



LG **MULTI V™** 2016

MULTI V™

2016



LG HVAC
SOLUTION

LG Electronics

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WHY?

LG **MULTI V**™ SOLUTION

01 MULTI V IV Development Philosophy

LG's primary goal is to 'Vitalize every environment' around the globe—from private residences to commercial buildings and 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. 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, 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.

02 Revolution of MULTI V

2006



MULTI V
Ø7.0 Corrugate
Fuzzy Algorithm
AC Inverter
R410A

2008



MULTI V
Heat Recovery
Ø7.0 Wide louver
Fuzzy Algorithm
LGDC Inverter

2010



MULTI V
High Pressure Oil Return
Continuous Heating
Vapor Injection

2013



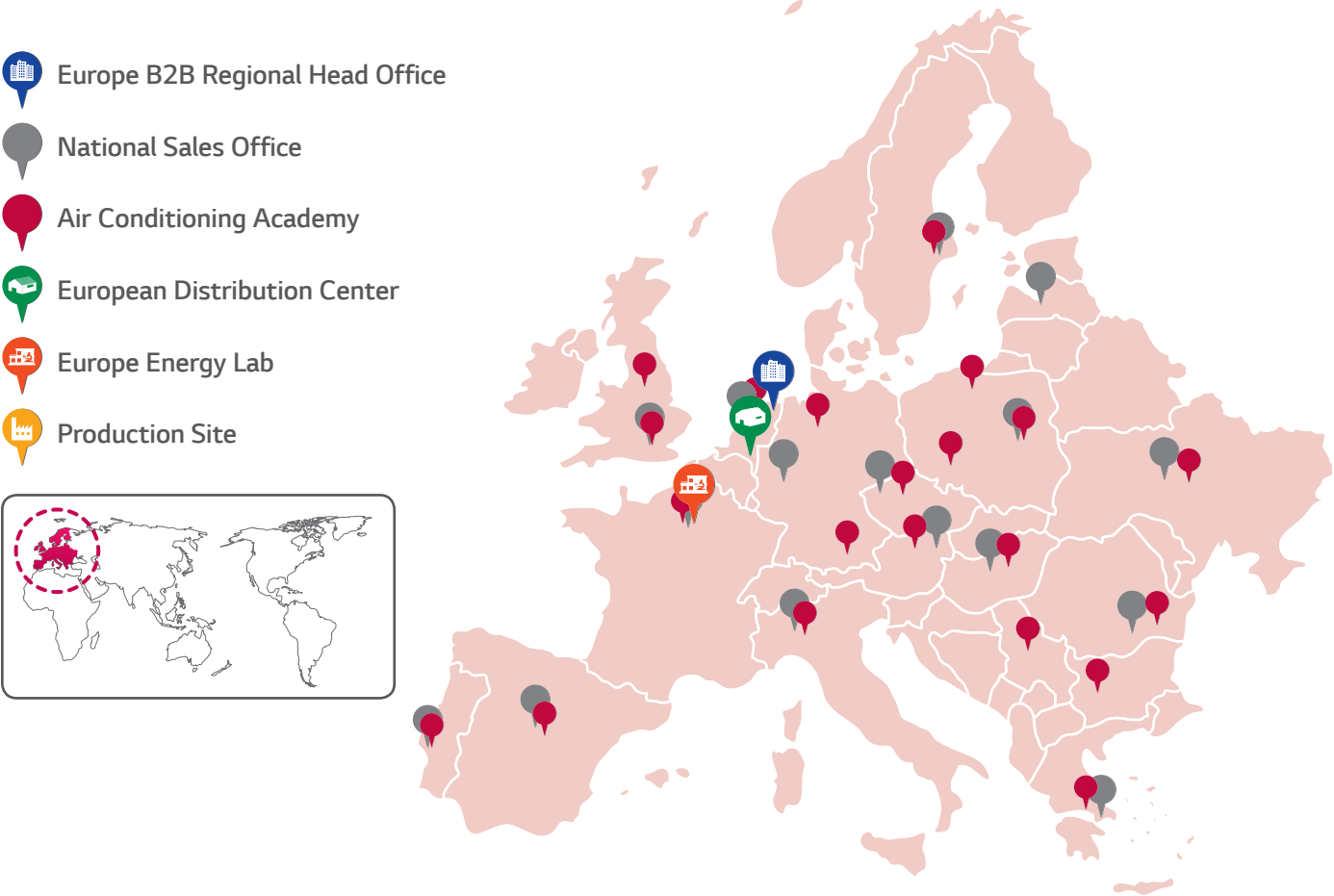
MULTI V
Active Refrigerant Control
Variable Heat Exchanger
Smart Load Control
Smart Oil Control
Vapor Injection (Advanced)



LG Electronics participates in the Eurovent Certification Programme for Variable Refrigerant Flow (VRF); the certified models are listed in the Eurovent Directory.

Check on-going validity of certificate :
www.eurovent-certification.com

EUROPE SALES INFRASTRUCTURE



GLOBAL PRODUCTION SITE



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

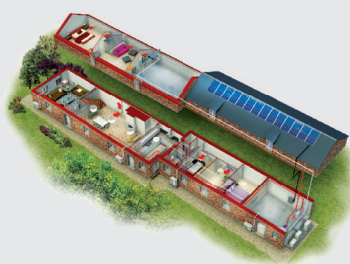
TOTAL HVAC SOLUTION PROVIDER

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 provides 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 adding chillers, VRF systems and BMS (building management system) 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 valuable 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.



LG Energy Labs in Europe

Committed to meet all requirements regarding energy efficiency and environmental demands, LG has been running Energy Lab. 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 all over 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.

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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

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 LINE-UP

OUTDOOR UNIT

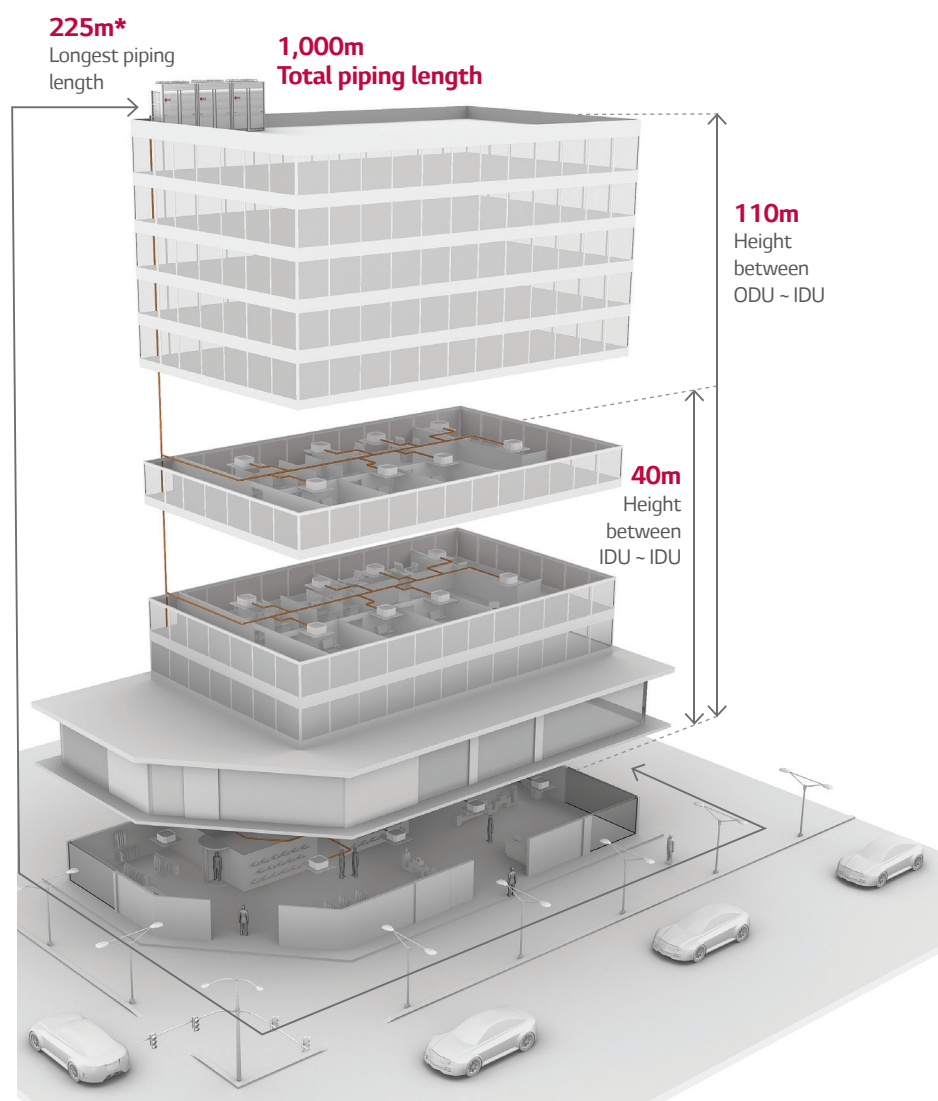
Type	Features	Appearance	4	5	6	8	10	12	14	16	18	20
MULTI V IV Heat Pump	• Energy saving product • Flexible installation • For large space and high rise building - Office, Commercial, School etc.											
												
MULTI V IV Heat Recovery	• Cooling and heating at the same time • Energy saving by 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 ~ 12HP) - 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											

[illegible]

☐ 380V, 3Ø ☐ 220V, 1Ø

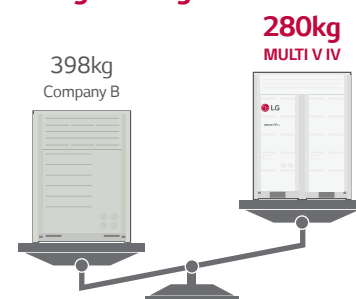
OUTDOOR UNIT

MULTI V IV 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 1 st 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 an individual level of control ensuring the tenant's comfort in their individual space. The owner saves on boiler size reduction.

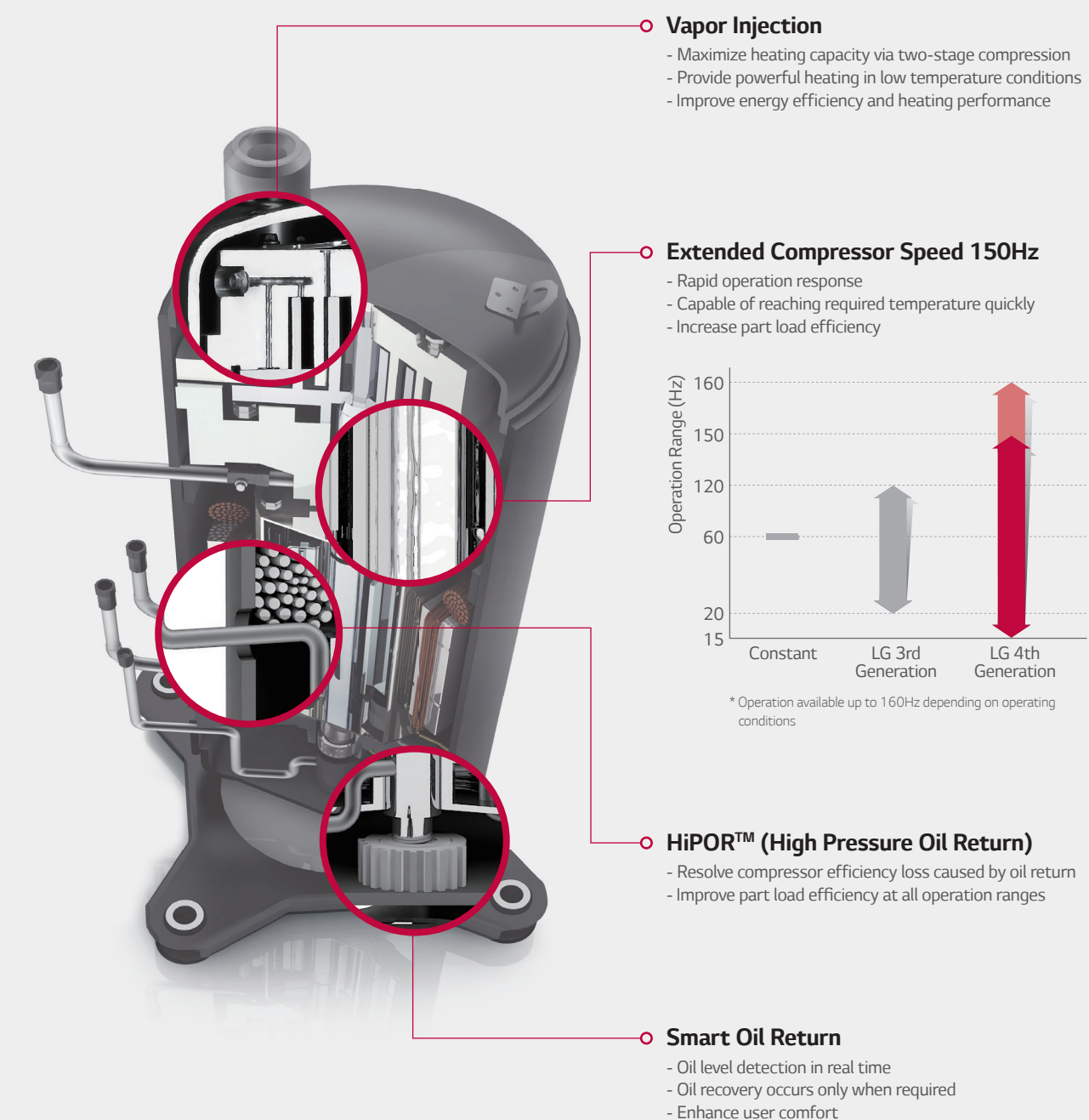
Application

- Office / Factory
- Education facility
- Commercial building (Shopping mall / Department store / Large scale retail / Super market)

EFFICIENCY

LG's 4th Generation Inverter Compressor

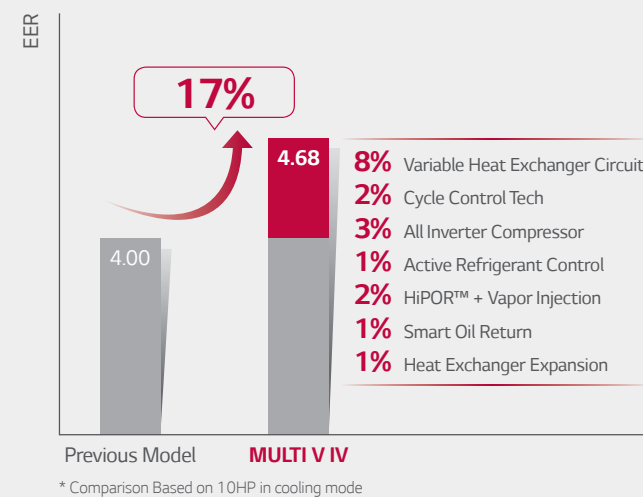
The new High-Side Shell (HSS) scroll inverter compressor and BLDC concentration motor coil optimizes part load efficiency, with 50% reduction in weight and increase in high-frequency operation of 120Hz to 150Hz.



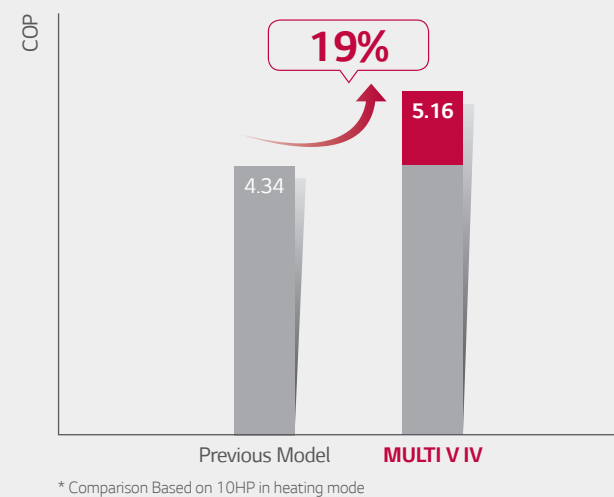
EFFICIENCY

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

EER (Cooling)



COP (Heating)

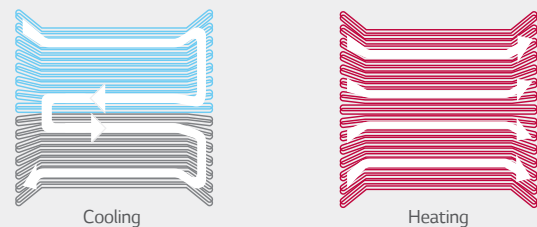


Variable Heat Exchanger Circuit

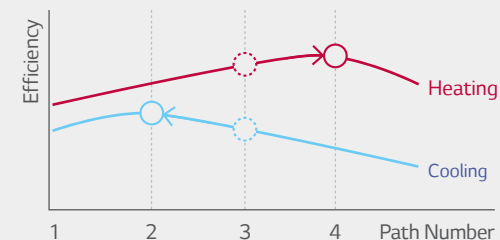
Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling.

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

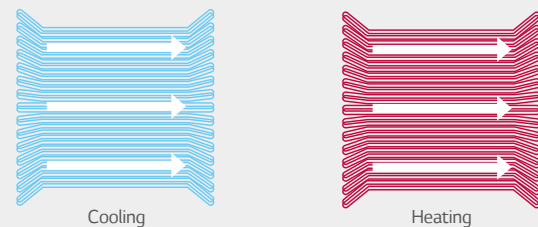


Maximizing Efficiency for All Operations

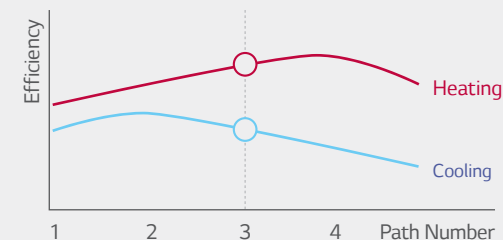


Conventional

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

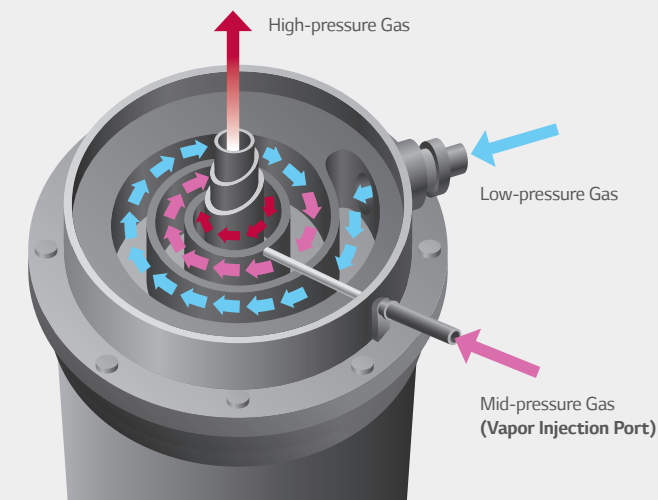


Compromising Efficiency for Each Operation

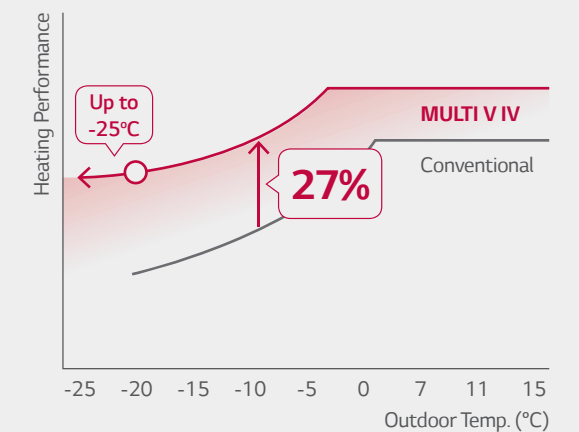


Vapor Injection

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

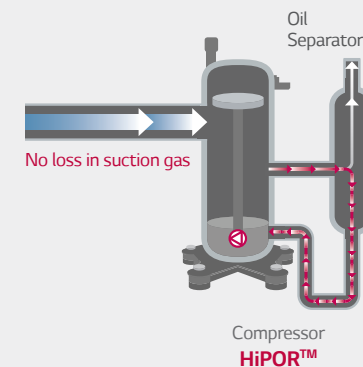


HiPOR™ (High Pressure Oil Return)

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

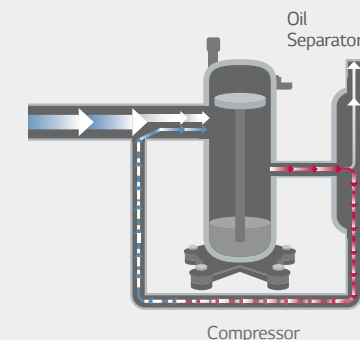
MULTI V IV

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

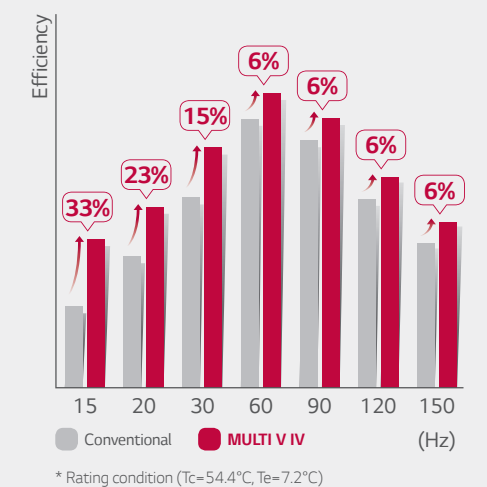


Conventional

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



Efficiency Comparison



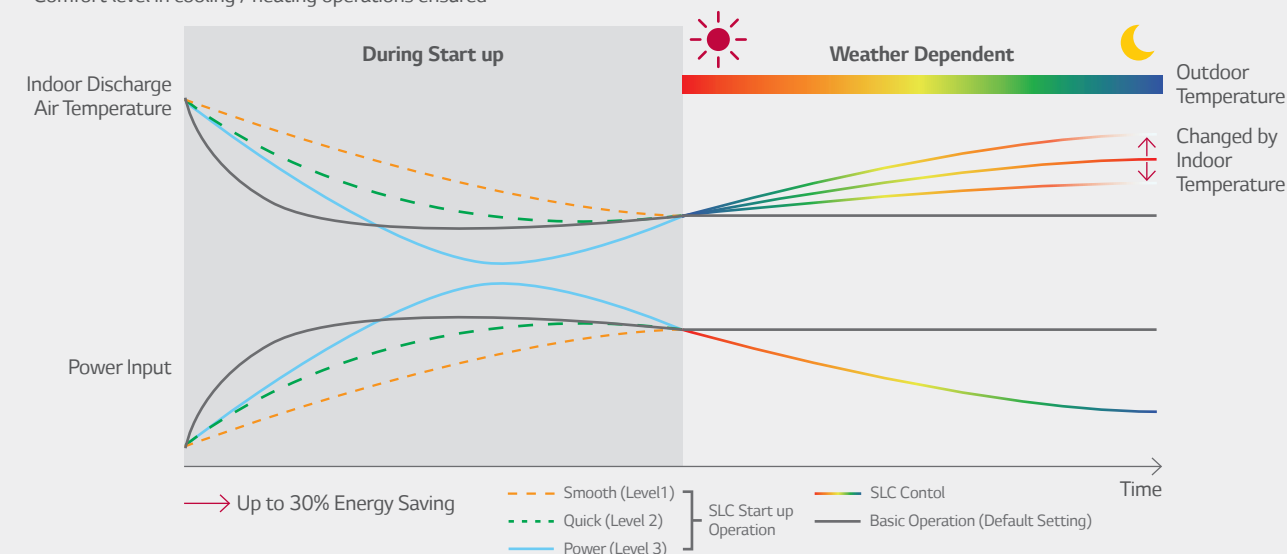
EFFICIENCY

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



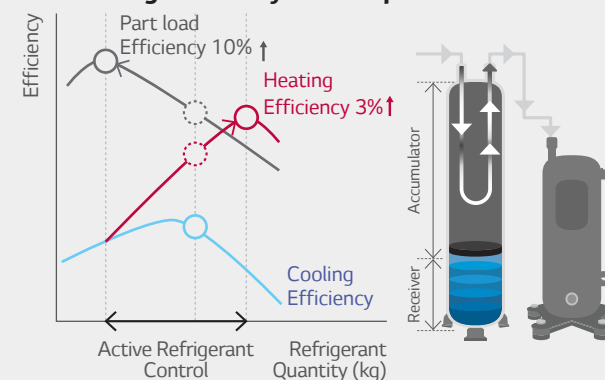
Active Refrigerant Control

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

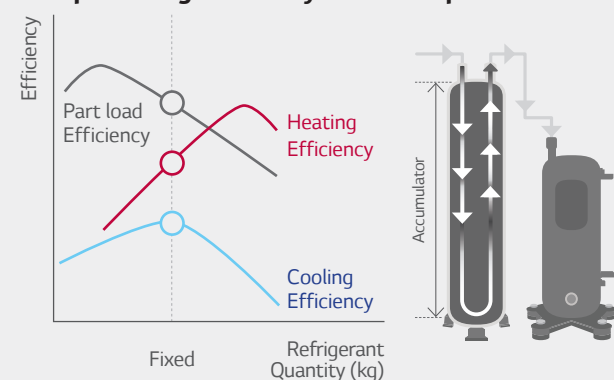
Maximizing efficiency for all operations



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



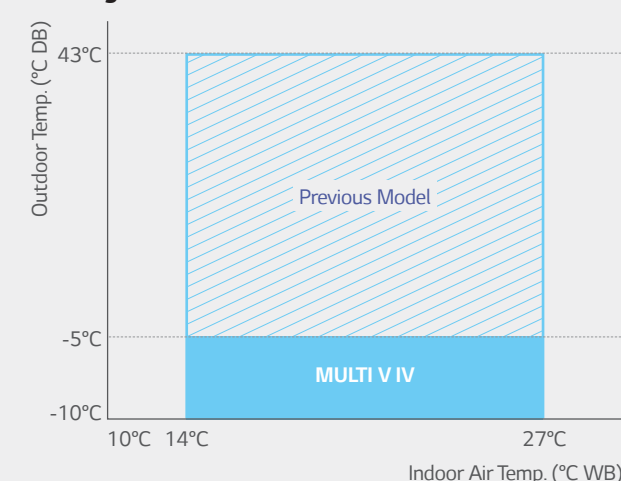
PERFORMANCE

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

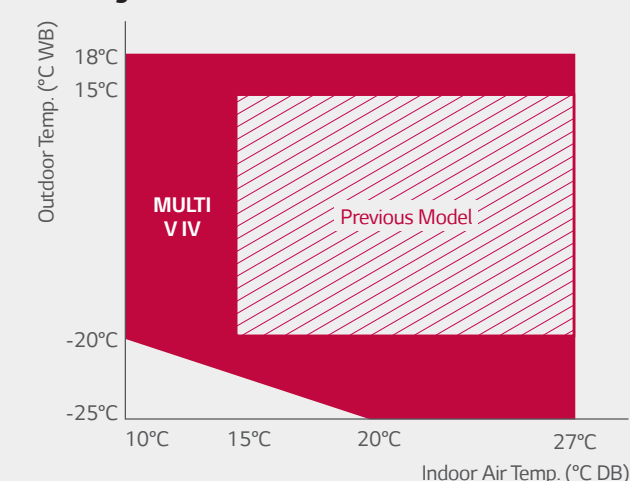
Wide Operation Range

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

Cooling



Heating

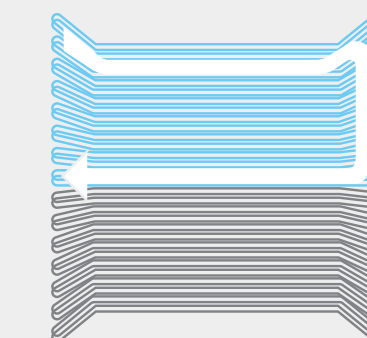


Cooling Operation Range Down to -10°C

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.

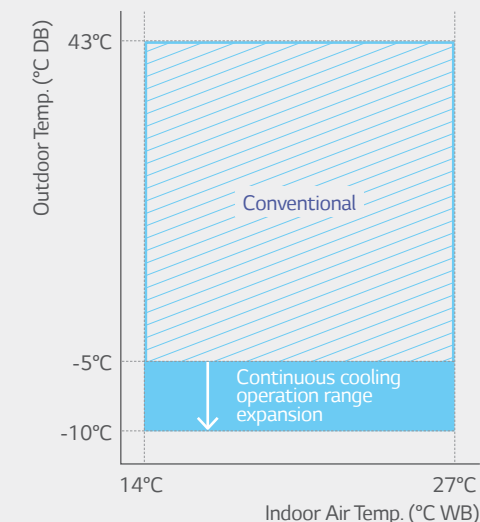
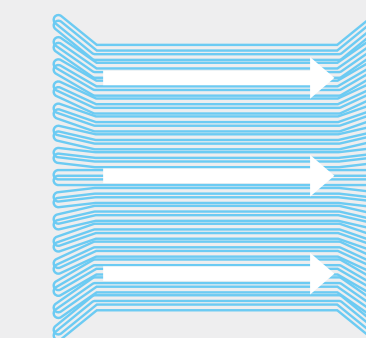
MULTI V IV

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



Conventional

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



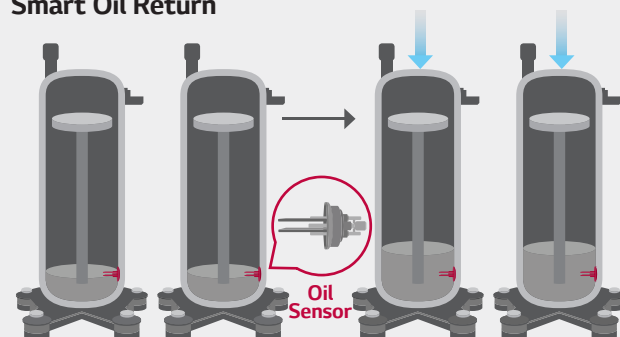
PERFORMANCE

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

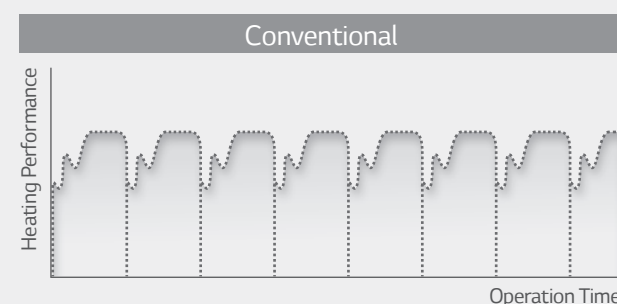
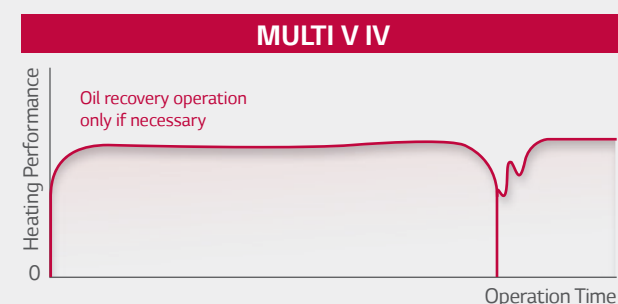
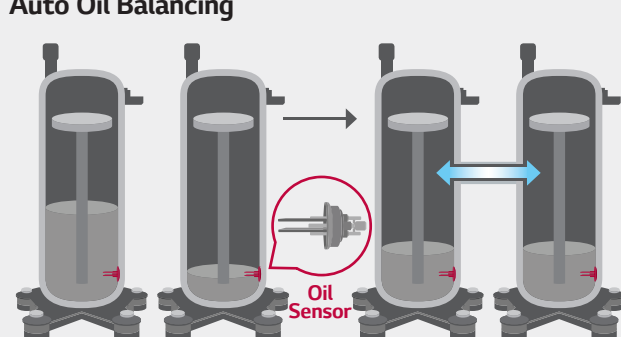
Smart Oil Management

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

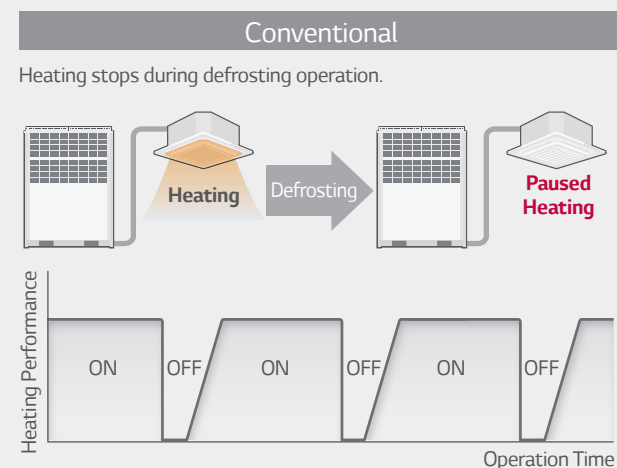
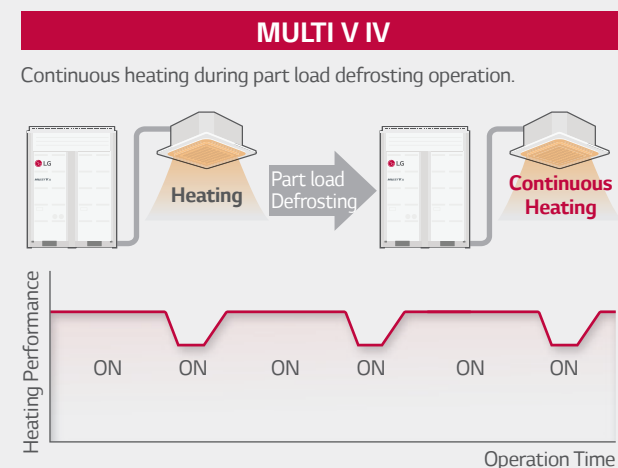


Auto Oil Balancing



Continuous Heating Operation in Defrost

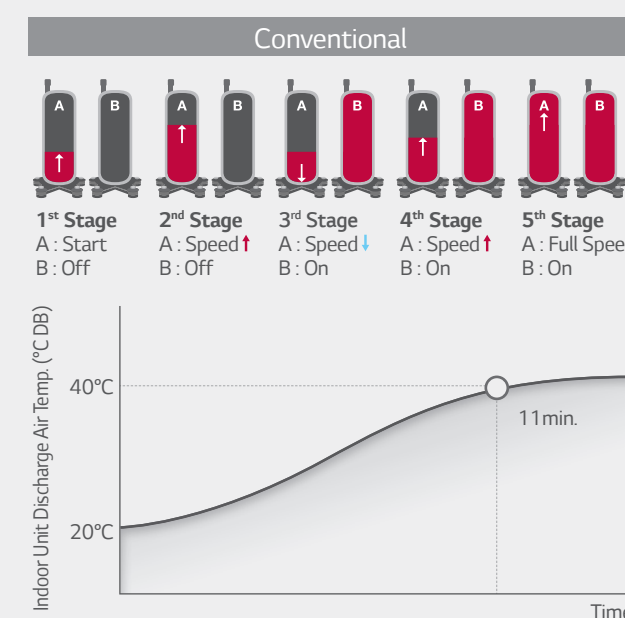
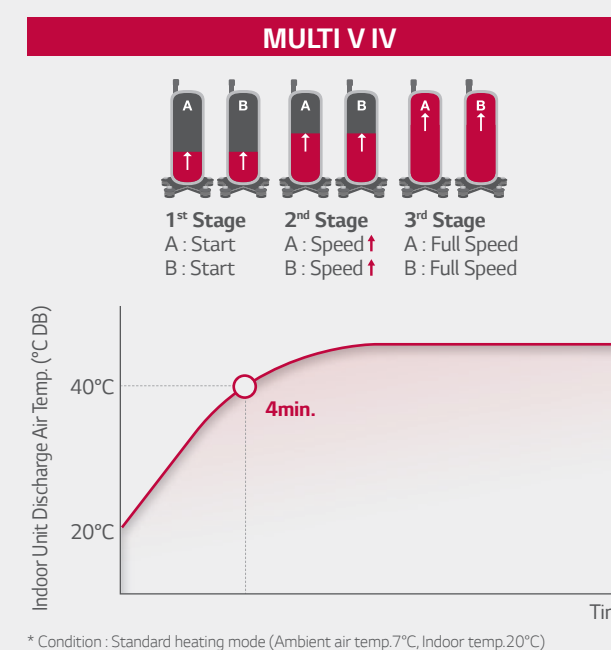
MULTI V IV uses the split-defrost technology for continuous heating operation, which provides consistent heating for the indoor environment to improve both heating capacity and indoor comfort.



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

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.

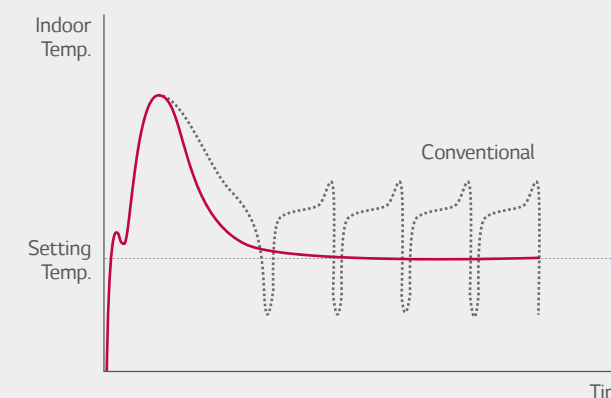


* Condition : Standard heating mode (Ambient air temp.7°C, Indoor temp.20°C)

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



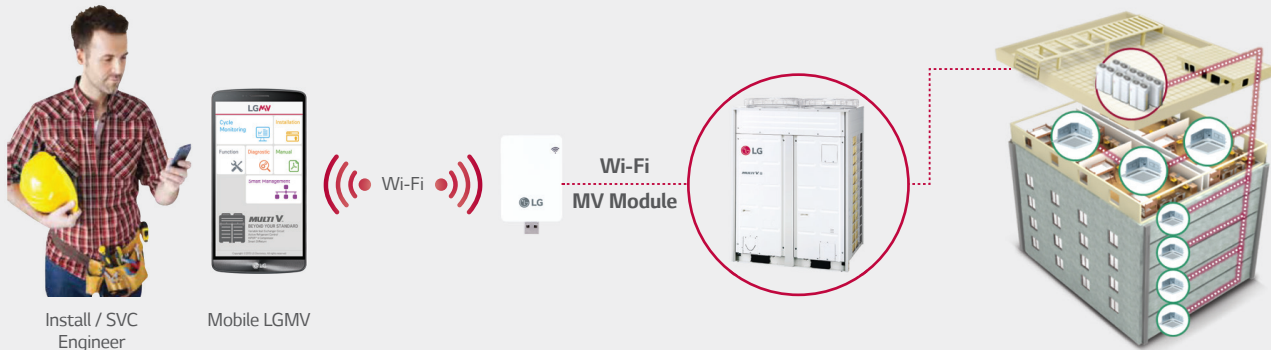
- Indoor Unit Target superheat increased
- Refrigerant flow rate decreased
- Thermo-on Time increased (47min. More than 120min.)
- No repeat thermo On / Off.
- Average electric power 2% saving

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.



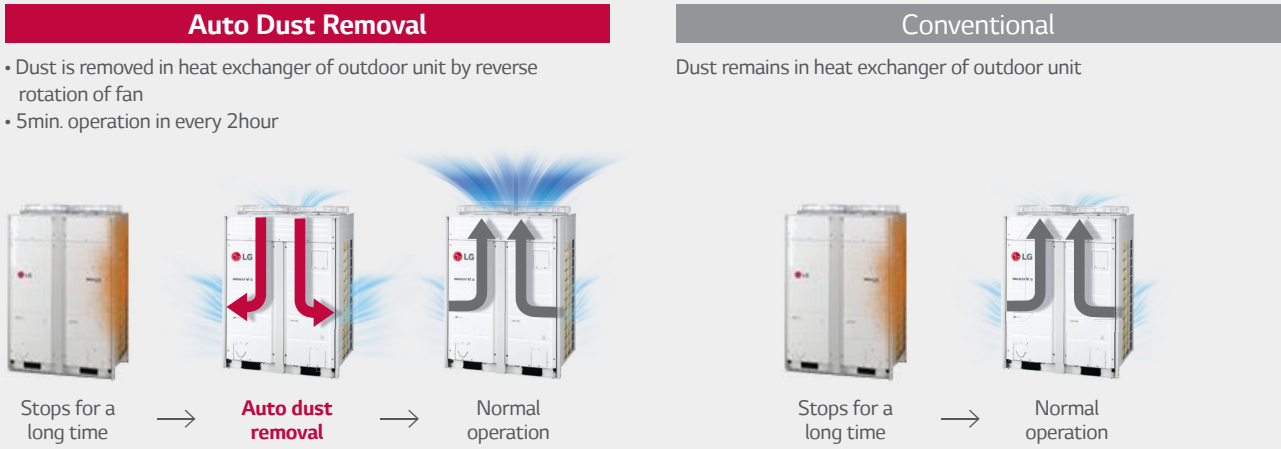
Connection type : Wi-Fi / To use Mobile LGMV Application, exclusive Wi-Fi MV Module is required

Smart Phone Specification

App. Name	OS	Recommended Specification	Resolution	Wireless Communication Effective Distancd
Mobile LGMV	iOS (iPad Only)	AppiOS 8.0 / 8.1	2,048 x 1,536 (Optimization), 1,024 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 1,280, 768 x 1,280, 768 x 1,024, 1,080 x 1,920	

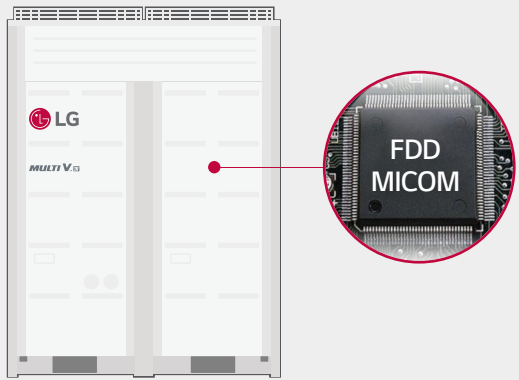
Auto Dust Removal

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.



Upgraded FDD (Fault Detection & Diagnosis)

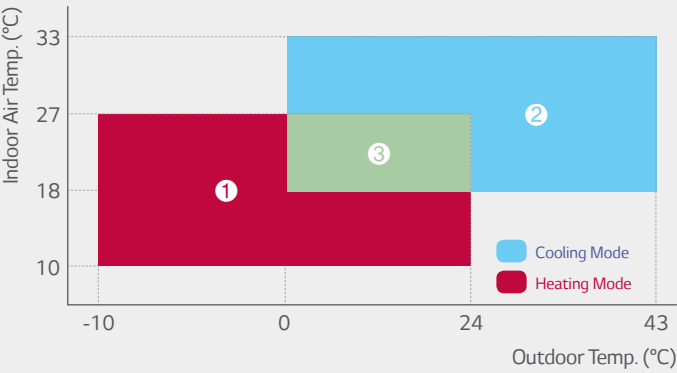
Newly upgraded FDD elements provide the optimal solution for user reliability and easy maintenance.



- 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

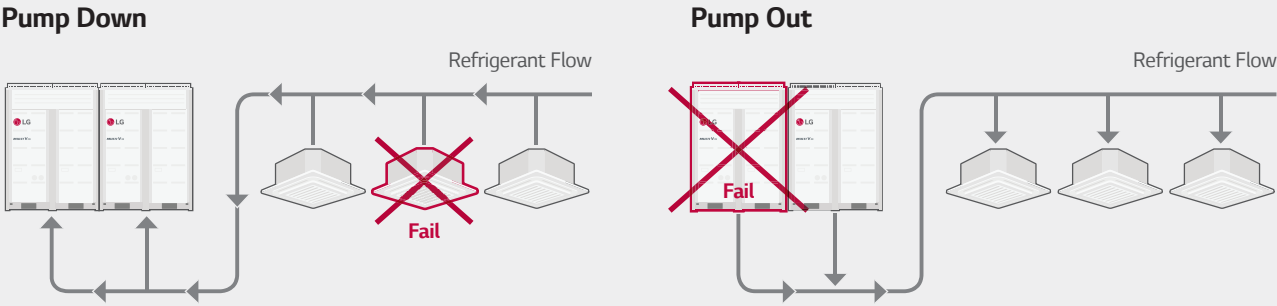
New Refrigerant Quantity Decision Feature

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



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.





