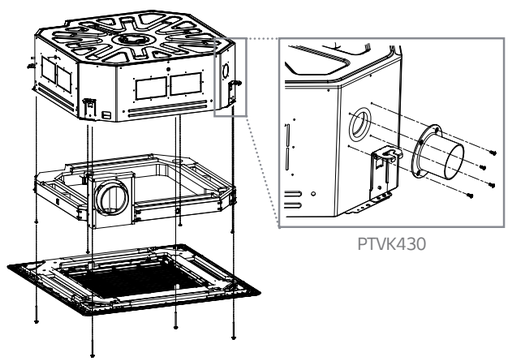
Parts Included

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

Dimensions



Assembly Diagram



PTVK410+PTVK420

PTVK430

SUCTION GRILLE / CANVAS

High flexibility for a wide variety of applications

PBSGB30
PBSGB40
PBSC30
PBSC40

(SUCTION GRILLE)

PBSGB30 / PBSGB40

(CANVAS)

PBSC30 / PBSC40

Features

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

Models Applied

• Ceiling Concealed Duct _ Built-in type

Accessory Model Name

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

SUCTION GRILLE / CANVAS

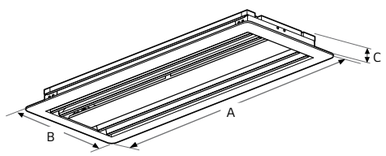
High flexibility for a wide variety of applications

Parts Included

• For the suction grille :
- Suction panel with air filter (1EA)
- Suction panel fix bolt M5x18 (4EA)
- Installation manual (1EA)

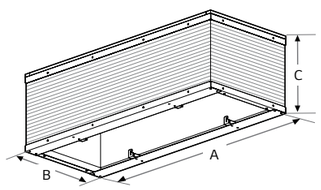
• For the suction canvas :
- Air suction canvas (1EA)
- Screws for air suction canvas (4EA)
- Adjusting chain (4EA)
- Screws for adjusting chain (8EA)
- Installation manual (1EA)

Dimensions



(Unit : mm)

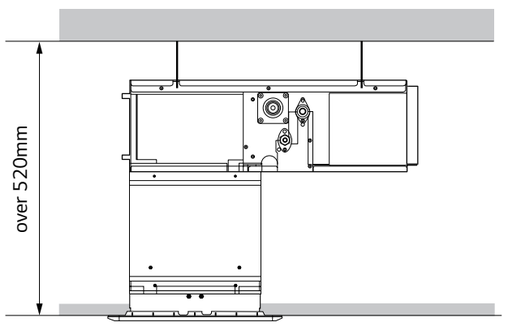
Model Name	A	B	C
PBSGB30	910	359	56
PBSGB40	1188	359	56

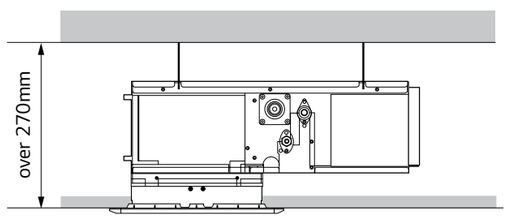


(Unit : mm)

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

Application



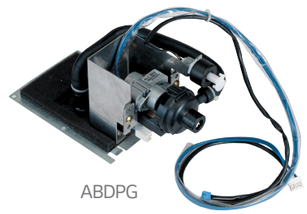


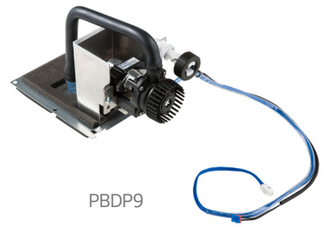
DRAIN PUMP KIT

Drains away condensed water

ABDPG

New
PBDP9


ABDPG


PBDP9

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 to PDB for applicable models)

Accessory Model Name

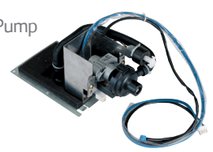
• Ceiling Concealed Duct (refer to PDB for applicable models)

Product	Model		Drain Pump
SINGLE / MULTI SPLIT	H-Inverter		Included
	Standard Inverter	CB**L	Included
		CM** / UM**	ABDPG
		UB70 / UB85	PBDP9
	Econo Inverter		ABDPG
MULTI V			Included

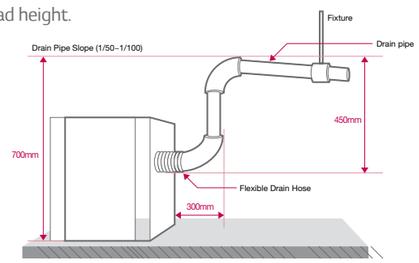
Application

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

High Head Drain Pump



* Included in H-Inverter
* Supplied as accessory for Standard Inverter (ABDPG/ PBDP9)



Parts Included

• ABDPG / PBDP9
- Drain pump assembly (1EA) (AC 220~240V,50/60Hz,400CMM)
- Screw (4EA)
- Cap (1EA)
- Installation manual (1EA)

ARTCOOL PANEL

A unique blend of art and colours

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

Models Applied

ARTCOOL Mirror


Silver


Mirror

ARTCOOL SF Chassis


Silver


Red


Gold


White Silver

*** Panel colour**

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

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

REFRIGERANT LEAKAGE DETECTOR

R410A refrigerant leakage detector makes more safe our space

New
PRLDNVS0

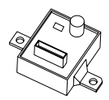
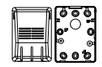
Features