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	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min ~ Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	210	210	210
Sound Pressure	Cooling	Nom	dBA	58.5	59.0	59.0
	Heating	Nom	dBA	58.5	59.0	59.0
Sound Power	Cooling	Nom	dBA	78.0	78.0	79.0
	Heating	Nom	dBA	78.0	78.0	79.0
Dimensions	W x H x D		mm	(920 × 1,680 × 760) × 1	(920 × 1,680 × 760) × 1	(920 × 1,680 × 760) × 1
Net Weight			kg	202 × 1	208 × 1	208 × 1
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	7.5	7.5	7.5
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control		cc	3,200	3,400	3,400
Power Supply			Ø / 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 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	39.2	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	11.30	12.49	14.82
EER ¹⁾	Cooling	Nom		4.47	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	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min ~ Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	2	2
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290	290	290	290
Sound Pressure	Cooling	Nom	dBA	59.0	59.0	59.5	59.5
	Heating	Nom	dBA	59.0	59.0	59.5	59.5
Sound Power	Cooling	Nom	dBA	82.0	82.0	83.0	83.0
	Heating	Nom	dBA	82.0	82.0	83.0	83.0
Dimensions		W x H x D		mm	(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	3,400	3,400	4,400	4,400
Power Supply			Ø / 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	1,000	1,000	1,000	1,000
	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	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)

** ARUN180LTE4 / ARUN200LTE4 units are excluded from Eurovent certified capacity range

MULTI V™ 

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°C ~ 43°C	-10°C ~ 43°C
	Heating	Min ~ Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Fan	Type			Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	210 x 2	210 x 2
Sound Pressure	Cooling	Nom	dBA	62.0	62.0
	Heating	Nom	dBA	62.0	62.0
Sound Power	Cooling	Nom	dBA	81.5	82.0
	Heating	Nom	dBA	81.5	82.0
Dimensions		W x H x D	mm	(920 × 1,680 × 760) × 2	(920 × 1,680 × 760) × 2
Net Weight			kg	208 × 2	208 × 2
Refrigerant	Type			R410A	R410A
	Charge		kg	7.5 × 2	7.5 × 2
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Control		cc	6,800	6,800
Power Supply			Ø / 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 ⁴⁾		Max	200 (225)	200 (225)
	After 1st Y Branch ⁵⁾		Max	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)

MULTI V™ 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	72.8	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	19.81	21.32	23.33
EER ¹⁾	Cooling	Nom		4.45	4.24	4.54	4.39
COP ¹⁾	Heating	Nom		4.62	4.43	4.43	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			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 + 210	290 + 210	290 + 210	290 + 210
Sound Pressure	Cooling	Nom	dBA	62.0	62.0	62.3	62.3
	Heating	Nom	dBA	62.0	62.0	62.3	62.3
Sound Power	Cooling	Nom	dBA	83.8	83.8	84.5	84.5
	Heating	Nom	dBA	83.8	83.8	84.5	84.5
Dimensions	W x H x D		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	6,800	6,800	7,800	7,800
Power Supply			Ø / 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	1,000	1,000	1,000	1,000
	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	95.2	100.8
	Heating	Nom	kW	107.1	113.0
Power Input ¹⁾	Cooling	Nom	kW	21.58	23.71
	Heating	Nom	kW	24.03	26.12
EER ¹⁾	Cooling	Nom		4.41	4.25
COP ¹⁾	Heating	Nom		4.46	4.33
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			8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2	290 x 2
Sound Pressure	Cooling	Nom	dBA	62.3	62.3
	Heating	Nom	dBA	62.3	62.3
Sound Power	Cooling	Nom	dBA	85.5	85.5
	Heating	Nom	dBA	85.5	85.5
Dimensions	W x H x D		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	7,800	7,800
Power Supply			Ø / 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 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	23.74	25.62
	Heating	Nom	kW	27.63	29.64
EER ¹⁾	Cooling	Nom		4.48	4.37
COP ¹⁾	Heating	Nom		4.33	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			8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2	290 x 2
Sound Pressure	Cooling	Nom	dBA	62.5	62.5
	Heating	Nom	dBA	62.5	62.5
Sound Power	Cooling	Nom	dBA	86.0	86.0
	Heating	Nom	dBA	86.0	86.0
Dimensions	W x H x D		mm	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2
Net Weight			kg	280 x 2	280 x 2
Refrigerant	Type			R410A	R410A
	Charge		kg	10.5 x 2	10.5 x 2
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Control		cc	8,800	8,800
Power Supply			Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm²	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	1,000	1,000
	Actual Longest Piping Length 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	117.6	123.2	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	28.12	30.13	32.23
EER ¹⁾	Cooling	Nom		4.58	4.47	4.34
COP ¹⁾	Heating	Nom		4.70	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			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure	Cooling	Nom	dBA	63.9	63.9	63.9
	Heating	Nom	dBA	63.9	63.9	63.9
Sound Power	Cooling	Nom	dBA	86.2	86.2	86.2
	Heating	Nom	dBA	86.2	86.2	86.2
Dimensions	W x H x D		mm	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1
Net Weight			kg	280 x 1 + 245 x 1 + 208 x 1	280 x 1 + 245 x 1 + 208 x 1	280 x 1 + 245 x 1 + 208 x 1
Refrigerant	Type			R410A	R410A	R410A
	Charge			kg	(10.5 x 2) + 7.5	(10.5 x 2) + 7.5
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	11,200	11,200
Power Supply			Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	1,000	1,000	1,000
	Actual Longest Piping Length 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)
	Gas			mm (inch)	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)



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	29.72	31.60	33.20
	Heating	Nom	kW	33.73	35.74	38.15
EER ¹⁾	Cooling	Nom		4.52	4.43	4.39
COP ¹⁾	Heating	Nom		4.48	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			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure	Cooling	Nom	dBA	64.1	64.1	64.1
	Heating	Nom	dBA	64.1	64.1	64.1
Sound Power	Cooling	Nom	dBA	86.6	86.6	86.8
	Heating	Nom	dBA	86.6	86.6	86.8
Dimensions	W x H x D		mm	(1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1
Net Weight			kg	280 x 2 + 208 x 1	280 x 2 + 208 x 1	280 x 2 + 208 x 1
Refrigerant	Type			R410A	R410A	R410A
	Charge			(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			12,200	12,200	12,200
Power Supply			Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	1,000	1,000	1,000
	Actual Longest Piping Length 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	151.2	156.8	162.4	168.0
	Heating	Nom	kW	170.1	176.0	182.7	189.0
Power Input ¹⁾	Cooling	Nom	kW	34.39	36.52	36.55	38.43
	Heating	Nom	kW	38.85	40.94	42.45	44.46
EER ¹⁾	Cooling	Nom		4.40	4.29	4.44	4.37
COP ¹⁾	Heating	Nom		4.38	4.30	4.30	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	6	6
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 3	290 x 3	290 x 3	290 x 3
Sound Pressure	Cooling	Nom	dBA	64.1	64.1	64.3	64.3
	Heating	Nom	dBA	64.1	64.1	64.3	64.3
Sound Power	Cooling	Nom	dBA	87.5	87.5	87.8	87.8
	Heating	Nom	dBA	87.5	87.5	87.8	87.8
Dimensions		W x H x D	mm	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3
Net Weight			kg	280 x 2 + 245 x 1	280 x 2 + 245 x 1	280 x 3	280 x 3
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	12,200	12,200	13,200	13,200
Power Supply			Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	1,000	1,000	1,000	1,000
	Actual Longest Piping Length 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	173.6	179.2	184.8	190.4	196.0	
	Heating	Nom	kW	194.9	201.6	207.5	214.2	220.1	
Power Input ¹⁾	Cooling	Nom	kW	39.37	39.40	41.53	43.16	45.29	
	Heating	Nom	kW	42.53	44.04	46.13	48.06	50.15	
EER ¹⁾	Cooling	Nom		4.41	4.55	4.45	4.41	4.33	
COP ¹⁾	Heating	Nom		4.58	4.58	4.50	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			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	
Airflow Rate	Cooling	Max	m³/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4	
Sound Pressure	Cooling	Nom	dBA	65.2	65.3	65.3	65.3	65.3	
	Heating	Nom	dBA	65.2	65.3	65.3	65.3	65.3	
Sound Power	Cooling	Nom	dBA	88.3	88.5	88.5	88.5	88.5	
	Heating	Nom	dBA	88.3	88.5	88.5	88.5	88.5	
Dimensions	W x H x D		mm	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	
Net Weight		kg		280 x 1 + 245 x 3	280 x 2 + 245 x 2	280 x 2 + 245 x 2	280 x 2 + 245 x 2	280 x 2 + 245 x 2	
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	
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	
	Control			cc	14,600	15,600	15,600	15,600	
Power Supply	Ø / 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 x 1.0~1.5	2C x 1.0~1.5	2C x 1.0~1.5	2C x 1.0~1.5	
Piping Length	Total	Max	m	1,000	1,000	1,000	1,000	1,000	
	Actual Longest Piping Length 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	64	
Ratio of the Connectable Indoor Units		Min ~ Max	50 ~ 130%	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	201.6	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	45.32	47.45	47.48	49.36	51.24	
	Heating	Nom	kW	51.66	53.75	55.26	57.27	59.28	
EER ¹⁾	Cooling	Nom		4.45	4.37	4.48	4.42	4.37	
COP ¹⁾	Heating	Nom		4.39	4.33	4.33	4.29	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	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	
	Heating	Min ~ Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Number of Compressor			7	7	8	8	8	
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan	
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor	
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	
Airflow Rate	Cooling	Max	m³/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4	
Sound Pressure	Cooling	Nom	dBA	65.4	65.4	65.5	65.5	65.5	
	Heating	Nom	dBA	65.4	65.4	65.5	65.5	65.5	
Sound Power	Cooling	Nom	dBA	88.8	88.8	89.0	89.0	89.0	
	Heating	Nom	dBA	88.8	88.8	89.0	89.0	89.0	
Dimensions			W x H x D	mm	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	
Net Weight			kg		280 x 3 + 245 x 1	280 x 3 + 245 x 1	280 x 4	280 x 4	
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A	
	Charge			kg	10.5 x 4	10.5 x 4	10.5 x 4	10.5 x 4	
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	
	Control			cc	16,600	16,600	17,600	17,600	
Power Supply				Ø / 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 x 1.0~1.5	2C x 1.0~1.5	2C x 1.0~1.5	2C x 1.0~1.5	
Piping Length	Total	Max	m	1,000	1,000	1,000	1,000	1,000	
	Actual Longest Piping Length 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)	
	Gas			mm (inch)	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	
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)

Note :

- 1) Eurovent Test Condition :
 - 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°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 × EER_{100%} + 0.33 × EER_{75%} + 0.41 × EER_{50%} + 0.23 × EER_{25%}
* Test Condition : This figure calculate based on the Eurovent Chiller test condition (=Temperature condition and Rating figure)
* Indoor combination & Piping installation condition : Testedby ISO standard (=LG combination)

- 4) () is Equivalent Piping length
- 5) () is 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%

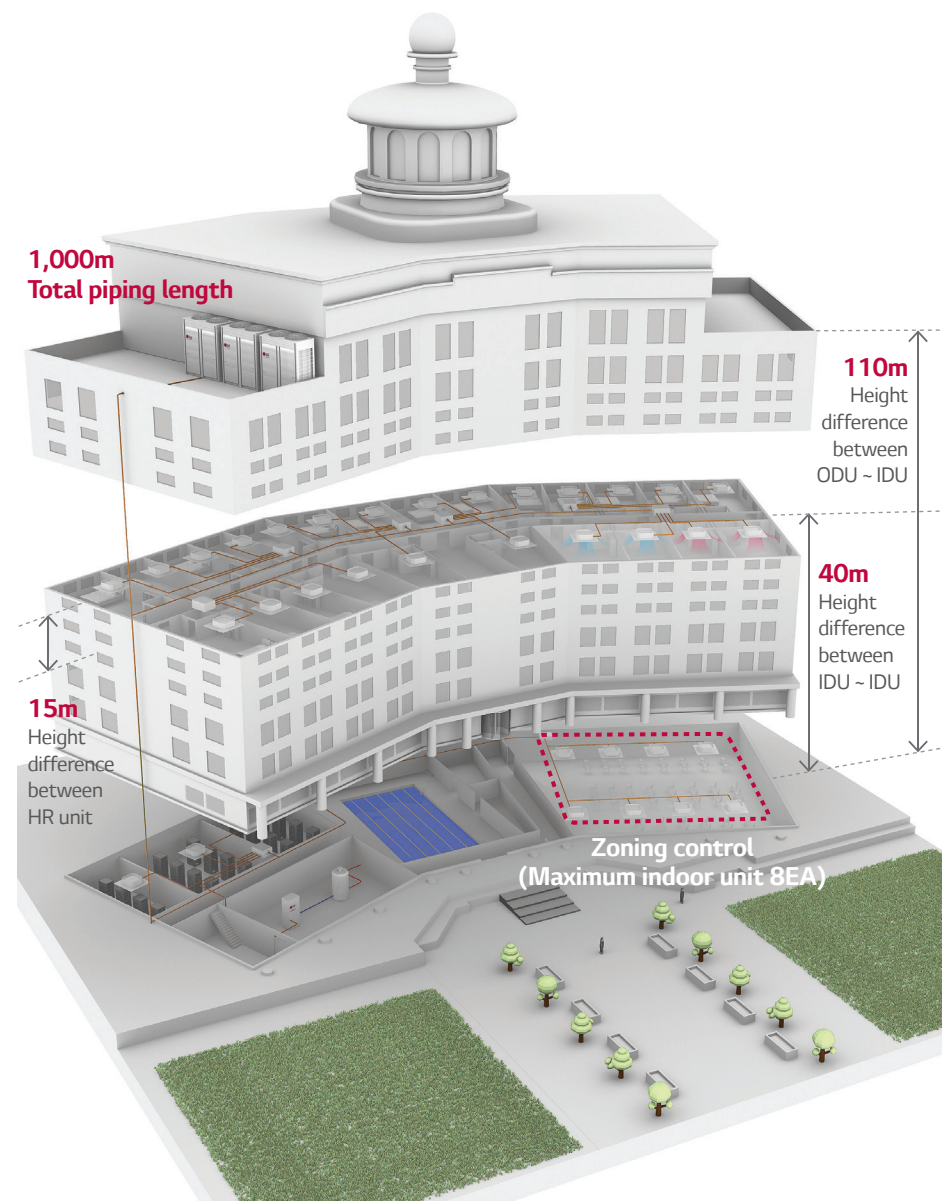
We can guarantee the operation only within 130% Combination.
If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

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

OUTDOOR UNIT

MULTI V IV

Heat Recovery

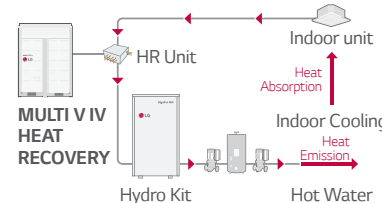


MULTI V™ IV

1. Piping Capabilities

Total Piping Length	1,000m
Actual longest piping length (Equivalent)	200m (225m)
Longest piping length after 1 st 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

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

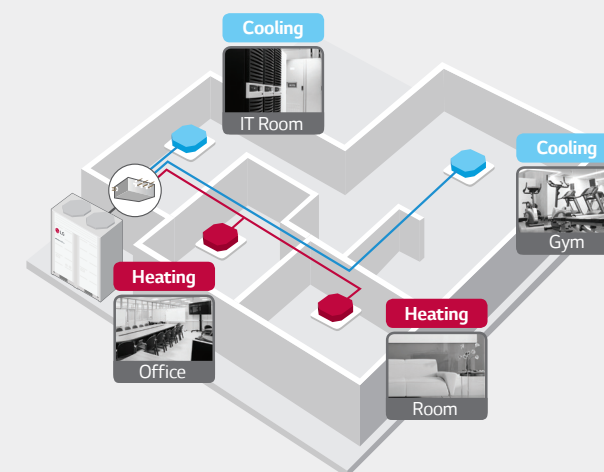
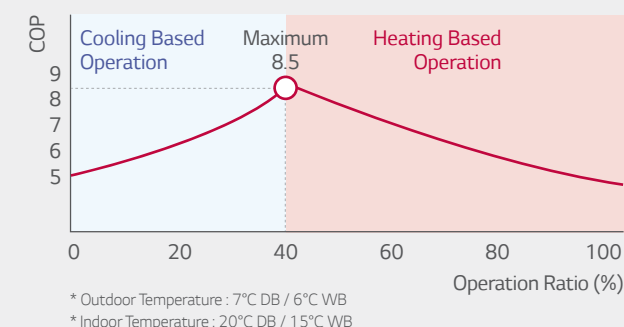
- Hotel / Resort
- Hospital
- Dormitory

EFFICIENCY

Taking energy efficiency to the next level with the latest heat recovery systems

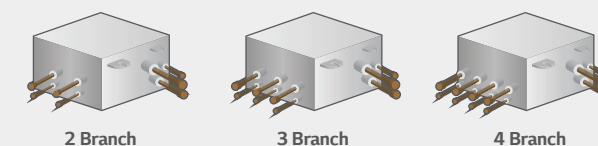
Simultaneous Operation with High Efficiency

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

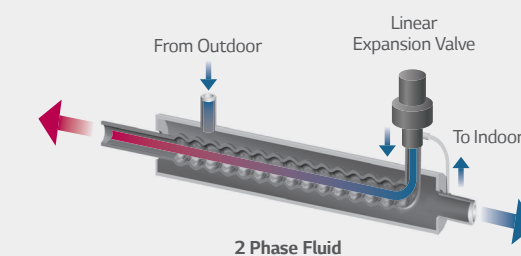


High Efficiency Heat Recovery Unit (HR Unit)

- Adapting high efficient double spiral tube heat exchanger in heat recovery unit
- Maximum 8 indoor units connectable per a branch
- Up to 16kW per a branch, Maximum 58kW per a HR unit
- Easy installation with auto piping detect function
- Access allowed to internal parts for service.



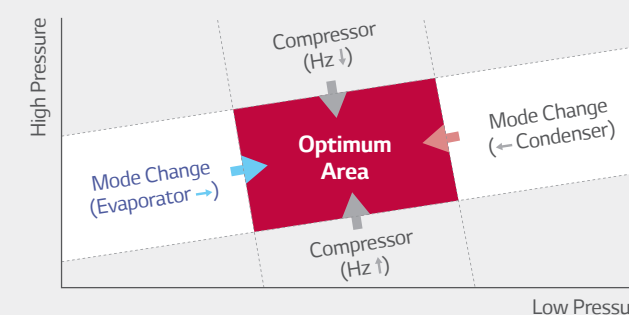
Double spiral tube heat exchanger



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

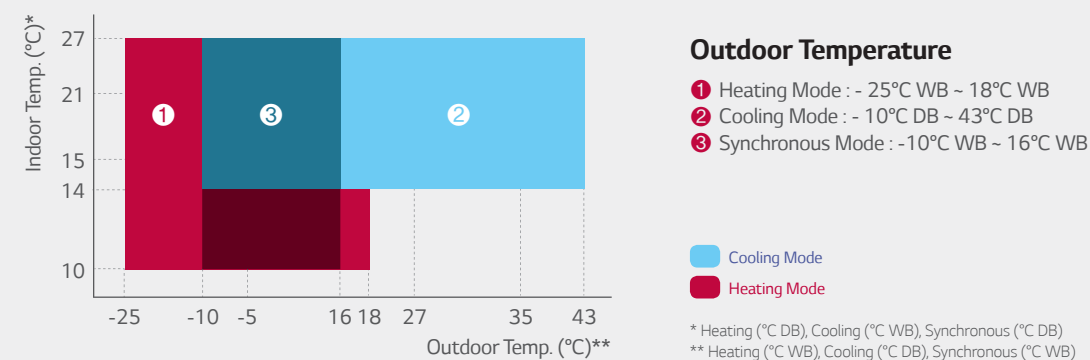


PERFORMANCE

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

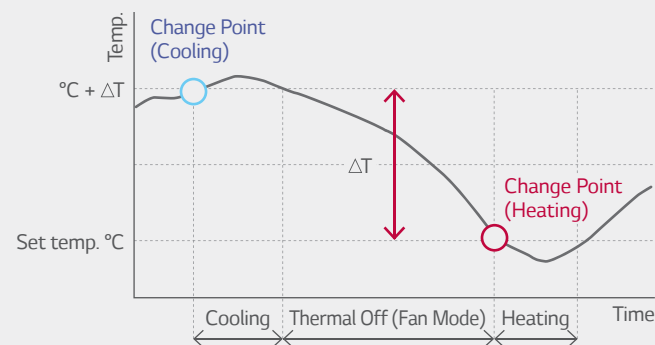
Wide Operation Range

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



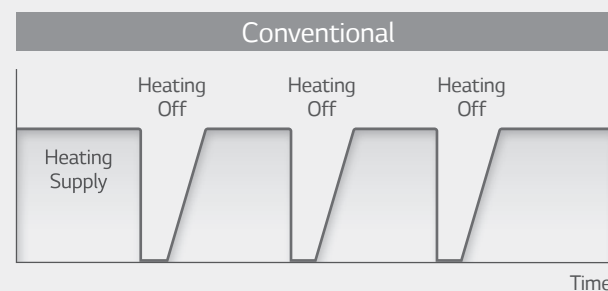
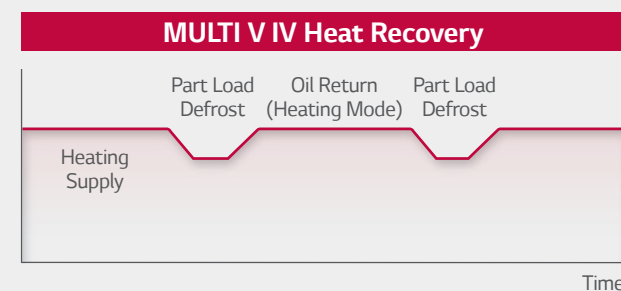
Auto Changeover

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



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

FLEXIBLE DESIGN

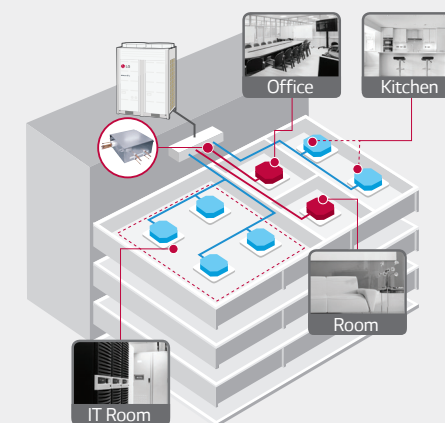
Easy design with the most convenient features

Flexible Connection of Heat Recovery Unit

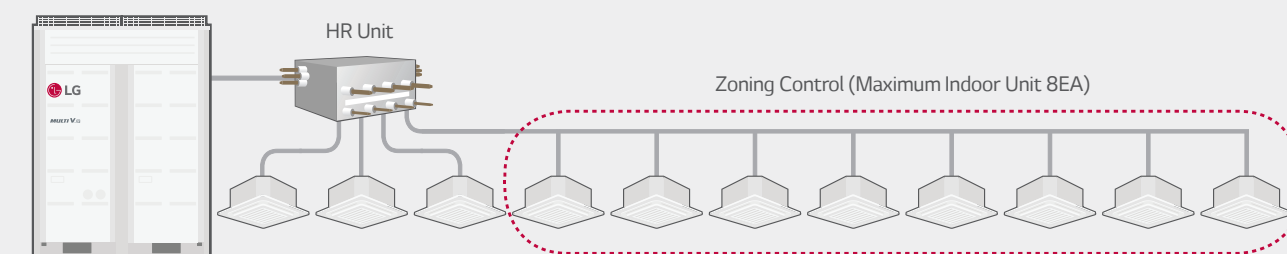
LG's heat recovery unit allows flexible connection both in series and in a row. MULTI V Heat Recovery unit allows flexible connection both in series and in a row.

Zone Control

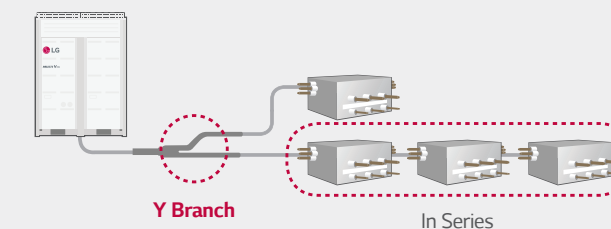
- Up to 8 indoor units can be connected to a branch, Maximum 32 indoor units can be connected to a HR unit
- Same operation mode can be operated for zone control function
- Save installation cost



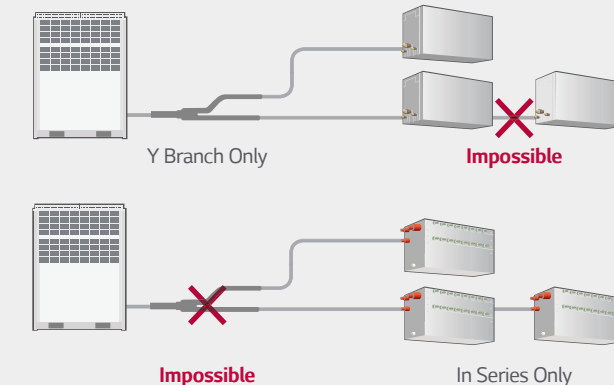
Zoning Control



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	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min ~ Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	210	210	210
Sound Pressure	Cooling	Nom	dBA	58.5	59.0	59.0
	Heating	Nom	dBA	58.5	59.0	59.0
Sound Power	Cooling	Nom	dBA	78.0	78.0	79.0
	Heating	Nom	dBA	78.0	78.0	79.0
Dimensions		W x H x D	mm	(920 × 1,680 × 760) × 1	(920 × 1,680 × 760) × 1	(920 × 1,680 × 760) × 1
Net Weight			kg	202 × 1	208 × 1	208 × 1
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	7.7	7.7	7.7
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control		cc	3,200	3,400	3,400
Power Supply			Ø / 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 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)
	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		20	25	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	39.2	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	11.30	12.49	14.82
EER ¹⁾	Cooling	Nom		4.47	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	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C
	Heating	Min ~ Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	2	2
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290	290	290	290
Sound Pressure	Cooling	Nom	dBA	59.0	59.0	59.5	59.5
	Heating	Nom	dBA	59.0	59.0	59.5	59.5
Sound Power	Cooling	Nom	dBA	82.0	82.0	83.0	83.0
	Heating	Nom	dBA	82.0	82.0	83.0	83.0
Dimensions		W x H x D	mm	(1,240 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 1
Net Weight			kg	245 × 1	245 × 1	280 × 1	280 × 1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge			kg	10.7	10.7	10.7
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	3,400	4,400	4,400
Power Supply			Ø / 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	1,000	1,000	1,000	1,000
	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)
	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		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)

** ARUB180LTE4 / ARUB200LTE4 units are excluded from Eurovent certified capacity range



ARUB220LTE4 / ARUB240LTE4



HP				22	24	
Model	Combination Unit			ARUB220LTE4	ARUB240LTE4	
	Independent Unit			ARUB120LTE4	ARUB120LTE4	
				ARUB100LTE4	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			8mmAq (80Pa)	8mmAq (80Pa)	
Airflow Rate	Cooling	Max	m³/min	210 x 2	210 x 2	
Sound Pressure	Cooling	Nom	dBA	62.0	62.0	
	Heating	Nom	dBA	62.0	62.0	
Sound Power	Cooling	Nom	dBA	81.5	82.0	
	Heating	Nom	dBA	81.5	82.0	
Dimensions	W x H x D		mm	(920 x 1,680 x 760) x 2	(920 x 1,680 x 760) x 2	
Net Weight			kg	208 x 2	208 x 2	
Refrigerant	Type			R410A	R410A	
	Charge			7.7 x 2	7.7 x 2	
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	
	Control			cc	6,800	
Power Supply			Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	
Transmission Cable (VCTF-SB)				No. x mm²	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	1,000	1,000	
	Actual Longest Piping Length 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)	
	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%		

* 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			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
				ARUB120LTE4	ARUB120LTE4	ARUB120LTE4	ARUB120LTE4
Capacity	Cooling	Nom	kW	72.8	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	19.81	21.32	23.33
EER ¹⁾	Cooling	Nom		4.45	4.24	4.54	4.39
COP ¹⁾	Heating	Nom		4.62	4.43	4.43	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			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 + 210	290 + 210	290 + 210	290 + 210
Sound Pressure	Cooling	Nom	dBA	62.0	62.0	62.3	62.3
	Heating	Nom	dBA	62.0	62.0	62.3	62.3
Sound Power	Cooling	Nom	dBA	83.8	83.8	84.5	84.5
	Heating	Nom	dBA	83.8	83.8	84.5	84.5
Dimensions			W x H x D	(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	10.7 + 7.7	10.7 + 7.7	10.7 + 7.7	10.7 + 7.7
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control		cc	6,800	6,800	7,800	7,800
Power Supply			Ø / 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	1,000	1,000	1,000	1,000
	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)
	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		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)



ARUB340LTE4 / ARUB360LTE4



HP				34	36
Model	Combination Unit			ARUB340LTE4	ARUB360LTE4
	Independent Unit			ARUB200LTE4	ARUB200LTE4
Capacity				ARUB140LTE4	ARUB160LTE4
	Cooling	Nom	kW	95.2	100.8
Power Input ¹⁾	Heating	Nom	kW	107.1	113.0
	Cooling	Nom	kW	21.58	23.71
EER ¹⁾	Heating	Nom	kW	24.03	26.12
COP ¹⁾	Cooling			4.41	4.25
Power Input ²⁾	Heating			4.46	4.33
	Cooling	Nom	kW	20.02	21.96
EER ²⁾	Heating	Nom	kW	22.96	24.76
COP ²⁾	Cooling			4.76	4.59
ESEER ³⁾	Heating			4.66	4.58
Operation Range			Nom	7.08	7.03
	Cooling	Min ~ Max	°C DB	-10°C ~ 43°C	-10°C ~ 43°C
Compressor	Heating	Min ~ Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C
	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
Fan	Number of Compressor			3	3
	Type			Propeller fan	Propeller fan
Airflow Rate	Motor Type			DC Inverter motor	DC Inverter motor
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)
Sound Pressure	Cooling	Max	m³/min	290 x 2	290 x 2
	Heating	Nom	dBA	62.3	62.3
Sound Power	Cooling	Nom	dBA	62.3	62.3
	Heating	Nom	dBA	85.5	85.5
Dimensions	Cooling	Nom	dBA	85.5	85.5
Net Weight	W x H x D		mm	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2
Refrigerant			kg	280 x 1 + 245 x 1	280 x 1 + 245 x 1
	Type			R410A	R410A
Refrigerant Oil	Charge		kg	10.7 x 2	10.7 x 2
	Type			FVC68D (PVE)	FVC68D (PVE)
Power Supply	Control		cc	7,800	7,800
Transmission Cable (VCTF-SB)			Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Piping Length			No. x mm²	2C x 1.0-1.5	2C x 1.0-1.5
	Total	Max	m	1,000	1,000
	Actual Longest Piping Length ⁴⁾	Max	m	200 (225)	200 (225)
Piping Level Difference	After 1st Y Branch ⁵⁾		Max	40 (90)	40 (90)
	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		64	64
Ratio of the Connectable Indoor Units		Min ~ Max		50 ~ 160%	50 ~ 160%

* This product contains Fluorinated Greenhouse Gases. (R410A)



ARUB380LTE4 / ARUB400LTE4



HP				38	40
Model	Combination Unit			ARUB380LTE4	ARUB400LTE4
	Independent Unit			ARUB200LTE4	ARUB200LTE4
				ARUB180LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	106.4	112.0
	Heating	Nom	kW	119.7	126.0
Power Input ¹⁾	Cooling	Nom	kW	23.74	25.62
	Heating	Nom	kW	27.63	29.64
EER ¹⁾	Cooling	Nom		4.48	4.37
COP ¹⁾	Heating	Nom		4.33	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			8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2	290 x 2
Sound Pressure	Cooling	Nom	dBA	62.5	62.5
	Heating	Nom	dBA	62.5	62.5
Sound Power	Cooling	Nom	dBA	86.0	86.0
	Heating	Nom	dBA	86.0	86.0
Dimensions	W x H x D		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			10.7 × 2	10.7 × 2
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Control			8,800	8,800
Power Supply			Ø / 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 ⁴⁾		Max	200 (225)	200 (225)
	After 1st Y Branch ⁵⁾		Max	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			ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB140LTE4	ARUB140LTE4	ARUB160LTE4
				ARUB100LTE4	ARUB100LTE4	ARUB100LTE4
Capacity	Cooling	Nom	kW	117.6	123.2	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	28.12	30.13	32.22
EER ¹⁾	Cooling	Nom		4.58	4.47	4.34
COP ¹⁾	Heating	Nom		4.70	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			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure	Cooling	Nom	dBA	63.9	63.9	63.9
	Heating	Nom	dBA	63.9	63.9	63.9
Sound Power	Cooling	Nom	dBA	86.2	86.2	86.2
	Heating	Nom	dBA	86.2	86.2	86.2
Dimensions	W x H x D		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 × 1 + 208 × 1	280 × 1 + 245 × 1 + 208 × 1	280 × 1 + 245 × 1 + 208 × 1
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	(10.7 × 2) + 7.7	(10.7 × 2) + 7.7	(10.7 × 2) + 7.7
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control		cc	11,200	11,200	11,200
Power Supply			Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	1,000	1,000	1,000
	Actual Longest Piping Length 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)
	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)



ARUB480LTE4 / ARUB500LTE4 / ARUB520LTE4



HP				48	50	52
Model	Combination Unit			ARUB480LTE4	ARUB500LTE4	ARUB520LTE4
	Independent Unit			ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB100LTE4	ARUB100LTE4	ARUB120LTE4
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	29.72	31.60	33.20
	Heating	Nom	kW	33.73	35.74	38.15
EER ¹⁾	Cooling	Nom		4.52	4.43	4.39
COP ¹⁾	Heating	Nom		4.48	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			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 2 + 210	290 x 2 + 210	290 x 2 + 210
Sound Pressure	Cooling	Nom	dBA	64.1	64.1	64.1
	Heating	Nom	dBA	64.1	64.1	64.1
Sound Power	Cooling	Nom	dBA	86.6	86.6	86.8
	Heating	Nom	dBA	86.6	86.6	86.8
Dimensions	W x H x D		mm	(1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1	(1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1
Net Weight			kg	280 x 2 + 208 x 1	280 x 2 + 208 x 1	280 x 2 + 208 x 1
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	(10.7 × 2) + 7.7	(10.7 × 2) + 7.7	(10.7 × 2) + 7.7
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	12,200	12,200
Power Supply	Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	1,000	1,000	1,000
	Actual Longest Piping Length 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)
	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™ ARUB540LTE4 / ARUB560LTE4
ARUB580LTE4 / ARUB600LTE4

HP				54	56	58	60
Model	Combination Unit			ARUB540LTE4	ARUB560LTE4	ARUB580LTE4	ARUB600LTE4
	Independent Unit			ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4
				ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB200LTE4
Capacity	Cooling	Nom	kW	151.2	156.8	162.4	168.0
	Heating	Nom	kW	170.1	176.0	182.7	189.0
Power Input ¹⁾	Cooling	Nom	kW	34.39	36.52	36.55	38.43
	Heating	Nom	kW	38.85	40.94	42.45	44.46
EER ¹⁾	Cooling	Nom		4.40	4.29	4.44	4.37
COP ¹⁾	Heating	Nom		4.38	4.30	4.30	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	6	6
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)
Airflow Rate	Cooling	Max	m³/min	290 x 3	290 x 3	290 x 3	290 x 3
Sound Pressure	Cooling	Nom	dBA	64.1	64.1	64.3	64.3
	Heating	Nom	dBA	64.1	64.1	64.3	64.3
Sound Power	Cooling	Nom	dBA	87.5	87.5	87.8	87.8
	Heating	Nom	dBA	87.5	87.5	87.8	87.8
Dimensions		W x H x D	mm	(1,240 × 1,680 × 760) × 3	(1,240 × 1,680 × 760) × 3	(1,240 × 1,680 × 760) × 3	(1,240 × 1,680 × 760) × 3
Net Weight			kg	280 × 2 + 245 × 1	280 × 2 + 245 × 1	280 × 3	280 × 3
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge		kg	10.7 × 3	10.7 × 3	10.7 × 3	10.7 × 3
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control		cc	12,200	12,200	13,200	13,200
Power Supply			Ø / 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	1,000	1,000	1,000	1,000
	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	110
	IDU - IDU	Max	m	40	40	40	40
Piping Connection	Liquid		mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Low Pressure Gas		mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
	High Pressure Gas		mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Number of Outdoor Units				3	3	3	3
Number of Connectable Indoor Units		Max		64	64	64	64
Ratio of the Connectable Indoor Units		Min ~ Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%

* This product contains Fluorinated Greenhouse Gases. (R410A)

MULTI V™ ARUB620LTE4 / ARUB640LTE4 / ARUB660LTE4
ARUB680LTE4 / ARUB700LTE4

HP				62	64	66	68	70	
Model	Combination Unit			ARUB620LTE4	ARUB640LTE4	ARUB660LTE4	ARUB680LTE4	ARUB700LTE4	
	Independent Unit				ARUB180LTE4	ARUB180LTE4	ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
					ARUB160LTE4	ARUB180LTE4	ARUB180LTE4	ARUB200LTE4	ARUB200LTE4
					ARUB140LTE4	ARUB140LTE4	ARUB160LTE4	ARUB140LTE4	ARUB160LTE4
					ARUB140LTE4	ARUB140LTE4	ARUB140LTE4	ARUB140LTE4	ARUB140LTE4
Capacity	Cooling	Nom	kW	173.6	179.2	184.8	190.4	196.0	
	Heating	Nom	kW	194.9	201.6	207.5	214.2	220.1	
Power Input ¹⁾	Cooling	Nom	kW	39.37	39.40	41.53	43.16	45.29	
	Heating	Nom	kW	42.53	44.04	46.13	48.06	50.15	
EER ¹⁾	Cooling	Nom		4.41	4.55	4.45	4.41	4.33	
COP ¹⁾	Heating	Nom		4.58	4.58	4.50	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			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	
Airflow Rate	Cooling	Max	m³/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4	
	Heating	Nom	dBA	65.2	65.3	65.3	65.3	65.3	
Sound Pressure	Heating	Nom	dBA	65.2	65.3	65.3	65.3	65.3	
	Cooling	Nom	dBA	88.3	88.5	88.5	88.5	88.5	
Sound Power	Heating	Nom	dBA	88.3	88.5	88.5	88.5	88.5	
	Heating	Nom	dBA	88.3	88.5	88.5	88.5	88.5	
Dimensions		W x H x D	mm	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	
Net Weight			kg	280 x 1 + 245 x 3	280 x 2 + 245 x 2	280 x 2 + 245 x 2	280 x 2 + 245 x 2	280 x 2 + 245 x 2	
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A	
	Charge			10.7 x 4	10.7 x 4	10.7 x 4	10.7 x 4	10.7 x 4	
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	
	Control			cc	14,600	15,600	15,600	15,600	
Power Supply			Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	
Piping Length	Total	Max	m	1,000	1,000	1,000	1,000	1,000	
	Actual Longest Piping Length 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)	
	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			ARUB720LTE4	ARUB740LTE4	ARUB760LTE4	ARUB780LTE4	ARUB800LTE4	
	Independent Unit			ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	
				ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	ARUB200LTE4	
				ARUB180LTE4	ARUB180LTE4	ARUB180LTE4	ARUB200LTE4	ARUB200LTE4	
			ARUB140LTE4	ARUB160LTE4	ARUB180LTE4	ARUB180LTE4	ARUB200LTE4		
Capacity	Cooling	Nom	kW	201.6	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	45.32	47.45	47.48	49.36	51.24	
	Heating	Nom	kW	51.66	53.75	55.26	57.27	59.28	
EER ¹⁾	Cooling	Nom		4.45	4.37	4.48	4.42	4.37	
COP ¹⁾	Heating	Nom		4.39	4.33	4.33	4.29	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	°C DB	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	-10°C ~ 43°C	
	Heating	Min – Max	°C WB	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	-25°C ~ 18°C	
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Number of Compressor			7	7	8	8	8	
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan	
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor	DC Inverter motor	
	Max Static Pressure			8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	8mmAq (80Pa)	
Airflow Rate	Cooling	Max	m³/min	290 x 4	290 x 4	290 x 4	290 x 4	290 x 4	
Sound Pressure	Cooling	Nom	dBA	65.4	65.4	65.5	65.5	65.5	
	Heating	Nom	dBA	65.4	65.4	65.5	65.5	65.5	
Sound Power	Cooling	Nom	dBA	88.8	88.8	89.0	89.0	89.0	
	Heating	Nom	dBA	88.8	88.8	89.0	89.0	89.0	
Dimensions			W x H x D	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	
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	10.7 x 4	10.7 x 4	10.7 x 4	10.7 x 4	
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	
	Control			cc	16,600	16,600	17,600	17,600	
Power Supply			Ø / 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	1,000	1,000	1,000	1,000	1,000	
	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	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 :
 - 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°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 × EER_{100%} + 0.33 × EER_{75%} + 0.41 × EER_{50%} + 0.23 × EER_{25%}
* Test Condition : This figure calculate based on the Eurovent Chiller test condition (=Temperature condition and Rating figure)
* Indoor combination & Piping installation condition : Testedby ISO standard (=LG combination)

- 4) () is Equivalent Piping length
- 5) () is 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

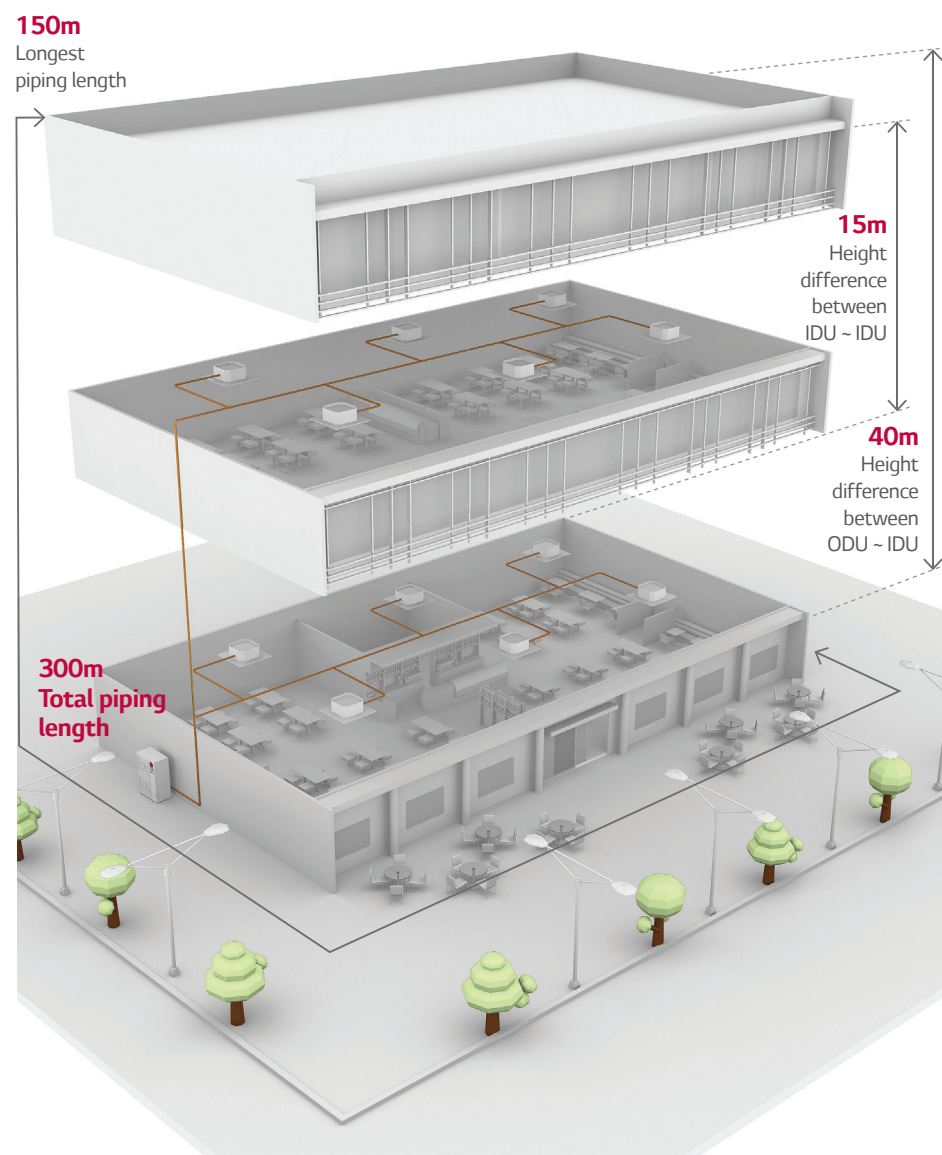
- A combination operation over 100% cause to reduce each indoor unit capacity
- Combination ratio (50 ~ 200%)

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 contact us and discuss the requirement like below.