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

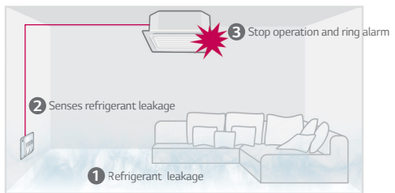
Models Applied

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

Specifications

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

Application



INDEPENDENT POWER MODULE

EEV full close function in case of power cut

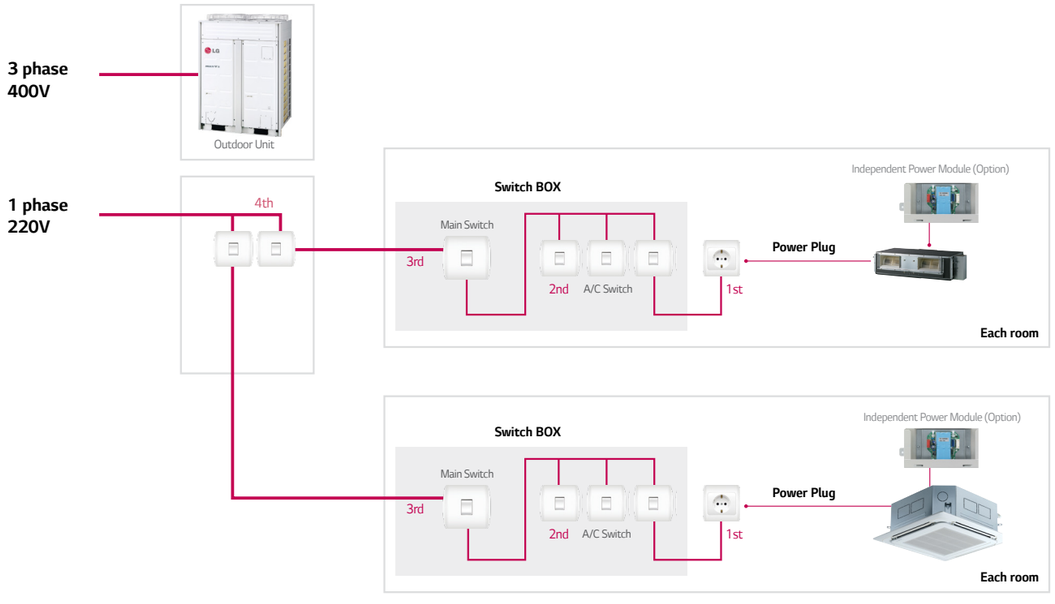
PRIP0

Features

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

Models Applied

• MULTI V Indoors



AIR GUIDE

Air discharge in difficult to access areas

PRAGX*S0

PRAGX3S0 PRAGX2S0

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

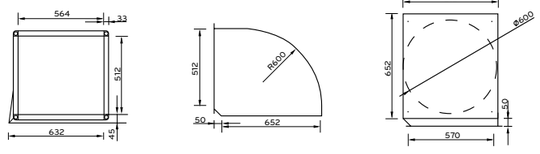
• MULTI V IV (UX2, UX3)

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

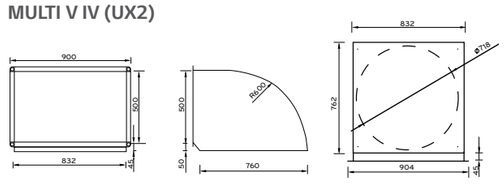
Dimensions

Model name	Gross Weight	Net Weight
PRAGX2S0	22.5kg	12.3kg
PRAGX3S0	17kg	9.4kg

MULTI V IV (UX3)



MULTI V IV (UX2)



Application

MULTI V IV (UX2)

• ARU*080LTE4
• ARU*100LTE4
• ARU*120LTE4

* N : Heat pump / B : Heat recovery

MULTI V IV (UX3)

• ARU*140LTE4
• ARU*160LTE4
• ARU*180LTE4
• ARU*200LTE4

* N : Heat pump / B : Heat recovery

DRAIN PAN

Easy drain installation

PRODX20

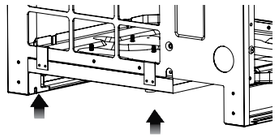
PRODX30

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.

* In case of the installation of drain pan, drain pipe should be located below the SVC valve.

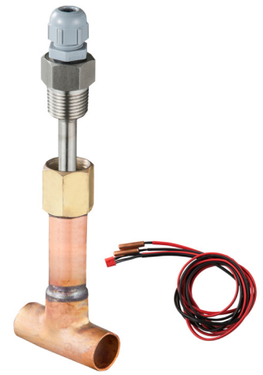
• This unit does not cover water drops of the outside product.
• Connect drain hose to drain pipe for drain condensate.

Accessory Model Name

Model Name	Length	Remark
PRODX20	920mm	UX2
PRODX30	1240mm	UX3

SOLAR HEATING KIT

PHLLA

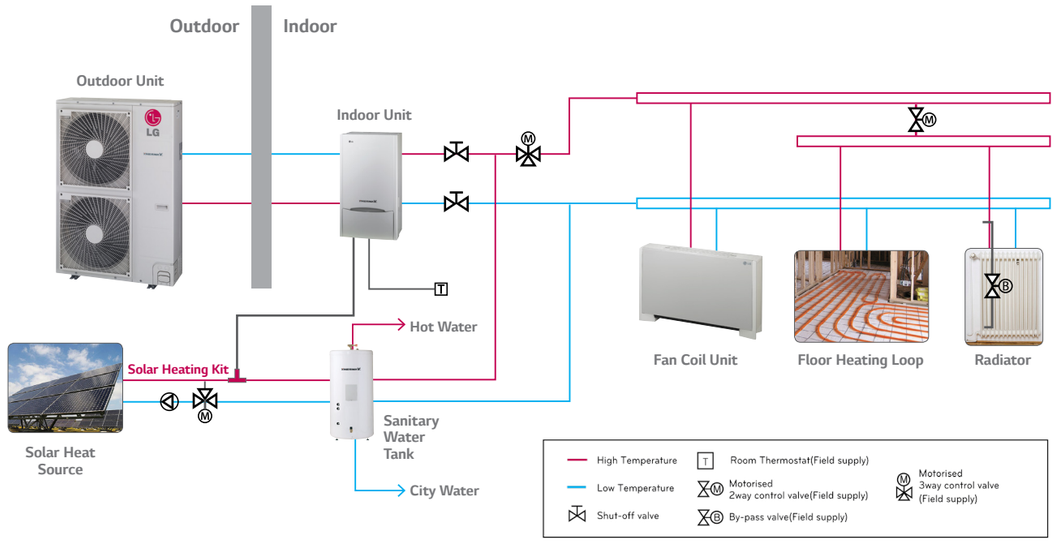


Features

• Interface for solar-thermal system with split-type THERMA V and double coil sanitary tank
• Installed at the water pipe, between sanitary tank and solar-thermal system
• Dimensions (HxWxD, mm) : 110x55x22
• According to solar system's water temperature, THERMA V controls 3 way valve's direction

Combination

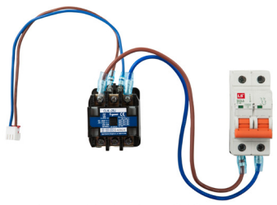
• Components : THERMA V system, PHLTA, PHLTC, and field-supplied items.



SANITARY TANK KIT

PHLTA (1ø, Spilt)
PHLTC (3ø, Spilt)
PHLTB (Monobloc)

PHRSTA0(12m)



PHLTA (1ø) / PHLTC (3ø)

PHLTB

* The sensor (PHRSTA0) can be purchased separately in case of using other brand's sanitary tank.
PHRSTA0 is included in PHLTA, PHLTC, PHLTB.

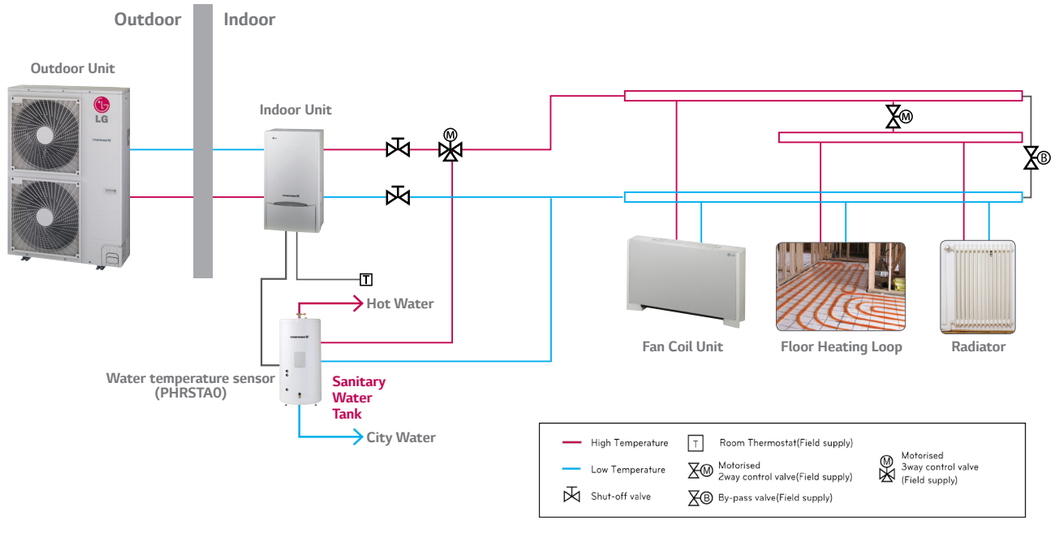
Features

[Spilt]
• PHLTA (1ø) / PHLTC (3ø)
To control sanitary tank temperature and sanitary tank electric heater for split models.
This unit will be installed inside indoor unit.

[Monobloc]
• PHLTB
• Easy to install sanitary water tank for monobloc.
There is a MCCB (Mold Case Current Breaker) to protect the product.
• Dimensions (HxWxD, mm) : 250x170x110
• Weight (kg) : 2.1
This unit will be installed outdoor.

Combination

• Components : THERMA V system, PHLTA, PHLTC, and field-supplied items.



DOMESTIC HOT WATER TANK

Single Coil
LGRTV200E
LGRTV300E

Double Coil
LGRTV200VE
LGRTV300VE

LGRTV200E (198 LITERS)
LGRTV300E (198 LITERS)

LGRTV200VE (198 LITERS)
LGRTV300VE (198 LITERS)

Features

• Store and provide hot water for sanitation

Combination

• Domestic Hot Water Tank - Single Coil / THERAMA V (All models applied)

Domestic Hot Water Tank			LGRTV200E	LGRTV300E
General Characteristics	Water Volume	L	198	287
	Diameter	mm	580	580
	Height	mm	1,230	1,680
	Empty Weight	kg	45	59
	Tank - Materials		Stainless steel	Stainless steel
	Outer Skin - Materials		Paint Epoxy	Paint Epoxy
	Color - White RAL		White NC	White NC
Characteristics of Electrical Back-up	Additional Electric Heater	kW	3	3
	Adjustable Thermostat	℃	60 - 90	60 - 90
Characteristics of Exchanger	Exchanger Type		Single	Single
	Material Exchanger		LDX 2101 - Stainless Steel	LDX 2101 - Stainless Steel
	Maximum Water Temperature	℃	80	80
Hydraulic Connections - Heat Pump	THERMA V Entry	mm	25	25
	THERMA V Exit	mm	25	25
Hydraulic Connections - Domestic Hot Water Tank	City Water Entry	mm	22	22
	Hot Water Exit	mm	22	22
Electric Connection	Suppy	ø/V/Hz	1/220-240/50	1/220-240/50

MANDATORY OPTIONAL ACCESSORIES

Domestic Hot Water Tank Installation Kit	PHLTA	PHLTA

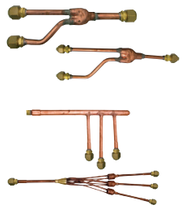
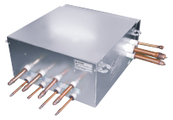
• Domestic Hot Water Tank - Double Coil / THERAMA V (All models applied) with Solar Heating System

Domestic Hot Water Tank			LGRTV200VE	LGRTV200VE
General Characteristics	Water Volume	L	198	287
	Diameter	mm	580	580
	Height	mm	1,230	1,680
	Empty Weight	kg	50	64
	Tank - Materials		Stainless steel	Stainless steel
	Outer Skin - Materials		Paint Epoxy	Paint Epoxy
	Color - White RAL		White NC	White NC
Characteristics of Electrical Back-up	Additional Electric Heater	kW	3	3
	Adjustable Thermostat	℃	60 - 90	60 - 90
Characteristics of Exchanger	Exchanger Type		Double	Double
	Material Exchanger		LDX 2101 - Stainless Steel	LDX 2101 - Stainless Steel
	Maximum Water Temperature	℃	80 (With an Heat Pump)	80 (With an Heat Pump)
Hydraulic Connections - Heat Pump	THERMA V Entry	mm	25	25
	THERMA V Exit	mm	25	25
Hydraulic Connections - Domestic Hot Water Tank	City Water Entry	mm	22	22
	Hot Water Exit	mm	22	22
Electric Connection	Suppy	ø/V/Hz	1/220-240/50	1/220-240/50

MANDATORY OPTIONAL ACCESSORIES

Domestic Hot Water Tank Installation Kit	PHLTA	PHLTA

PIPING ACCESSORIES
Line-Up

SINGLE SPLIT	MULTI SPLIT	MULTI V	ETC
Y Branch and Header Branch (Synchro)  2 Units PMUB11A 3 Units PMUB111A 4 Units PMUB1111A	Branch Distributor  PMBD3620 PMBD3630 PMBD3640 Y Branch and Branch Kit  2 Units PMBL3620 PMBL5620 2 Units PMBL1203F0	***New*** Heat Recovery Unit  PRHR022 PRHR032 PRHR042 Y Branch and Header Branch 	Refrigerant Charging Kit  PRAC1 Stopper Valve  PRVT120 PRVT780 PRVT980 Drain Hose  PHDHA05T PHDHA07T PHDHA05B PHDHA07B

Mechanical Accessories Line up and Application

Model Name	SINGLE SPILIT	MULTI SPLIT	MULTI V	Remark
Y Branch and Header Branch (Synchro)	O	-	-	
Branch Distributor (MULTI)	-	O	-	MULTI F DX systems
Y Branch and Branch Kit (MULTI)	-	O	-	MULTI F DX systems
Heat Recovery Unit (MULTI V)	-	-	O	MULTI V IV Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER II Heat Recovery, MULTI V SYNC II, MULTI V SYNC
Y Branch and Header Branch (MULTI V)	-	-	O	Various type of MULTI V Series

Y BRANCH AND HEADER BRANCH (SYNCHRO)

Refrigerant distribution channel

2 Units
PMUB11A

3 Units
PMUB111A

4 Units
PMUB1111A

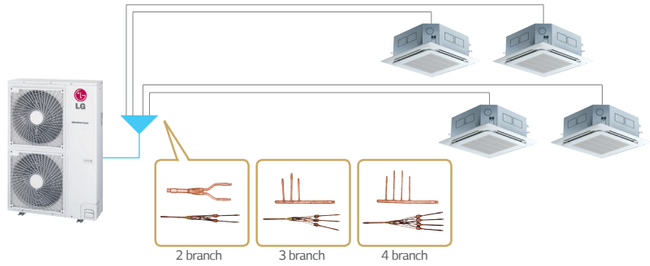
Features

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

Models Applied

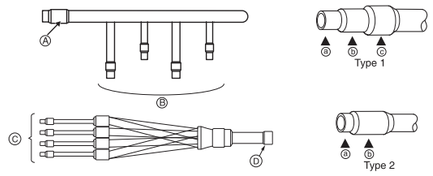
- H-inverter : 10.0 / 12.5 / 13.4kw
- Standard inverter : 12.5 / 14.0 / 15.0 / 20.0 / 25.0kw