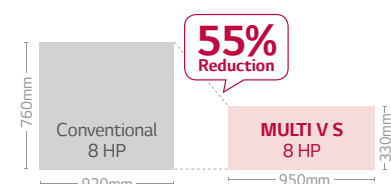
- 1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.
- 2) Over 130%, capacity is same as capacity of 130%. Same remark is valid for power input.

OUTDOOR UNIT MULTI V S



MULTI VTM S

1. Compact Size



2. Piping Capabilities

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

* In case of outdoor unit installed lower than indoor unit
** In case of outdoor unit installed upper than indoor unit

3. Operation Range

- Heating : -20 ~ 18°C WB
- Cooling : -5 ~ 43°C DB

Benefit

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

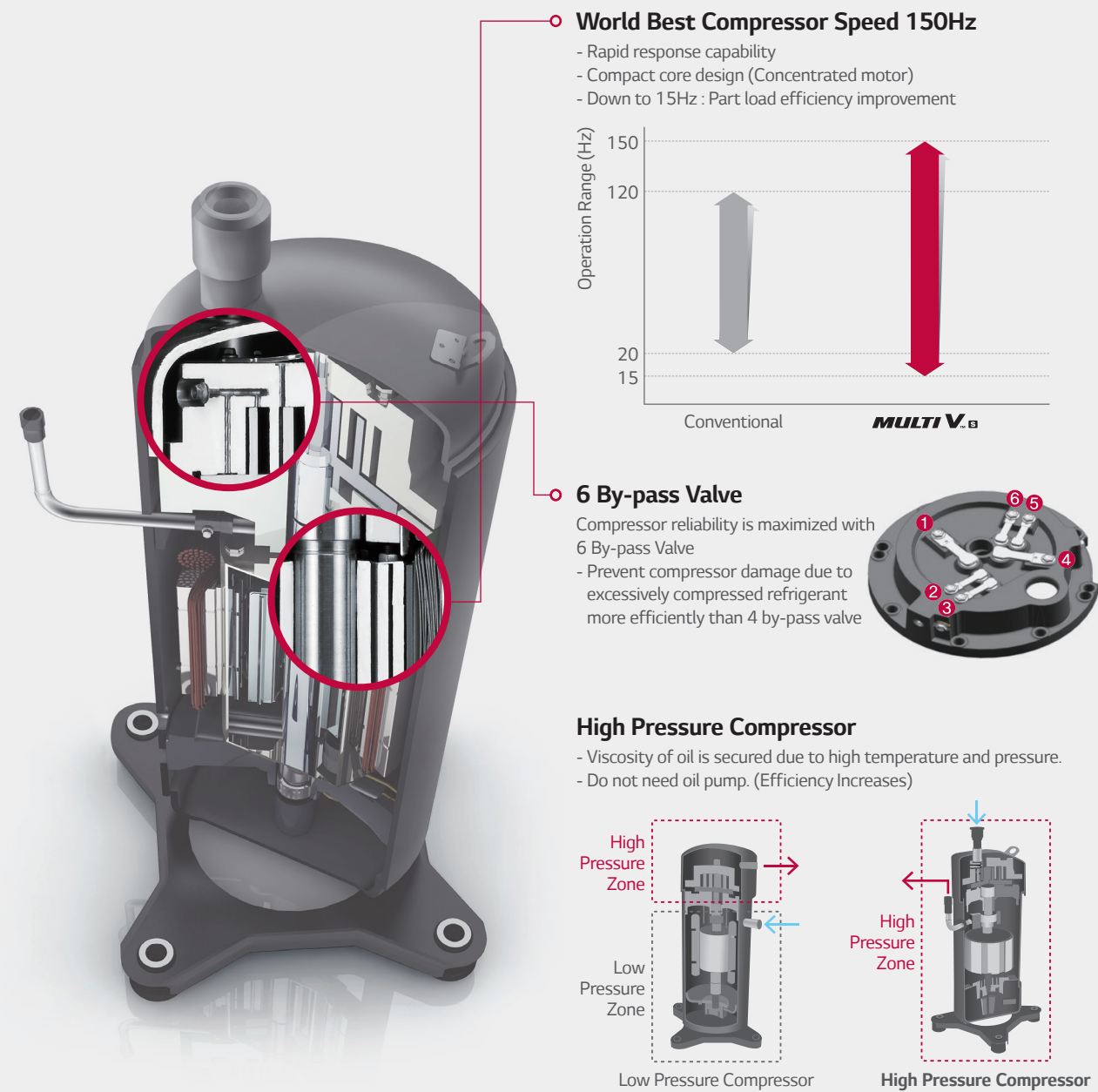
Application

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

EFFICIENCY

LG's 4th Generation Inverter Compressor

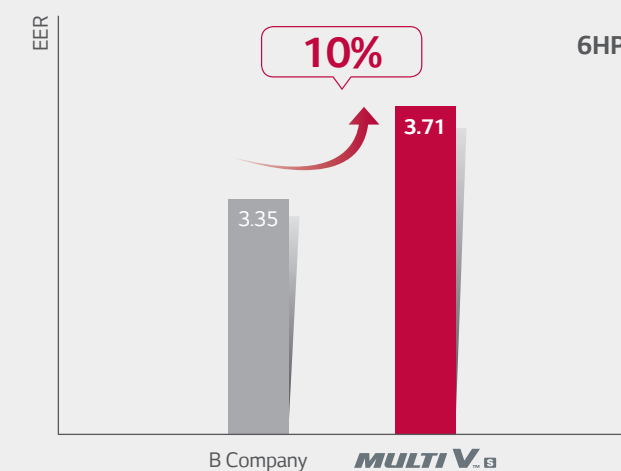
MULTI V S has high efficiency inverter scroll compressor with frequency range 15Hz ~ 150Hz.



EFFICIENCY

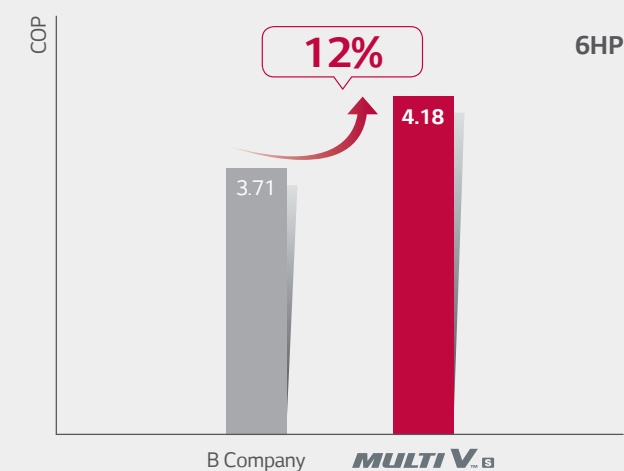
High Efficiency

EER (Cooling)



* Comparison Based on 6HP in cooling mode

COP (Heating)



* Comparison Based on 6HP in heating mode

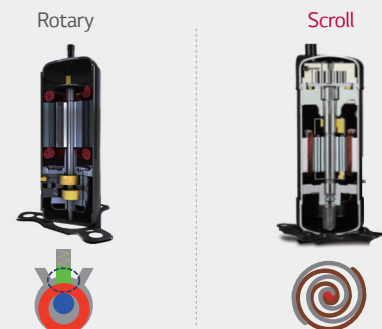
Reliable Inverter Compressor

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

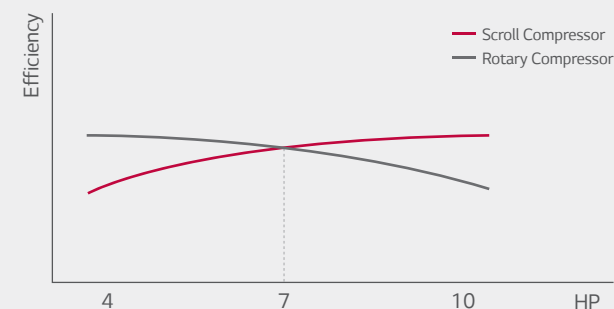
MULTI V™ S

High reliability and efficiency at all capacity

- Below 7HP : Rotary compressor
- Upper 7HP : Scroll compressor



Compressor Efficiency Comparison



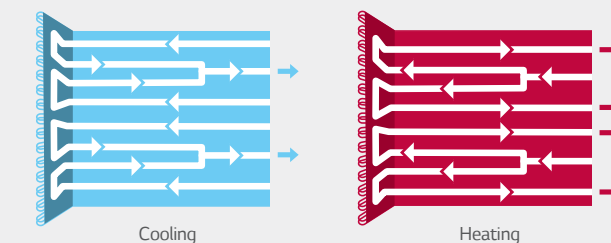
* Based on internal test data

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%).

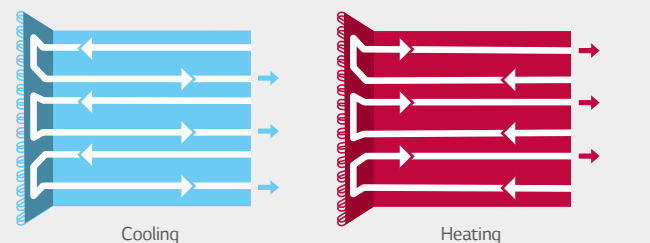
MULTI V. B

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

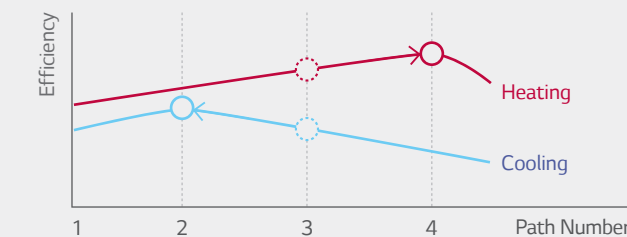


Conventional

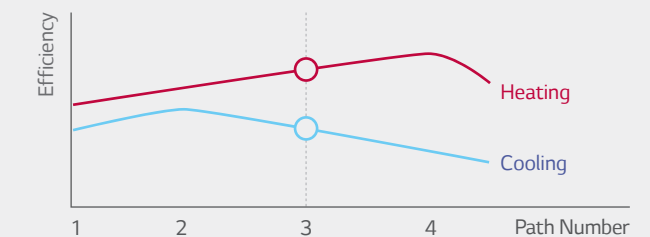
The number and direction of path are fixed independent of temperature and operation mode. A fixed path limits efficiency



Maximizing efficiency for all operations



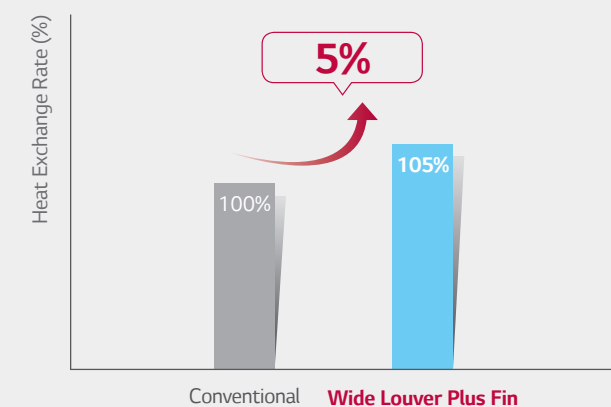
Compromising efficiency for each operation



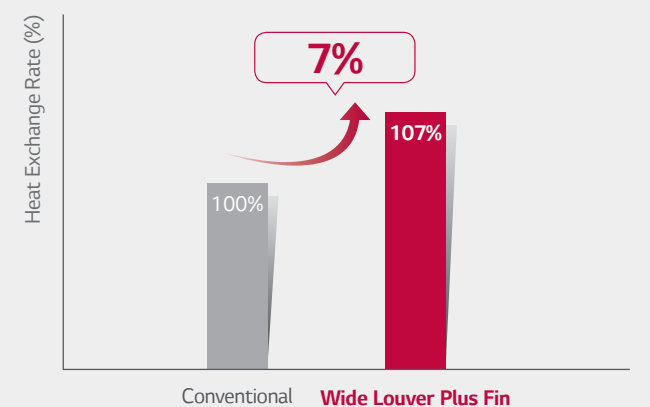
Heat Exchanger with Wide Louver Plus Fin

Improved heat exchanger efficiency of up to 7%.

Cooling



Heating



EFFICIENCY

Pressure Sensor

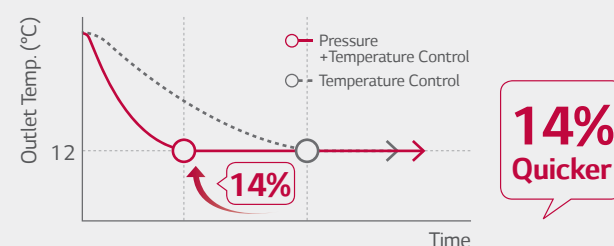
Temperature + Pressure Control



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

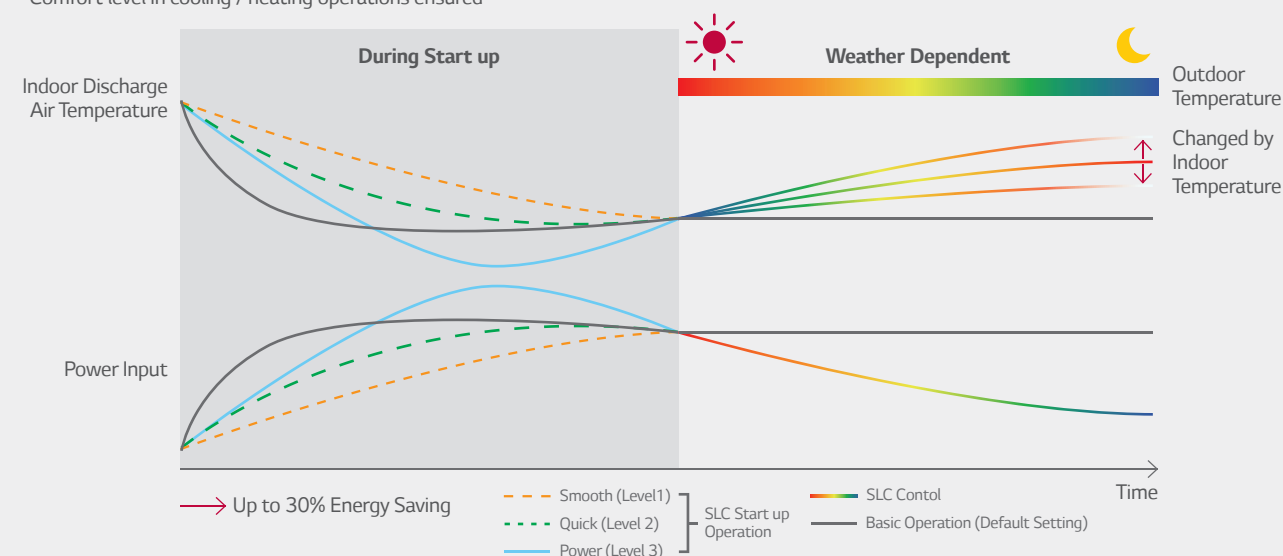
Smart Load Control

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

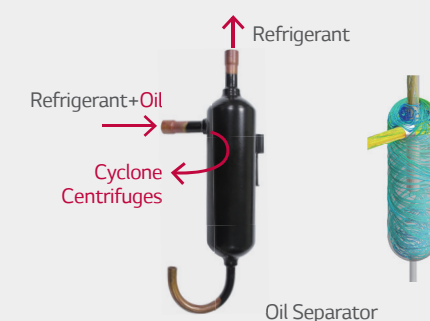
Always ahead of the competition and on the leading edge of innovation with powerful heating and unsurpassed cooling performance

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



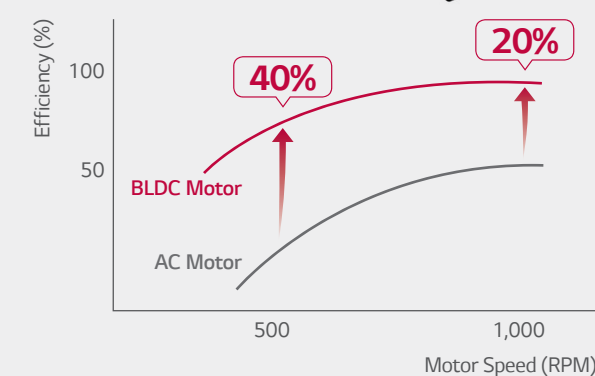
2. Large Volume Accumulator

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



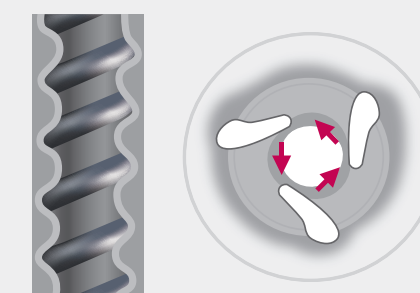
3. BLDC Fan Motor

- 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 175m) and high elevation (up to 50m)
- 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

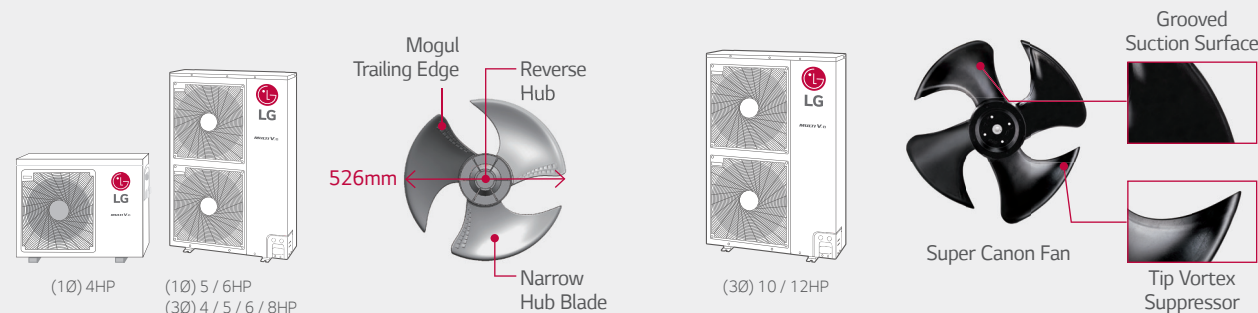
Fan Technology and E.S.P. Control

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

Fan Technology

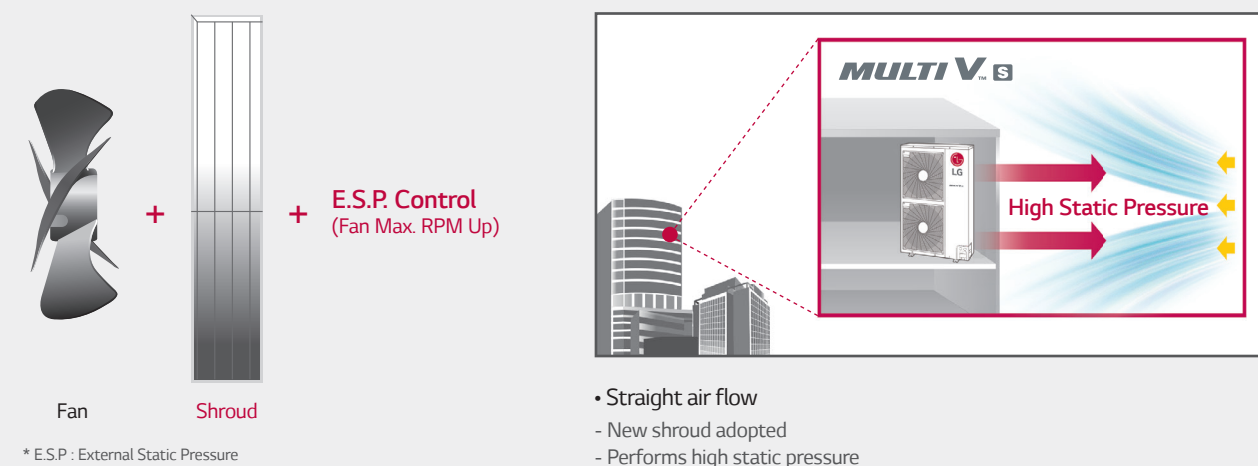
The new axial fan has a mogul trailing edge, narrow hub blade and reverse hub, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.

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



High E.S.P. Technology

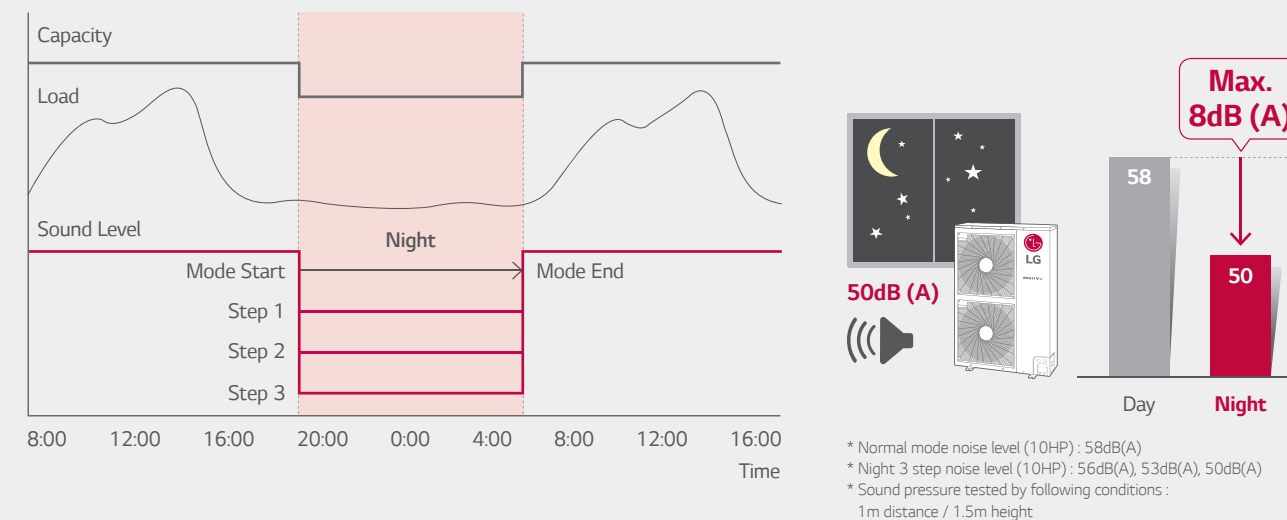
Flow of air has straightness due to fan shroud and E.S.P. control even in high-rise building.



* E.S.P : External Static Pressure

Night Silent Operation

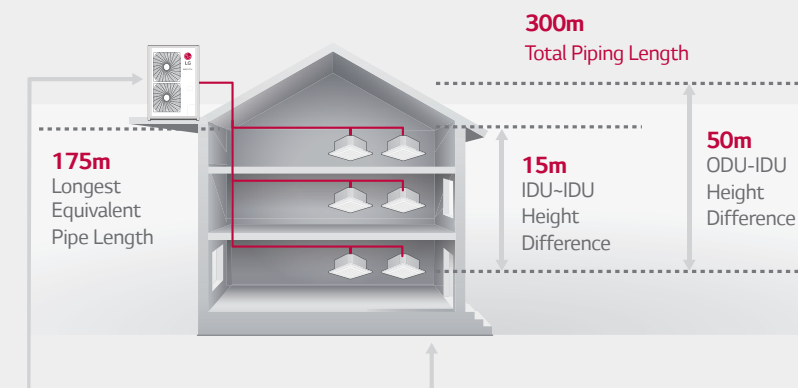
At night mode, noise reduced maximum 14% compared to normal mode.



Expanded Piping Capabilities

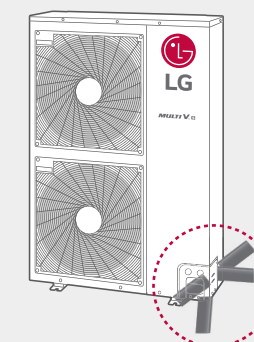
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient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

Piping Capabilities



4 Way Piping

- Free design and installation by 4 way piping.

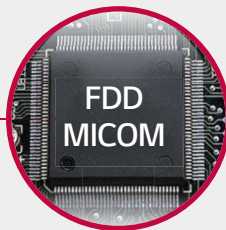
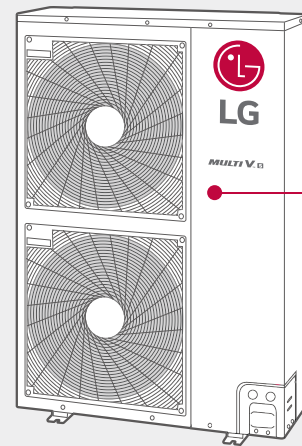


CONVENIENCE

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.



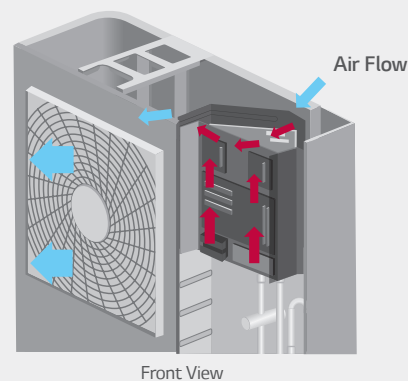
- Auto commissioning Mode
- Auto Refrigerant Collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function
- Piping & Wiring error check-up

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

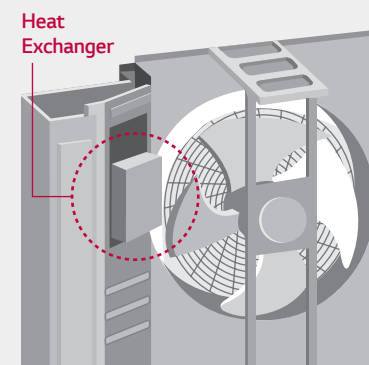
- Feature of control box is diagonal shape, it makes naturally air flowing (Directly pulling air back of the fan)
- Reduced Heating / Cooling efficiency loss



Front View

Heat Exchanger Technology

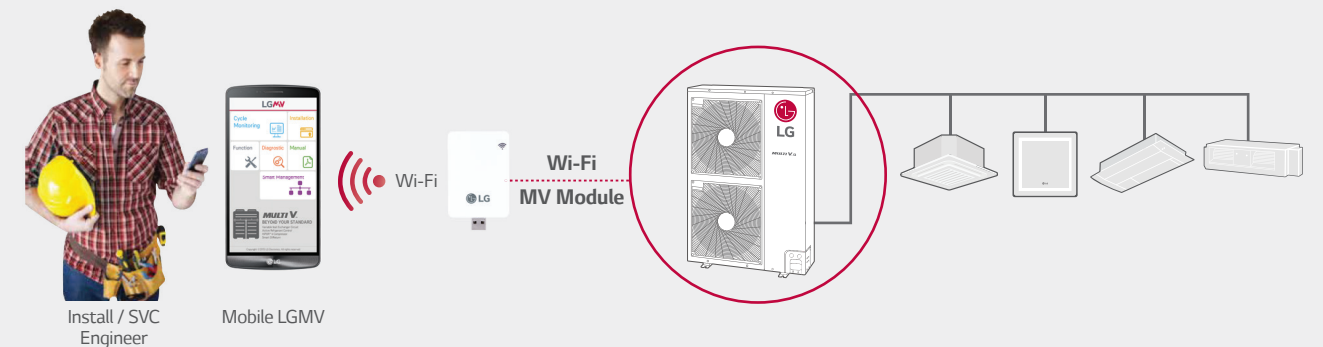
- Heat exchanger structure
- Optimal air flow by aluminum heat exchanger on control box.



Rear View

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.



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 Distanced
Mobile LGMV	iOS (iPad Only)	AppiOS 8.0 / 8.1	2,048 x 1,536 (Optimization), 1,024 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 1,280, 768 x 1,280, 768 x 1,024, 1,080 x 1,920	

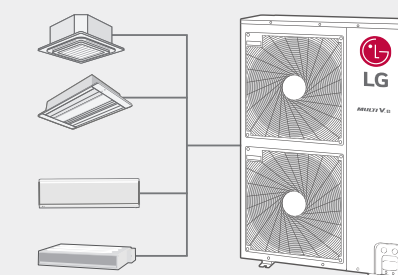
With Home Network System

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

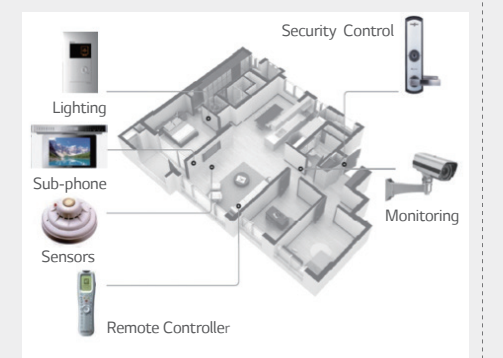
- Basic Control (On / Off, Mode, Setting Temp, Fan Speed)
- Lock Function, Error Code



* PI485 is embedded

Interlocking
BACnet
LonWorks
Modbus
KNX Gateway
Dry Contact
RS485 Comm

3rd Party Home Network System



MULTI V™ S

ARUN040GSS0



1Ø 4HP

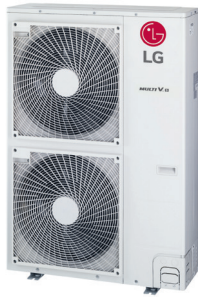
1Ø / 220V

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
ESEER		Nom		6.92
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	Cooling	Nom	dBA	50
	Heating	Nom	dBA	52
Sound Power	Cooling	Nom	dBA	66
Dimensions		W x H x D	mm	950 x 834 x 330
Net Weight			kg	69
Refrigerant	Type			R410A
	Charge		kg	1.8
Refrigerant Oil	Type			FVC68D (PVE)
	Control		cc	1,300
Power Supply			Ø / V / Hz	1 / 220-240 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm²	2C x 1.0-1.5
Piping Length	Total	Max	m	300
	Actual Longest Piping Length ²⁾	Max	m	150 (175)
	After 1st Y Branch	Max	m	40
Piping Level Difference	IDU - ODU ³⁾	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
2) () is Equivalent Piping length
3) In case of outdoor unit installed upper than indoor unit (More detailed information, please refer to the "Installation of outdoor units" part in PDB)
* 4HP Outdoor unit is not connectable with Hydro Kit
* Due to our policy of innovation some specifications may be changed without notification.

MULTI V™ S

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
ESEER		Nom		7.88	7.29
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	Cooling	Nom	dBA	51	52
	Heating	Nom	dBA	53	54
Sound Power	Cooling	Nom	dBA	67	69
Dimensions		W x H x D	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			Ø / V / Hz	1 / 220-240 / 50, 60	1 / 220-240 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm²	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length ²⁾	Max	m	150 (175)	150 (175)
	After 1st Y Branch	Max	m	40	40
Piping Level Difference	IDU - ODU ³⁾	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
2) () is Equivalent Piping length
3) In case of outdoor unit installed upper than indoor unit (More detailed information, please refer to the "Installation of outdoor units" part in PDB)
* 4HP Outdoor unit is not connectable with Hydro Kit
* Due to our policy of innovation some specifications may be changed without notification.

MULTI V™ S

ARUN040LSS0 / ARUN050LSS0 / ARUN060LSS0



3Ø 4HP, 5HP, 6HP

3Ø / 380V

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
ESEER		Nom		8.11	7.20	7.29
Operation Range	Cooling	Min ~ Max	°C DB	-5°C ~ 43°C	-5°C ~ 43°C	-5°C ~ 43°C
	Heating	Min ~ Max	°C WB	-20°C ~ 18°C	-20°C ~ 18°C	-20°C ~ 18°C
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	Cooling	Nom	dBA	50	51	52
	Heating	Nom	dBA	52	53	54
Sound Power	Cooling	Nom	dBA	66	67	69
Dimensions		W x H x D	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			Ø / 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 (175)	150 (175)	150 (175)
	After 1st Y Branch	Max	m	40	40	40
Piping Level Difference	IDU - ODU ³⁾	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

2) () is Equivalent Piping length

3) In case of outdoor unit installed upper than indoor unit (More detailed information, please refer to the "Installation of outdoor units" part in PDB)

* 4HP Outdoor unit is not connectable with Hydro Kit

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

MULTI V™ S

ARUN080LSS0 / ARUN100LSS0 / ARUN120LSS0



3Ø 8HP, 10HP, 12HP

3Ø / 380V

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
ESEER		Nom		7.05	6.58	6.38
Operation Range	Cooling	Min ~ Max	°C DB	-5°C ~ 43°C	-5°C ~ 43°C	-5°C ~ 43°C
	Heating	Min ~ Max	°C WB	-20°C ~ 18°C	-20°C ~ 18°C	-20°C ~ 18°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Type			DC Inverter motor	DC Inverter motor	DC Inverter motor
	Max Static Pressure			3mmAq (30Pa)	3mmAq (30Pa)	3mmAq (30Pa)
Airflow Rate	Cooling	Max	m³/min	140	190	190
Sound Pressure	Cooling	Nom	dBA	57	58	60
	Heating	Nom	dBA	57	58	60
Sound Power	Cooling	Nom	dBA	74	77	78
Dimensions		W x H x D	mm	950 x 1,380 x 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			Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300	300
	Actual Longest Piping Length ²⁾	Max	m	150 (175)	150 (175)	150 (175)
	After 1st Y Branch	Max	m	40	40	40
Piping Level Difference	IDU - ODU ³⁾	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

2) () is Equivalent Piping length

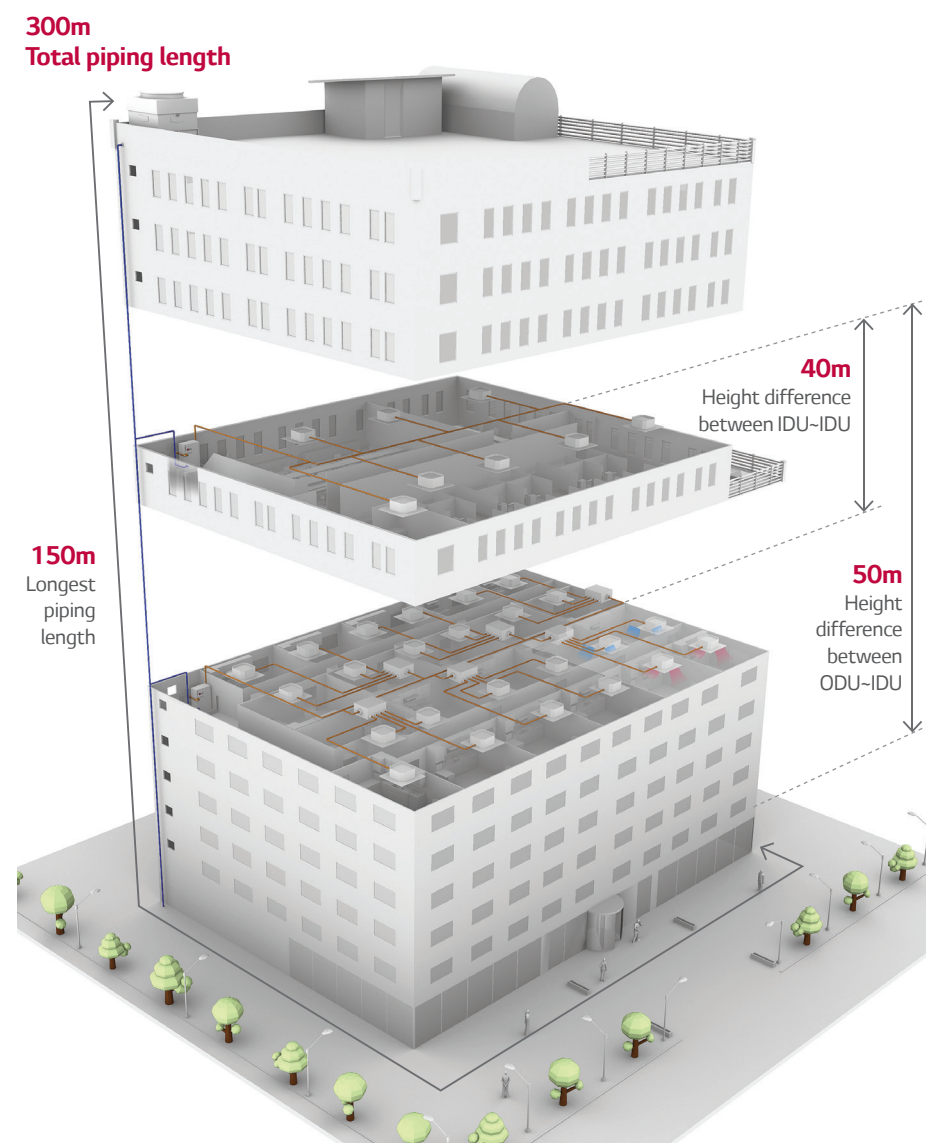
3) In case of outdoor unit installed upper than indoor unit (More detailed information, please refer to the "Installation of outdoor units" part in PDB)

* 4HP Outdoor unit is not connectable with Hydro Kit

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

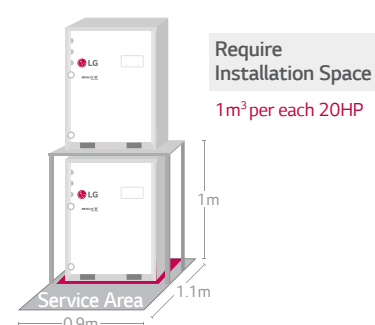
OUTDOOR UNIT

MULTI V WATER IV Heat Pump / Heat recovery

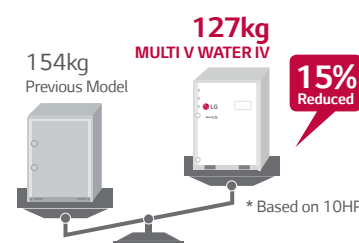


MULTI VTM WATER IV

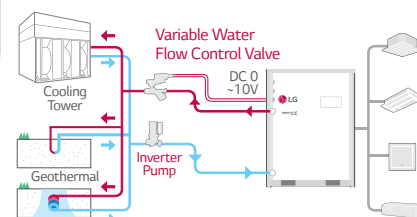
1. Compact Size



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 VTM WATER IV

Superior Efficiency via Integration of Smart Technologies

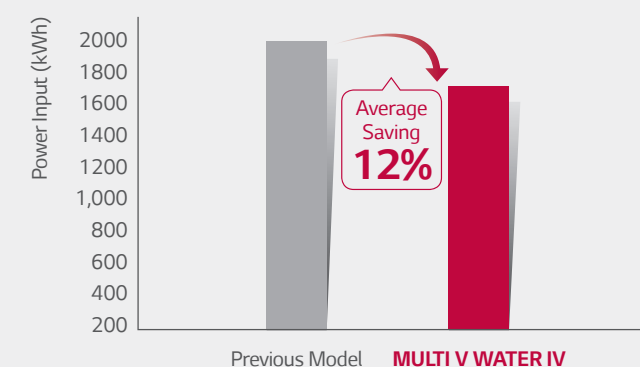
Today's businesses demand highly efficient temperature control solutions, capable of providing optimal energy savings without sacrificing performance. When it comes to cooling and heating a multi-storey or high-rise building, water cooled HVAC systems have become the solution of choice. Offering several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

* Based on the tested by 10HP model : ARWN100LAS4

Economical, Highly Efficient System

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



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

High Efficiency System Regardless of External Conditions

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

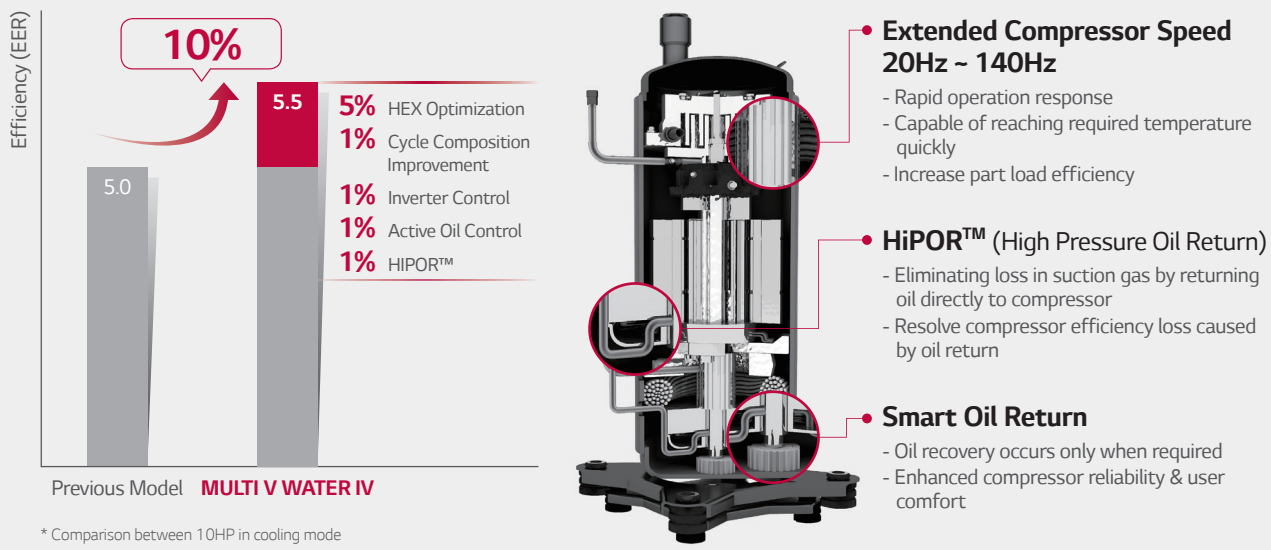


EFFICIENCY

Designed to maximize energy efficiency for high-rise building

LG's 4th Generation Inverter Compressor

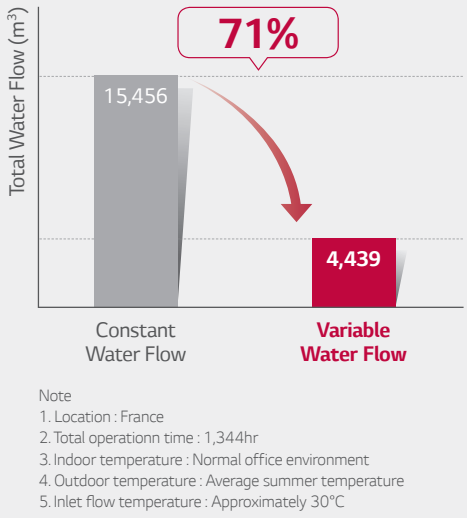
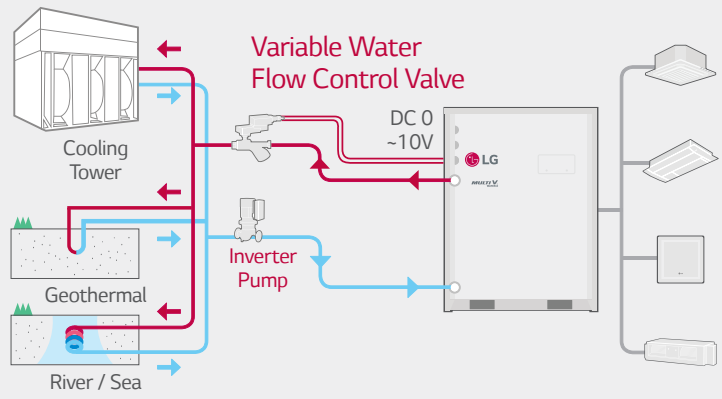
With a fourth generation inverter compressor, the MULTI V WATER IV boasts top-class energy efficiency.