Application



Accessory Model Name

Indoor Classification	Model Name	Capacity Ratio(%)
2 Units	PMUB11A	50:50 (1:1)
3 Units	PMUB111A	33:33:33 (1:1:1)
4 Units	PMUB1111A	25:25:25:25(1:1:1:1)



	ⓐ	ⓑ	ⓒ	Type
Ⓐ	Ø15.88(5/8)	Ø19.05(3/4)	Ø25.4(1)	1
Ⓑ	Ø9.52(3/8) Ø12.7(1/2)	Ø12.7(1/2) Ø15.88(5/8)	-	2
Ⓒ	Ø6.35(1/4)	Ø9.52(3/8)	-	2
Ⓓ	Ø9.52(3/8)	Ø12.7(1/2)	-	2

BRANCH DISTRIBUTOR
(DISTRIBUTOR BOX)

Effective way of distributing refrigerant

PMBD3620
PMBD3630
PMBD3640

PMBD3620 PMBD3630 PMBD3640

Features

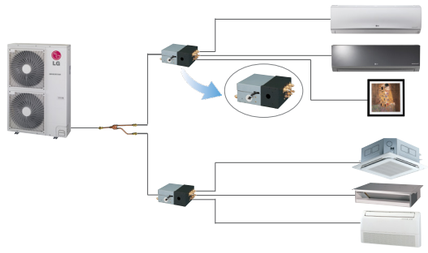
- Distribution of refrigerant to various indoor units
- 3 models (2, 3, 4 indoor units)
- Consists of LEVs inside it
- Controlling PCB inside the unit
- Internally insulated (prevents any chances of drainage)
- Flare joints for easy and clean installation
- Compact design (low height)
- Flexible installation

Models Applied

- MULTI F DX systems (refer to PDB for applicable models)

Parts Included

- BD (Banch Distributor) unit (1EA)
- Brackets (4EA)
- Screws (8EA)
- Installation Manual (1EA)



Specifications

Model Name			PMBD3620	PMBD3630	PMBD3640
Connectable Indoor Units	Number of Indoor Units		1~2	1~3	1~4
Capacity	(Btu/hr)		5k/7k/9k/12k/18k/24k	5k/7k/9k/12k/18k/24k	5k/7k/9k/12k/18k/24k
Casing Colour			Paintingless	Paintingless	Paintingless
Power Source	ø/V/Hz		1/220-240/50	1/200-240/50	1/200-240/50
Power Consumption	(W)		10	10	10
Running Current	(A)		0.05	0.05	0.05
Dimensions	(W x H x D)	(mm)	302x143x252	302x143x252	302x143x252
Packing Dimensions	(W x H x D)	(mm)	422x202x300	422x202x300	422x202x300
Net Weight			4.8	4.9	5.0
Connecting Cable	Indoor Unit No. x mm²		4x0.75	4x0.75	4x0.75
	Outdoor Unit No. x mm²		4x0.75	4x0.75	4x0.75
Piping Connection (Outdoor Unit)	liquid	(mm)	9.52	9.52	9.52
	Gas	(mm)	19.05	19.05	19.05
Piping Connection (Indoor Unit)	Liquid	(mm)	6.35x2	6.35x3	6.35x4
	Gas	(mm)	9.52x2	9.52x3	9.52x4
Parts	Hanger	(EA)	4	4	4
	Screw	(EA)	8	8	8
	Manual	(EA)	1	1	1

Y BRANCH AND BRANCH KIT MULTI F DX

Refrigerant distribution channel

2 Units
PMBL3620
PMBL5620

2 Units
PMBL1203F0

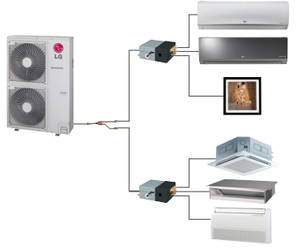
Features

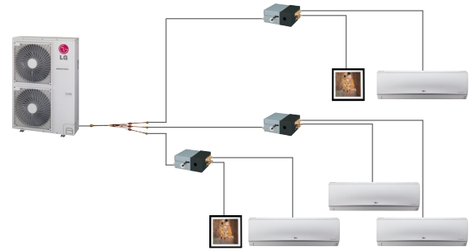
- Y Branch and Branch kit make Multi F DX installation easier
- Y Branch and Branch kit for both gas and liquid are provided
- Insulation material is also provided for covering the branches

Models Applied

- MULTI F DX systems (refer to PDB for applicable models)

Application



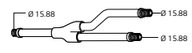
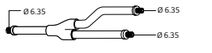
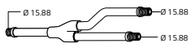
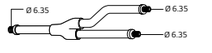
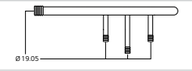
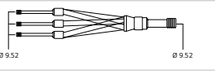


Parts Included

- Y Branch for gas side and liquid side (1 set)
- Installation manual (1EA)

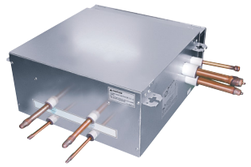
Accessory Model Name

(Unit : mm)

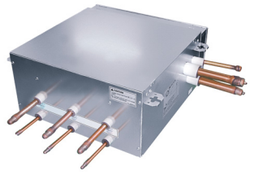
Model Name	No. of Branch Distribution Units	Applicable Model	Specifications	
			Gas	Liquid
PMBL3620	2 units	Only 3ø, 36k Btu/h		
PMBL5620	2 units	1ø, 3ø		
PMBL1203F0	3 units	1ø, 3ø		

HEAT RECOVERY UNIT

New
PRHR022
PRHR032
PRHR042



PRHR022
(2 branch Unit)



PRHR032
(3 branch Unit)

PRHR042
(4 branch Unit)

Features

- Max. 32 indoor units can be connected (Max 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection
- Subcooling cycle in HR unit makes the system efficiency maximum

Models Applied

- MULTI V IV Heat Recovery
- MULTI V III Heat Recovery
- MULTI V SYNC II
- MULTI V SYNC
- MULTI V WATER IV Heat Recovery
- MULTI V WATER II Heat Recovery

Specifications

Model Name				PRHR022	PRHR032	PRHR042
Number of Branch			EA	2	3	4
Maximum Connectable Capacity of Indoor Units (Per branch/unit)			kW	16/32	16/48	16/58
Maximum Number of Connectable Indoor units per Branch			EA	8	8	8
Nominal Input	Cooling		kW	0.026	0.040	0.040
	Heating		kW	0.026	0.040	0.040
Net. Weight			kg	18	20	22
Dimensions (WxHxD)			mm	801x218x617	801x218x617	801x218x617
Piping connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Gas	mm (inch)	15.88 (5/8)	422x202x300	422x202x300
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	15.88 (5/8)	15.88 (5/8)
		Low pressure	mm (inch)	22.2 (7/8)	28.58 (11/8)	28.58 (11/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)
Power Supply			ø /V/Hz	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50