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

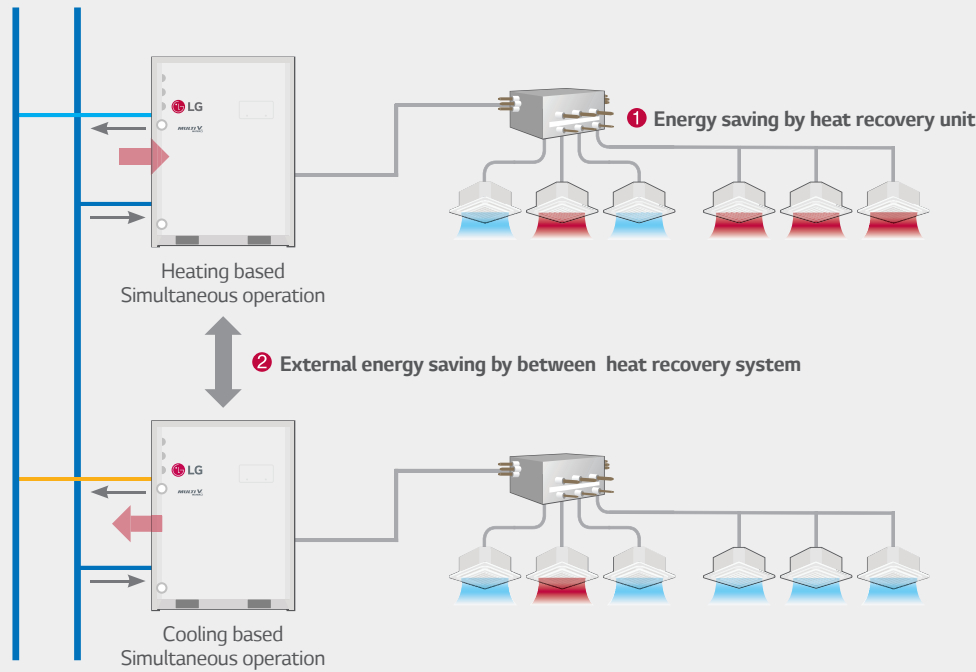


PERFORMANCE

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

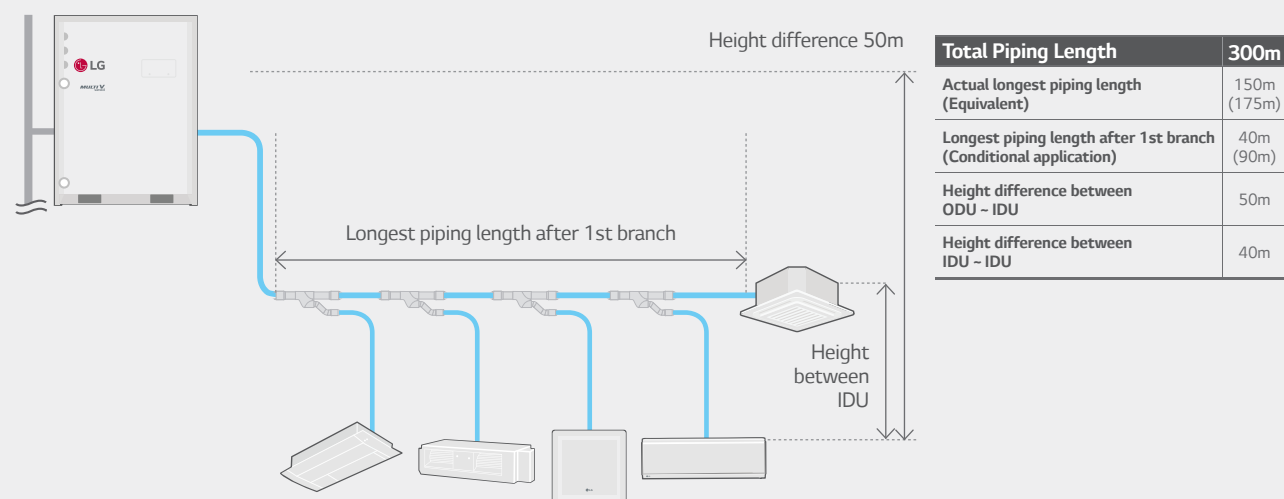
Line up (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42 ~ 60	62 ~ 80
LG				1 Unit									2 Units					3 Units	4 Units
Company B	1 Unit				2 Unit				3 Unit										
Company C	1 Unit					2 Unit				3 Unit									

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.

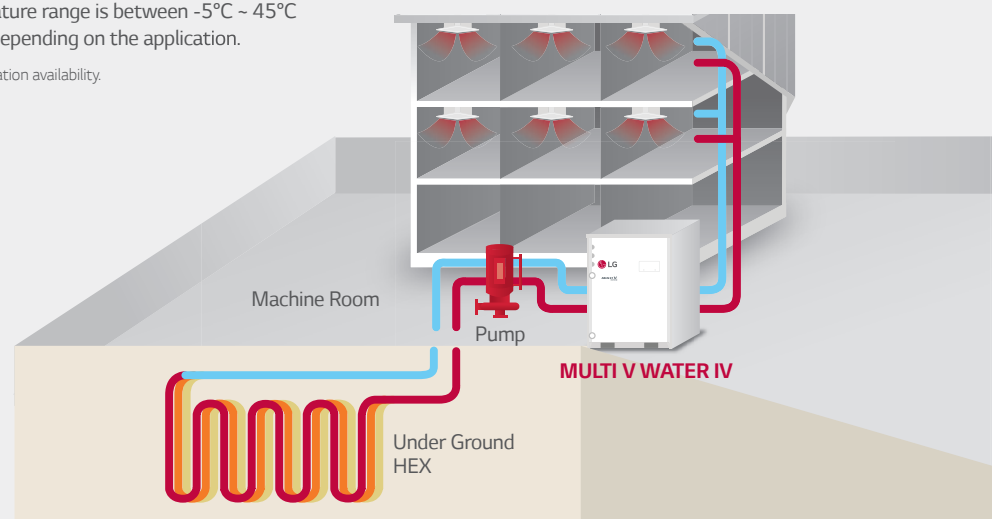


MULTI V WATER IV System for Geothermal Applications

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.

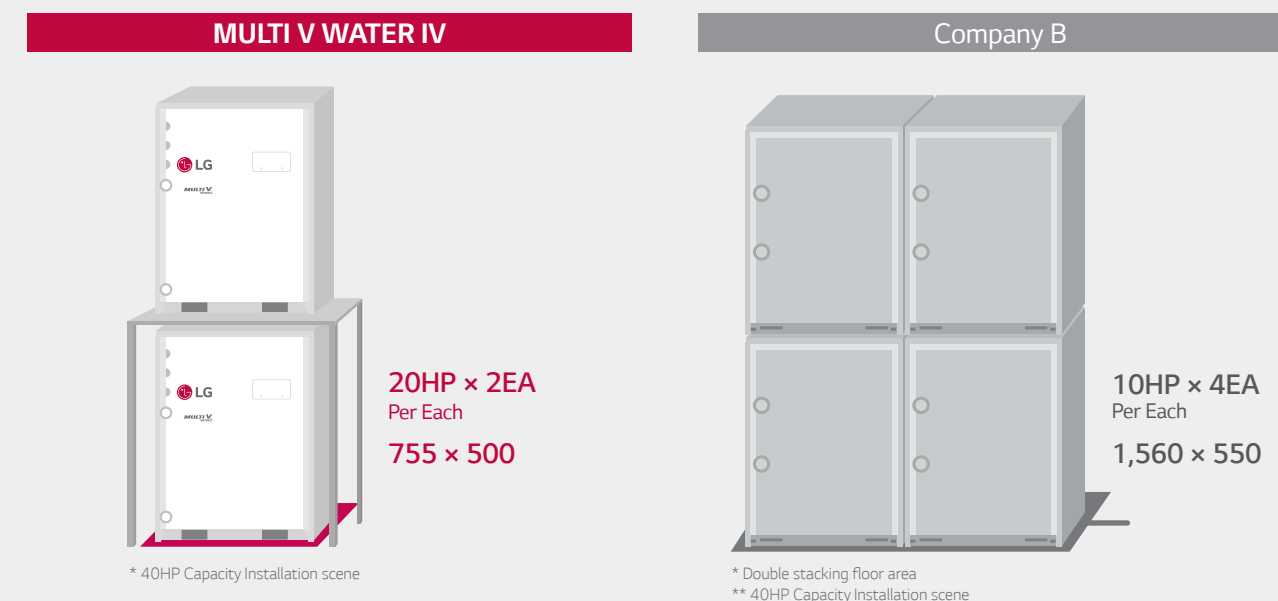
- The Circulating water temperature range is between -5°C ~ 45°C
- Antifreeze should be applied depending on the application.

* Please contact local LG office for application availability.



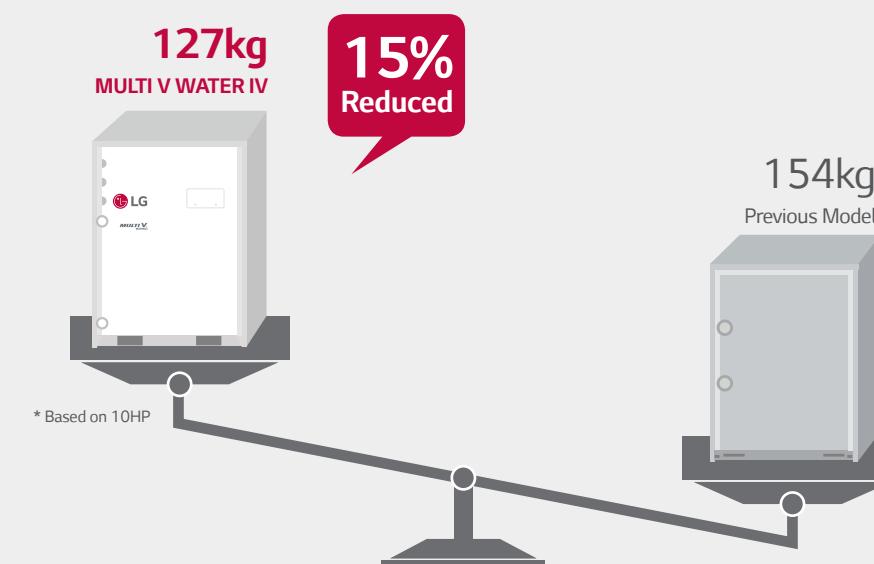
Compact Size

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



Light Weight

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



MULTI V™ WATER IV

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	Cooling	Nom	dBA	47	50	56
	Heating	Nom	dBA	51	53	56
Sound Power	Cooling	Nom	dBA	59	62	68
	Heating	Nom	dBA	63	65	68
Dimensions	W x H x D		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	1,800	1,800	1,800
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm ²	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/cm ²	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 on installation section.)

MULTI V™ WATER IV

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	Cooling	Nom	dBA	58	53	55	54
	Heating	Nom	dBA	57	57	56	60
Sound Power	Cooling	Nom	dBA	70	65	67	66
	Heating	Nom	dBA	69	69	68	72
Dimensions	W x H x D		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	1,800	1,800	1,800	1,800
Power Supply			Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	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	50	
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 on installation section.)

MULTI V™ WATER IV

ARWN220LAS4 / ARWN240LAS4



HP				22	24
Model	Combination Unit			ARWN220LAS4	ARWN240LAS4
	Independent Unit			ARWN120LAS4	ARWN120LAS4
				ARWN100LAS4	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			2	2
Sound Pressure	Cooling	Nom	dBA	57	57
	Heating	Nom	dBA	57	57
Sound Power	Cooling	Nom	dBA	70	70
	Heating	Nom	dBA	70	70
Dimensions		W x H x D	mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	127 x 2	127 x 2
Refrigerant	Type			R410A	R410A
	Charge			kg	5.8 + 5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Control			3,600	3,600
Power Supply			Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm²	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length	Max	m	150	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 on installation section.)

MULTI V™ WATER IV

ARWN260LAS4 / ARWN280LAS4



HP				26	28
Model	Combination Unit			ARWN260LAS4	ARWN280LAS4
	Independent Unit			ARWN140LAS4	ARWN140LAS4
Capacity				ARWN120LAS4	ARWN140LAS4
	Cooling	Nom	kW	72.8	78.4
Power Input	Heating	Nom	kW	81.9	88.2
	Cooling	Nom	kW	14.30	15.68
EER	Heating	Nom	kW	14.92	16.34
COP	Cooling			5.09	5.00
ESEER	Heating			5.49	5.40
Operation Range				7.11	7.02
	Cooling	Min ~ Max	°C DB	10°C ~ 45°C	10°C ~ 45°C
Compressor	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C
	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
Sound Pressure	Number of Compressor			2	2
	Cooling	Nom	dBA	59	59
Sound Power	Heating	Nom	dBA	58	58
	Cooling	Nom	dBA	72	72
Dimensions	Heating	Nom	dBA	71	71
	W x H x D			(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	127 x 2	127 x 2
Refrigerant	Type			R410A	R410A
	Charge			kg	5.8 + 5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Control			cc	3,600
Power Supply			Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm²	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length	Max	m	150	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				52	56
Ratio of the Connectable Indoor Units				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 on installation section.)

MULTI V™ WATER IV

ARWN300LAS4 / ARWN320LAS4 / ARWN340LAS4



HP				30	32	34
Model	Combination Unit			ARWN300LAS4	ARWN320LAS4	ARWN340LAS4
	Independent Unit			ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
				ARWN140LAS4	ARWN140LAS4	ARWN140LAS4
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	Cooling	Nom	dBA	59	59	59
	Heating	Nom	dBA	58	58	61
Sound Power	Cooling	Nom	dBA	72	72	72
	Heating	Nom	dBA	71	71	74
Dimensions		W x H x D	mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	(127 × 1) + (140 × 1)	(127 × 1) + (140 × 1)	(127 × 1) + (140 × 1)
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0 + 5.8	3.0 + 5.8	3.0 + 5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control		cc	3,600	3,600	3,600
Power Supply		Ø / 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 on installation section.)

MULTI V™ WATER IV

ARWN360LAS4 / ARWN380LAS4 / ARWN400LAS4



HP				36	38	40
Model	Combination Unit			ARWN360LAS4	ARWN380LAS4	ARWN400LAS4
	Independent Unit			ARWN180LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN180LAS4	ARWN180LAS4	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	Cooling	Nom	dBA	56	56	55
	Heating	Nom	dBA	57	61	61
Sound Power	Cooling	Nom	dBA	69	69	68
	Heating	Nom	dBA	70	74	74
Dimensions		W x H x D	mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	140 × 2	140 × 2	140 × 2
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	3.0 + 3.0	3.0 + 3.0	3.0 + 3.0
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control		cc	3,600	3,600	3,600
Power Supply		Ø / 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 on installation section.)

MULTI V™ WATER IVARWN420LAS4 / ARWN440LAS4 / ARWN460LAS4
ARWN480LAS4 / ARWN500LAS4

HP				42	44	46	48	50
Model	Combination Unit			ARWN420LAS4	ARWN440LAS4	ARWN460LAS4	ARWN480LAS4	ARWN500LAS4
	Independent Unit			ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4	ARWN160LAS4
				ARWN100LAS4	ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4
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	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3	3	3	3
Sound Pressure	Cooling	Nom	dBA	58	58	60	60	60
	Heating	Nom	dBA	62	62	62	62	62
Sound Power	Cooling	Nom	dBA	72	72	74	74	74
	Heating	Nom	dBA	76	76	76	76	76
Dimensions		W x H x D	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	5,400	5,400	5,400	5,400	5,400
Power Supply			Ø / 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 mm ²	2C × 1.0-1.5	2C × 1.0-1.5	2C × 1.0-1.5	2C × 1.0-1.5
Piping Length	Total	Max	m	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/cm ²	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 on installation section.)

MULTI V™ WATER IVARWN520LAS4 / ARWN540LAS4 / ARWN560LAS4
ARWN580LAS4 / ARWN600LAS4

HP				52	54	56	58	60
Model	Combination Unit			ARWN520LAS4	ARWN540LAS4	ARWN560LAS4	ARWN580LAS4	ARWN600LAS4
	Independent Unit			ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN180LAS4	ARWN200LAS4	ARWN180LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN140LAS4	ARWN140LAS4	ARWN180LAS4	ARWN180LAS4	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	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3	3	3	3
Sound Pressure	Cooling	Nom	dBA	60	60	57	57	56
	Heating	Nom	dBA	62	62	62	62	62
Sound Power	Cooling	Nom	dBA	74	74	71	71	70
	Heating	Nom	dBA	76	76	76	76	76
Dimensions		W x H x D	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	5,400	5,400	5,400	5,400	5,400
Power Supply			Ø / 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 mm ²	2C × 1.0-1.5	2C × 1.0-1.5	2C × 1.0-1.5	2C × 1.0-1.5
Piping Length	Total	Max	m	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/cm ²	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 on installation section.)

MULTI V™ WATER IVARWN620LAS4 / ARWN640LAS4 / ARWN660LAS4
ARWN680LAS4 / ARWN700LAS4

HP				62	64	66	68	70
Model	Combination Unit			ARWN620LAS4	ARWN640LAS4	ARWN660LAS4	ARWN680LAS4	ARWN700LAS4
	Independent Unit			ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4
				ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4	ARWN160LAS4
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	Cooling	Nom	dBA	59	59	61	61	61
	Heating	Nom	dBA	63	63	63	63	63
Sound Power	Cooling	Nom	dBA	73	73	75	75	75
	Heating	Nom	dBA	77	77	77	77	77
Dimensions	W x H x D			mm	(755 × 997 × 500) × 4	(755 × 997 × 500) × 4	(755 × 997 × 500) × 4	(755 × 997 × 500) × 4
Net Weight				kg	(140 × 2) + (127 × 2)	(140 × 2) + (127 × 2)	(140 × 2) + (127 × 2)	(140 × 3) + (127 × 1)
Refrigerant	Type				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 + 3.0 + 5.8
Refrigerant Oil	Type				FVC68D (PVE)	FVC69D (PVE)	FVC70D (PVE)	FVC71D (PVE)
	Control			cc	7,200	7,200	7,200	7,200
Power Supply				Ø / 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	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 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet	mm		PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet	mm		20	20	20	20	20

* 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 on installation section.)

MULTI V™ WATER IVARWN720LAS4 / ARWN740LAS4 / ARWN760LAS4
ARWN780LAS4 / ARWN800LAS4

HP				72	74	76	78	80	
Model	Combination Unit			ARWN720LAS4	ARWN740LAS4	ARWN760LAS4	ARWN780LAS4	ARWN800LAS4	
	Independent Unit			ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	
				ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	
				ARWN180LAS4	ARWN200LAS4	ARWN180LAS4	ARWN200LAS4	ARWN200LAS4	
	ARWN140LAS4			ARWN140LAS4	ARWN180LAS4	ARWN180LAS4	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	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Number of Compressor			4	4	4	4	4	
Sound Pressure	Cooling	Nom	dBA	61	61	58	58	57	
	Heating	Nom	dBA	63	63	63	63	63	
Sound Power	Cooling	Nom	dBA	75	75	72	72	71	
	Heating	Nom	dBA	77	77	77	77	77	
Dimensions	W x H x D			mm	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	
Net Weight				kg	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4	140 x 4	
Refrigerant	Type				R410A	R410A	R410A	R410A	
	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	
Refrigerant Oil	Type				FVC73D (PVE)	FVC74D (PVE)	FVC75D (PVE)	FVC76D (PVE)	
	Control			cc	7,200	7,200	7,200	7,200	
Power Supply				Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	
Piping Length	Total	Max	m	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)	
	Gas			mm (inch)	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 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	
	Outlet	mm		PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	
	Drain Outlet	mm		20	20	20	20	20	

* 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 on installation section.)

MULTI V™ WATER IV

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	Cooling	Nom	dBA	47	50	56
	Heating	Nom	dBA	51	53	56
Sound Power	Cooling	Nom	dBA	59	62	68
	Heating	Nom	dBA	63	65	68
Dimensions			W x H x D mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
Net Weight			kg	127 × 1	127 × 1	127 × 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	1,800	1,800
Power Supply			Ø / 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 on installation section.)

MULTI V™ WATER IV

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	Cooling	Nom	dBA	58	53	55	54
	Heating	Nom	dBA	57	57	56	60
Sound Power	Cooling	Nom	dBA	70	65	67	66
	Heating	Nom	dBA	69	69	68	72
Dimensions			W x H x D mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
Net Weight			kg	127 × 1	140 × 1	140 × 1	140 × 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	1,800	1,800	1,800	1,800
Power Supply			Ø / 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	50
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 on installation section.)

MULTI V™ WATER IV

ARWB220LAS4 / ARWB240LAS4



HP				22	24
Model	Combination Unit			ARWB220LAS4	ARWB240LAS4
	Independent Unit			ARWB120LAS4	ARWB120LAS4
				ARWB100LAS4	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			2	2
Sound Pressure	Cooling	Nom	dBA	57	57
	Heating	Nom	dBA	57	57
Sound Power	Cooling	Nom	dBA	40	70
	Heating	Nom	dBA	70	70
Dimensions			W x H x D	mm	(755 × 997 × 500) × 2
Net Weight			kg	127 × 2	127 × 2
Refrigerant	Type			R410A	R410A
	Charge		kg	5.8 + 5.8	5.8 + 5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Control		cc	3,600	3,600
Power Supply			Ø / 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 on installation section.)

MULTI V™ WATER IV

ARWB260LAS4 / ARWB280LAS4



HP				26	28
Model	Combination Unit			ARWB260LAS4	ARWB280LAS4
	Independent Unit			ARWB140LAS4	ARWB140LAS4
Capacity				ARWB120LAS4	ARWB140LAS4
	Cooling	Nom	kW	72.8	78.4
Power Input	Heating	Nom	kW	81.9	88.2
	Cooling	Nom	kW	14.30	15.68
EER	Heating	Nom	kW	14.92	16.34
COP	Cooling			5.09	5.00
ESEER	Heating			5.49	5.40
Operation Range				7.11	7.02
	Cooling	Min ~ Max	°C DB	10°C ~ 45°C	10°C ~ 45°C
Compressor	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C
	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
Sound Pressure	Number of Compressor			2	2
	Cooling	Nom	dBA	59	59
Sound Power	Heating	Nom	dBA	58	58
	Cooling	Nom	dBA	72	72
Dimensions	Heating	Nom	dBA	71	71
Net Weight	W x H x D		mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Refrigerant	kg			127 × 2	127 × 2
	Type			R410A	R410A
Refrigerant Oil	Charge			kg	5.8 + 5.8
	Type			FVC68D (PVE)	FVC68D (PVE)
Power Supply	Control			cc	3,600
Transmission Cable (VCTF-SB)	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Piping Length	No. x mm²			2C × 1.0-1.5	2C × 1.0-1.5
	Total	Max	m	300	300
	Actual Longest Piping Length	Max	m	150	150
Piping Level Difference	After 1st Y Branch	Max	m	40	40
	IDU - ODU	Max	m	50	50
Piping Connection	IDU - IDU	Max	m	40	40
	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)
Number of Outdoor Units	High Pressure Gas		mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)
Number of Connectable Indoor Units				2	2
Ratio of the Connectable Indoor Units	Max			52	56
Heat Exchanger	Min ~ Max			50 ~ 160%	50 ~ 160%
	Type			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm²	45	45
	Rated Water Flow			L/min	135 + 116
Water Connection Pipe	Head Loss			kPa	29 + 22
	Inlet			mm	PT 40 + PT 40
	Outlet			mm	PT 40 + PT 40
	Drain Outlet			mm	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 on installation section.)

MULTI V™ WATER IV

ARWB300LAS4 / ARWB320LAS4 / ARWB340LAS4



HP				30	32	34
Model	Combination Unit			ARWB300LAS4	ARWB320LAS4	ARWB340LAS4
	Independent Unit			ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
Capacity				ARWB140LAS4	ARWB140LAS4	ARWB140LAS4
	Cooling	Nom	kW	84.0	89.6	95.2
Power Input	Heating	Nom	kW	94.5	100.8	107.1
	Cooling	Nom	kW	15.99	17.53	19.04
EER	Heating	Nom	kW	16.71	18.30	19.84
COP				5.25	5.11	5.00
ESEER				5.66	5.51	5.40
Operation Range				7.12	7.07	7.01
	Cooling	Min ~ Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
Compressor	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Sound Pressure	Number of Compressor			2	2	2
	Cooling	Nom	dBA	59	59	59
Sound Power	Heating	Nom	dBA	58	58	61
	Cooling	Nom	dBA	72	72	72
Dimensions	Heating	Nom	dBA	71	71	74
Net Weight	W x H x D		mm	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Refrigerant			kg	(127 × 1) + (140 × 1)	(127 × 1) + (140 × 1)	(127 × 1) + (140 × 1)
	Type			R410A	R410A	R410A
Refrigerant Oil	Charge	kg		3.0 + 5.8	3.0 + 5.8	3.0 + 5.8
	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
Power Supply	Control	cc		3,600	3,600	3,600
Transmission Cable (VCTF-SB)	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Piping Length	No. x mm²			2C × 1.0-1.5	2C × 1.0-1.5	2C × 1.0-1.5
	Total	Max	m	300	300	300
	Actual Longest Piping Length	Max	m	150	150	150
Piping Level Difference	After 1st Y Branch	Max	m	40	40	40
	IDU - ODU	Max	m	50	50	50
Piping Connection	IDU - IDU	Max	m	40	40	40
	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)
Number of Outdoor Units	High Pressure Gas	mm (inch)		28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Number of Connectable Indoor Units				2	2	2
Ratio of the Connectable Indoor Units	Max			60	64	64
Heat Exchanger	Min ~ Max			50 ~ 160%	50 ~ 160%	50 ~ 160%
	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
Water Connection Pipe	Head Loss	kPa		20 + 29	25 + 29	31 + 29
	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 on installation section.)

MULTI V™ WATER IV

ARWB360LAS4 / ARWB380LAS4 / ARWB400LAS4



HP				36	38	40
Model	Combination Unit			ARWB360LAS4	ARWB380LAS4	ARWB400LAS4
	Independent Unit			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	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2	2
Sound Pressure	Cooling	Nom	dBA	56	56	55
	Heating	Nom	dBA	57	61	61
Sound Power	Cooling	Nom	dBA	69	69	68
	Heating	Nom	dBA	70	74	74
Dimensions			W x H x D	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
Net Weight			kg	140 × 2	140 × 2	140 × 2
Refrigerant	Type			R410A	R410A	R410A
	Charge			kg	3.0 + 3.0	3.0 + 3.0
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	3,600	3,600
Power Supply				Ø / 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	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
Ratio of the Connectable Indoor Units				Min ~ Max	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 on installation section.)

MULTI V™ WATER IV

ARWB420LAS4 / ARWB440LAS4 / ARWB460LAS4
ARWB480LAS4 / ARWB500LAS4



HP				42	44	46	48	50
Model	Combination Unit			ARWB420LAS4	ARWB440LAS4	ARWB460LAS4	ARWB480LAS4	ARWB500LAS4
	Independent Unit			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB120LAS4	ARWB120LAS4	ARWB140LAS4	ARWB140LAS4	ARWB160LAS4
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	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3	3	3	3
Sound Pressure	Cooling	Nom	dBA	58	58	60	60	60
	Heating	Nom	dBA	62	62	62	62	62
Sound Power	Cooling	Nom	dBA	72	72	74	74	74
	Heating	Nom	dBA	76	76	76	76	76
Dimensions		W x H x D		mm	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
Net Weight			kg	(140 × 1) + (127 × 2)	(140 × 1) + (127 × 2)	(140 × 1) + (127 × 2)	(140 × 1) + (127 × 2)	(140 × 2) + (127 × 1)
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge			kg	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	5,400	5,400	5,400	5,400
Power Supply			Ø / 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°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 on installation section.)

MULTI V™ WATER IV

ARWB520LAS4 / ARWB540LAS4 / ARWB560LAS4
ARWB580LAS4 / ARWB600LAS4



HP				52	54	56	58	60
Model	Combination Unit			ARWB520LAS4	ARWB540LAS4	ARWB560LAS4	ARWB580LAS4	ARWB600LAS4
	Independent Unit			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB180LAS4	ARWB180LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
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	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			3	3	3	3	3
Sound Pressure	Cooling	Nom	dBA	60	60	57	57	56
	Heating	Nom	dBA	62	62	62	62	62
Sound Power	Cooling	Nom	dBA	74	74	71	71	70
	Heating	Nom	dBA	76	76	76	76	76
Dimensions		W x H x D		mm	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 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
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	5,400	5,400	5,400	5,400
Power Supply			Ø / 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
Piping Level Difference	After 1st Y Branch	Max	m	40	40	40	40	40
	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 + 173 + 135	192 + 192 + 135	192 + 173 + 173	192 + 192+ 173	192 + 192+ 192
Water Connection Pipe	Head Loss		kPa	31 + 25 + 29	31 + 31 + 29	31 + 25 + 25	31 + 31 + 25	31 + 31 + 31
	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 on installation section.)

MULTI V™ WATER IVARWB620LAS4 / ARWB640LAS4 / ARWB660LAS4
ARWB680LAS4 / ARWB700LAS4

HP				62	64	66	68	70
Model	Combination Unit			ARWB620LAS4	ARWB640LAS4	ARWB660LAS4	ARWB680LAS4	ARWB700LAS4
	Independent Unit			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB120LAS4	ARWB120LAS4	ARWB140LAS4	ARWB140LAS4	ARWB160LAS4
				ARWB100LAS4	ARWB120LAS4	ARWB120LAS4	ARWB140LAS4	ARWB140LAS4
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	Cooling	Nom	dBA	59	59	61	61	61
	Heating	Nom	dBA	63	63	63	63	63
Sound Power	Cooling	Nom	dBA	73	73	75	75	75
	Heating	Nom	dBA	77	77	77	77	77
Dimensions	W x H x D		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		7,200	7,200	7,200	7,200	7,200
Power Supply	Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	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		PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet	mm		PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet	mm		20	20	20	20	20

* 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 on installation section.)

MULTI V™ WATER IVARWB720LAS4 / ARWB740LAS4 / ARWB760LAS4
ARWB780LAS4 / ARWB800LAS4

HP				72	74	76	78	80
Model	Combination Unit			ARWB720LAS4	ARWB740LAS4	ARWB760LAS4	ARWB780LAS4	ARWB800LAS4
	Independent Unit			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB180LAS4	ARWB200LAS4	ARWB180LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB140LAS4	ARWB140LAS4	ARWB180LAS4	ARWB180LAS4	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	Cooling	Nom	dBA	61	61	58	58	57
	Heating	Nom	dBA	63	63	63	63	63
Sound Power	Cooling	Nom	dBA	75	75	72	72	71
	Heating	Nom	dBA	77	77	77	77	77
Dimensions	W x H x D		mm	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 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		30 + 30 + 30 + 58	30 + 30 + 30 + 58	30 + 30 + 30 + 30	30 + 30 + 30 + 30	30 + 30 + 30 + 30
Refrigerant Oil	Type			FVC73D (PVE)	FVC74D (PVE)	FVC75D (PVE)	FVC76D (PVE)	FVC77D (PVE)
	Control	cc		7,200	7,200	7,200	7,200	7,200
Power Supply	Ø / 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 x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	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		PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet	mm		PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet	mm		20	20	20	20	20

* 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

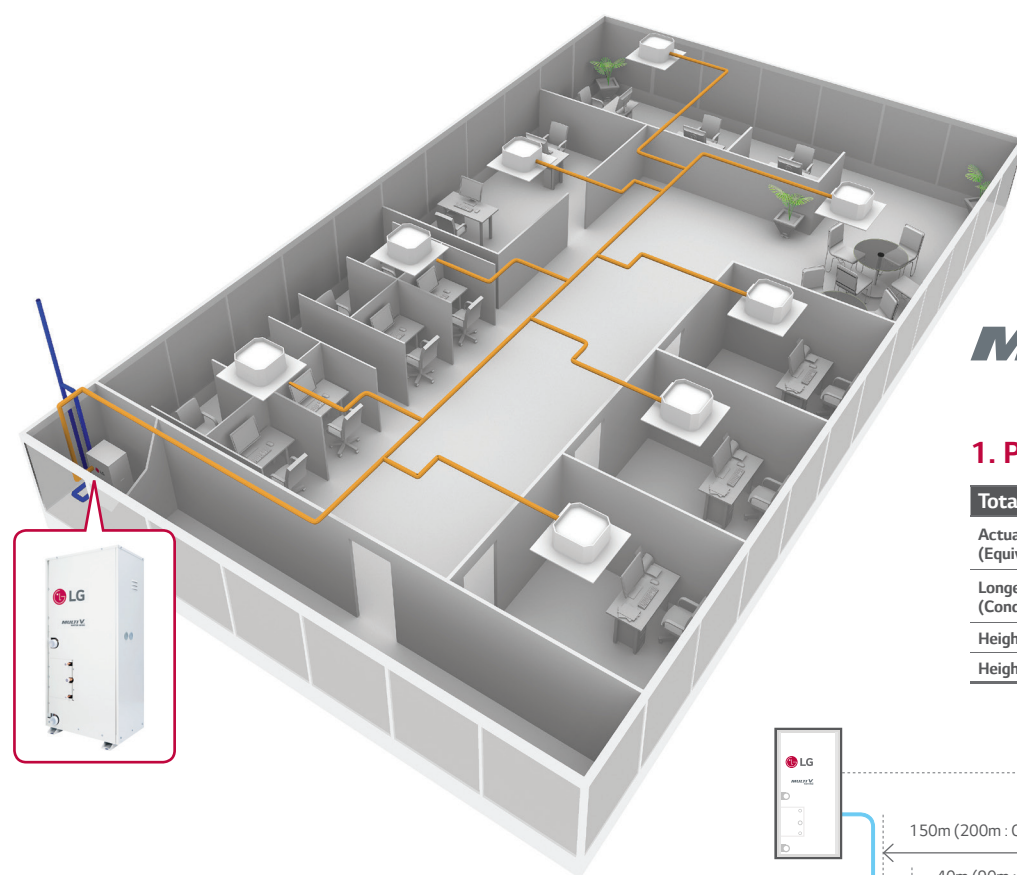
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

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 on installation section.)

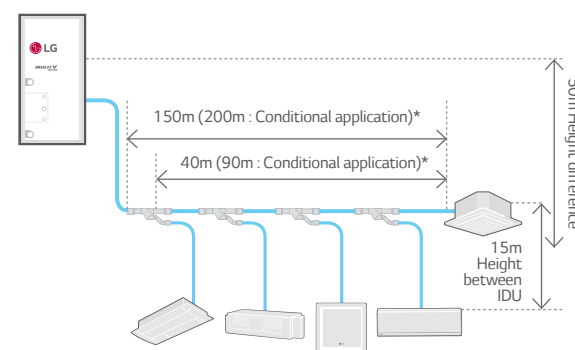
OUTDOOR UNIT MULTI V WATER S



MULTI VTM
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
- Flexible design applications
- Low noise level (No fans)
- High efficient water source system

Application

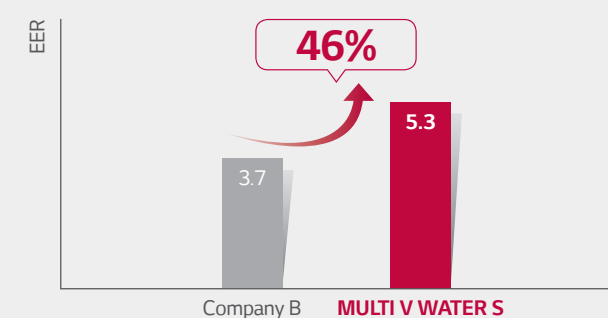
- Building remodeling case (Initially Equipped with Chillers)
- Residential building with geothermal / Water supply
- High-rise commercial building

MULTI VTM **WATER S**

Designed for space saving

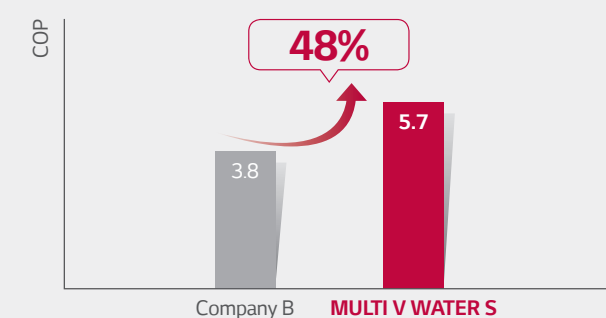
World's First Class Cooling and Heating Efficiency

EER (Rated Efficiency)



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

COP (Rated Efficiency)

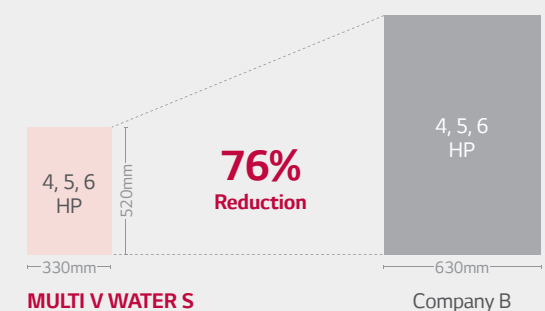


* Comparison between 4HP model, based on internal test data

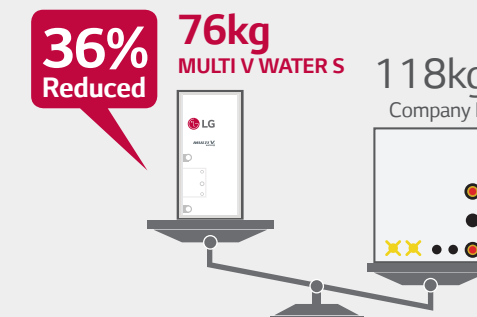
Compact Size

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



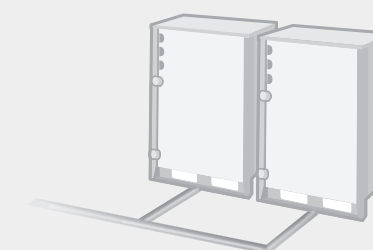
Convenient Installation

Absence of drain pipe makes installation easier.

MULTI V WATER S



Conventional





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	5.19	4.84
COP				5.68	5.52	5.14
Operation Range	Cooling	Min ~ Max	°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Number of Compressor			1	1	1
Sound Pressure	Cooling	Nom	dBA	48	49	50
	Heating	Nom	dBA	48	49	50
Sound Power	Cooling	Nom	dBA	59	60	61
	Heating	Nom	dBA	59	60	61
Dimensions		W x H x D	mm	520 x 1,080 x 330	520 x 1,080 x 330	520 x 1,080 x 330
Net Weight			kg	76	76	76
Refrigerant	Type			R410A	R410A	R410A
	Charge		kg	1.0	1.0	1.0
Refrigerant Oil	Type			FVC68D	FVC68D	FVC68D
	Control		cc	1,300	1,300	1,300
Power Supply			Ø / 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 x 1.0~1.5	2C x 1.0~1.5	2C x 1.0~1.5
Piping Length	Total	Max	m	145	145	145
	Actual Longest Piping Length	Max	m	90	90	90
	After 1st Y Branch	Max	m	40	40	40
Piping Level Difference	IDU - ODU	Max	m	30	30	30
	IDU - IDU	Max	m	15	15	15
Piping Connection	Liquid		mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas		mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Number of Outdoor Units				1	1	1
Number of Connectable Indoor Units		Max		6	8	9
Ratio of the Connectable Indoor Units		Min ~ Max		50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	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°C (80.6°F) DB / 19°C (66.2°F) WB / Water 30°C (86°F)
- Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Water 20°C (68°F)
- Piping Length : Interconnected Pipe Length ~ 7.5m
- Difference Limit of Elevation (Outside ~ Indoor Unit) is Zero.

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.

REFERENCE SITE

Bouygues Challenger

LG MULTI V Water Solution with Geothermal Application



Site Information

The industrial group Bouygues was established in France in 1952. It now maintains operations in 80 countries and employs more than 131,000 people. In 1988, after two years of construction, the new headquarters for Bouygues Construction was officially opened for business. Named Challenger, the complex became a technological showcase for late 20th century architecture.

LG Solution

Bouygues decided to convert their headquarters into an eco-friendly building by significantly reducing its energy footprint. The LG MULTI V Water system was chosen as the ideal HVAC solution for this project. The system not only saves energy but also reduces water usage as it recycles water in order to regulate the temperature of the building. With LG's advanced technology, the building's water consumption was reduced by more than 70 percent.

INDOOR UNIT

- 104 Wall Mounted Unit
- 112 Ceiling Mounted Cassette
- 120 Ceiling Concealed Duct
- 128 Fresh Air Intake Unit
- 130 Ceiling & Floor Convertible Unit
Ceiling Suspended Unit
- 134 Console
- 136 Floor Standing Unit
(with Case / without Case)
- 138 MULTI V Indoor Compatibility



MULTI V™ series

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

INDOOR UNIT LINE-UP

kW			1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0
Type		Btu/h	5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k
4 th Generation Wall Mounted Unit	ARTCOOL Gallery																	
	ARTCOOL Mirror																	
	Standard											NEW	NEW					
4 th Generation Ceiling Mounted Cassette	4 Way Cassette (570 x 570)								NEW									
	4 Way Cassette (840 x 840)											NEW				NEW		
	2 Way Cassette																	
	1 Way Cassette																	
4 th Generation Ceiling Concealed Duct	Mid / High Statics																	
	Low Statics																	
	Built-in																	
	High Sensible																	
4 th Generation Fresh Air Intake Units																		
2 nd Generation Ceiling & Floor Convertible Unit																		
2 nd Generation Ceiling Suspended Unit																		
4 th Generation Console																		
4 th Generation Floor Standing Unit	Floor Standing Unit with Case																	
	Floor Standing Unit without Case																	
2 nd Generation HYDRO KIT	Low Temperature																	
	High Temperature																	
2 nd Generation Energy Recovery Ventilator with DX Coil	with Humidifier																	
	without Humidifier																	

FEATURES OVERVIEW

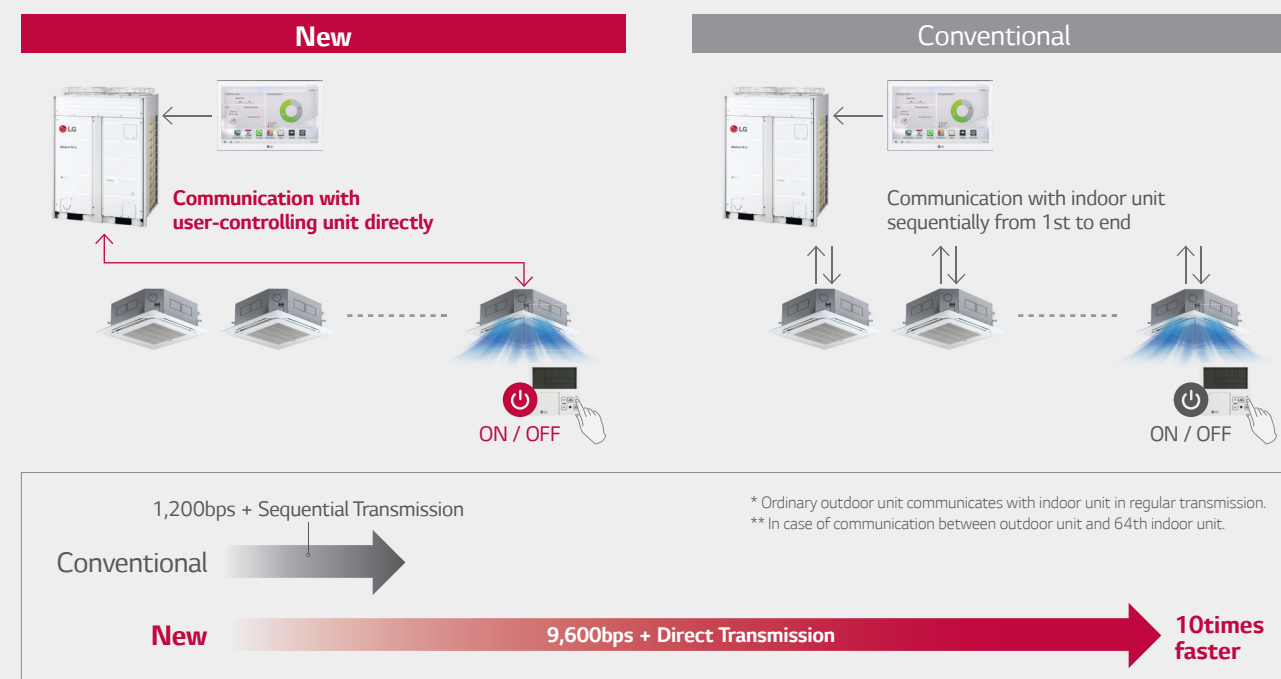
Energy Monitoring	2 Set Point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	1 Point External Input (On / Off Control)	Filter Sign (Remaining Time)	Auto Restart Function Disable / Enable
•	•	•	•	•	•	•	•	•	•	•		•	•	•
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				•	•					•				

1) If 4th generation indoors are connected to MULTIV WATER S outdoor, some of function will not be activated. 2) If 4th generation indoors are combined to 2nd generation indoors, some of function will not be activated.
➔ More detailed information, refer to the "MULTI V INDOOR COMPATIBILITY" (page 138-139)

COMFORT

Quick Control

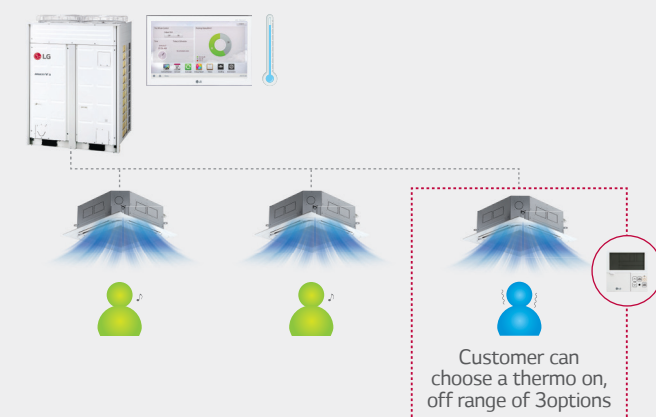
4th Generation indoor unit offers rapid heating and cooling about 10times faster than conventional through communication mode change and improved communication speed.