Parts Included

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

Reducers for Indoor Unit and HR Unit

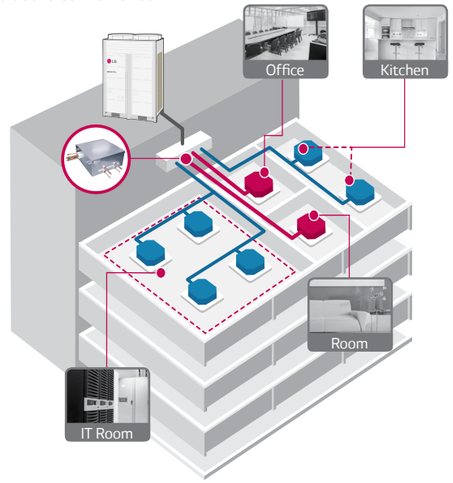
(Unit : mm)

Model Name		Liquid pipe	High pressure	Low pressure
Indoor unit reducer		OD9.52 Ø6.35		OD15.88 Ø12.7
HR unit reducer	PRHR022	OD9.52 Ø6.35	OD19.05 Ø15.88 Ø12.7 OD12.7 Ø9.52	OD22.2 Ø19.05 Ø15.88 OD15.88 Ø12.7
	PRHR032/ PRHR042	OD15.88 Ø12.7 Ø9.52	OD22.2 Ø19.05 Ø15.88 OD15.88 Ø12.7	OD28.58 Ø22.2 Ø19.05 OD19.05 Ø15.88

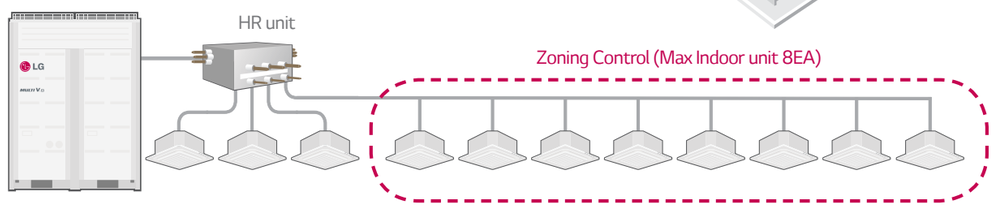
Convenient Free Zoning

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

- Individual Control
  - Perfect individual control over spaces ventilation needed
- Zone Control
  - Max. of 8 indoor units can be connected for one branch
  - Max. of 32 indoor units can be connected for one HR unit
  - Same opeational model can be operated by indoor units with zone control function installed
- Combination of Individual and Zoning Installations
  - Flexible piping design
- Save Product and Installation Cost



[Zoning Control]



Y BRANCH AND HEADER BRANCH (MULTI V™)

For refrigerant distribution of indoor units

Y Branch

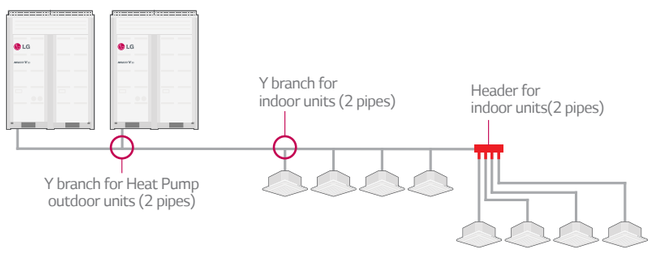
Header Branch

Features

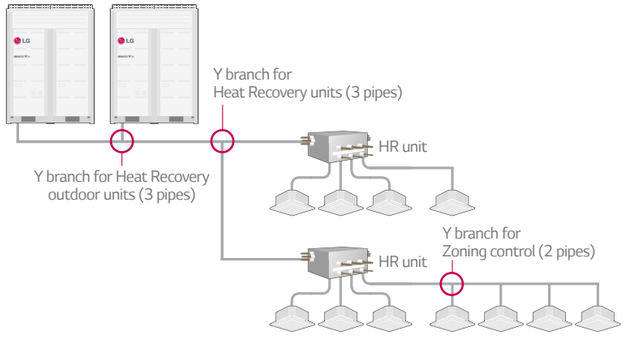
- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Piping Diagram

Heat Pump system



Heat Recovery system



Models Applied

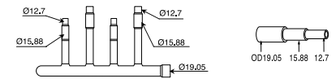
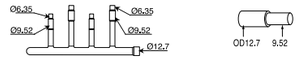
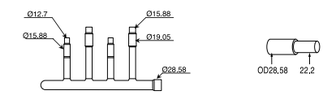
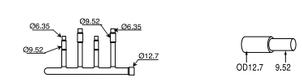
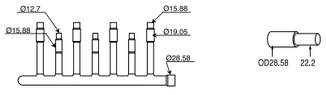
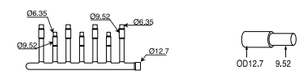
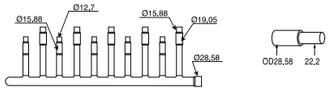
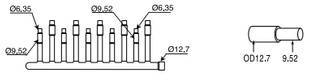
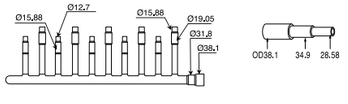
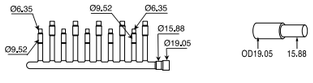
- MULTI IV
- MULTI V S
- MULTI V WATER IV
- MULTI V WATER S
- MULTI V III, MULTI V PLUS II, MULTI V PLUS
- MULTI V MINI
- MULTI V WATER II
- MULTI V SPACE II

Details of Model Name

Header Branch

• R410A

(Unit : mm)

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

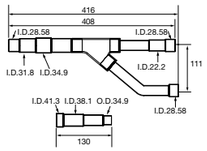
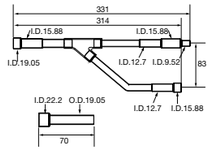
PIPING ACCESSORIES

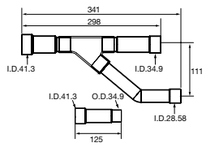
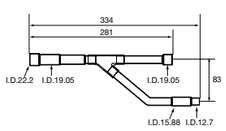
Y Branch pipe for connection of outdoor units

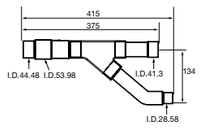
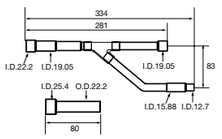
[Heat Pump]

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

(Unit : mm)

2 Outdoor Units		
Model Name	Low Pressure Gas pipe	Liquid pipe
ARCNN21		

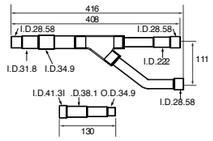
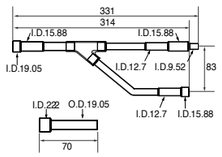
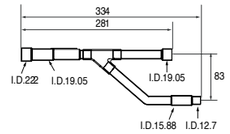
3 Outdoor Units		
Model Name	Low Pressure Gas pipe	Liquid pipe
ARCNN31		

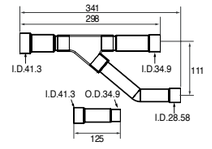
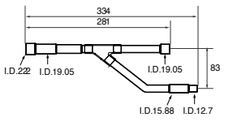
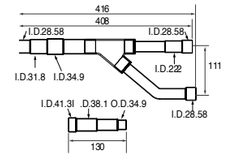
4 Outdoor Units		
Model Name	Low Pressure Gas pipe	Liquid pipe
ARCNN41		