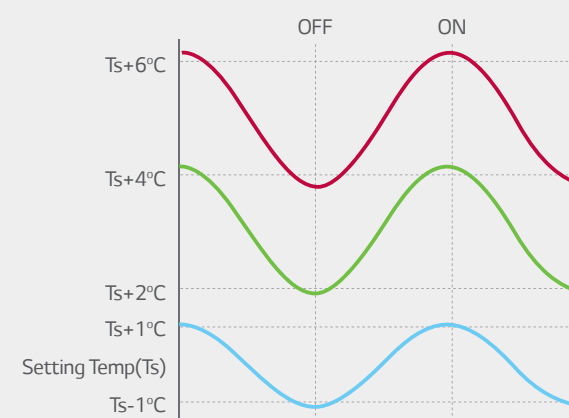
Thermo On / Off Range Setting (Cooling)

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

Prevention Overcooling

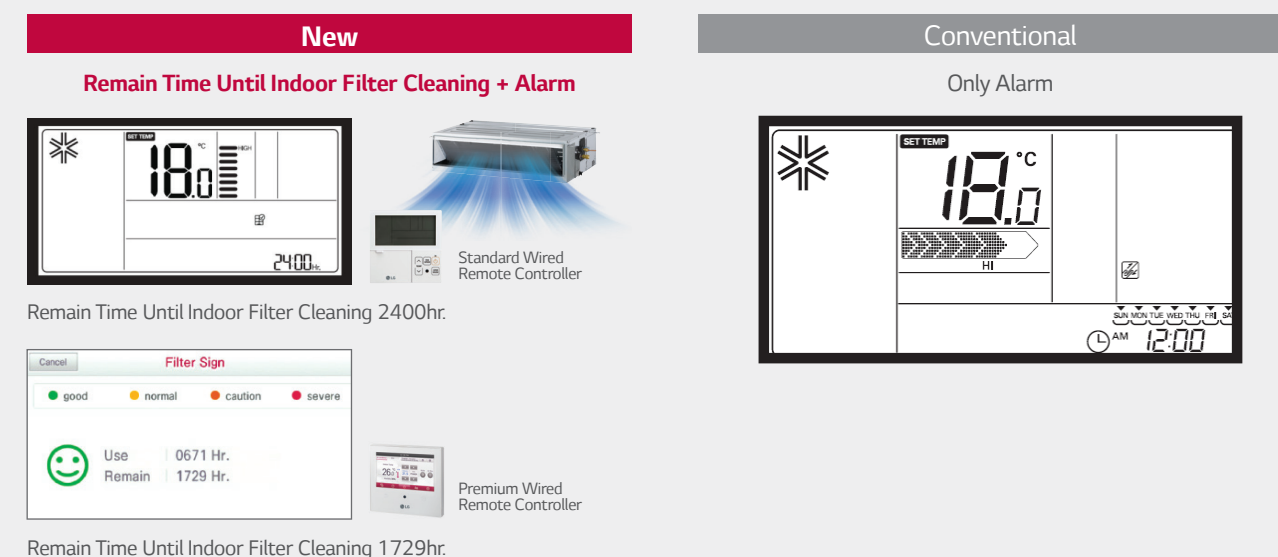


Cooling Thermo On / Off Range



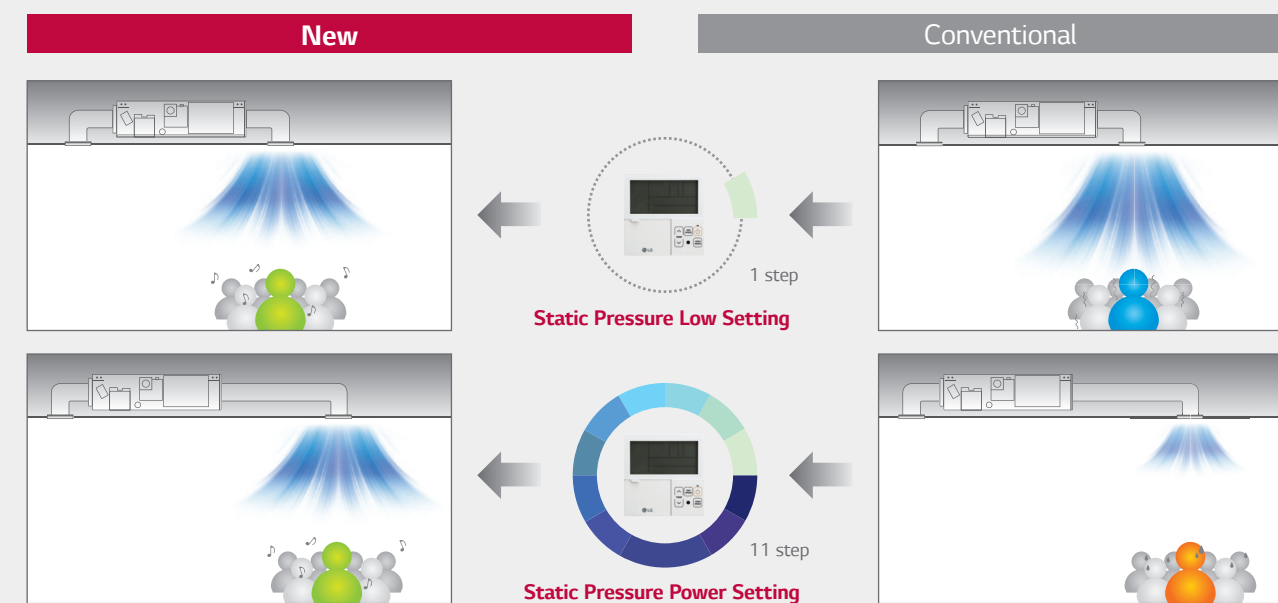
Filter Sign (Remaining Time)

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



Static Pressure 11 Step Control (Only for Ceiling Concealed Duct)

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

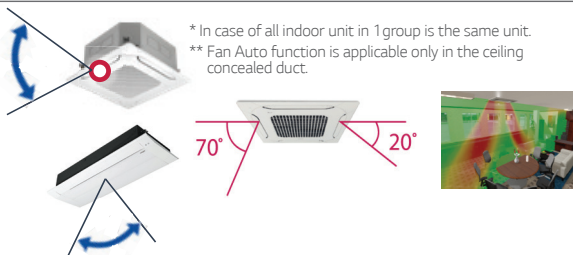


4th Generation

CONVENIENCE

Group Control

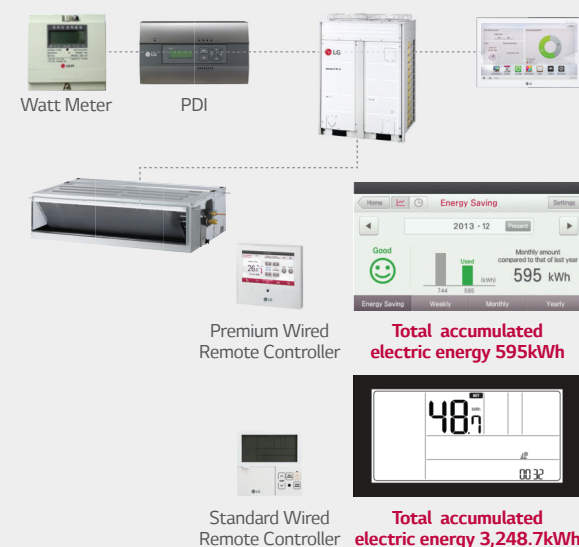
In case of group control, user can control much more function than conventional.

New	Conventional
 Cooling / Heating Dehumidification Fan only operating Setting temp.	 Cooling / Heating Dehumidification Fan only operating Setting temp.
In Case of Group Control * In case of all indoor unit in 1 group is the same unit. ** Fan Auto function is applicable only in the ceiling concealed duct. 	Standard Operation Sub function isn't operating

Energy Monitoring (Accumulated Electric Energy Check)

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

Install Scene



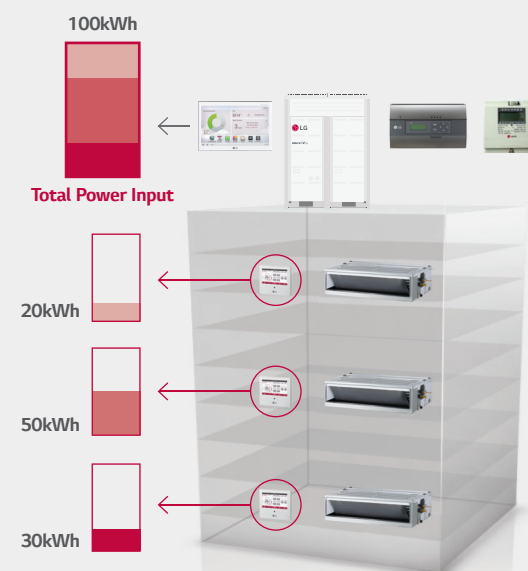
Watt Meter PDI Premium Wired Remote Controller

Total accumulated electric energy 595kWh

Standard Wired Remote Controller

Total accumulated electric energy 3,248.7kWh

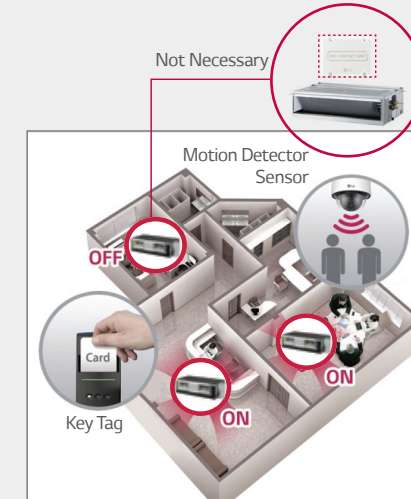
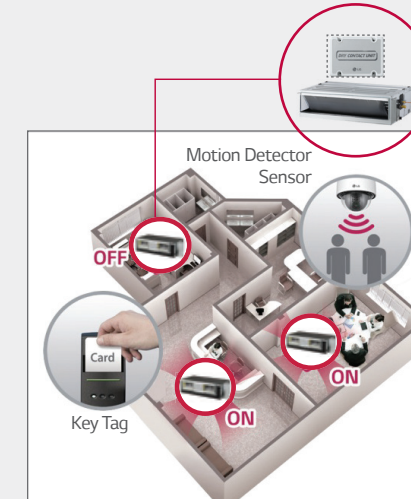
Apply for Multistory Building



* 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.

1 Point External Input (On / Off Control)

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

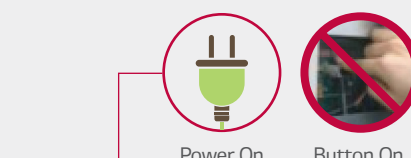
New	Conventional
Connection between an indoor unit and external devices directly  Not Necessary Motion Detector Sensor Key Tag ON	Connection between an indoor unit and external devices through dry contact  Motion Detector Sensor Key Tag ON

Cost Savings

* In case of needing more functions beside On / Off control, a dry contact is required to be installed.

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.

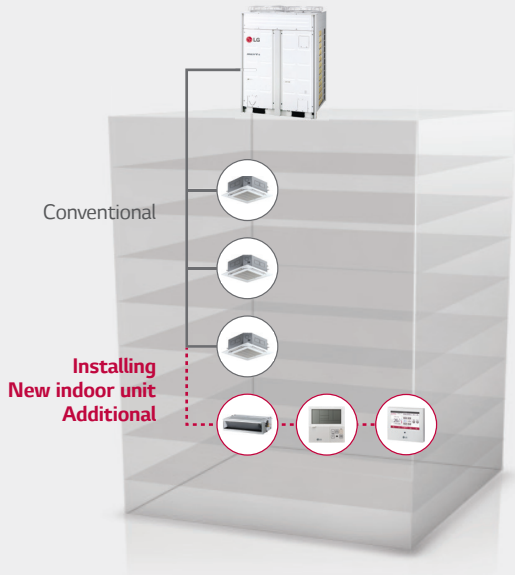
New	Conventional
Auto Addressing → 1.5min Required  Power On Button On Time Saving 3.5min → 1.5min 57%	Auto Addressing → 3.5min Required  Power On Button On

* 64ea indoor units installing time

CONVENIENCE

Compatibility

- **Outdoor unit**
 - Any MULTI V series outdoor unit can be installed
- **Indoor unit**
 - Any MULTI V series can be installed
- **Wired remote controller**
 - Standard II : PREMTB001, PREMTB01
 - Premium : PREMTA000, PREMTA000A, PREMTA000B
- **Implementable Functions**
 - Static Pressure 11 Step Control
 - Cooling thermo On / Off range setting
 - Filter Sign
 - Control the external devices
 - Heating test run mode
 - Convenient check information



Test Run (Heating)

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.

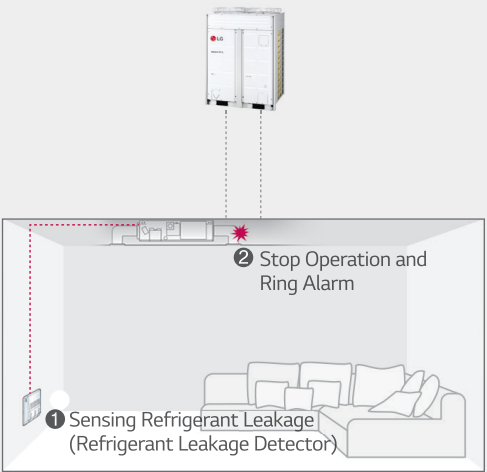
Category	No.	Model							
First Number : Outdoor Unit	0	MULTI V							
	1	MULTI							
	2	Single							
Category	No.	Model	No.	Model	No.	Model			
Second Number : Indoor Unit	0	CST	6	Console	A	HYDRO KIT for Medium Temp.			
	1	Duct	7	Single Package	B	HYDRO KIT for High Temp.			
	2	CVT	8	General Ventilation	-	-			
	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	-	-
	MULTI	3	12K	7	28K	B	54K	-	-
		0	5K	4	12K	8	20K	-	-
		1	7K	5	14K	9	24K	-	-
	Single	2	8K	6	15K	A	30K	-	-
		3	9K	7	18K	B	36K	-	-
		0	9K	4	24K	8	48K	-	-
		1	12K	5	30K	9	60K	-	-
		2	18K	6	36K	-	-	-	-
		3	21K	7	42K	-	-	-	-



Refrigerant Leakage 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 6,000ppm not only stopping the indoor unit operation but also giving an alarm using buzzer and sensor LED (The green and red LED lights blink simultaneously).

Refrigerant Leakage Detection



* Refrigerant leakage detector is option accessory.

In Case of Leak Refrigerant



Global Regulation



WALL MOUNTED UNIT

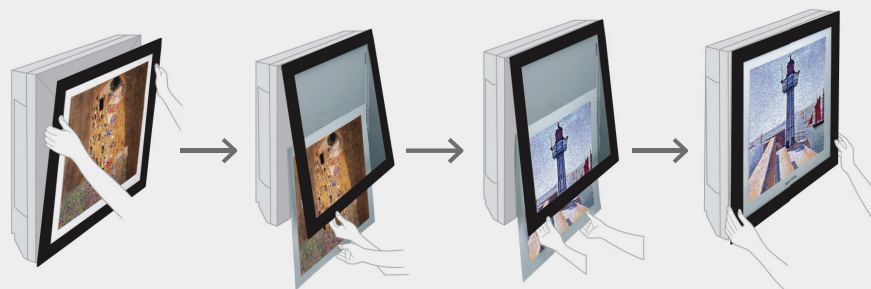
Aesthetic Design

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.

Gallery



How to Change the Picture



ARTCOOL Mirror



Mirror



Silver



White

Standard



5K / 7K / 9K / 12K / 15K / 18K / 24K

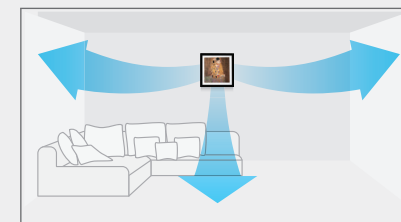


30K / 36K

Digital Air Flow Control

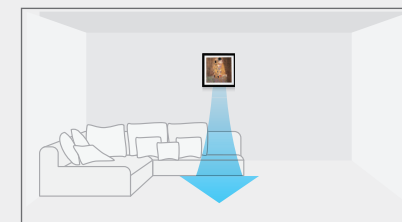
The air flow can be controlled to ensure maximum comfort and convenience.

Normal



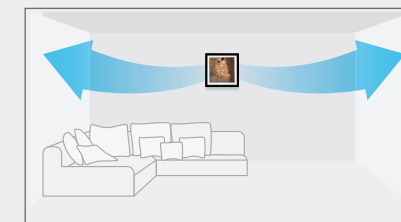
Fast, Wide and Even

Jet Cool



Speedy and Powerful

Sleep Mode



Indirect and Discreet

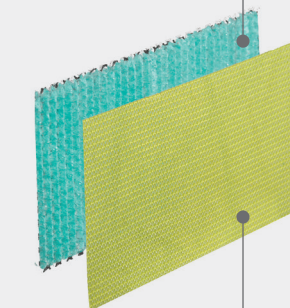
Filtering (Virus & Allergy Safe Filter)

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

Virus Deactivation

Allergy Filter

Allergy care filter coated with allergy decomposition substance

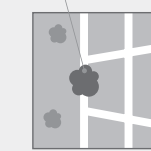


Virus Filter

Sterilising filter with anti-virus coating

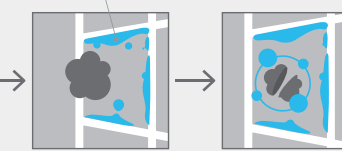
The LG virus & allergy safe filter blocks neuramidase and hemagglutinin, which is activated when the virus breaks up from host cell to proliferate.

Allergen

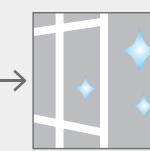


Step 1
Allergen is captured by filter

Apatite & Organic / Inorganic Binder



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

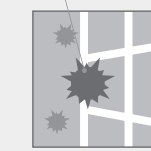


Step 3
Purified air



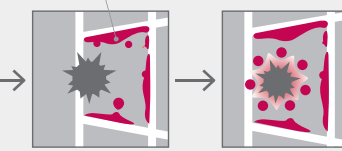
Certified by British Allergy Foundation (2009.01)

Virus

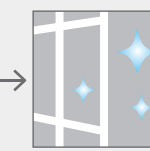


Step 1
Virus is captured by filter

Kimchi Extract & Protein Control Substance



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



Step 3
Purified air

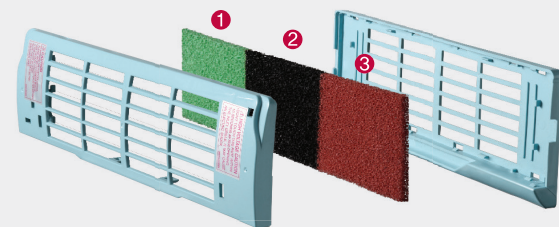


Certified by Kitasato Institute

WALL MOUNTED UNIT

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.



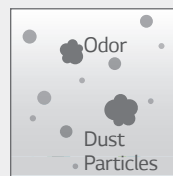
- Red filter removes smells such as smoke and food smells.
- Black filter removes the odour of new buildings such as formaldehyde.
- Blue filter removes the chemical smells such as the smell of fresh paint.

- 1 VOC filter removes odour and hazardous VOCs that are discharged from household materials made out of chemical substances (Carpet, Paint, Cleaners, Furniture etc.) (VOC= Volatile Organic Compound)
- 2 Formaldehyde filter removes formaldehyde, a leading cause of sick building syndrome, and can prevent dermatitis, vomiting, and pneumonia
- 3 Common odour filter removes ordinary odours that can cause migraines and chronic fatigue syndrome

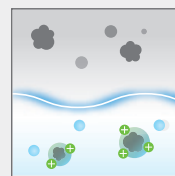
Eliminating (Plasma Filter)

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.

Polluted Air

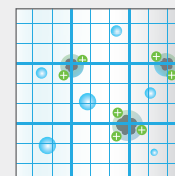


Ionising



Dust Charging (+)
Odour Decomposition

Filtering



Filtering of Dust by
Coulomb Force

Deodorising



Deodorisation

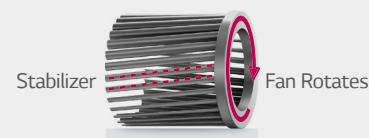
* Except ARNU30GSVA4, ARNU36GSVA4

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.

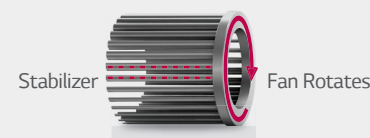
Skew Fan

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

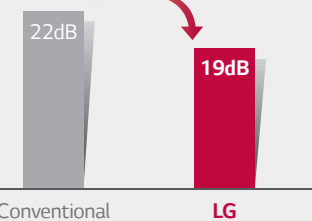


Conventional

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

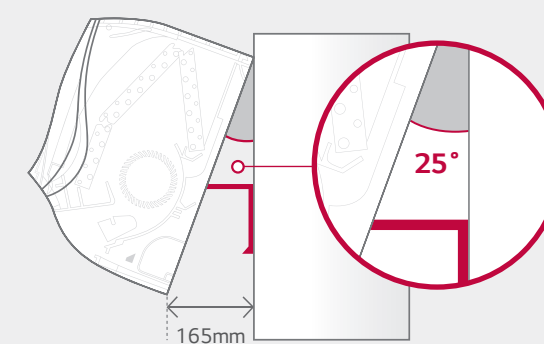


3dB



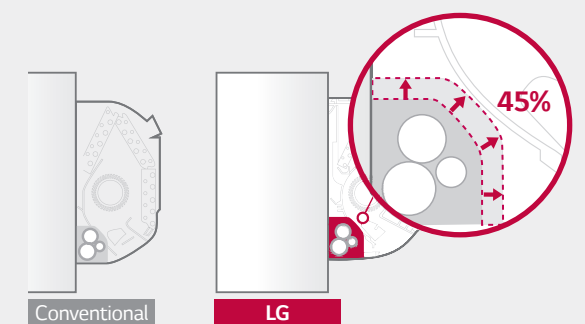
Installation Support Clip

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.

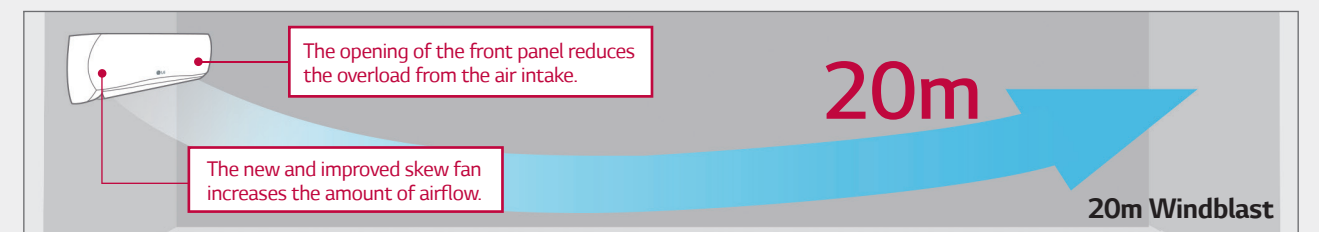


Auto Cleaning

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.

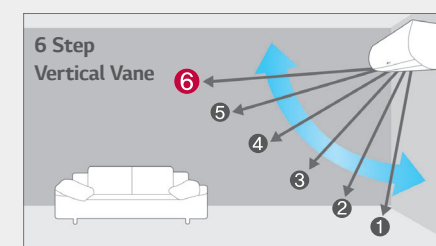


Powerful Cooling & Heating



Optimised Airflow

Direction of horizontal vane can be adjusted from step 1 to step 6 with full auto swing. This function can cool and heat specific areas much faster.



* Only for ARNU30GSVA4 / ARNU36GSVA4

Quick Cooling & Heating

Jet cooling and heating disperses air evenly at high speed to secure an optimally cooled or heated room in just 3 minutes.



ARTCOOL MIRROR

ARNU05G**SB***4 / ARNU07G**SB***4 / ARNU09G**SB***4
ARNU12G**SB***4 / ARNU15G**SB***4



Mirror (R)



White (W)



Silver (V)

Model		Independent Unit		ARNU05G SB *4	ARNU07G SB *4	ARNU09G SB *4	ARNU12G SB *4	ARNU15G SB *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 / Heating	Nom ¹⁾	W	12	13	15	19	21
	Cooling / Heating	Rated ²⁾	W	21	21	21	21	21
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
	Heating	H / M / L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
Sound Pressure		H / M / L	dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power		H / M / L	dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Dimensions	Body	W x H x D	mm	895 × 285 × 205	895 × 285 × 205	895 × 285 × 205	895 × 285 × 205	895 × 285 × 205
Net Weight			kg	10.8	10.8	10.8	10.8	10.8
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	16.0	16.0	16.0	16.0	16.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) Rated : Max power input allowed for fan motor
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		ARNU05G SB *4	ARNU07G SB *4	ARNU09G SB *4	ARNU12G SB *4	ARNU15G SB *4
Dry Contact	Simple (1 Contact Point with Case)			PDRYCB000		
	2 Contact Point			PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)			PDRYCB300		
	Modbus Communication			PDRYCB500		
EEV Kit for MULTI V Indoor				PRGK024A0		

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

ARTCOOL MIRROR

ARNU18G**SC***4 / ARNU24G**SC***4



Mirror (R)



White (W)



Silver (V)

Model		Independent Unit		ARNU18G SC *4	ARNU24G SC *4
Capacity	Cooling	Nom	kW	5.6	7.1
	Heating	Nom	kW	6.3	8.0
Power Input	Cooling / Heating	Nom ¹⁾	W	27	39
	Cooling / Heating	Rated ²⁾	W	40	40
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
	Heating	H / M / L	m³/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
Sound Pressure		H / M / L	dBA	38 / 35 / 33	43 / 39 / 35
Sound Power		H / M / L	dBA	57 / 54 / 52	62 / 58 / 54
Dimensions	Body	W x H x D	mm	1,030 × 325 × 245	1,030 × 325 × 245
Net Weight			kg	15.4	15.4
Piping Connection	Liquid		mm	6.35	9.52
	Gas		mm	12.7	15.88
	Drain	I.D	mm	16.0	16.0

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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		ARNU18G SC *4	ARNU24G SC *4
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000
	2 Contact Point		PDRYCB400
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300
	Modbus Communication		PDRYCB500
EEV Kit for MULTI V Indoor			PRGK024A0

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

ARTCOOL GALLERY

ARNU07G**SF**14 / ARNU09G**SF**14 / ARNU12G**SF**14



Model		Independent Unit		ARNU07G SF 14	ARNU09G SF 14	ARNU12G SF 14
Capacity	Cooling	Nom	kW	2.2	2.8	3.6
	Heating	Nom	kW	2.5	3.2	4.0
Power Input	Cooling / Heating	Nom ¹⁾	W	28	28	35
	Cooling / Heating	Rated ²⁾	W	35	35	35
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 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	48 / 44 / 39	48 / 44 / 39	54 / 48 / 42
Dimensions	Body	W x H x D	mm	600 X 600 X 146	600 X 600 X 146	600 X 600 X 146
Net Weight			kg	15.0	15.0	15.0
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

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1) Nom. : Performance tested under EN14511
2) Rated : Max power input allowed for fan motor
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		ARNU07G SF 14	ARNU09G SF 14	ARNU12G SF 14
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000	
	2 Contact Point		PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300	
	Modbus Communication		PDRYCB500	
EEV Kit for MULTI V Indoor			PRGK024A0	

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

STANDARD

ARNU05G**SBL**4 / ARNU07G**SBL**4 / ARNU09G**SBL**4 / ARNU12G**SBL**4 / ARNU15G**SBL**4
ARNU18G**SCL**4 / ARNU24G**SCL**4 / ARNU30G**SVA**4 / ARNU36G**SVA**4



Model		Independent Unit		ARNU05G SBL 4	ARNU07G SBL 4	ARNU09G SBL 4	ARNU12G SBL 4	ARNU15G SBL 4	ARNU18G SCL 4	ARNU24G SCL 4	NEW ARNU30G SVA 4	NEW ARNU36G SVA 4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5	5.6	7.1	8.8	10.4
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0	6.3	8.0	9.4	10.8
Power Input	Cooling / Heating	Nom ¹⁾	W	12	13	15	19	21	27	39	67	104
	Cooling / Heating	Rated ²⁾	W	21	21	21	21	21	40	40	154	154
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 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	23.0 / 20.0 / 17.0	26.0 / 23.0 / 19.0
	Heating	H / M / L	m³/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5	23.0 / 20.0 / 17.0	26.0 / 23.0 / 19.0
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	49 / 44 / 42	52 / 47 / 43
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	61 / 58 / 55	63 / 60 / 57
Dimensions	Body	W x H x D	mm	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	895 × 289 × 215	1,030 × 325 × 255	1,030 × 325 × 255	1,190 × 346 × 265	1,190 × 346 × 265
Net Weight			kg	10.0	10.0	10.0	10.0	10.0	14.0	14.0	16.6	16.6
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52
	Gas		mm	12.7	12.7	12.7	12.7	12.7	12.7	15.88	15.88	15.88
	Drain	I.D	mm	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) Rated : Max power input allowed for fan motor
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		ARNU05G SBL 4	ARNU07G SBL 4	ARNU09G SBL 4	ARNU12G SBL 4	ARNU15G SBL 4	ARNU18G SCL 4	ARNU24G SCL 4	ARNU30G SVA 4	ARNU36G SVA 4
Dry Contact	Simple (1 Contact Point with Case)					PDRYCB000				
	2 Contact Point					PDRYCB400				
	For Thermostat (On-Off / Mode / Fan Speed)					PDRYCB300				
	Modbus Communication					PDRYCB500				
EEV Kit for MULTI V Indoor						PRGK024A0				-

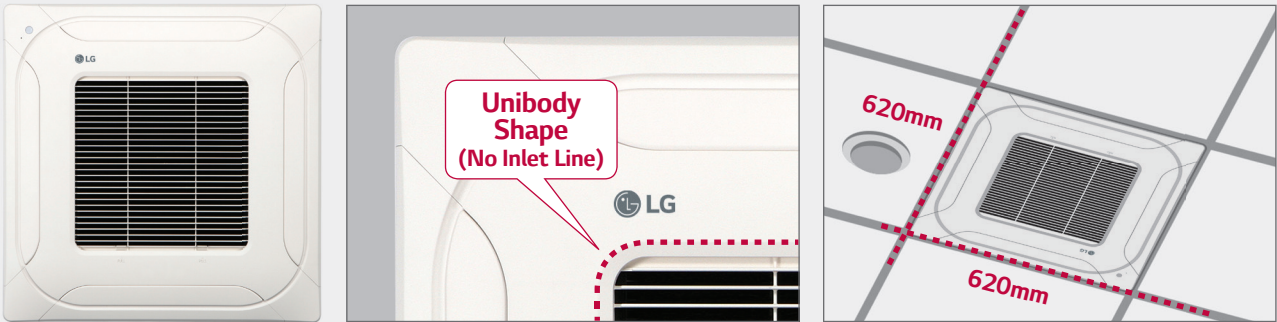
Wired Remote Controller					Wireless Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTB001 (Black)	 PQRCVCL0Q (Black) PQRCVCL0QW (White)	 PQRCHCA0Q (Black) PQRCHCA0QW (White)	 PQWRHQ0FDB

CEILING MOUNTED CASSETTE (4 WAY)

NEW

Compact and Stylish Design

- New 4 Way cassette panel adapted unibody shape and matching with into the ceiling
- Panel size is fit into the ceiling tile



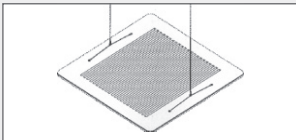
Auto Elevation Grille

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

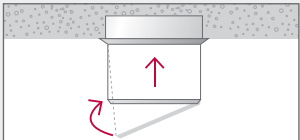
Easy filter cleaning with elevation grill.



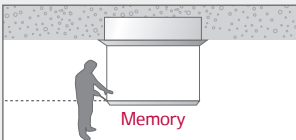
4-Point Support Structure



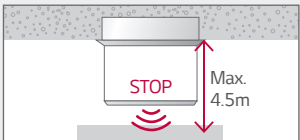
Auto Leveling



Memory for User's Level



Auto Stop Detection

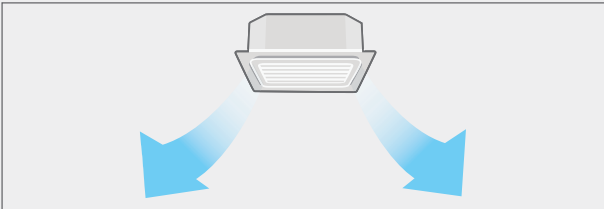


- * Operating with wired remote controller (Model Name : PREMTB001,PREMTB01) and wireless remote controller included in PTEGM0.
- * Except ARNU05GTRC4, ARNU07GTRC4, ARNU09GTRC4, ARNU12GTRC4, ARNU15GTQC4, ARNU18GTQC4, ARNU21GTQC4
- * Applied to Cassette panel PT-UMC1

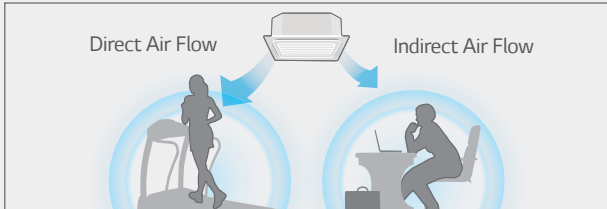
Independent Vane Control

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

All Vane Operation

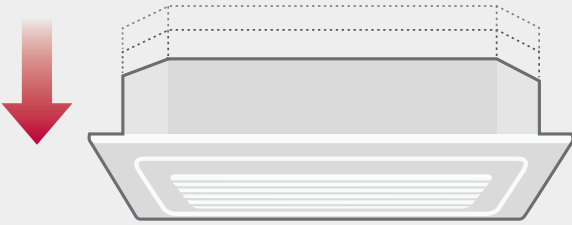


Independent Vane Control



Compact Size

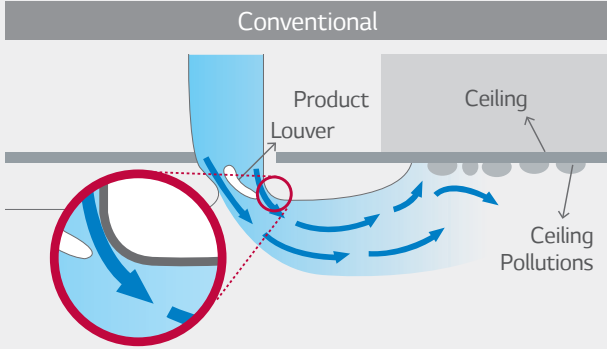
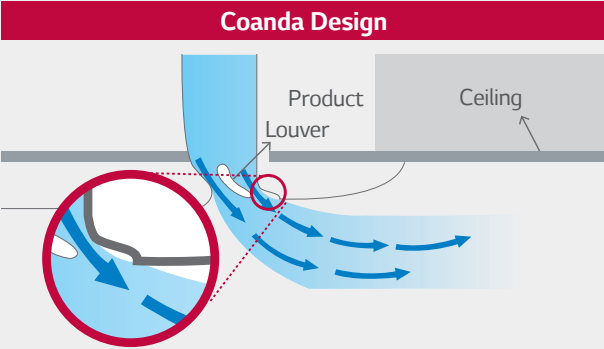
The indoor unit with slim and compact dimensions has reduced the restriction which enables successful installation in various spaces.



Capacity	Height
7.1 ~ 9.0kW	204mm
10.6kW	246mm
12.3 ~ 15.8kW	288mm

Prevent Ceiling Pollution

Coanda design of air outlet can prevent contamination of ceiling.



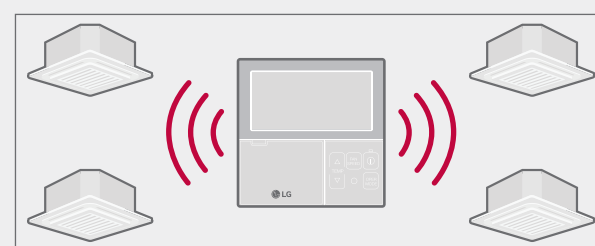
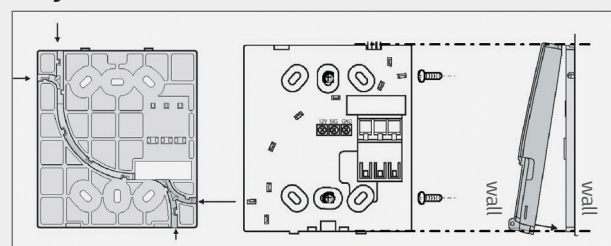
CEILING MOUNTED CASSETTE (4 WAY / 2 WAY)

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.

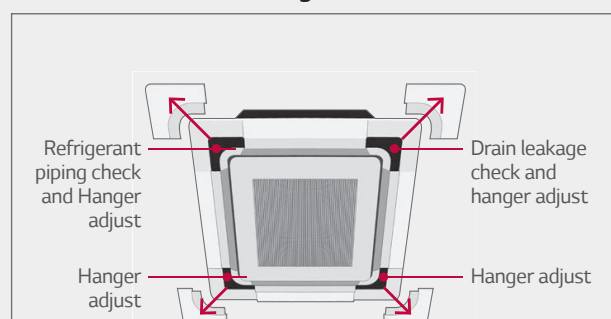
Easy & Solid Attachment to the Wall



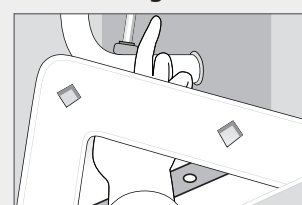
Convenient Panel Installation

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

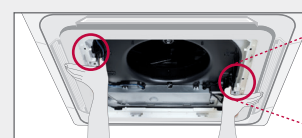
Detachable Corner Design



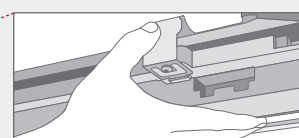
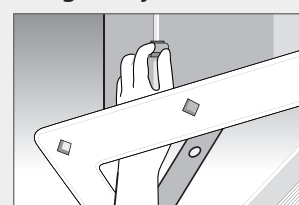
Drain leakage Check



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

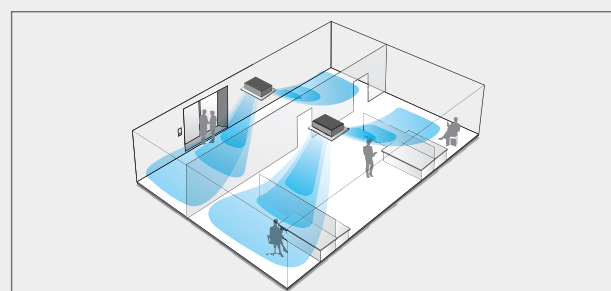


Hanger Adjust



2 Way Air Flow without Temperature Variation

2 Way cassette is suitable for narrow type of space such as office / hotel / dormitory corridor and it provides thermal comfort without temperature variation.

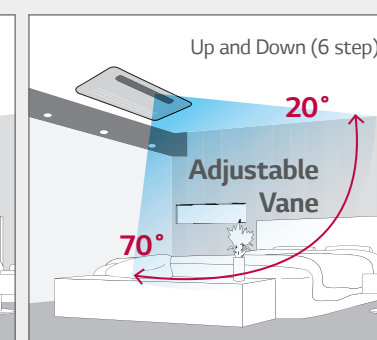
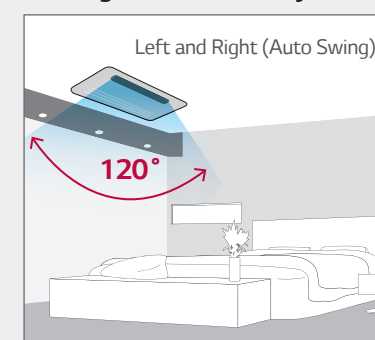


CEILING MOUNTED CASSETTE (1 WAY)

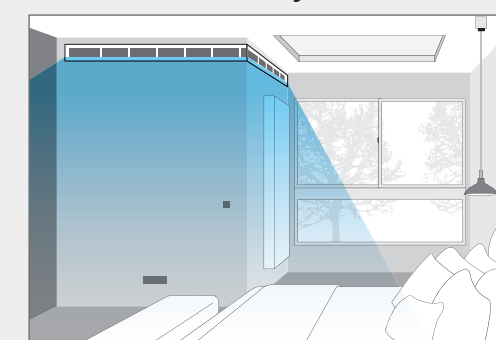
6-Step Vane Control

There are 6 different steps to control air flow direction. Also 1 Way cassette has vane to move auto swing between left and right as 120 degree.

Moving Air Flow_1 Way Cassette



Fixed Air Flow_Duct System



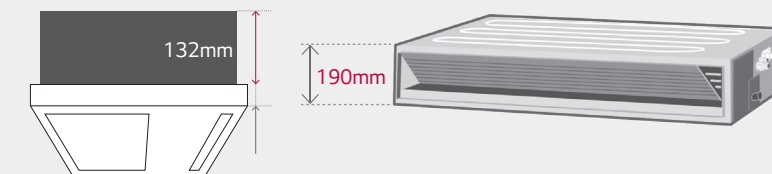
Minimized Height

LG 1 Way cassette isn't affected by installation environment. LG 1 Way cassette height is 132mm and duct is 190mm, so it can provide ideal solution for installation in limited space.

Size Comparison

	LG	A Company	B Company
1 Way Cassette	132	215	230
Duct	190	200	200

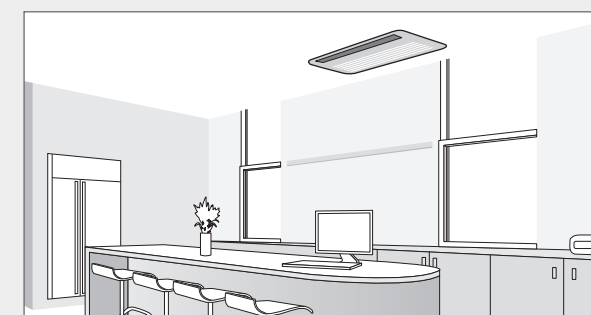
(Unit : mm)



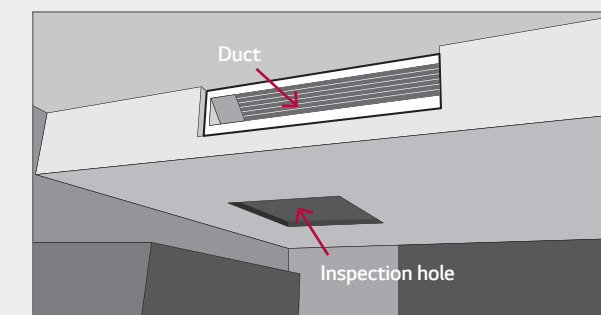
Flexible Installation

The access for inspection at 1 Way Cassette does not require additional ducted space making the installation environment uncomplicated.

1 Way Cassette



Duct



4 WAY CASSETTE (570×570)



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

NEW										
Model	Independent Unit			ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTRC4	ARNU18GTRC4	ARNU21GTRC4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5	5.6	6.0
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0	6.3	6.8
Power Input	Cooling / Heating	Nom ¹⁾	W	13	13	14	17	24	25	28
	Cooling / Heating	Rated ²⁾	W	30	30	30	30	30	30	30
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Heating	H / M / L	m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
Sound Pressure		H / M / L		dBA	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	40 / 38 / 34
Sound Power		H / M / L		dBA	46 / 44 / 43	46 / 44 / 43	47 / 46 / 44	48 / 47 / 44	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	12.6	12.6	13.7	13.7	15.0	15.0
Piping Connection	Liquid			mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas			mm	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm		25.0	25.0	25.0	25.0	25.0	25.0
Model					PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC
Decoration Panel 1		Color (RAL Code)			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
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	3.0	3.0	3.0	3.0	3.0	3.0
Model					PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0
Decoration Panel 2		Color (RAL Code)			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
Dimensions		WxHxD		mm	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620
Weight				kg	3.1	3.1	3.1	3.1	3.1	3.1

* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under EN14511

2) Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3.I.D : 'Internal Diameter'

Accessories

Model		ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTRC4	ARNU18GTRC4	ARNU21GTRC4
Dry Contact	Simple (1 Contact Point with Case)					PDRYCB000		
	2 Contact Point					PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)					PDRYCB300		
	Modbus Communication					PDRYCB500		
Front Panel		PT-QCHW0 / PT-UQC						
Ventilation Kit		PTVK430						
EEV Kit for MULTI V Indoor		PRGK024A0					-	

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

4 WAY CASSETTE (840×840)



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

NEW										
Model	Independent Unit			ARNU24GTPC4	ARNU28GTPC4	ARNU30GTNC4	ARNU36GTNC4	ARNU42GTMC4	ARNU48GTMC4	ARNU54GTMC4
Capacity	Cooling	Nom	kW	7.1	8.2	9.0	10.6	12.3	14.1	15.8
	Heating	Nom	kW	8.0	9.2	10.0	11.9	13.8	15.9	18.0
Power Input	Cooling / Heating	Nom ¹⁾	W	31	40	40	70	104	120	135
	Cooling / Heating	Rated ²⁾	W	40	40	40	144	144	144	144
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	17.0 / 15.0 / 13.0	19.0 / 16.0 / 14.0	24.3 / 22.8 / 19.5	25.0 / 21.0 / 19.0	30.0 / 27.0 / 24.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 27.0
	Heating	H / M / L	m³/min	17.0 / 15.0 / 13.0	19.0 / 16.0 / 14.0	24.3 / 22.8 / 19.5	25.0 / 21.0 / 19.0	30.0 / 27.0 / 24.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 27.0
Sound Pressure		H / M / L	dBA	36 / 34 / 31	39 / 35 / 33	40 / 36 / 33	43 / 40 / 37	44 / 41 / 38	46 / 43 / 41	50 / 48 / 44
Sound Power		H / M / L	dBA	55 / 53 / 50	56 / 54 / 52	57 / 54 / 52	62 / 59 / 56	63 / 59 / 56	65 / 61 / 59	69 / 67 / 63
Dimensions	Body	W x H x D	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight			kg	20.8	20.8	20.8	23.5	25.6	25.6	26.5
Piping Connection	Liquid		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		mm	15.88	15.88	15.88	15.88	15.88	15.88	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Decoration Panel	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Color (RAL Code)			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	W x H x D	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.6	5.6	5.6	5.6	5.6	5.6	5.6

* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under EN14511

2) Rated : Max power input allowed for fan motor

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		ARNU24G *C4	ARNU28G *C4	ARNU30G *C4	ARNU36G *C4	ARNU42G *C4	ARNU48G *C4	ARNU54G *C4
Dry Contact	Simple (1 Contact Point with Case)					PDRYCB000		
	2 Contact Point					PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)					PDRYCB300		
	Modbus Communication					PDRYCB500		
Front Panel						PT-UMC1		
Auto Elevation Grille						PTEGM0		
Ventilation Kit						PTVK410 / PTVK420 / PTVK430		

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

2 WAY CASSETTE



ARNU09G**TLC4** / ARNU12G**TLC4**
ARNU18G**TLC4** / ARNU24G**TLC4**

Model	Independent Unit			ARNU09G TLC4	ARNU12G TLC4	ARNU18G TLC4	ARNU24G TLC4
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 / Heating	Nom ¹⁾	W	28	30	34	40
	Cooling / Heating	Rated ²⁾	W	70	70	70	70
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	9.0 / 8.0 / 7.0	10.0 / 9.0 / 8.0	13.0 / 12.0 / 10.0	17.0 / 15.0 / 13.0
	Heating	H / M / L	m³/min	9.0 / 8.0 / 7.0	10.0 / 9.0 / 8.0	13.0 / 12.0 / 10.0	17.0 / 15.0 / 13.0
Sound Pressure		H / M / L	dBA	36 / 34 / 32	38 / 36 / 32	40 / 36 / 32	42 / 38 / 34
Sound Power		H / M / L	dBA	55 / 53 / 51	58 / 55 / 51	59 / 55 / 51	61 / 58 / 53
Dimensions	Body	W x H x D	mm	830 × 225 × 550	830 × 225 × 550	830 × 225 × 550	830 × 225 × 550
Net Weight			kg	20.6	20.6	20.6	20.6
Piping Connection	Liquid		mm	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0
Decoration Panel	Model			PT-HLC	PT-HLC	PT-HLC	PT-HLC
	Color			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	W x H x D	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)

1) Nom.: Performance tested under EN14511

2) Rated.: Max power input allowed for fan motor

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		ARNU09G TLC4	ARNU12G TLC4	ARNU18G TLC4	ARNU24G TLC4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000			
	2 Contact Point	PDRYCB400			
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300			
	Modbus Communication	PDRYCB500			
Front Panel		PT-HLC			
EEV Kit for MULTI V Indoor		PRGK024A0			-

Wired Remote Controller					Wireless Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB801 (Black)	PQRCVCLOQ (Black) PQRCVCLOQW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

1 WAY CASSETTE



ARNU07G**TUC4** / ARNU09G**TUC4** / ARNU12G**TUC4**
ARNU18G**TTC4** / ARNU24G**TTC4**

Model	Independent Unit			ARNU07G TUC4	ARNU09G TUC4	ARNU12G TUC4	ARNU18G TTC4	ARNU24G TTC4
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 / Heating	Nom ¹⁾	W	20	22	24	38	51
	Cooling / Heating	Rated ²⁾	W	40	40	40	70	70
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Heating	H / M / L	m³/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 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 / 53 / 50	59 / 56 / 54	62 / 59 / 55
Dimensions	Body	W x H x D	mm	860 × 132 × 450	860 × 132 × 450	860 × 132 × 450	1,180 × 132 × 450	1,180 × 132 × 450
Net Weight			kg	13.6	13.6	13.6	15.6	15.6
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	25.0	25.0	25.0	25.0	25.0
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)
	Color (RAL Code)			Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)
	Dimensions	W x H x D	mm	1,100 × 34 × 500	1,100 × 34 × 500	1,100 × 34 × 500	1,420 × 34 × 500	1,420 × 34 × 500
	Weight		kg	4.6	4.6	4.6	5.5	5.5

* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom.: Performance tested under EN14511

2) Rated.: Max power input allowed for fan motor

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

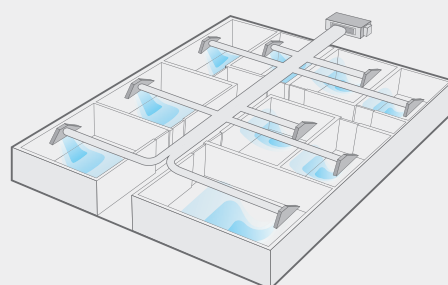
Model	ARNU07G TUC4	ARNU09G TUC4	ARNU12G TUC4	ARNU18G TTC4	ARNU24G TTC4
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000		
	2 Contact Point		PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300		
	Modbus Communication		PDRYCB500		
Front Panel		PT-UUC (Grill) / PT-UUD (Panel)		PT-UTC (Grill) / PT-UTD (Panel)	
EEV Kit for MULTI V Indoor		PRGK024A0		-	

Wired Remote Controller					Wireless Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB801 (Black)	PQRCVCLOQ (Black) PQRCVCLOQW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

CEILING CONCEALED DUCT

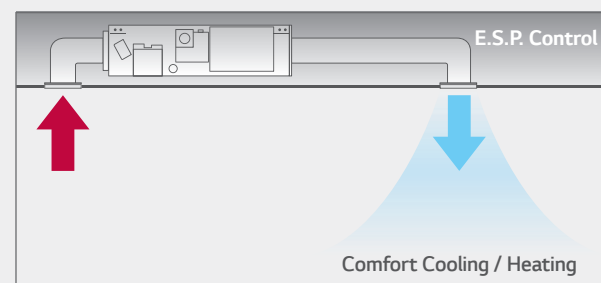
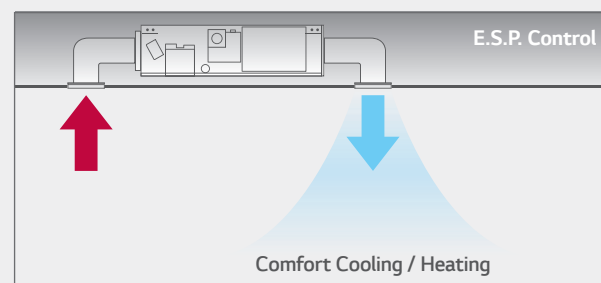
Operation for Multiple Rooms

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

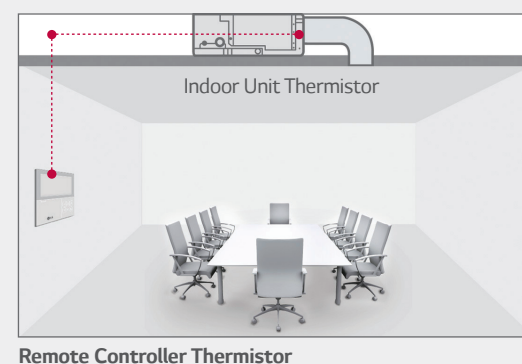
E.S.P. control function can make air volume controlled easily with remote controller. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.



Two Thermistors Control

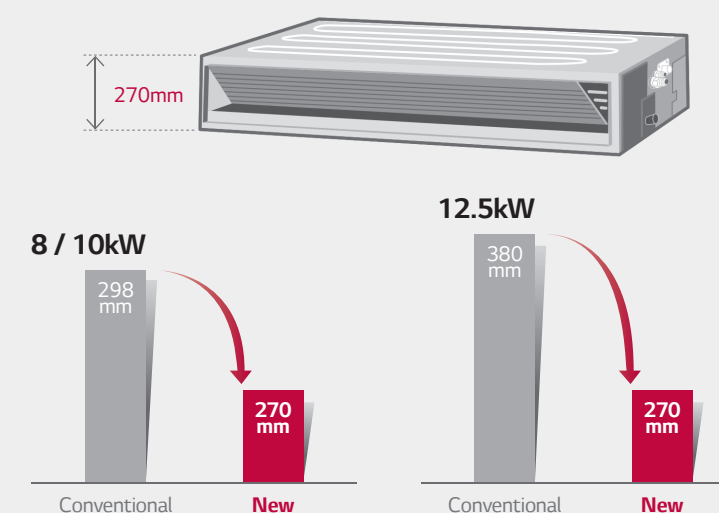
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.

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



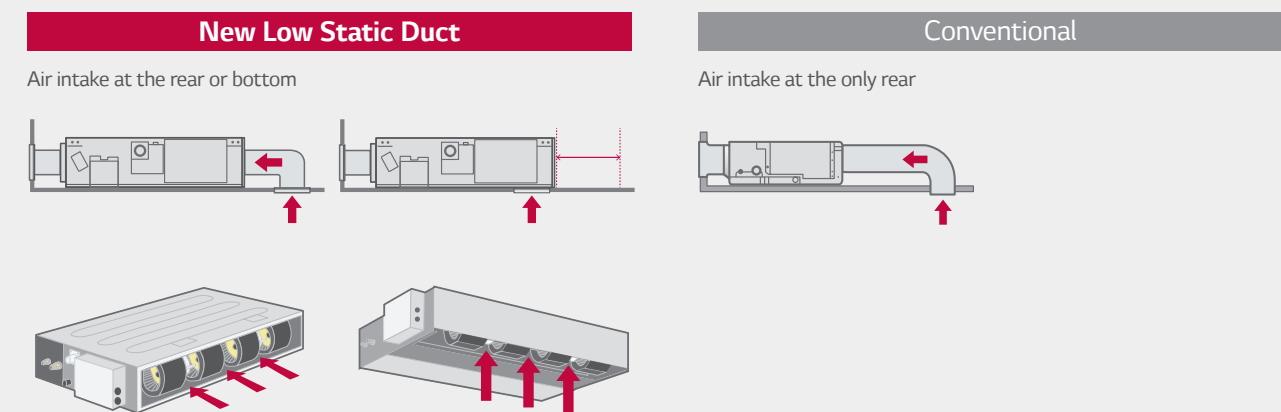
Minimized Height

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.



MID / HIGH STACTICS

ARNU07G**M1**A4 / ARNU09G**M1**A4 / ARNU12G**M1**A4
ARNU15G**M1**A4 / ARNU18G**M1**A4 / ARNU24G**M1**A4



Model		Independent Unit		ARNU07G M1 A4	ARNU09G M1 A4	ARNU12G M1 A4	ARNU15G M1 A4	ARNU18G M1 A4	ARNU24G M1 A4
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 / Heating	Nom ¹⁾	W	39	40	46	67	85	91
	Cooling / Heating	Rated ²⁾	W	190	190	190	190	190	190
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	Heating	H / M / L	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
External Static Pressure	Min ~ Max	mmAq(Pa)		2(20) ~ 15(147)	2(20) ~ 15(147)	2(20) ~ 15(147)	2(20) ~ 15(147)	2(20) ~ 15(147)	2(20) ~ 15(147)
Sound Pressure	H / M / L	dBA		26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26
Sound Power	H / M / L	dBA		55 / 54 / 51	55 / 54 / 52	55 / 54 / 52	56 / 54 / 53	58 / 56 / 54	59 / 58 / 56
Dimensions	Body	W x H x D	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
Net Weight			kg	25.5	25.5	25.5	25.5	25.5	26.5
	Liquid		mm	6.35	6.35	6.35	6.35	6.35	9.52
Piping Connection	Gas		mm	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0

* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under EN14511

2) Rated : Max power input allowed for fan motor

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. The Sound Pressure test condition is based on 50 Pa for middle static duct.

Accessories

Model		ARNU07G M1 A4	ARNU09G M1 A4	ARNU12G M1 A4	ARNU15G M1 A4	ARNU18G M1 A4	ARNU24G M1 A4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000					
	2 Contact Point	PDRYCB400					
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300					
	Modbus Communication	PDRYCB500					
EEV Kit for MULTI V Indoor		PRGK024A0					-
IR Receiver		PWLRVN000					

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

MID / HIGH STACTICS

ARNU28G**M2**A4 / ARNU36G**M2**A4 / ARNU42G**M2**A4 / ARNU48G**M3**A4
ARNU54G**M3**A4 / ARNU76G**B8**A4 / ARNU96G**B8**A4



Model		Independent Unit		ARNU28G M2 A4	ARNU36G M2 A4	ARNU42G M2 A4	ARNU48G M3 A4	ARNU54G M3 A4	ARNU76G B8 A4	ARNU96G B8 A4
Capacity	Cooling	Nom	kW	8.2	10.6	12.3	14.1	15.8	22.4	28.0
	Heating	Nom	kW	9.2	11.9	13.8	15.9	18.0	25.2	31.5
Power Input	Cooling / Heating	Nom ¹⁾	W	123	184	231	172	260	747	800
	Cooling / Heating	Rated ²⁾	W	350	350	350	400	400	800	800
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
	Heating	H / M / L	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
External Static Pressure	Min ~ Max	mmAq(Pa)		4(39) ~ 15(147)	4(39) ~ 15(147)	4(39) ~ 15(147)	4(39) ~ 15(147)	4(39) ~ 15(147)	6(59) ~ 25(245)	6(59) ~ 25(245)
Sound Pressure	H / M / L	dBA		36 / 34 / 33	37 / 36 / 34	38 / 37 / 36	39 / 37 / 35	42 / 40 / 39	45 / 41 / 40	47 / 42 / 41
Sound Power	H / M / L	dBA		59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	65 / 61 / 59	66 / 64 / 63	70 / 68 / 68	72 / 69 / 68
Dimensions	Body	W x H x D	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg	38.0	38.0	39.5	44.0	44.0	87.0	87.0
	Liquid		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
Piping Connection	Gas		mm	15.88	15.88	15.88	15.88	19.05	19.05	22.2
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0	25.0

* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under EN14511

2) Rated : Max power input allowed for fan motor

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. B8 : The Sound Pressure test condition is based on 220 Pa (High Static Pressue) as standard.

5. The Sound Pressure test condition is based on 50 Pa for middle static duct.

Accessories

Model		ARNU28G M2 A4	ARNU36G M2 A4	ARNU42G M2 A4	ARNU48G M3 A4	ARNU54G M3 A4	ARNU76G B8 A4	ARNU96G B8 A4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000						
	2 Contact Point	PDRYCB400						
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300						
	Modbus Communication	PDRYCB500						
EEV Kit for MULTI V Indoor		-						
IR Receiver		PWLRVN000						

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

LOW STACTICS

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4



Model		Independent Unit		ARNU05G1G4	ARNU07G1G4	ARNU09G1G4
Capacity	Cooling	Nom	kW	1.7	2.2	2.8
	Heating	Nom	kW	1.9	2.5	3.2
Power Input	Cooling / Heating	Nom ¹⁾	W	29	31	39
	Cooling / Heating	Rated ²⁾	W	40	40	40
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	Heating	H / M / L	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
External Static Pressure		Min - Max	mmAq(Pa)	0(0) ~ 5(49)	0(0) ~ 5(49)	0(0) ~ 5(49)
Sound Pressure		H / M / L	dBA	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22
Sound Power		H / M / L	dBA	47 / 46 / 44	48 / 46 / 44	49 / 47 / 44
Dimensions	Body	W x H x D	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	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7
	Drain	I.D	mm	25.4	25.4	25.4

* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom.: Performance tested under EN14511

2) Rated.: Max power input allowed for fan motor

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

Accessories

Model		ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000	
	2 Contact Point		PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300	
	Modbus Communication		PDRYCB500	
EEV Kit for MULTI V Indoor			PRGK024A0	
IR Receiver			PWLRVN000	

Wired Remote Controller					Wireless Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)		PQRCVCLOQ (Black) PQRCVCLOQW (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	4.0	5.0	6.3	7.0	8.0
Power Input	Cooling / Heating	Nom ¹⁾	W	41	56	71	72	103
	Cooling / Heating	Rated ²⁾	W	85	85	85	115	115
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	Heating	H / M / L	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
External Static Pressure		Min - Max	mmAq(Pa)	0(0) ~ 5(49)	0(0) ~ 5(49)	0(0) ~ 5(49)	0(0) ~ 5(49)	0(0) ~ 5(49)
Sound Pressure		H / M / L	dBA	30 / 27 / 25	33 / 30 / 28	35 / 32 / 29	35 / 29 / 28	36 / 33 / 28
Sound Power		H / M / L	dBA	52 / 49 / 46	53 / 52 / 50	54 / 53 / 52	56 / 53 / 51	58 / 54 / 51
Dimensions	Body	W x H x D	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	23.0	23.0	23.0	27.0	27.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	9.52	9.52
	Gas		mm	12.7	12.7	12.7	15.88	15.88
	Drain	I.D	mm	25.4	25.4	25.4	25.4	25.4

* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom.: Performance tested under EN14511

2) Rated.: Max power input allowed for fan motor

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

Accessories

Model		ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4
Dry Contact	Simple (1 Contact Point with Case)			PDRYCB000		
	2 Contact Point			PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)			PDRYCB300		
	Modbus Communication			PDRYCB500		
EEV Kit for MULTI V Indoor		PRGK024A0		-		
IR Receiver				PWLRVN000		

Wired Remote Controller					Wireless Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)		PQRCVCLOQ (Black) PQRCVCLOQW (White)		PQWRHQ0FDB

BUILT-IN

ARNU07GB3G4 / ARNU09GB3G4 / ARNU12GB3G4
ARNU15GB3G4 / ARNU18GB4G4 / ARNU24GB4G4



Model		Independent Unit		ARNU07G B3G4	ARNU09G B3G4	ARNU12G B3G4	ARNU15G B3G4	ARNU18G B4G4	ARNU24G B4G4
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 / Heating	Nom ¹⁾	W	30	38	41	53	60	83
	Cooling / Heating	Rated ²⁾	W	85	85	85	85	115	115
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
	Heating	H / M / L	m³/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5	11.0 / 10.0 / 8.0	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
External Static Pressure	Min ~ Max	mmAq(Pa)		0(0) ~ 4(39)	0(0) ~ 4(39)	0(0) ~ 4(39)	0(0) ~ 4(39)	0(0) ~ 4(39)	0(0) ~ 4(39)
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 / 52 / 51	55 / 53 / 52	60 / 55 / 53	61 / 58 / 55	62 / 61 / 55
Dimensions	Body	W x H x D	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	21.0	21.0	21.0	21.0	26.0	26.0
	Liquid		mm	6.35	6.35	6.35	6.35	6.35	9.52
Piping Connection	Gas		mm	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.4	25.4	25.4	25.4	25.4	25.4

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom.: Performance tested under EN14511
2) Rated: Max power input allowed for fan motor
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		ARNU07G B3G4	ARNU09G B3G4	ARNU12G B3G4	ARNU15G B3G4	ARNU18G B4G4	ARNU24G B4G4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000					
	2 Contact Point	PDRYCB400					
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300					
	Modbus Communication	PDRYCB500					
Suction Grille		PBSGB30				PBSGB40	
Suction Canvas		PBSC30				PBSC40	
EEV Kit for MULTI V Indoor		PRGK024A0					-
IR Receiver		PWLRVN000					

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

HIGH SENSIBLE

ARNU07GBGA4 / ARNU09GBGA4 / ARNU12GBGA4 / ARNU15GBGA4 / ARNU18GBRA4
ARNU24GBRA4 / ARNU28GBRA4 / ARNU36GB8A4 / ARNU42GB8A4 / ARNU48GB8A4



Model		Independent Unit		ARNU07G B A4	ARNU09G B A4	ARNU12G B A4	ARNU15G B A4	ARNU18G B A4	ARNU24G B A4	ARNU28G B A4	ARNU36G B A4	ARNU42G B A4	ARNU48G B A4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.2	10.6	12.3	14.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0	9.2	11.9	13.8	15.9
Power Input	Cooling / Heating	Nom ¹⁾	W	50	50	50	130	130	233	402	420	528	538
	Cooling / Heating	Rated ²⁾	W	450	450	450	450	450	450	450	800	800	800
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	12.5 / 11.5 / 9.4	12.8 / 11.5 / 9.4	13.5 / 12.1 / 9.4	13.8 / 11.8 / 8.3	15.2 / 13.8 / 11.8	29.8 / 27.3 / 23.8	36.2 / 32.1 / 28.5	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
	Heating	H / M / L	m³/min	12.5 / 11.5 / 9.4	12.8 / 11.5 / 9.4	13.5 / 12.1 / 9.4	13.8 / 11.8 / 8.3	15.2 / 13.8 / 11.8	29.8 / 27.3 / 23.8	36.2 / 32.1 / 28.5	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
External Static Pressure	Min ~ Max	mmAq (Pa)		3(29) ~ 18(177)	3(29) ~ 18(177)	3(29) ~ 18(177)	3(29) ~ 18(177)	5(49) ~ 20(196)	5(49) ~ 20(196)	5(49) ~ 20(196)	6(59) ~ 25(245)	6(59) ~ 25(245)	6(59) ~ 25(245)
Sound Pressure	H / M / L	dBA		31 / 30 / 29	32 / 31 / 29	32 / 31 / 30	33 / 32 / 31	33 / 32 / 31	44 / 43 / 42	45 / 44 / 43	46 / 45 / 42	47 / 46 / 43	47 / 46 / 44
Sound Power	H / M / L	dBA		58 / 56 / 55	59 / 56 / 55	59 / 58 / 56	59 / 58 / 56	59 / 58 / 56	63 / 62 / 60	64 / 63 / 62	66 / 64 / 60	67 / 66 / 62	67 / 66 / 63
Dimensions	Body	W x H x D	mm	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,230 x 380 x 590	1,230 x 380 x 590	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg	38.0	38.0	38.0	38.0	53.0	53.0	53.0	87.0	87.0	87.0
Piping Connection	Liquid		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		mm	15.88	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom.: Performance tested under EN14511
2) Rated: Max power input allowed for fan motor
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

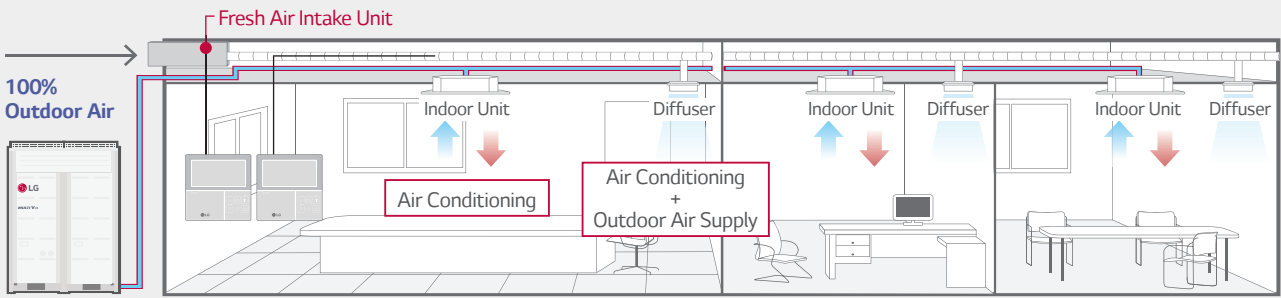
Model		ARNU07G	A4 ARNU09G	A4 ARNU12G	A4 ARNU15G	A4 ARNU18G	A4 ARNU24G	A4 ARNU28G	A4 ARNU36G	A4 ARNU42G	A4 ARNU48G	A4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000										
	2 Contact Point	PDRYCB400										
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300										
	Modbus Communication	PDRYCB500										
EEV Kit for MULTI V Indoor		PRGK024A0						-				
IR Receiver		PWLRVN000										

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

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.

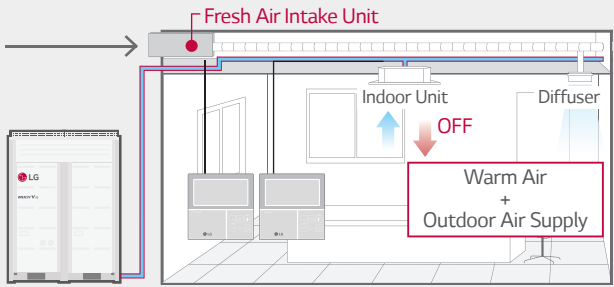


MULTI V IV Outdoor Unit

Economic Operation

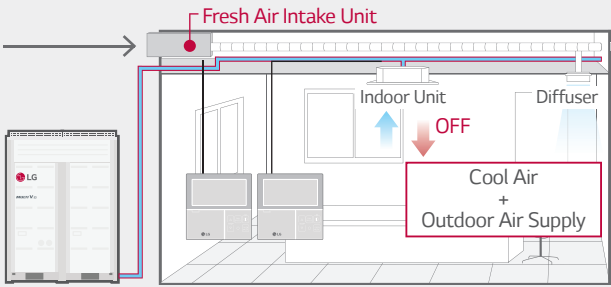
Using the free cooling and heating can save costs by blowing the natural outdoor air inside when the season change.

Spring Season



MULTI V IV Outdoor Unit

Autumn Season

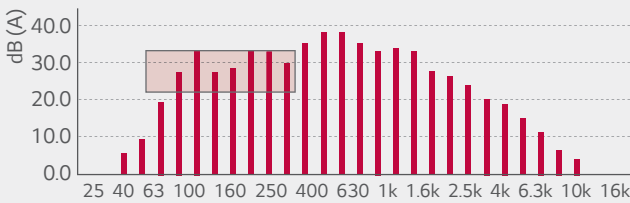


MULTI V IV Outdoor Unit

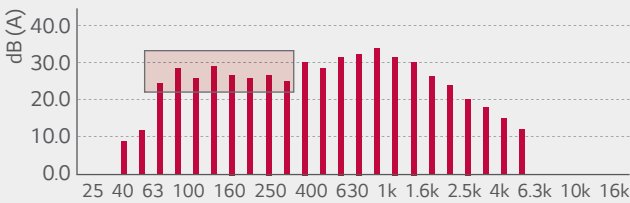
BLDC Fan Motor

It can reduce a noise at low frequencies.

AC Tap Motor



BLDC Motor



FRESH AIR INTAKE UNIT

ARNU48G**BR**Z4 / ARNU76G**B8**Z4 / ARNU96G**B8**Z4



Model	Independent Unit			ARNU48G BR Z4	ARNU76G B8 Z4	ARNU96G B8 Z4
Capacity	Cooling	Nom	kW	14.1	22.4	28.0
	Heating	Nom	kW	13.5	21.4	26.7
Power Input	Cooling / Heating	Nom ¹⁾	W	169	253	360
	Cooling / Heating	Rated ²⁾	W	169	360	360
Power Supply		Ø / V / Hz		1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 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	41 / 40 / 38	45 / 43 / 43	47 / 45 / 45
Sound Power		H / M / L	dBA	62 / 63 / 62	70 / 67 / 67	72 / 68 / 68
Dimensions	Body	W x H x D	mm	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg	45.0	73.0	73.0
	Liquid		mm	9.52	9.52	9.52
Piping Connection	Gas		mm	15.88	19.05	22.2
	Drain	I.D	mm	25.0	25.0	25.0

* This product contains Fluorinated Greenhouse Gases. (R410A)

1) Nom. : Performance tested under EN14511

2) Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m,

Level difference of zero

- Heating : Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m,

Level difference of zero

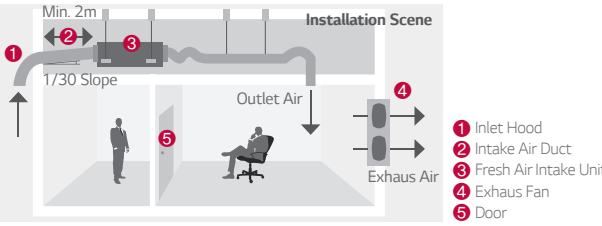
2. Capacities are net capacities

3. Noise Level is under standard mode [For actual High Mode (Factory set) condition,

Noise Level may exceed the standard level by 1.5db (A)]

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

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 capacity of fresh air intake unit should be 50 ~ 100% of outdoor unit. 2) The max quantity of fresh air intake is 4 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

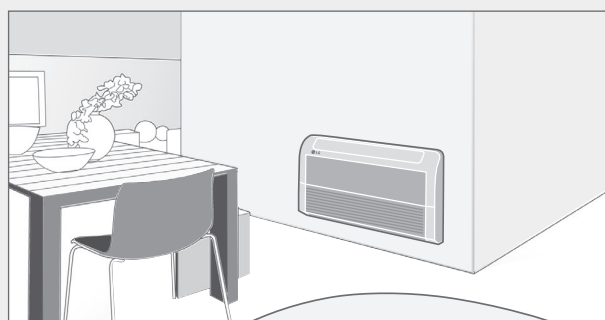
Model		ARNU48G BR Z4	ARNU76G B8 Z4	ARNU96G B8 Z4
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000	
	2 Contact Point		PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300	
	Modbus Communication		PDRYCB500	
IR Receiver			PWLRVN000	

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

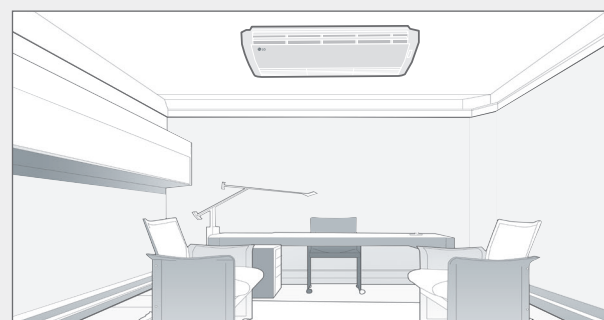
CEILING & FLOOR CONVERTIBLE UNIT CEILING SUSPENDED UNIT

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.



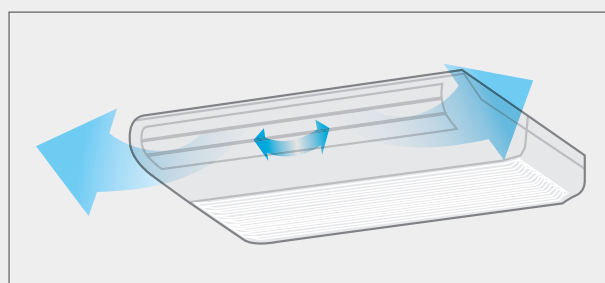
* Ceiling & Floor model name : ARNU09GVEA2, ARNU12GVEA2



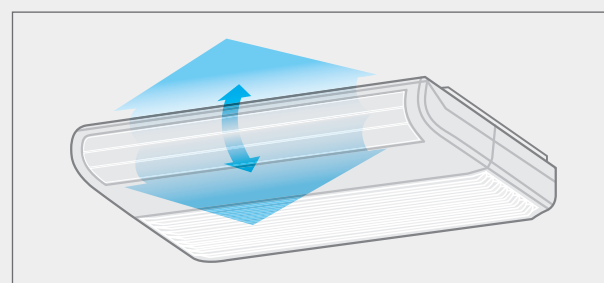
Airflow Direction Control

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

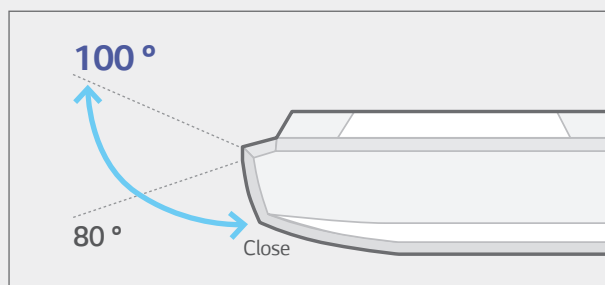
Horizontal



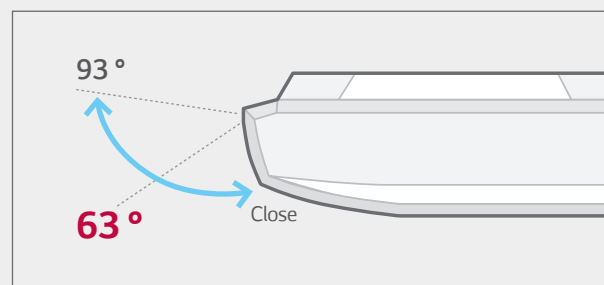
Vertical



Cooling

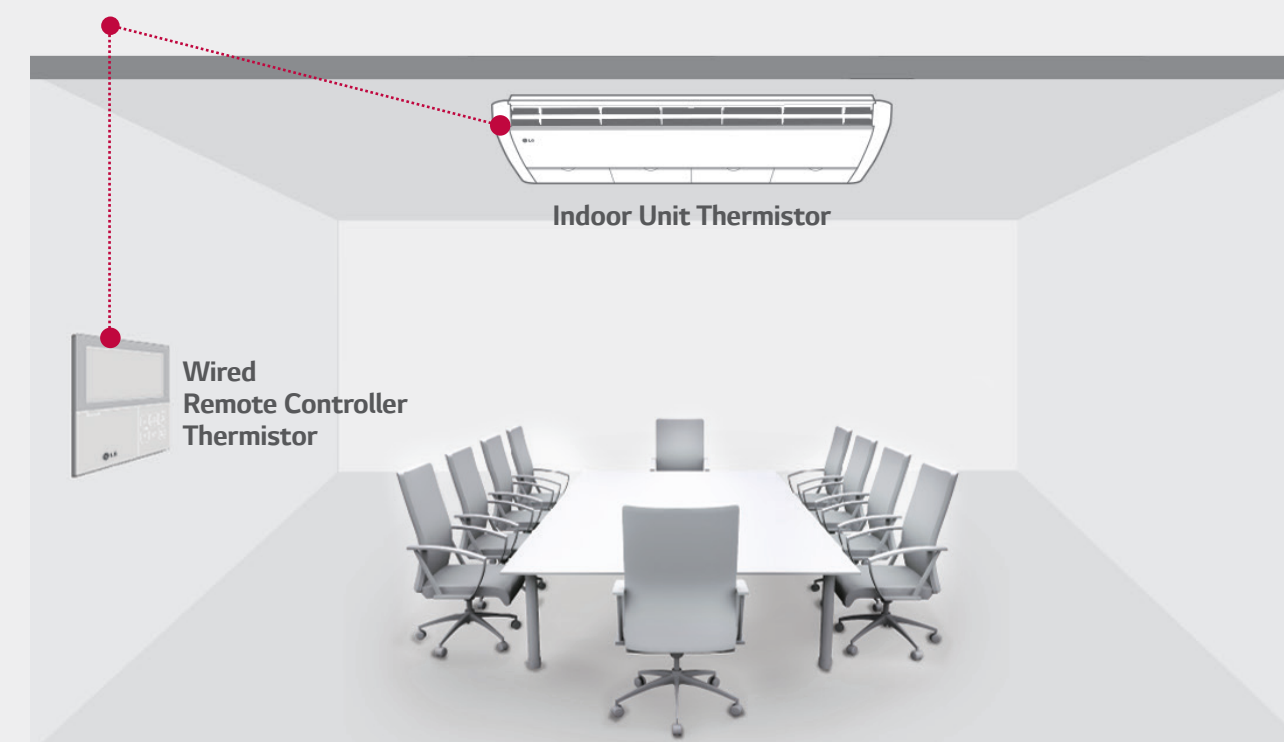


Heating



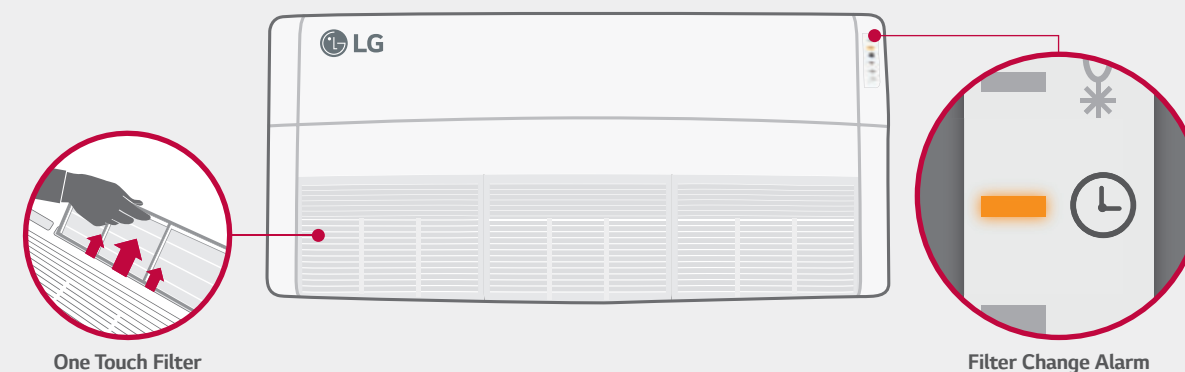
Two Thermistors Control

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



Filter Change Alarm

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



CEILING & FLOOR CONVERTIBLE UNIT

ARNU09G**VE**A2 / ARNU12G**VE**A2



Model		Independent Unit		ARNU09G VE A2		ARNU12G VE A2	
Capacity	Cooling	Nom	kW	2.8		3.6	
	Heating	Nom	kW	3.2		4.0	
Power Input	Cooling / Heating	Nom ¹⁾	W	22		30	
	Cooling / Heating	Rated ²⁾	W	30		30	
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60		1 / 220~240 / 50 1 / 220 / 60	
Airflow Rate	Cooling	H / M / L	m³/min	7.6 / 6.9 / 6.2		9.2 / 7.6 / 6.9	
	Heating	H / M / L	m³/min	7.6 / 6.9 / 6.2		9.2 / 7.6 / 6.9	
Sound Pressure		H / M / L	dBA	36 / 32 / 28		38 / 36 / 30	
Sound Power		H / M / L	dBA	55 / 51 / 45		56 / 55 / 49	
Dimensions	Body	W x H x D	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	16.0		16.0	

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) Rated : Max power input allowed for fan motor
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		ARNU09G VE A2		ARNU12G VE A2	
Dry Contact	Simple (1 Contact Point with Case)			PDRYCB000	
	2 Contact Point			PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)			PDRYCB300	
	Modbus Communication			PDRYCB500	
EEV Kit for MULTI V Indoor				PRGK024A0	

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

CEILING SUSPENDED UNIT

URNU18G**VJA**2 / URNU24G**VJA**2
URNU36G**VKA**2 / URNU48G**VLA**2



URNU18G**VJA**2 / URNU24G**VJA**2

URNU36G**VKA**2



URNU48G**VLA**2

Model		Independent Unit		URNU18G VJA 2	URNU24G VJA 2	URNU36G VKA 2	URNU48G VLA 2
Capacity	Cooling	Nom	kW	5.6	7.1	10.6	14.1
	Heating	Nom	kW	6.3	8.0	11.9	15.0
Power Input	Cooling / Heating	Nom ¹⁾	W	35	42	68	113
	Cooling / Heating	Rated ²⁾	W	63	63	140	190
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0	24.6 / 23.0 / 21.4	35.0 / 32.0 / 30.0
	Heating	H / M / L	m³/min	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0	24.6 / 23.0 / 21.4	35.0 / 32.0 / 30.0
Sound Pressure		H / M / L	dBA	42 / 40 / 37	43 / 41 / 39	48 / 46 / 44	49 / 48 / 47
Sound Power		H / M / L	dBA	61 / 59 / 56	62 / 59 / 56	68 / 66 / 64	68 / 67 / 66
Dimensions	Body	W x H x D	mm	950 x 650 x 220	950 x 650 x 220	1,350 x 650 x 220	1,750 x 650 x 220
Net Weight			kg	24.6	24.6	35.0	45.0
Piping Connection	Liquid		mm	6.35	9.52	9.52	9.52
	Gas		mm	12.7	15.88	15.88	15.88
	Drain	I.D	mm	16.0	16.0	16.0	16.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) Rated : Max power input allowed for fan motor
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		URNU18G VJA 2	URNU24G VJA 2	URNU36G VKA 2	URNU48G VLA 2
Dry Contact	Simple (1 Contact Point with Case)			PDRYCB000	
	2 Contact Point			PDRYCB400	
	For Thermostat (On-Off / Mode / Fan Speed)			PDRYCB300	
	Modbus Communication			PDRYCB500	

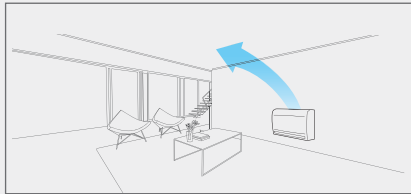
Wired Remote Controller					Wireless Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001 (White)	 PREMTBB01 (Black)	 PQRCVCLOQ (Black) PQRCVCLOQW (White)	 PQRCHCA0Q (Black) PQRCHCA0QW (White)	 PQWRHQ0FDB

CONSOLE

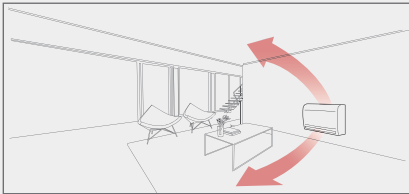
Installation Support Clip

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)



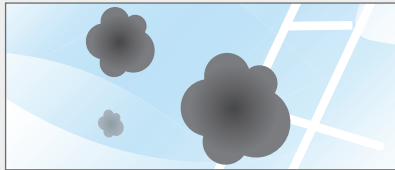
Quick Floor Heating

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.