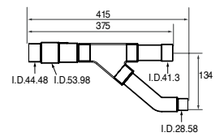
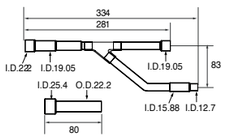
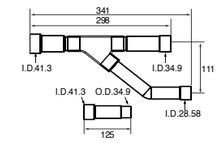
[Heat Recovery]

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

(Unit : mm)

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

2 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			

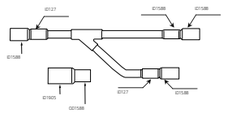
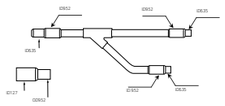
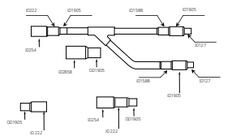
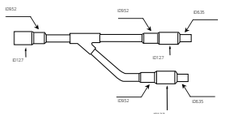
PIPING ACCESSORIES

Y Branch pipe for connection of indoor units

[Heat Pump, Heat Recovery zone control]

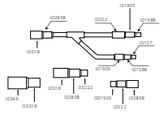
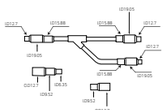
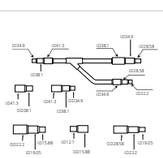
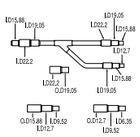
• R410A / MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

(Unit : mm)

Model Name	Gas pipe	Liquid pipe
ARBLN01621		
ARBLN03321		

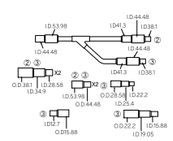
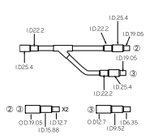
• R410A / MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

(Unit : mm)

Model Name	Gas pipe	Liquid pipe
ARBLN07121		
ARBLN14521		

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

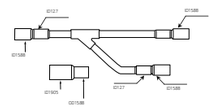
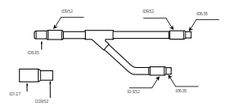
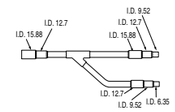
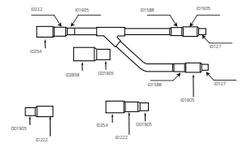
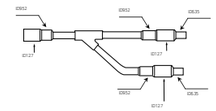
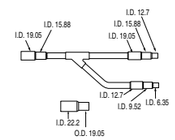
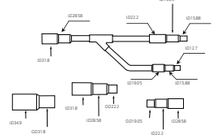
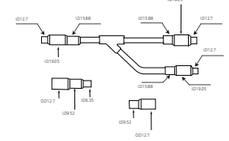
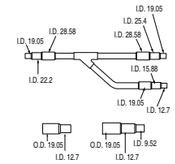
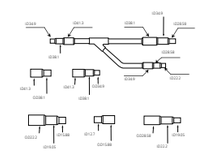
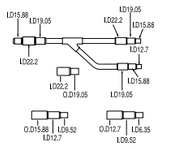
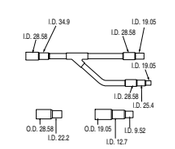
(Unit : mm)

Model Name	Gas pipe	Liquid pipe
ARBLN23220		

[Heat Recovery]

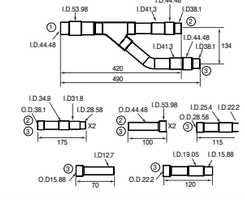
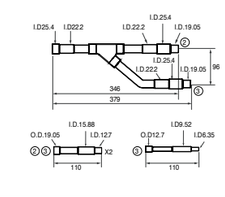
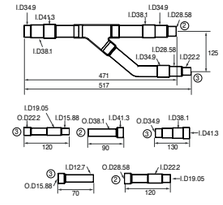
• R410A / MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery , MULTI V WATER II Heat Recovery

(Unit : mm)

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

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

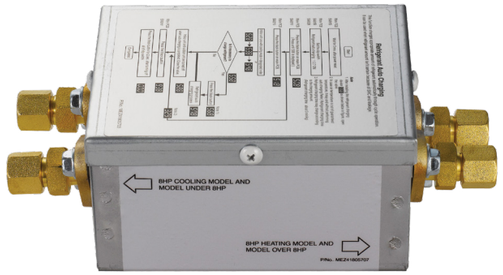
(Unit : mm)

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

REFRIGERANT CHARGING KIT

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

PRAC1

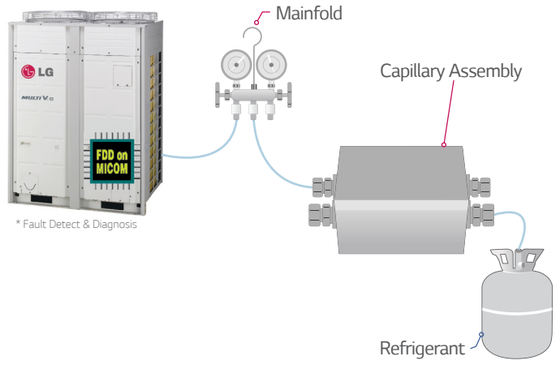


Features

- Arrange manifold, capillary assembly, refrigerant vessel and scale
- Connect manifold to the gas pipe service valve of outdoor uint 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 Heat Pump
- MULTI V III Heat Recovery
- MULTI V PLUS II
- MULTI V SYNC II

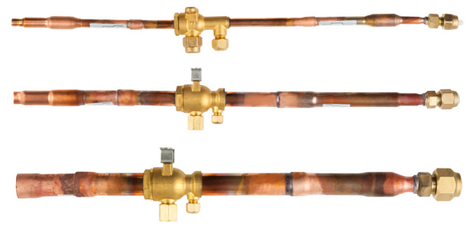


STOPPER VALVES

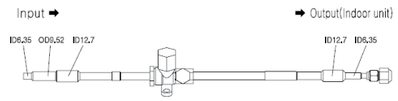
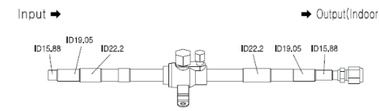
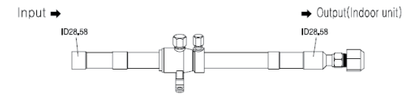
Under 1/2 (inch)
PRVT120

Under 7/8 (inch)
PRVT780

Under 9/8 (inch)
PRVT980



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

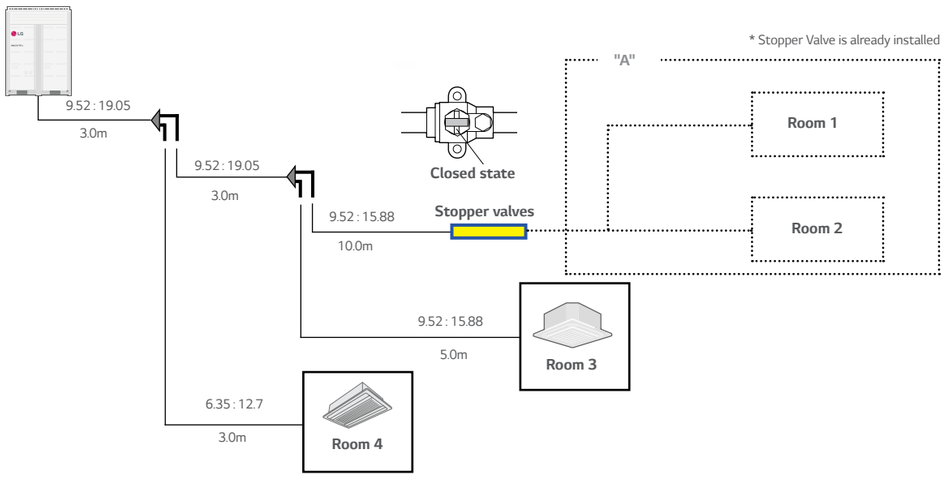
1. Cut the inlet side of the connector, and weld the pipe
2. If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
3. When installing a stopper valve, the flare part should be facing towards additional indoor unit.
4. When installing anadditional indoor unit, the SVC valve should be in closed state.