	Company A	Electric Heater	LG	LG Floor Heating Mode
27°C	Vertical			
15°C	Horizontal			
Lead Time for Heating (13°C - 21°C)	12 minutes 30 seconds	50 minutes	9 minutes 30 seconds	8 minutes 40 seconds

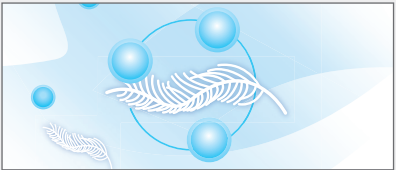
(Test Condition : Target Temp.23°C, Indoor Room : 13°C~, Outdoor Room : 7°C)

Healthier Air (3 Stage Air Filter System)



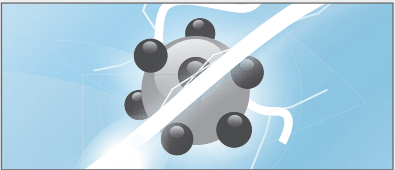
1st Advanced pre Filter :

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

ARNU07G**QAA4** / ARNU09G**QAA4**
ARNU12G**QAA4** / ARNU15G**QAA4**



Model	Independent Unit		ARNU07G QAA4	ARNU09G QAA4	ARNU12G QAA4	ARNU15G QAA4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6
	Heating	Nom	kW	2.5	3.2	4.0
Power Input	Cooling / Heating	Nom ¹⁾	W	15	15	18
	Cooling / Heating	Rated ²⁾	W	30	30	30
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 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
	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
Sound Pressure		H / M / L	dBA	37 / 34 / 28	37 / 34 / 28	39 / 34 / 28
Sound Power		H / M / L	dBA	53 / 50 / 44	53 / 50 / 44	56 / 50 / 44
Dimensions	Body	W x H x D	mm	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210
Net Weight			kg	14.0	14.0	14.0
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)
1) Nom. : Performance tested under EN14511
2) Rated : Max power input allowed for fan motor
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	ARNU07G QAA4	ARNU09G QAA4	ARNU12G QAA4	ARNU15G QAA4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000		
	2 Contact Point	PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300		
	Modbus Communication	PDRYCB500		
EEV Kit for MULTI V Indoor		PRGK024A0		

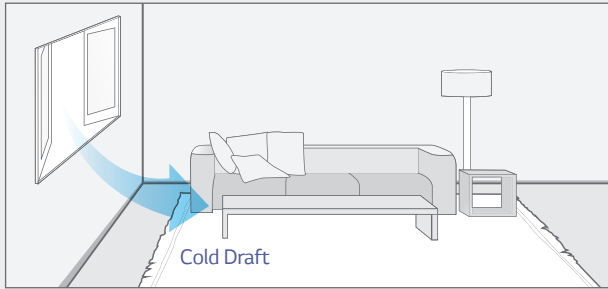
Wired Remote Controller					Wireless Remote Controller
Premium	Standard II		Simple	Simple for Hotel	
PREMTA000 PREMTA000A PREMTA000B	PREMTB001 (White)	PREMTB01 (Black)	PQRCVCLQQ (Black) PQRCVCLQW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

FLOOR STANDING UNIT

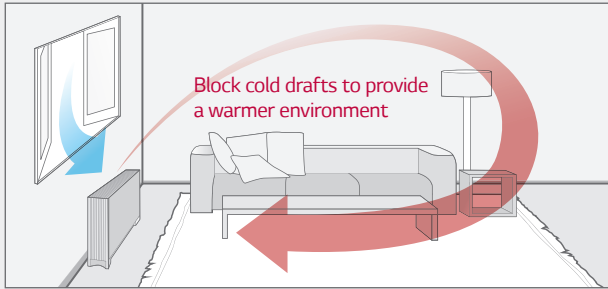
Block Cold Draft

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

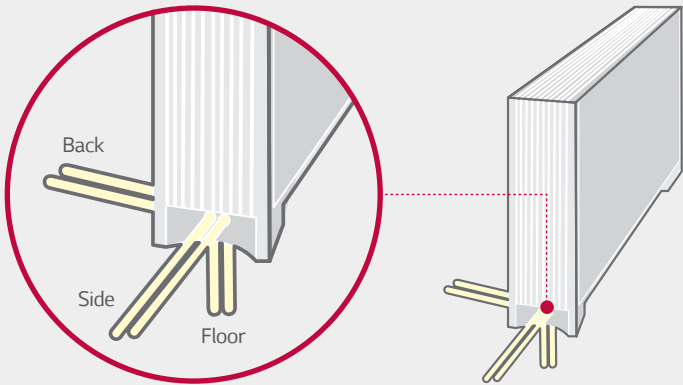


With Floor Standing



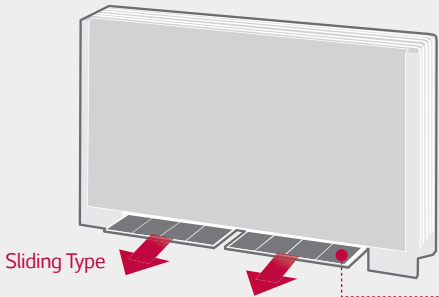
3 Way Flexible Installation

It is possible to install and connect the outdoor unit in 3 different ways (Side, Back, Floor).

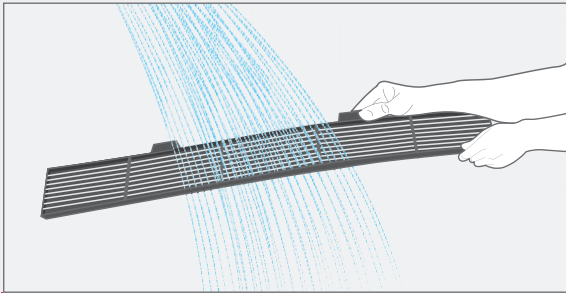


Sliding Type Filter

Easy maintenance and extended product life with sliding type filter.



Easy Cleaning



FLOOR STANDING UNIT

ARNU07G**CE***4 / ARNU09G**CE***4 / ARNU12G**CE***4
ARNU15G**CE***4 / ARNU18G**CF***4 / ARNU24G**CF***4



A : Floor standing with case



U : Floor standing without case

Model	Independent Unit			ARNU07G CF *4	ARNU09G CE *4	ARNU12G CE *4	ARNU15G CE *4	ARNU18G CF *4	ARNU24G CF *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 / Heating	Nom ¹⁾	W	24	30	36	44	54	84
	Cooling / Heating	Rated ²⁾	W	85	85	85	85	115	115
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Heating	H / M / L	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
Sound Pressure		H / M / L	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 / 54 / 52	57 / 55 / 54	59 / 57 / 55	60 / 57 / 54	61 / 60 / 57
Dimensions	Body	W x H x D	mm	1,067 x 635 x 203 (A) 978 x 639 x 190 (U)	1,067 x 635 x 203 (A) 978 x 639 x 190 (U)	1,067 x 635 x 203 (A) 978 x 639 x 190 (U)	1,067 x 635 x 203 (A) 978 x 639 x 190 (U)	1,345 x 635 x 203 (A) 1,256 x 639 x 190 (U)	1,345 x 635 x 203 (A) 1,256 x 639 x 190 (U)
Net Weight ³⁾			kg	27.0 (A) / 20.0 (U)	27.0 (A) / 20.0 (U)	27.0 (A) / 20.0 (U)	27.0 (A) / 20.0 (U)	34.0 (A) / 27.0 (U)	34.0 (A) / 27.0 (U)
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	12.0	12.0	12.0	12.0	12.0	12.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) Rated : Max power input allowed for fan motor
3) Floor standing with case (without case)
Note : 1. Capacities are based on the following conditions
- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification
3. I.D : ' Internal Diameter '

Accessories

Model		ARNU07G CE *4	ARNU09G CE *4	ARNU12G CE *4	ARNU15G CE *4	ARNU18G CF *4	ARNU24G CF *4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000					
	2 Contact Point	PDRYCB400					
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300					
	Modbus Communication	PDRYCB500					
EEV Kit for MULTI V Indoor		PRGK024A0					
IR Receiver		PWL RVN000				-	

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

MULTI V INDOOR COMPATIBILITY

Note : 1) No.1, 2, 3, 8 : Functions are available to use together with 4th generation Indoor units only. If used together 2nd generation indoor unit and 4th generation indoor unit functions will not be activate.
Combined with MULTI V Water S outdoor unit this function is not available
2) No. 4, 5, 6, 7, 9, 10, 11, 12, 13, 14 : If used together 2nd generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor
3) 2nd generation indoor unit : Ceiling & Floor Convertible Unit, Ceiling Suspended Unit, HYDRO KIT (Low Temp. / High Temp.), ERV DX (with Humidifier, without Humidifier), AHU Communication Kit

No.	New Function Name (4 th Generation Indoor)	Function Description	Required Controller		Remarks
			Wired Remote Controller	Centralized Controller	
1	Energy Monitoring (Accumulated Electric Energy Check)	Monitoring accumulated power consumption by Wired Remote Controller / Central Control Device / PDI	●	or ●	* Neccessary to install the PDI (Power Distribution Indicator) * Wired remote controller or central controller must be installed (Function can be activated using just one control device.) * Combined with MULTI V Water S outdoor unit, this function is not available
2	2 Set Point	1) 2 set point control by Indoor and Central controller 2) Synchronization function with remote control (Synchronization Setting and Monitoring)	●	or ●	* Wired remote controller or central controller must be installed (Function can be activated using just one control device.) * Combined with MULTI V Water S outdoor unit, this function is not available
3	Occupied / Unoccupied Scheduling Function (Sub Func. Enable)	1) Synchronization according to occupied / unoccupied by Indoor and Central control 2) Synchronization icon with remote controller (Synchronization Monitoring)	●	or ●	* Centralized control is able to when you combine only 4 th generation indoor units (Use together with 2nd generation and 4 th generation indoors, only wired remote controller is able to setting this function as existing way) * Wired remote controller or central controller must be installed (Function can be activatead using just one control device.) * Combined with MULTI V Water S outdoor unit, this function is not available
4	Group Control	Group Control can use Additional function	●	-	* Check more details in PDB (Product Data Book) (Additional functions added using together same type of indoor units)
5	Test Run (Heating)	Test run mode can operated in cooling mode and heating mode for easy service	●	-	
6	Model Information Monitoring	Product Type / Indoor Type / Indoor capacity information can be monitored by remote controller	●	-	
7	Auto Addressing	Wired remote controller can check indoor unit address information	●	-	
8	Refrigerant Leakage Detection	Function error sign display when refrigerant leakage occurred	●	-	* Central controller has been installed, CH230 error code can be recognized (Old / New Same) * Without Central Controller, it is able to recognize with wired remote controller (CH230) * Combined with MULTI V Water S outdoor unit, this function is not available
9	Thermo On / Off Range Setting (Cooling)	User can set cooling thermo On / Off range with wired remote controller for prevention overcooling	●	-	* Thermo On / Off temperature setting (3 Step)
10	Thermo On / Off Range Setting (Heating)	User can set heating thermo On / Off range with wired remote controller for prevention overheating. (4 Steps)	●	-	* Thermo On / Off temperature setting (4 Step)
11	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	Depends on the installation environment, 4 th generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable environment	●	-	* Only applied in Ceiling Concealed Duct
12	1 Point External Input (On / Off control)	Indoor unit can control external devices without purchasing Dry contact as an accessory (All 4 th generation indoors)	●	-	* Simple On / Off control by Dry Contact at Indoor [Example of Contact port by product type] * 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required) * 1 Way / 4 Way Cassette / Ceiling Concealed Duct / Wall Mounted Unit Console / FAU / Floor Standing (with Case / without Case) : CN-EXT Port
13	Filter Sign (Remaining Time)	The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.	●	-	
14	Auto Restart Function Disable / Enable	Enable : Restore the operation for status before power off Disable : Stand by at OFF mode after power failure compensation	●	-	

X : Not included this function in the Controller

Wired Remote Controller				Centralized Controller				
Premium (PREMTA000 PREMTA000A PREMTA000B)	Standard II (PREMTBB01) (PREMTB001)	Simple		AC EZ (PQCSZ250S0)	AC EZ Touch (PACEZA000)	AC Smart IV (PACS4B000)	ACP IV (PACP4B000)	AC Manager IV (PACM4B000)
Simple for Hotel (PQRCHCA0Q / QW)	Simple (PQRCVCLOQ / QW)							
●	●	X	X	X	●	●	●	●
●	X	X	X	X	●	●	●	X
●	X	X	X	X	●	●	●	X
●	●	X	X					
●	●	X	X					
●	●	X	X					
●	●	X	X					
●	●	X	X					
●	●	X	X					
●	●	X	X					
●	●	X	X					
●	●	X	X					
X	● (CN-CC Port Only)	X	X					
●	●	X	X					
●	●	X	X					

HOT WATER SOLUTION

| 142 Hydro Kit

HYDRO KIT

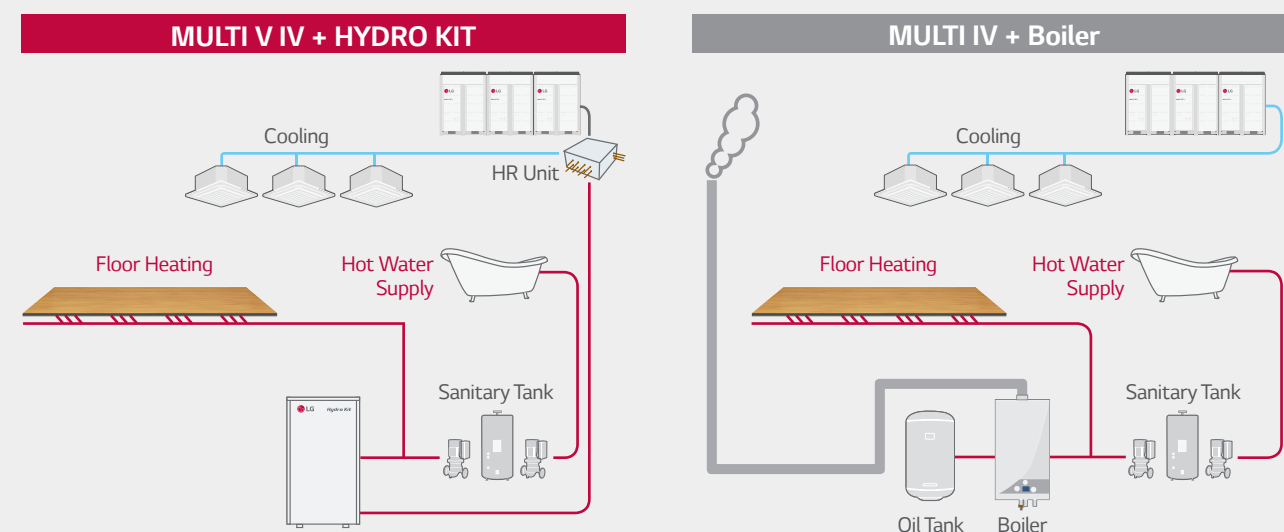
HYDRO KIT, using MULTI V to provide floor heating and hot water supply as a total HVAC solution.



HYDRO KIT

Easy Installation

Easy to install as it uses a compact and modular structure.

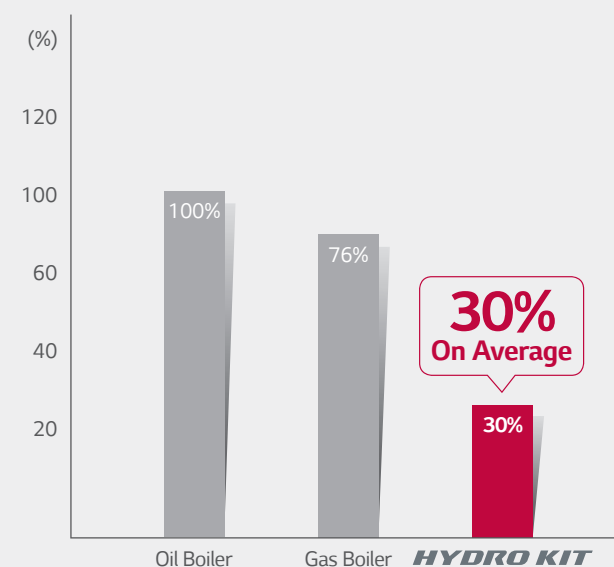


Eco-friendly Green Energy Solution

Green energy solution through the reduction of CO₂ emissions.



CO₂ Emissions



Saving Cost through High Efficiency

Possible to install with equivalent levels of capital cost as a boiler system and minimise energy bills thanks to lower operation costs.

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

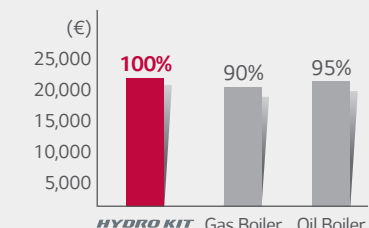
2nd Proposal MULTI V IV Air-Conditioning + Gas Boiler
(Hot Water Supply + Floor Heating)

3rd Proposal MULTI V IV Air-Conditioning + Oil Boiler
(Hot Water Supply + Floor Heating)

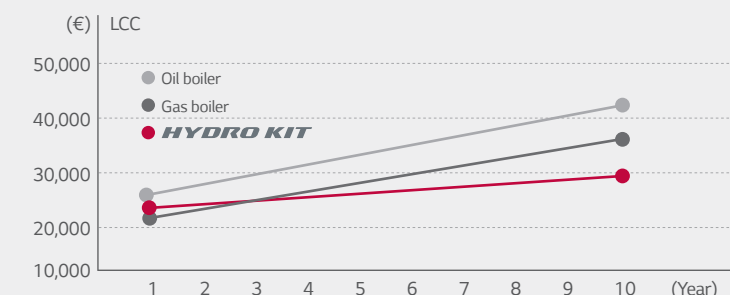
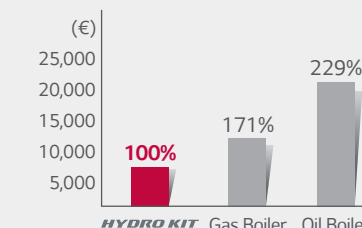
Analysis Conditions

- Building Type : Dormitory, Flats
- Cooling / Floor Heating / Sanitary Hot Water for 10 years
- Cooling : MULTI V IV Indoor Unit
- Floor Heating : Medium Temp. HYDRO KIT (1ea)
- Sanitary Hot Water : High Temp. HYDRO KIT (2ea), Sanitary Hot Water Tanks
- Electricity Cost : Average Cost in EU
- Gas Cost : Average Cost in EU
- Oil Cost : Average Cost in EU

Initial Costs

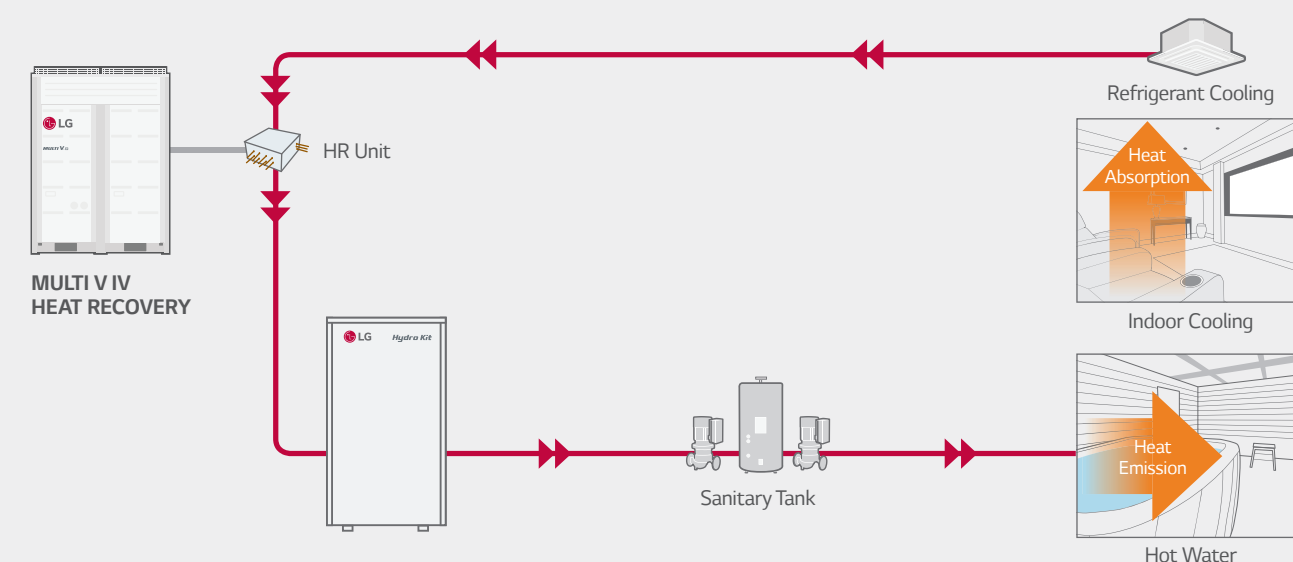


Annual Operating Coast



Energy Saving through MULTI V IV Heat Recovery

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



HYDRO KIT

High Temperature Concept of HYDRO KIT

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

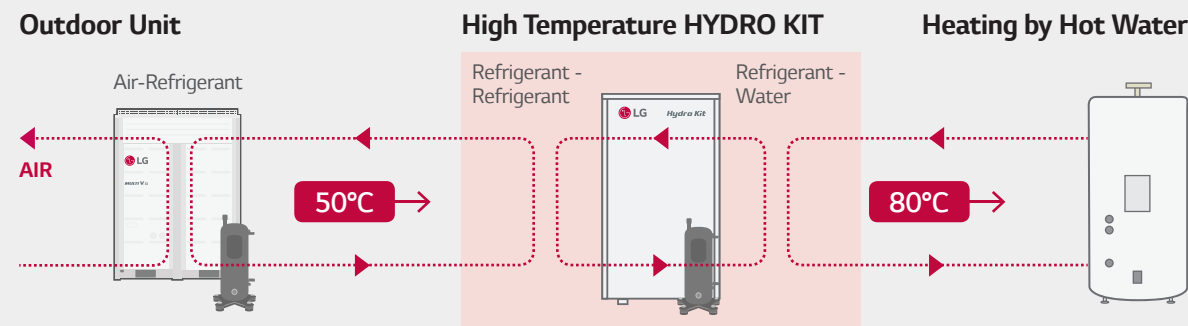
Dual Inverter Cascade Cycle Technology

- Max 55% improved capacity compared to mid-temp. of HYDRO KIT
- Max 20% reduced heating operating cost compared to mid-temp. of HYDRO KIT
- Cascade R410A to R134A BLDC compressor technology

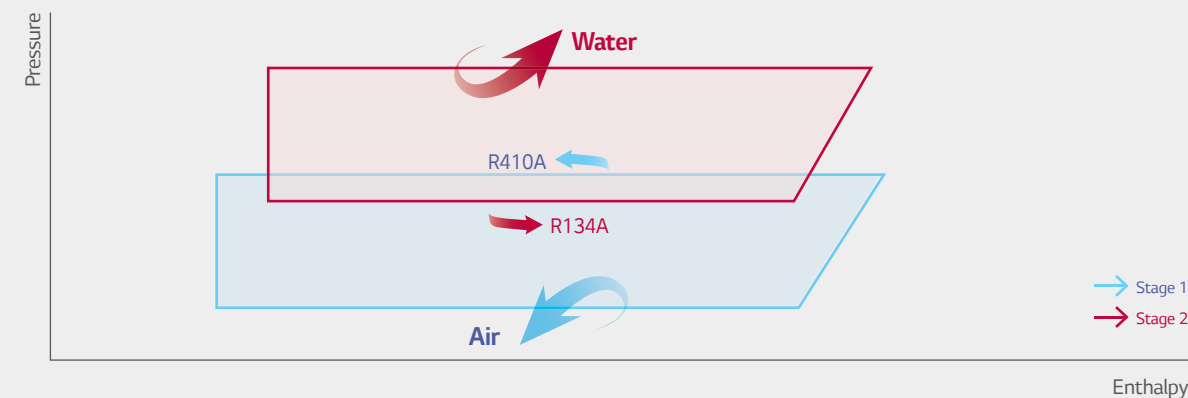
High Volume of Hot Water

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

High Temperature of HYDRO KIT Cycle Diagram



High Temperature Technology



Various Applications

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

Office



University / School



Hospital / Clinic



Shopping Mall / Restaurant



Hotel / Resort

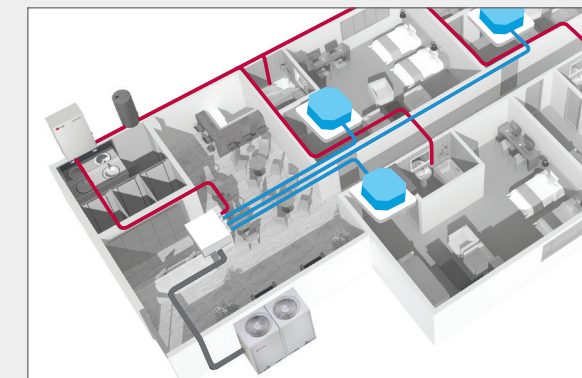


Factory Facilities



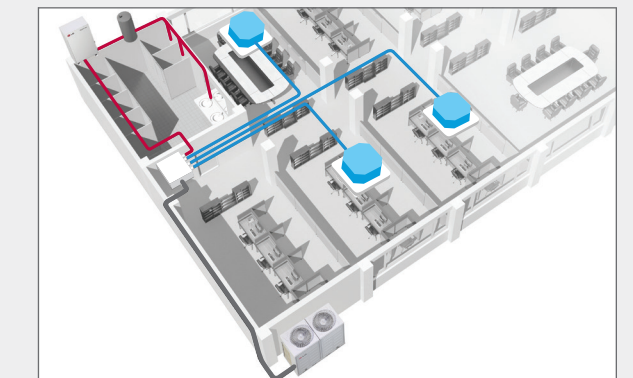
Hotel Application

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**K2A2** / ARNH10G**K2A2**



Type				Low Temp.		Low Temp.	
Model				ARNH04G K2A2		ARNH10G K2A2	
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60		1 / 220-240 / 50 1 / 220 / 60	
Capacity (Rated)	Cooling		kW	12.3		28.0	
	Heating		kW	13.8		31.5	
Power Input	Cooling	Max	kW	0.01		0.01	
	Heating	Max	kW	0.01		0.01	
Water Outlet Temperature	Cooling	Min	°C	6°C		6°C	
	Heating	Max	°C	50°C		50°C	
Casing				Painted Steel Plate		Painted Steel Plate	
Dimensions	Body	W x H x D	mm	520 × 631 × 330		520 × 631 × 330	
			inch	20-15 / 32 x 24-27 / 32 x13		20-15 / 32 x 24-27 / 32 x13	
Net Weight			kg (lbs)	30.4 (67)		35.0 (77.2)	
Heat Exchanger	Refrigerant to Water	Type		Blazed Plate Hex		Blazed Plate Hex	
		Rated Water Flow	L/min	39.6		92.0	
		Head Loss	kPa	41.0		69.0	
	Refrigerant to Refrigerant	Type		-		-	
Compressor			Type	-		-	
Piping Connections	Water Side	Inlet	inch	Male PT 1		Male PT 1	
		Outlet	inch	Male PT 1		Male PT 1	
	Refrigerant Side	Liquid Side	mm (inch)	9.52 (3/8)		9.52 (3/8)	
		Gas Side	mm (inch)	15.88 (5/8)		22.2 (7/8)	
Drain Piping Connection			mm (inch)	Male PT 1		Male PT 1	
Sound Pressure Level	Cooling		dB (A)	26		26	
	Heating		dB (A)	26		26	
Power Supply Cable			No. x mm²	3C × CV2.5		3C × CV2.5	
Communication Cable			No. x mm²	2C × CVV-SB 1.0-1.5		2C × 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	Connctected to Heat Pump	Cooling	°C (DB)	10°C ~ 43°C		10°C ~ 43°C	
		Heating	°C (DB)	-20°C ~ 35°C		-20°C ~ 35°C	
	Connctected to Heat Recovery	Cooling	°C (DB)	10°C ~ 43°C		10°C ~ 43°C	
		Heating	°C (DB)	-20°C ~ 43°C		-20°C ~ 43°C	
Combination Ratio	Only Hydrokit	Min ~ Max	%	50 ~ 100		50 ~ 100	
	Hydrokit + Standard IDUs	Min ~ Max	%	50 ~ 130		50 ~ 130	

* This product contains Fluorinated Greenhouse Gases. (R410A)
Note : 1. Capacities are based on the following conditions :
- Cooling : Indoor 27°C (80.6°F) DB / 19° C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB, Water Inlet 23°C (73.4°F) / Outlet 18°C (64.4°F)
- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 30°C (86°F) / Outlet 35°C (95°F)
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.
6. Anti freezing liquid should be added under 10°C (outdoor temp.) during cooling mode.

HYDRO KIT

ARNH04G**K3A2** / ARNH08G**K3A2**



Type				High Temp.		High Temp.	
Model				ARNH04G K3A2		ARNH08G K3A2	
Power Supply				Ø / V / Hz		1 / 220-240 / 50 1 / 220 / 60	
Capacity (Rated)	Cooling			kW		-	
	Heating			kW		13.8 25.2	
Power Input	Cooling		Max	kW		-	
	Heating		Max	kW		2.3 5.0	
Water Outlet Temperature	Cooling		Min	°C		-	
	Heating		Max	°C		80°C 80°C	
Casing				Painted Steel Plate		Painted Steel Plate	
Dimensions	Body	W x H x D	mm	520 × 1,080 × 330		520 × 1,080 × 330	
			inch	20-15 / 32 × 42-17 / 32 x13		20-15 / 32 × 42-17 / 32 x13	
Net Weight				kg (lbs)		88.0 (194.0) 94.0 (207.2)	
Heat Exchanger	Refrigerant to Water	Type		Blazed Plate Hex		Blazed Plate Hex	
		Rated Water Flow	L/min	19.8		36.0	
		Head Loss	kPa	5.0		20.0	
	Compressor	Refrigerant to Refrigerant	Type		Blazed Plate Hex		Blazed Plate Hex
Type			Twin Rotary Inverter		Twin Rotary Inverter		
Piping Connections	Water Side	Inlet	inch	Male PT 1		Male PT 1	
		Outlet	inch	Male PT 1		Male PT 1	
	Refrigerant Side	Liquid Side	mm (inch)	9.52 (3/8)		9.52 (3/8)	
		Gas Side	mm (inch)	15.88 (5/8)		19.05 (3/4)	
Drain Piping Connection				mm (inch)		Male PT 1 Male PT 1	
Sound Pressure Level	Cooling			dB (A)		- -	
	Heating			dB (A)		43 43	
Power Supply Cable				No. x mm²		3C × CV4.0 3C × CV4.0	
Communication Cable				No. x mm²		2C × CVV-SB 1.0-1.5 2C × 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	Connctected to Heat Pump	Cooling	°C (DB)	-		-	
		Heating	°C (DB)	-20°C ~ 35°C		-20°C ~ 35°C	
	Connctected to Heat Recovery	Cooling	°C (DB)	-		-	
		Heating	°C (DB)	-20°C ~ 43°C		-20°C ~ 43°C	
Combination Ratio	Only Hydrokit	Min ~ Max	%	50 ~ 100		50 ~ 100	
	Hydrokit + Standard IDUs	Min ~ Max	%	50 ~ 130		50 ~ 130	

* This product contains Fluorinated Greenhouse Gases. (R410A, R134A)
Note : 1. Capacities are based on the following conditions :
- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 55°C (131°F) / Outlet 65°C (149°F)
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.

VENTILATION SOLUTION

150 Energy Recovery Ventilator

158 Energy Recovery Ventilator with DX Coil



ERV

Energy Recovery Ventilator

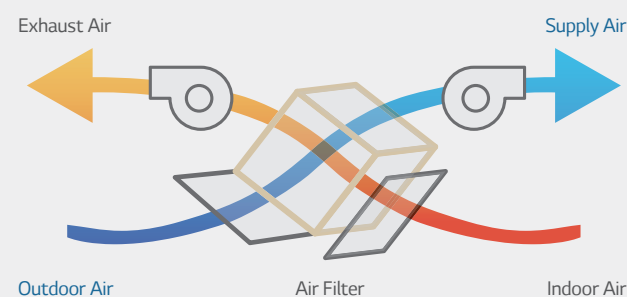


ERV

Energy Recovery Ventilator

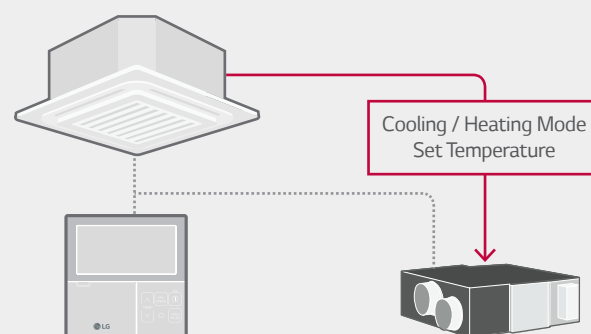
High Efficiency Heat Exchanger

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



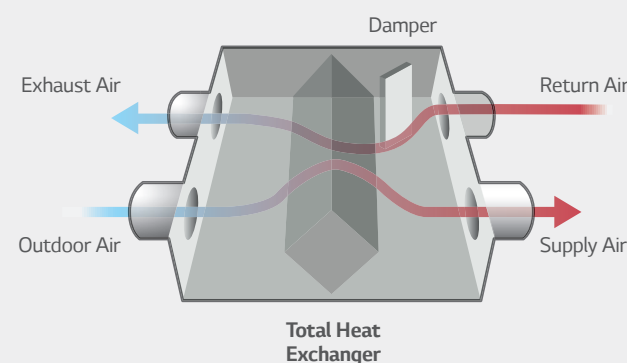
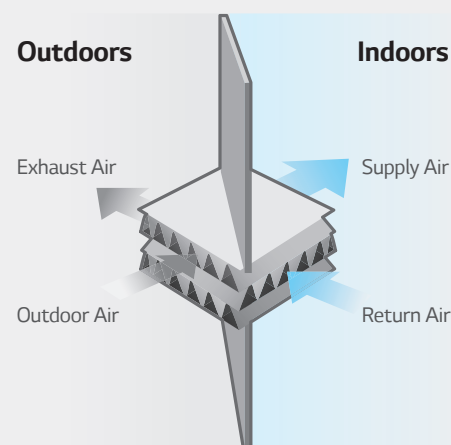
Interlocking with Air Conditioning System

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



Compulsory Exhausting System

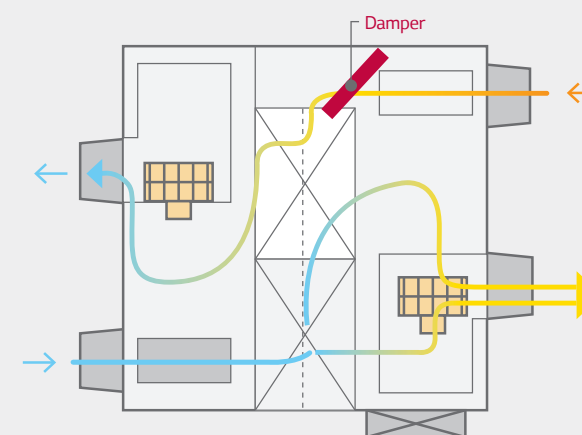
The exhausting system using high static and sirocco fan removes contaminants effectively from indoor air. Supply and exhaust air flows are completely separated in the total heat exchanger, LG ERV can filter out the impurities before supplying outdoor air and make indoor air fresh and healthy.



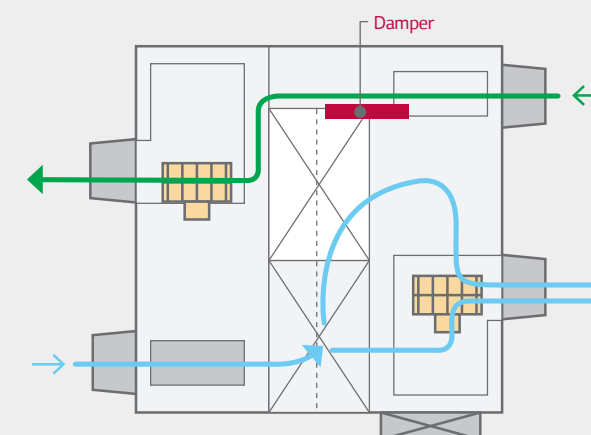
Bypass Ventilation

LG ERV automatically switches the ventilation mode (Enthalpy Heat Exchange Mode / Bypass Mode) according to the indoor / outdoor temperature.

Enthalpy Heat Exchange Mode (Summer / Winter)



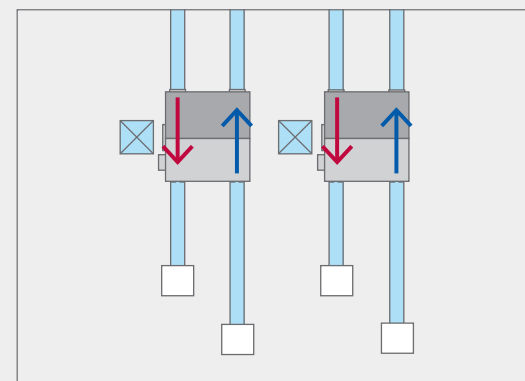
Bypass Mode (Seasonal Change)



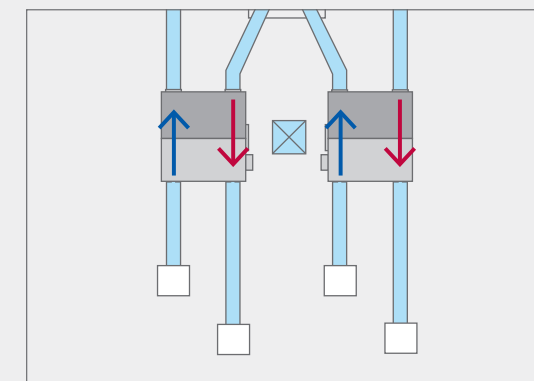
Flexibility of Installation

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

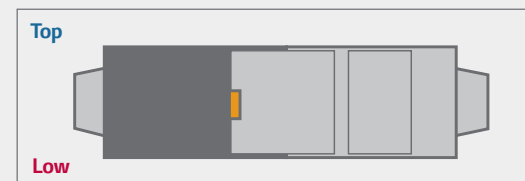
Normal Installation of 2 Units



Reverse Installation of 1 Unit (Left Unit)



Inspection Chamber

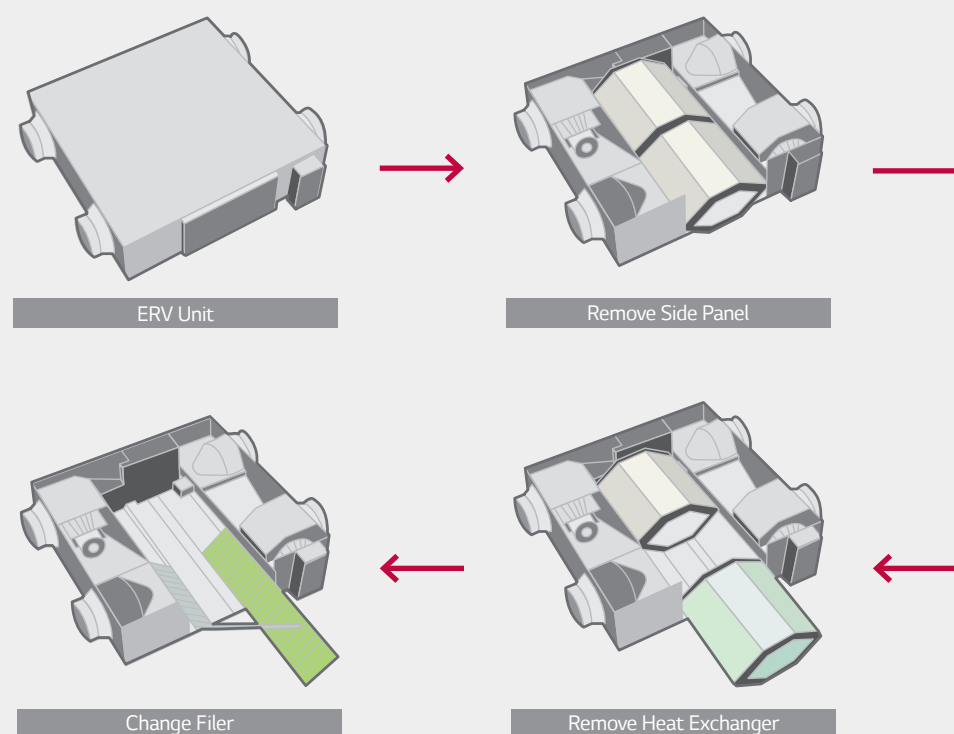


ERV

Energy Recovery Ventilator

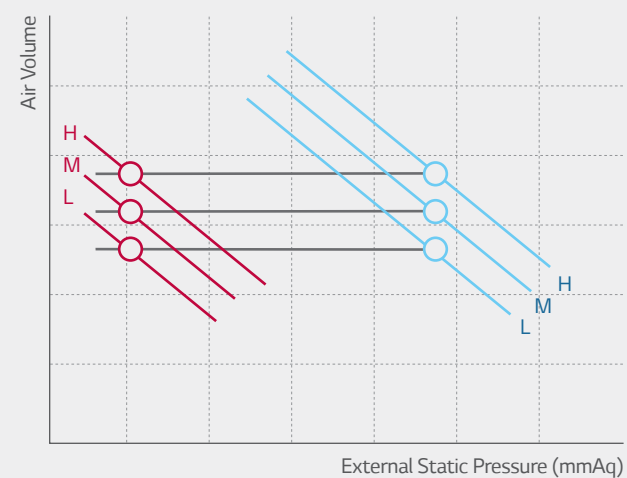
Easy Cleaning and Filter Change

It is easy and convenient to change and clean the filter.



External Static Pressure Control

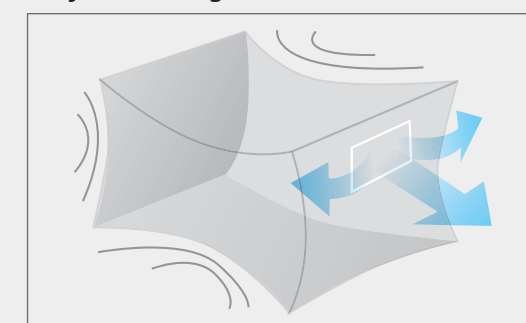
The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



Fast Ventilation Mode

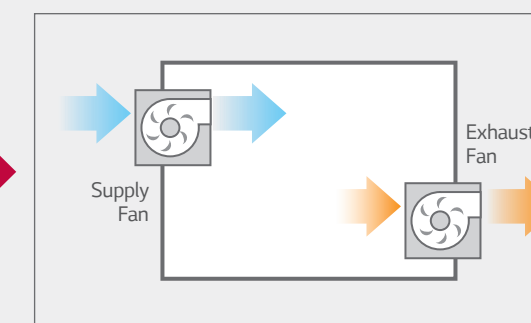
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

Only Exhausting



Exhausting operation causes negative indoor air pressure, and cannot fully ventilate.