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

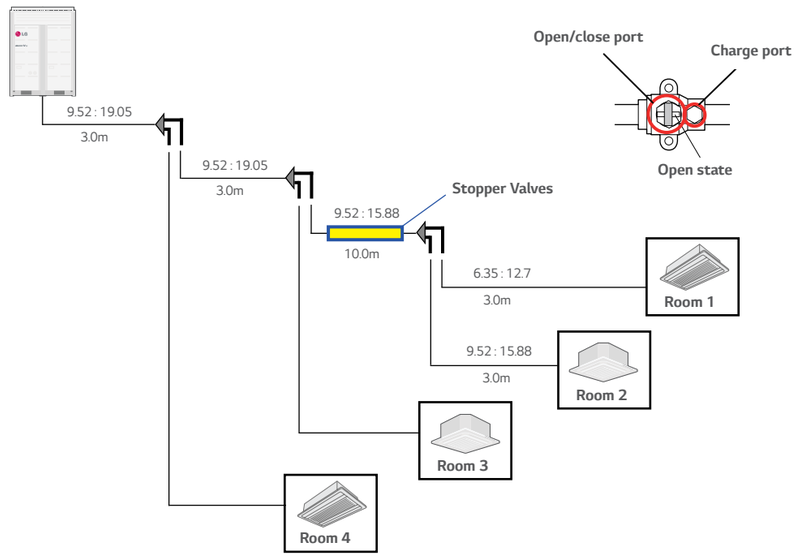
STOPPER VALVES

Details of Model Name

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



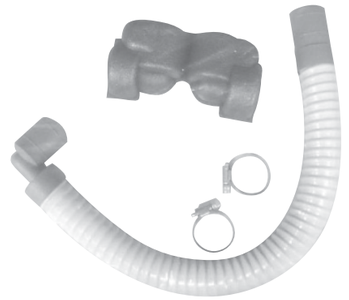
• In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged.(Room3 & Room4)
• If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
• After installation of additional indoor unit, you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



DRAIN HOSE

Easy drain installation

PHDHA05T
PHDHA07T
PHDHA05B
PHDHA07B

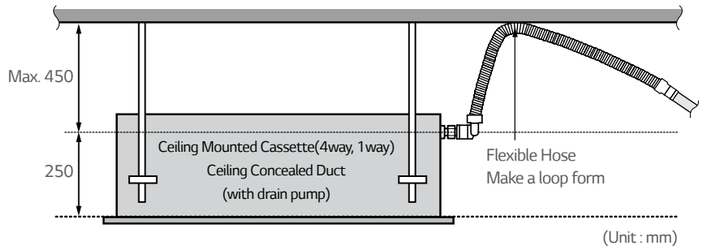


Features

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

Models Applied

Ceiling Mounted Cassette
and Ceiling Concealed Duct
(refer to PDB for applicable model)



Accessory Model Name

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

COMPATIBILITY TABLE

● : Compatibility is available ▲ : Wired remote controller is required X : Compatibility is unavailable
◉ : Compatibility is available but more detailed functions refer to "MULTI V INDOOR UNIT LINE UP&FEATURES" page.

				Controller	Premium	*New* Standard II		Standard		Simple		Simple for Hotel		Wireless	Dry Contact					Wi-Fi Controller
				Product	PREMTA000 PREMTA000A PREMTA000B	PREMTB801	PREMTB001	PQRCVLQ	PQRCVLQ0QW	PQRCVCL0Q	PQRCVCL0QW	PQRCHCA0Q	PQRCHCA0QW	PQWRHQDFDB	Simple Dry Contact PDRYCB000 PQDSA	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300	For Modbus PDRYCB500	LG-IR-WF-1
MULTI V	Ceiling Mounted Cassette	4 way	ARNU-C2		●	●		●		●		●		●	●	●	●	●	●	●
			New ARNU-C4		◉	◉		●		●		●		●	●	●	●	●	●	●
		2 way / 1 way	ARNU-C2		●	●		●		●		●		●	●	●	●	●	●	●
			New ARNU-C4		◉	◉		●		●		●		●	●	●	●	●	●	●
	Ceiling Concealed Duct	High Sensible	ARNU-A2		●	●		●		●		●		▲	●	●	●	●	●	●
		High Statics	ARNU-A2		●	●		●		●		●		▲	●	●	●	●	●	●
		Mid Statics	*New* ARNU-A4		◉	◉		●		●		●		▲	●	●	●	●	●	●
		Low Statics	ARNU-G2		●	●		●		●		●		▲	●	●	●	●	●	●
			New ARNU-G4		◉	◉		●		●		●		▲	●	●	●	●	●	●
		Built - in	ARNU-G2		●	●		●		●		●		▲	●	●	●	●	●	●
			New ARNU-G4		◉	◉		●		●		●		▲	●	●	●	●	●	●
	Fresh Air intake Unit		ARNU-Z2		●	●		●		●		●		▲	●	●	●	●	●	●
	Ceiling Suspended Unit		ARNU-A2		●	●		●		●		●		●	●	●	●	●	●	●
	Console		ARNU-A2		●	●		●		●		●		●	●	●	●	●	●	●
	Flooring Standing	(with case)	ARNU-A2 ARNU-U2		●	●		●		●		●		▲	●	●	●	●	●	●
		(without case)	*New* ARNU-A4 ARNU-U4		◉	◉		●		●		●		▲	●	●	●	●	●	●
	Wall Mounted Unit		ARNU-*2[1]		●	●		●		●		●		●	●	●	●	●	●	●
			ARNU-*2[2]		●	●		●		●		●		●	●	●	●	●	●	●
			New ARNU-*4[3]		◉	◉		●		●		●		●	●	●	●	●	●	●
			ARNU-L2		●	●		●		●		●		●	●	●	●	●	●	●
			New ARNU-L4		◉	◉		●		●		●		●	●	●	●	●	●	●
	Hydro kit *[4]														●	X	X	X	X	
	Ventilation	ECO V			●	●		●*[5]		X		X		X	●	X	X	X	X	
		ECO V DX			●	●		●*[5]		X		X		X	●	●	●	●	X	
	AHU Communication kit				X	X		●		X		X		▲	●	●	●	●	X	

*1) **Artcool Gallery** : Photo changable (1) / **Artcool Panel** : Silver (V) / Gold (G) / Red (E) / White Silver (H)
*2) **Artcool Mirror** : Mirror (R) / Silver (V)
*3) **Artcool Mirror II** : Mirror (R) / Silver (V) / White (W)
*4) It has a separate remote controller
*5) Refer to each models PDB application models

● : Compatibility is available ▲ : Wired remote controller is required X : Compatibility is unavailable

				Controller	Premium	*New* Standard II		Standard		Simple		Simple for Hotel		Wireless	Dry Contact					Wi-Fi Controller
				Product	PREMTA000 PREMTA000A PREMTA000B	PREMTB801	PREMTB001	PQRCVLQ	PQRCVLQ0QW	PQRCVCL0Q	PQRCVCL0QW	PQRCHCA0Q	PQRCHCA0QW	PQWRHQDFDB	Simple Dry Contact PDRYCB000 PQDSA	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300	For Modbus PDRYCB500	LG-IR-WF-1
SINGLE SPLIT	H-Inverter	Ceiling Mounted Cassette			●	●		●		●		●		●	●	●	●	●	●	●
		Ceiling Concealed Duct			●	●		●		●		●		▲	●	●	●	●	●	●
		Ceiling Suspended Unit			●	●		●		●		●		●	●	●	●	●	●	●
	Standard Inverter	Ceiling Mounted Cassette			●	●		●		●		●		●	●	●	●	●	●	●
		Ceiling Concealed Duct	High Statics		●	●		●		●		●		▲	●	●	●	●	●	●
			Mid Statics		●	●		●		●		●		▲	●	●	●	●	●	●
			Low Statics		●	●		●		●		●		▲	●	●	●	●	●	●
		Ceiling Suspended Unit			●	●		●		●		●		●	●	●	●	●	●	●
		Console			●	●		●		●		●		●	●	●	●	●	●	●
		Wall Mounted Unit			●	●		●		●		●		●	●	●	●	●	●	●
		Floor Standing			●	●		●		●		●		X	●	●	●	●	●	●
MULTI SPLIT	Ceiling Mounted Cassette	4 way			●	●		●		●		●		●	●	●	●	●	●	●
		1 way			●	●		●		●		●		●	●	●	●	●	●	●
	Ceiling Concealed Duct	Mid Statics			●	●		●		●		●		▲	●	●	●	●	●	●
		Low Statics			●	●		●		●		●		▲	●	●	●	●	●	●
	Ceiling Suspended Unit				●	●		●		●		●		●	●	●	●	●	●	●
	Console				●	●		●		●		●		●	●	●	●	●	●	●
	Wall Mounted Unit				●	●		●		●		●		●	●	●	●	●	●	●
					●	●		●		●		●		●	●	●	●	●	●	●
THERMA V	Split	Mid Temp.													●	X	X	X		
		High Temp.													●	X	X	X		
	Monobloc														●	X	X	X		

INDOOR UNIT

Line-Up

Type		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
Wall Mounted Unit	Gallery / Panel			■	■	■	■										
	New Mirror			■	■	■	■	■	■	■							
	New Standard		■	■	■	■	■	■	■	■							
Ceiling Mounted Cassette	*New* 4 Way Cassette (570x570)		■	■	■	■	■	■	■								
	New 4 Way Cassette (840x840)									■	■	■	■	■			
	New 2 Way Cassette				■			■		■							
	New 1 Way Cassette			■	■	■	■	■	■	■							
Ceiling Concealed Duct	*New* Mid / High Statics			■	■	■	■	■	■	■	■	■	■	■	■	■	■
	New Low Statics		■	■	■	■	■	■	■	■							
	New Built-in			■	■	■	■	■	■	■							
	High Sensible							■		■		■	■	■			
Fresh Air Intake Units														■		■	■
Ceiling & Floor Convertible Unit					■	■											
Ceiling suspended unit								■		■		■		■			
Console				■	■	■	■										
Floor Standing Unit	*New* Floor Standing with Case			■	■	■	■	■	■	■							
	New Floor Standing without Case			■	■	■	■	■	■	■							

New Indoor Unit (4th Generation)

Feature

● Available ◐ Partly available ○ Accessories required

1 Point Drycontact (On/Off Control)	Filter Sign	Model Information Monitoring	Thermo on/off Range Setting	Test Run	Group Control	Energy Monitoring [1]	Refrigerant Leakage Detection [2]	Neo Plasma Air Purifying System	Jet Cool	Dehumidification	Child Lock Function [3]	Soft Dry operation	Auto Clean	Sleep Mode Auto operation	Swirl Swing	Weekly Program [3]	Changeable Panel
			◐	◐	◐			●	●	●	○		●	●	●	○	●
●	●	●	●	●	●	○	○	●	●	●	○	●	●	●	●	○	●
●	●	●	●	●	●	○	○	●	●	●	○	●	●	●		○	
●	●	●	●	●	●	○	○	●	●	●	○	●		●	●	○	
●	●	●	●	●	●	○	○	●	●	●	○	●		●	●	○	
●	●	●	●	●	●	○	○	●	●	●	○	●	●	●	●	○	
●	●	●	●	●	●	○	○	●	●	●	○	●	●	●		○	●
●	●	●	●	●	●	○	○			●	○	●		●		○	
●	●	●	●	●	●	○	○			●	○	●		●		○	
			◐	◐	◐					●	○	●		●		○	
			◐	◐	◐					●	○	●		●		○	
			◐	◐	◐					●	○	●		●		○	
			◐	◐	◐					●	○	●		●		○	
			◐	◐	◐					●	○	●		●	●	○	
●	●	●	●	●	●	○	○			●	○	●		●		○	
●	●	●	●	●	●	○	○			●	○	●		●		○	

[1] Centralized control(PQCSW421E0A/PACS4B000/PQCPC22N0/PACP4B000/PQNFB17C0/PLNWKB000), PDI(PQNUD1S40/PPWRDB000) and wired remote controller(Premium or Standard) required
[2] Refrigerant leakage detector(PRLDNVS0) required
[3] Wired remote controller required(Please refer to "Individual controller" pages)
If new Indoor units (4th generations) are connected with previous models together, some of function will be limited : Filter Sign / Energy Monitoring.

MEMO

AE Company Introduction

The LG Electronics Air Conditioning and Energy Solution Company is a total heating, ventilation and air conditioning (HVAC) and energy solution company, providing a full lineup of products including Residential Air Conditioning (RAC), System Air Conditioning (SAC), chiller, Building Management Systems (BMS) around the world.

Residential Air Conditioner

System Air Conditioner

Chiller

Company Milestone

LG's consistent efforts in innovation have made LG Air Conditioning and Energy Solution a true global leader in HVAC businesses.

1958
Founded as GoldStar

1968
Manufactured Korea's first air conditioner

1985
Maufactured Korea's first inverter air conditioner

1990
Produced first rotary compressor

1995
Changed company name to LG Electronics

2001
Introduced world's first picture frame air conditioner

2004
Achieved world's highest annual sales in air conditioners of 10 million units

2008
Reached total global sales of 100 million air conditioner units for the first time in the industry

2009
Structured as an independent business unit as part of LG Electronics' reorganization

2010
Established lighting business to provide total HVAC and energy solution worldwide

2011
LG started production of chillers and large-sized Air conditioning systems