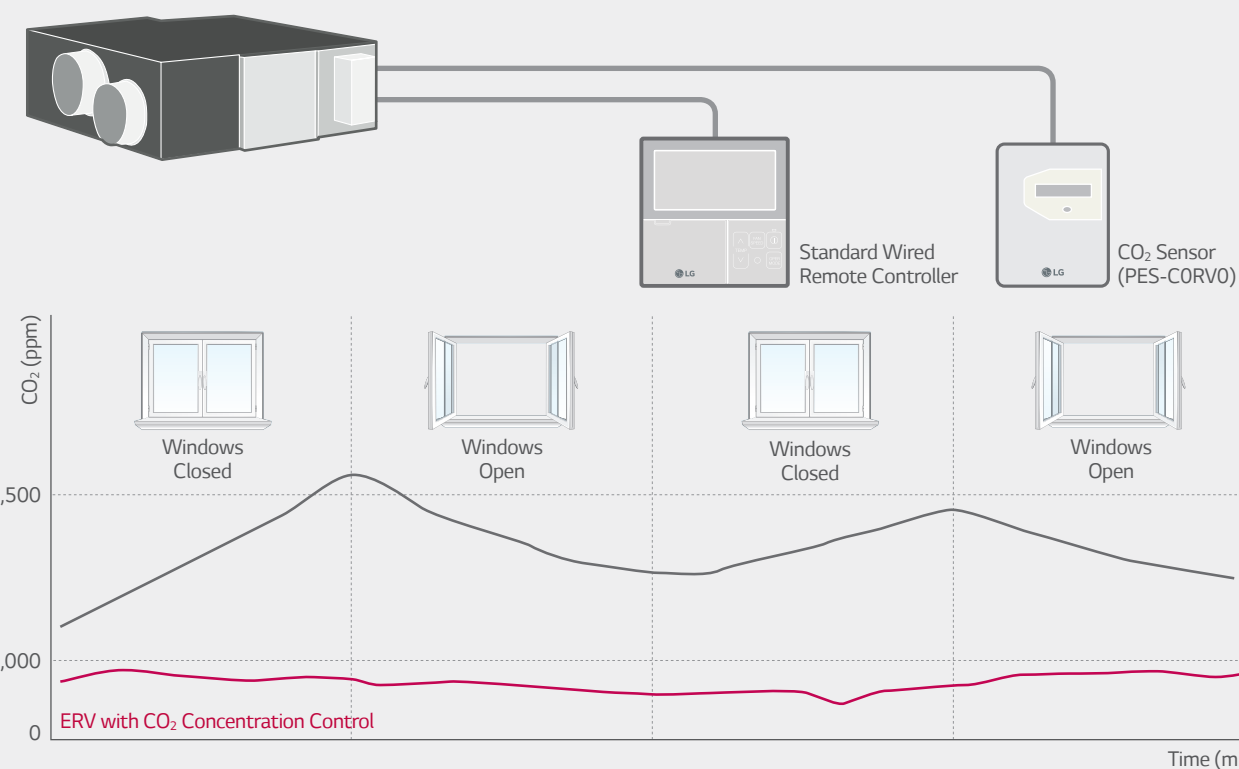
Fast Ventilation Mode



Exhausting and Supplying Simultaneously

CO₂ Concentration Control

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



ERV

Energy Recovery Ventilator

LZ-H025GBA4 / LZ-H035GBA4 / LZ-H050GBA4



Model				LZ-H025GBA4	LZ-H035GBA4	LZ-H050GBA4
Nominal Capacity		CMH (CFM)		250 (147)	350 (206)	500 (294)
Power Supply		Ø / V / Hz		1 / 220~240 / 50, 60		
ERV Mode	Step		-	SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83	75 / 75 / 77	78 / 78 / 79
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72	68 / 68 / 70	73 / 73 / 75
		Cooling (SH / H / L)	%	66 / 66 / 68	63 / 63 / 65	66 / 66 / 69
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	29 / 28 / 24	32 / 30 / 27	34 / 32 / 25
Bypass Mode	Step		-	SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	29 / 29 / 25	32 / 30 / 27	35 / 33 / 25
Heat Exchanger		Type	-	Air to air cross flow heat exchange		
Net Weight		kg		44	44	44
Dimension		W x H x D	mm	988 x 273 x 1,014	988 x 273 x 1,014	988 x 273 x 1,014
Duct work*	Qty	EA		4		
	Size (Ø)	mm		Ø200		
	Qty	EA		1		
Supply Air Fan		Type	-	Direct-Drive (Sirocco Fan)		
Exhaust Air Fan	Qty	EA		1		
	Type	-		Direct-Drive (Sirocco Fan)		
	Qty	EA		2		2
Filters	Type	-		Cleanable fibrous fleeces		
	Size (W x H x D)	mm		855 x 10 x 160		855 x 6 x 230
Dry Contact				PDRYCB000		

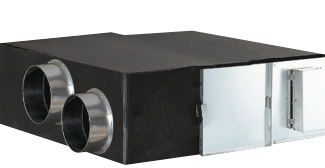
Note : 1. ERV mode : Total Heat Recovery Ventilation mode
2. *: Refer to dimensional drawings.
3. Noise level :
- The operating conditions are assumed to be standard
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
4. Temperature and Enthalpy Exchange Efficiency at cooling
Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
5. Temperature and Enthalpy Exchange Efficiency at heating
Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
6. Temperature Exchange efficiency is tested at heating condition.

Premium	Standard II		CO ₂ Sensor
 PREMTA000 PREMTA000A PREMTA000B	 PREMTBB01	 PREMTB001	 PES-CORVO

ERV

Energy Recovery Ventilator

LZ-H080GBA4 / LZ-H100GBA4
LZ-H150GBA4 / LZ-H200GBA4



LZ-H080GBA4 / LZ-H100GBA4



LZ-H150GBA4 / LZ-H200GBA4

Model				LZ-H080GBA4	LZ-H100GBA4	LZ-H150GBA4	LZ-H200GBA4	
Nominal Capacity				CMH (CFM)	800 (471)	1,000 (589)	1,500 (883)	2,000 (1,177)
Power Supply				Ø / V / Hz	1 / 220~240 / 50, 60			
ERV Mode	Step		-	SUPER-HIGH / HIGH / LOW				
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60	
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210	780 / 540 / 377	960 / 770 / 420	
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)	
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	
	Temperature Exchange Efficiency	SH / H / L	%	79 / 79 / 82	77 / 77 / 78	79 / 79 / 82	77 / 77 / 78	
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	72 / 72 / 74	70 / 70 / 72	72 / 72 / 74	70 / 70 / 72	
		Cooling (SH / H / L)	%	63 / 63 / 66	59 / 59 / 63	63 / 63 / 66	59 / 59 / 63	
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	40 / 37 / 31	41 / 38 / 32	43 / 40 / 34	44 / 41 / 35	
Bypass Mode	Step		-	SUPER-HIGH / HIGH / LOW				
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60	
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210	780 / 540 / 377	960 / 770 / 420	
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)	
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	41 / 38 / 32	41 / 39 / 33	44 / 41 / 35	44 / 42 / 36	
Heat Exchanger		Type	-	Air to air cross flow heat exchange				
Net Weight		kg		62		140		
Dimension		W x H x D	mm	1,062 x 365 x 1,140		1,313 x 738 x 1,140		
Duct work*	Qty	EA		4		4 + 2		
	Size (Ø)	mm		Ø250		Ø250 + Ø350		
Supply Air Fan	Qty	EA		1		2		
	Type	-		Direct-Drive (Sirocco Fan)				
Exhaust Air Fan	Qty	EA		1		2		
	Type	-		Direct-Drive (Sirocco Fan)				
Filters	Qty	EA		2		4		
	Type	-		Cleanable fibrous fleeces				
	Size (W x H x D)	mm		1,056 x 6 x 212.5				
Dry Contact				PDRYCB000				

Note : 1. ERV mode : Total Heat Recovery Ventilation mode
2. *: Refer to dimensional drawings.
3. Noise level :
- The operating conditions are assumed to be standard
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
4. Temperature and Enthalpy Exchange Efficiency at cooling
Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
5. Temperature and Enthalpy Exchange Efficiency at heating
Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
6. Temperature Exchange efficiency is tested at heating condition.

Premium	Standard II		CO ₂ Sensor
 PREMTA000 PREMTA000A PREMTA000B	 PREMTBB01	 PREMTB001	 PES-CORVO

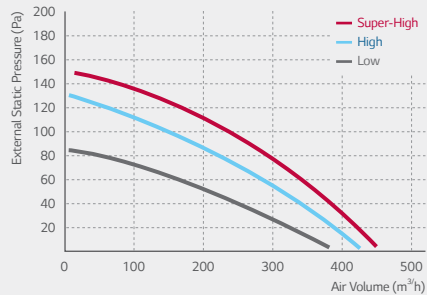
ERV

Energy Recovery Ventilator

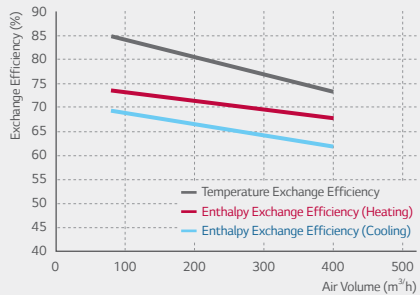
LZ-H025GBA4



Ventilation



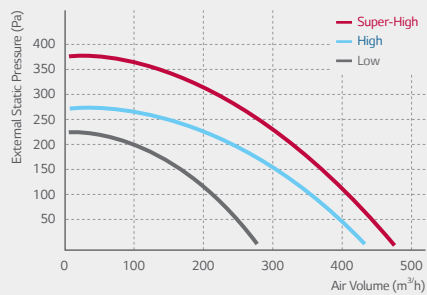
Efficiency



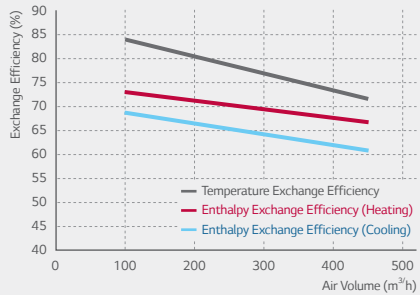
LZ-H035GBA4



Ventilation



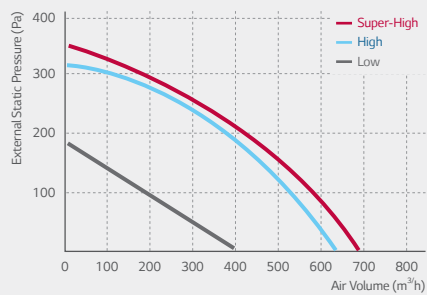
Efficiency



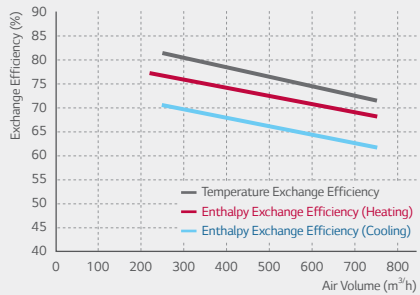
LZ-H050GBA4



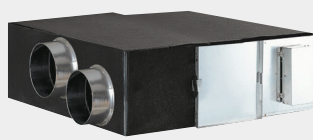
Ventilation



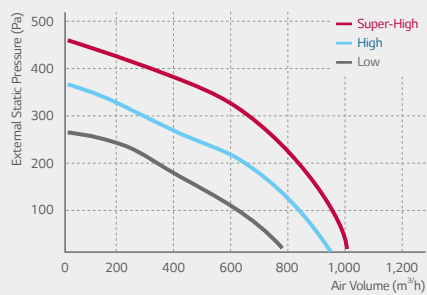
Efficiency



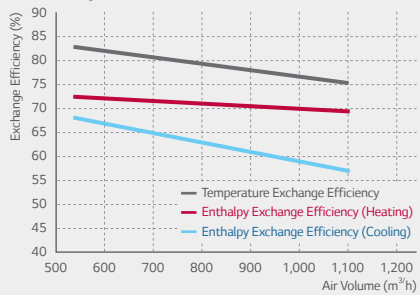
LZ-H080GBA4



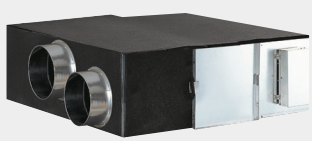
Ventilation



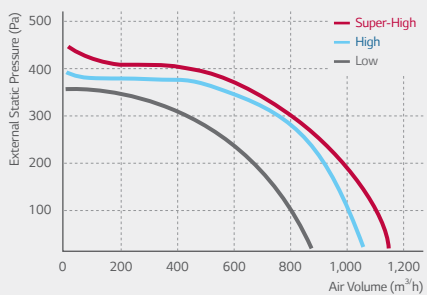
Efficiency



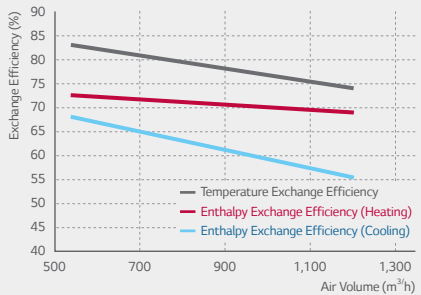
LZ-H100GBA4



Ventilation



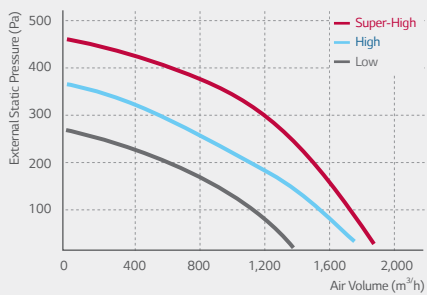
Efficiency



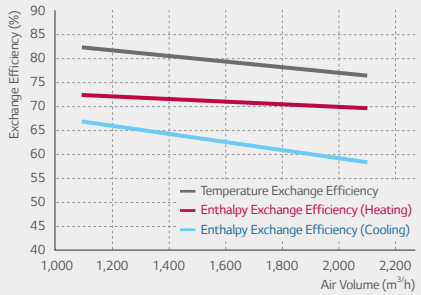
LZ-H150GBA4



Ventilation



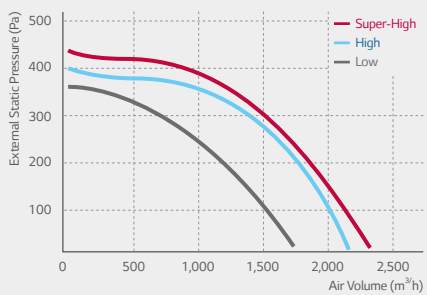
Efficiency



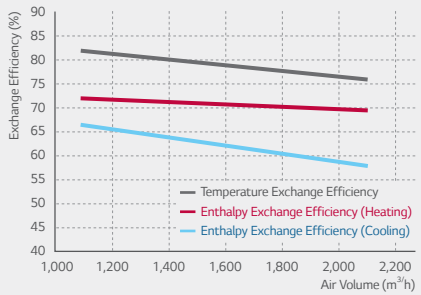
LZ-H200GBA4



Ventilation



Efficiency

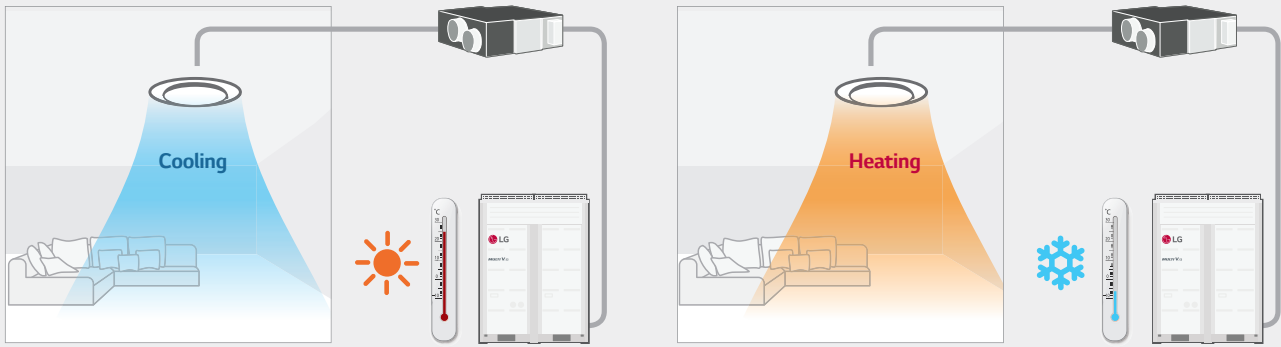


ERV DX

Energy Recovery Ventilator with DX Coil

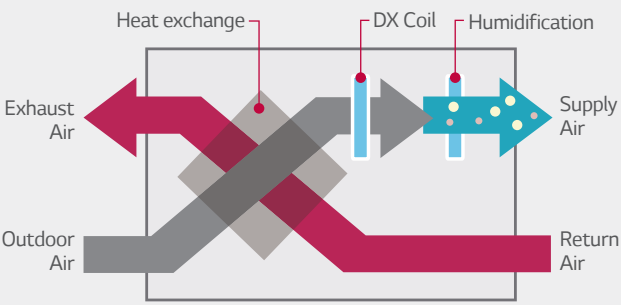
Providing Cool & Warm Fresh Air

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



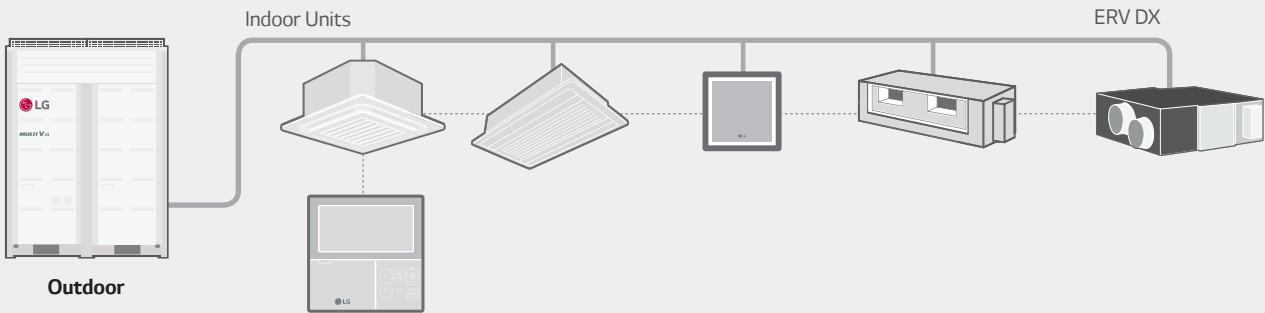
Total Air Conditioning Solution

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



Interlocking with MULTI V

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



ERV DX

Energy Recovery Ventilator with DX Coil

LZ-H050GXH0 / LZ-H080GXH0 / LZ-H100GXH0
LZ-H050GXN0 / LZ-H080GXN0 / LZ-H100GXN0



Model			LZ-H050GXH0	LZ-H080GXH0	LZ-H100GXH0	LZ-H050GXN0	LZ-H080GXN0	LZ-H100GXN0
Fresh Air Conditioning Load	Cooling ¹⁾	kW	4.93	7.46	9.12	4.93	7.46	9.12
	Heating ²⁾	kW	6.73	9.80	11.72	6.73	9.80	11.72
Temperature Exchange Efficiency	SH / H / L	%	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78
Enthalpy Exchange Efficiency	Cooling (SH / H / L)	%	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50
	Heating (SH / H / L)	%	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66
Air Flow Rate	Heat Exchange Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
	Bypass Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
Fan	External Static Pressure (SH / H / L)	Pa	160 / 120 / 100	140 / 90 / 70	110 / 70 / 60	180 / 150 / 110	170 / 120 / 80	150 / 100 / 70
Humidifier	System		Natural Evaporating Type			-		
	Amount ³⁾	kg/h	2.70	4.00	5.40	-		
	Pressure Feed Water	Mpa	0.02 ~ 0.49			-		
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB (A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
	Bypass Mode (SH / H / L)	dB (A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
Refrigerant			R410A					
Power Supply		Ø / V / Hz	1 / 220-240 / 50, 60					
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
	Bypass Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
Dimensions	W x H x D	mm	1,667 x 365 x 1,140			1,667 x 365 x 1,140		
Net Weight		kg	105			98		
Piping Connection	Liquid	mm	Ø6.35			Ø6.35		
	Gas	mm	Ø12.7			Ø12.7		
	Water	mm	Ø6.35			-		
	Drain (Outer Diameter)	mm	Ø25.4			Ø25.4		
Connection Duct Diameter		mm	Ø250			Ø250		
Remote Controller			Refer to the below Wired Remote Controller table					
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000					
	2 Contact Point		PDRYCB400					
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300					
	Modbus Communication		PDRYCB500					

Note : 1) Cooling Capacity Test condition - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB
2) Heating Capacity Test condition - Indoor temperature : 20°C DB / Outdoor temperature : 7°C DB, 6°C WB
3) Humidifying capacity is based on the following conditions - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
* Cooling and heating capacities are based on the following conditions. - Fan is based on High and Super-high. The figures in the parenthesis indicate the heat reclaimed from the heat recovery ventilator.
* The operating sound measured at the point 1.5 m below the center of the unit is converted to that measured at an anechoic chamber built in accordance with the KS B 6879 conditions.
* The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value.
* Air flow rate can be changed over to low mode or high mode.
* The specifications, designs and information here are subject to change without notice.
* This product contains Fluorinated Greenhouse Gases. (R410A)

Premium	Standard II		CO ₂ Sensor
 PREMTA000 PREMTA000A PREMTA000B	 PREMTBB01	 PREMTB001	 PES-CORVO

LG HVAC CONTROL

Individual Control			Centralized Control			
Wired Remote Controller			Wireless Remote Controller	Indoor Unit ~ 32	Indoor Unit ~ 128	Indoor Unit ~ 8,192
Premium	Standard	Simple		AC Ez	AC Smart IV	AC Manager IV
 PREMTA000 PREMTA000A PREMTA000B	 PREMTB001	 PQRCVCL0QW	 PQWRHQ0FDB	 PQCSZ250S0	 PACS4B000	 PACM4B000
	 PREMTBB01	 PQRCVCL0Q	Wi-Fi Controller *	Indoor Unit ~ 64 NEW AC Ez Touch	Indoor Unit ~ 256 ACP IV	
		 PQRCHCA0QW (Simple for Hotel)		 PACEZA000	 PACP4B000	
		 PQRCHCA0Q (Simple for Hotel)				

* This product is provided by INTESIS.

LINE-UP

Centralized Control			Other Integration Device			
System Integration Device			Indoor Unit		Outdoor Unit	AHU Kit
Facility Integrator	Gateway for Protocol	PI-485	Dry Contact	Control Accessory		
 Premium (8port) PQNUD1S40 Standard (2port) PPWRDB000  PEXPMB000  PQNFP00T0	 PQNFB17C0  PLNWKB000  LG-AC-KNX4 LG-AC-KNX8 LG-AC-KNX16 LG-AC-KNX64	 For Indoor Unit (Air-Conditioner, ERV) PHNFP14A0  For Indoor Unit (Air-Conditioner, ERV) PSNFP14A0	 Simple Dry Contact PDRYCB000  2 Points Dry Contact (For Setback) PDRYCB400  Dry Contact for Thermostat PDRYCB300  For Modbus PDRYCB500	 PZCWRCG3  Remote Temperature Sensor PQRSTA0  Zone Controller 4 Zones by thermostat ABZCA	 Demand controller for MULTI V IV PVDSMN000  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	 Return / Room Air Control PRCKA1  Supply Air Control by DDC PRDCA0  Control kit PRCKD21E (~ 4 ODU's) PRCKD41E (~ 8 ODU's)  EEV Kit (Electronic Expansion Valve) PRLK048A0 (~ 10HP) PRLK096A0 (~ 20HP)  TXV Kit (Thermal Expansion Valve) PATX13A0E (8 ~ 16HP) PATX20A0E (18 ~ 26HP) PATX25A0E (28 ~ 36 HP) PATX35A0E (38 ~ 46 HP) PATX50A0E (48~56 HP)

INDIVIDUAL CONTROL



INDIVIDUAL CONTROL

164 Premium Wired Remote Controller

166 Standard Wired Remote Controller

167 Simple Wired Remote Controller

168 Wireless Remote Controller

169 Wi-Fi Controller

Remote Controller Line Up

Model Name	PREMTA000 PREMTA000A PREMTA000B	PREMTB001 PREMTB01	PQRCVCL0QW PQRCVCL0Q PQRCHCA0QW PQRCHCA0Q	PQWRHQ0FDB	LG-IR-WF- 1¹⁾
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	-	Sleep, On / Off	-
Child Lock	●	●	●	-	-
Electric Failure Compensation	●	●	●*	-	-
Time Display	●	●	-	●	-
Filter Sign	●	●	-	-	-
Energy Management**	●	-	-	-	-
Home Leave	2 Set Points Control	-	-	-	-

* PQRCHCA0QW / PQRCHCA0Q doesn't offer this function
** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1540 / 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 ⁴⁾

- **Self-management for energy saving**
 - Time limit operation / Power consumption monitoring
 - Weekly / Monthly / Yearly trend tracking
 - Target alert alarm
 - Temperature range setting

- **Improved scheduling**
 - Timer / Daily / Weekly / Yearly / Holiday

- **2 Set Points Control ⁵⁾**

- **Design with user's convenience**
 - Full touch / Intuitive GUI (Graphic User Interface)
 - Main display simple mode / Touch buzzer

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
Black Light for Screen Saver	●
Home Leave	2 Set Points Control

* It might not be indicated or operated at the partial product

** This function is available for certain indoor unit type

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

**** For ceiling type duct

4) Indoor unit should have functions requested by the controller

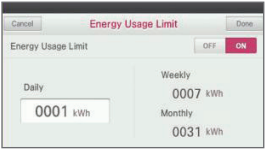
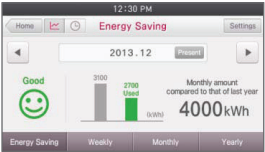
5) 2 set points control works normally with MULTI V Heat Recovery and Single Heat Pump. But in case of MULTI V Heat Pump, It is not working in 2 set points control of indoor unit



Energy Management

• Self Energy Management

After it gathers 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

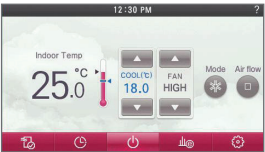
Premium remote controller provides convenient trend & target graph for different period.

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

User Friendly Design

• Intuitive UI & GUI Design

It is more easy to use and control various functions.



Standard Mode



Simple Mode

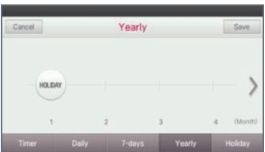
• Display Configuration

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

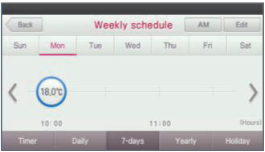
Enhanced Schedule Function

• Yearly / Weekly Schedule Function

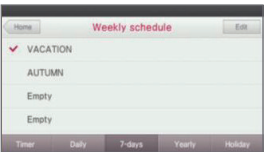
If you set the schedule all at once, you will be able to effectively manage for various lengths of time. It provides 5 kinds of reservation functions. (Timer, Daily, Weekly, Yearly, Holiday)



Yearly Schedule



Weekly Schedule



Weekly Schedule Pattern

• Easy Pattern Schedule

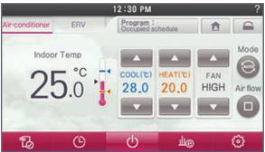
It is possible to embody various schedules as pattern setting.

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

2 Set Points Control

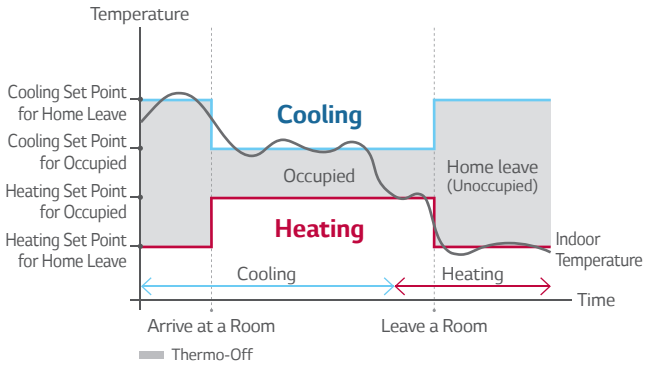
• 2 Set Points Control

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



STANDARD WIRED REMOTE CONTROLLER

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

Standard II

PREMTB001 (White)
PREMTBB01 (Black)



Features¹⁾

Model Name	PREMTB001 / PREMTBB01
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 / Holiday
Time Display	•
Electric Failure Compensation	•
Child Lock	•
Filter Sign	• (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
Backlight	•
Power Consumption Monitoring	•**
Check Model Information	•

* For Ceiling Concealed Duct type
** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1540 / 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

PQRCVCLOQW (White)
PQRCVCLOQ (Black)

Simple for Hotel

PQRCHCA0QW (White)
PQRCHCA0Q (Black)



Simple

Simple for Hotel

Features¹⁾

Model Name	PQRCVCLOQW / PQRCVCLOQ	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 Concealed Duct type
1) Indoor unit should have functions requested by the controller

WIRELESS REMOTE CONTROLLER

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 CONTROLLER¹⁾

LG-IR-WF-1



Models Applied

- Connectable with the indoor unit having IR receiver
- Power supply includes EU-UK-US-AU heads
- On / Off status and mode indicated by LED light
- Additional internet service has to be available and registration user account in Intesis Home cloud to use Wi-fi controller is mandatory
- Intesis Home cloud app is available for android phone or iOS phone
- Control and monitor
- Easy to install : Wall or desktop mounted
- 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
Color	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



1) This product is provided by INTESIS.

Case 2. Connection with Duct Type Indoor Units



CENTRALIZED CONTROL

CENTRALIZED CONTROL

172 AC Ez Touch



174 AC Smart IV



176 AC Ez



177 ACP IV



178 AC Manager IV



Central Controller Line Up

Model Name					
	NEW PACZA000	PQCSZ250S0	PACS4B000	PACP4B000	PACM4B000*
Maximum Number of Units	64	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)	Web	-	Web	Web	Remote Access by Client S/W
Auto Changeover / Setback	•	-	•	•	•
Power Consumption Monitoring (with PDI)	•	-	•	•	•
Interlock Control	-	-	•	•	•
Virtual Group Control	-	-	•	•	•
Emergency Alarm Display	•	-	•	•	•
ACS IO Module Interlocking	-	-	•	•	•

* S/W program
1) Assignment of public IP address is required to access central controller through internet.

AC EZ TOUCH

Smart management with 5 inch touch screen for small site

NEW

PACEZA000

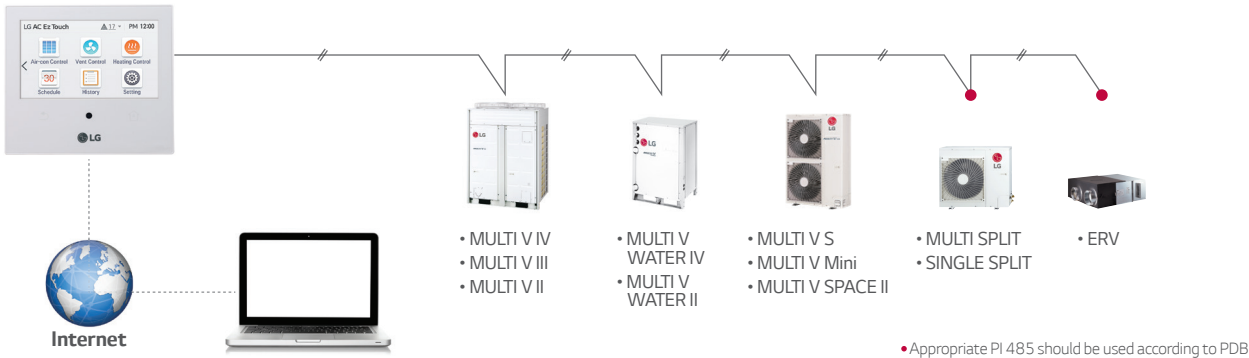


Features

Model Name	PACEZA000
Maximum Number of Indoor Units	64
Individual / Group Control (On & Off, Mode, Set Point, Fan Speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Slave Mode (Interlocking with Higher Level Controller)	•
Schedule	Daily / Weekly / Monthly / Yearly / Exception day
Operation History	•
Temperature Limit	•
Web Access ¹⁾	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Emergency Alarm Display	•
External IO Port No.	DI 1
Compatible Model	MULTI V / ERV / ERV DX / THERMA V / HYDRO KIT
Size (W x H x D, mm)	137 x 25 x 121

1) Assignment of public IP address is required to access central controller through internet please contact regional office to have detailed Internet connection configuration

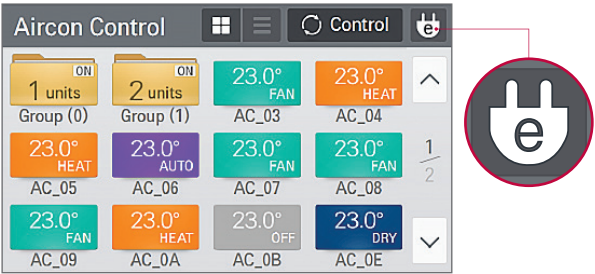
Installation Scene



Features



- **Web Access**
Users can control each space efficiently through web access.
(Web access : Network configuration is locally necessary)



- **Energy Mode**
When using energy mode function, operation mode changes from cooling to fan or heating to off mode by force.
(It is available only air conditioner and 'on' mode indoor unit)

Energy		
< 2016. 2. 8 ~ 2016. 3. 19 > Today Week Month		
Name	Usage(kWh)	Accumulated(kWh)
Group1	110	3021
Group2	150	6186
Group3	130	4267
Group4	120	7614

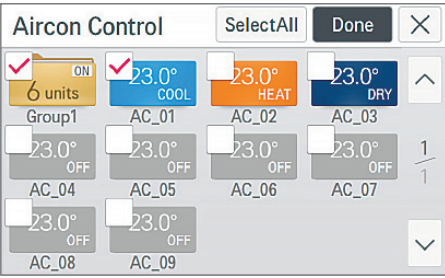
- **Energy Statistics (with PQNUD1S40 or PPWRDB000)**
Statistics of operational status (time, power consumption) are provided to help make intelligent system operation decisions.

Schedule_Month						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

- **Schedule**
Schedule control allows user to set the events in advance to maximize system performance. Also, by blocking unnecessary operation, it prevents a waste of energy.

Lock	Schedule	Occupied
0	0	0
Alarm		
Error	32	>
Oil Change	0	>
Filter Change	0	>

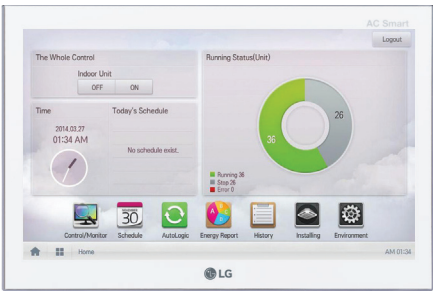
- **Alarm Indicator**
It works when there are some errors or it's time to change the oil or filter. Users can respond immediately according to alarm indicator therefore HVAC system is monitored consistently.



AC SMART IV

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

PACS4B000

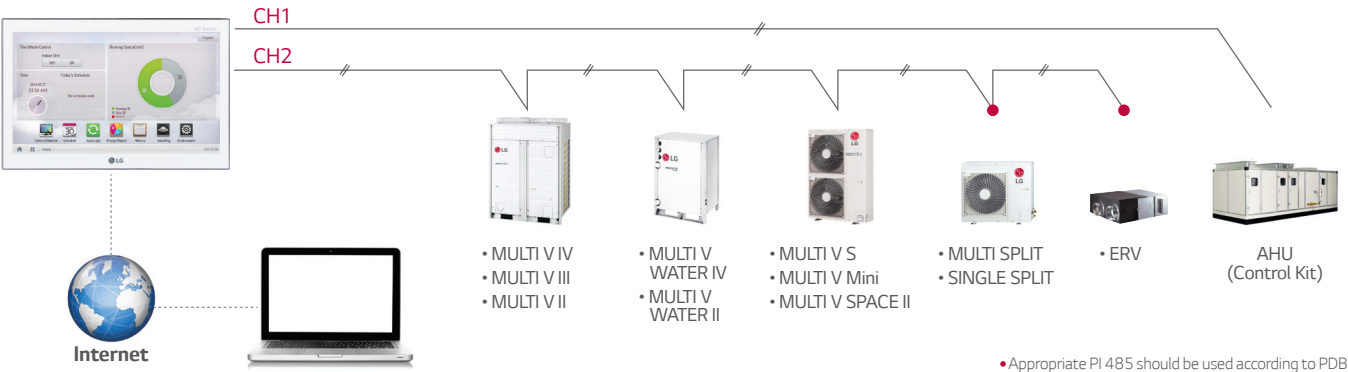


Features

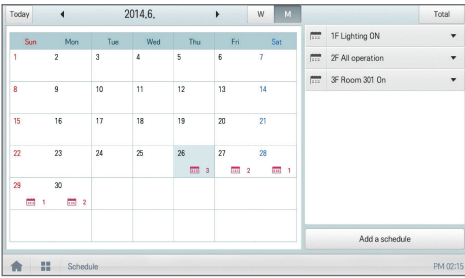
Model Name	PACS4B000
Maximum Number of Indoor Units	128
Individual / Group Control (On & Off, Mode, Set Point, Fan Speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception day
Operation History	•
Visual Navigation	•
Operation Time Limit	•
Temperature Limit	•
Web Access ¹⁾	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Interlock Control	•
Virtual Group Control	•
Emergency Alarm Display	•
ACS IO Module Interlocking	•
External IO Port No.	DI 2 / DO 2
Interfaceable Products	MULTI V / ERV / ERV DX / THERMA V / HYDRO KIT / AHU (Control Kit)

1) Assignment of public IP address is required to access central controller through internet please contact regional office to have detailed Internet connection configuration

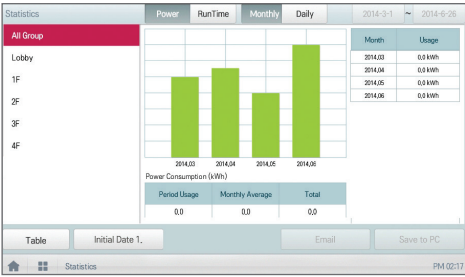
Installation Scene



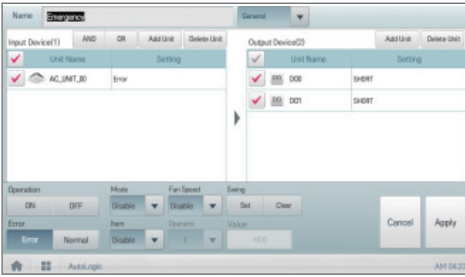
Features



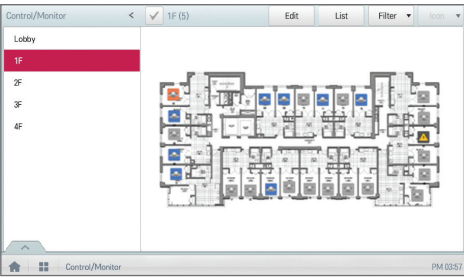
- **Schedule**
Schedule control allows user to set the events in advance to maximize system performance. Also, by blocking unnecessary operation, it prevents a waste of energy.



- **Energy Statistics**
(with PQNUD1S40 or PPWRDB000)
Statistics of operational status (time, power consumption) are provided to help make intelligent system operation decisions.



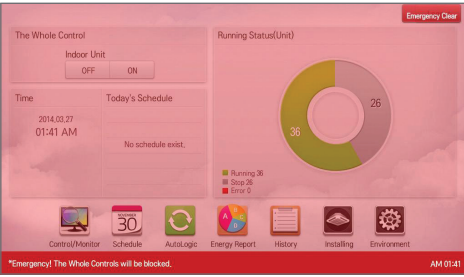
- **Interlocking**
Allows interlocked operation of devices or between digital inputs and outputs on the AC Smart IV.



- **Visual Navigation**
Current operation status on floor plan is checked at one view.

Report	Total	Control	Error	2014.03.26	2014.06.26
✓	2014-06-26	14:15:50	Room 303	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:15:43	Room 302	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:15:43	Room 303	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:15:42	Room 101	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:15:42	Room 105	COOL/18.0 C/OFF by NONE	
✓	2014-06-26	14:14:03	Room 303	COOL/18.0 C/ON by U_system_admin	
✓	2014-06-26	14:14:00	Room 302	COOL/18.0 C/ON by U_system_admin	
✓	2014-06-26	14:13:56	Room 303	COOL/18.0 C/ON by U_system_admin	

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



- **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.

AC EZ

Easy to manage up to 32 indoor unit, including ERV with simple interface

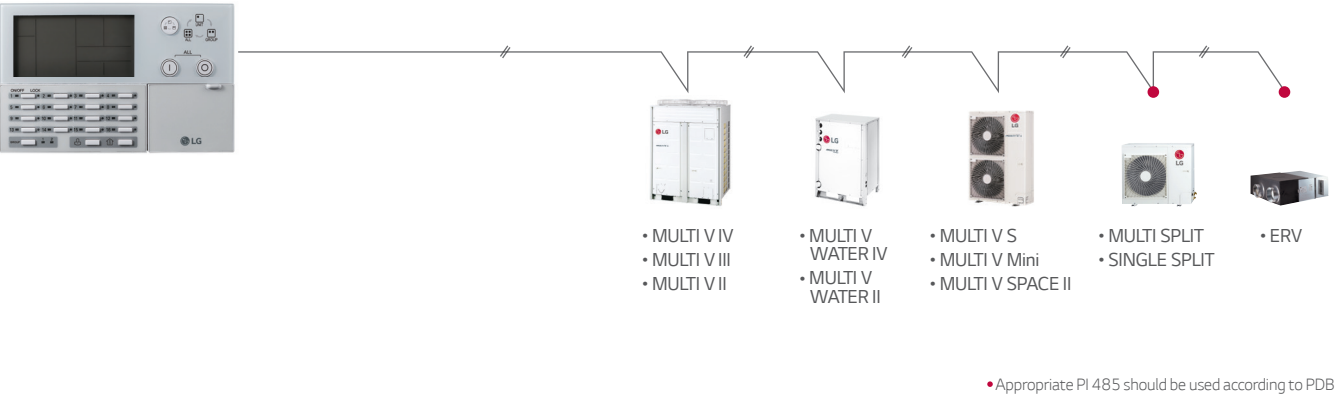
PQCSZ250S0



Features

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

Installation Scene



ACP IV

ACP IV 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

PACP4B000

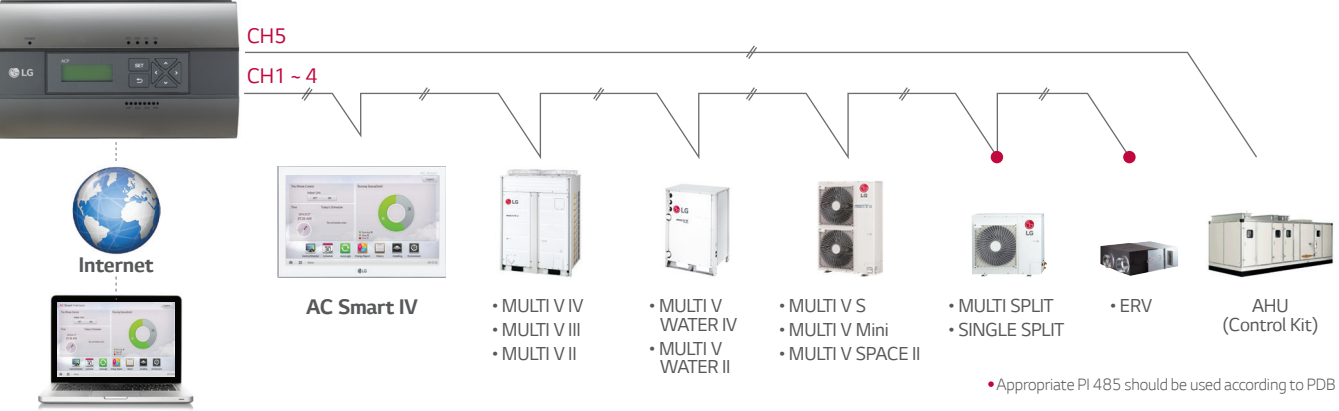


Features

Model Name	PACP4B000
Maximum Number of Indoor Units	256
Individual / Group Control (On & Off, Mode, Set Point, Fan Speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Repetition / Exception day
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 Alarm Display	•
ACS IO Module Interlocking	•
External IO Port No.	DI 10 / DO 4
Interfaceable Products	MULTI V / ERV / ERV DX / THERMA V / HYDRO KIT / AHU (Control Kit)

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

Installation Scene



AC MANAGER IV

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

PACM4B000

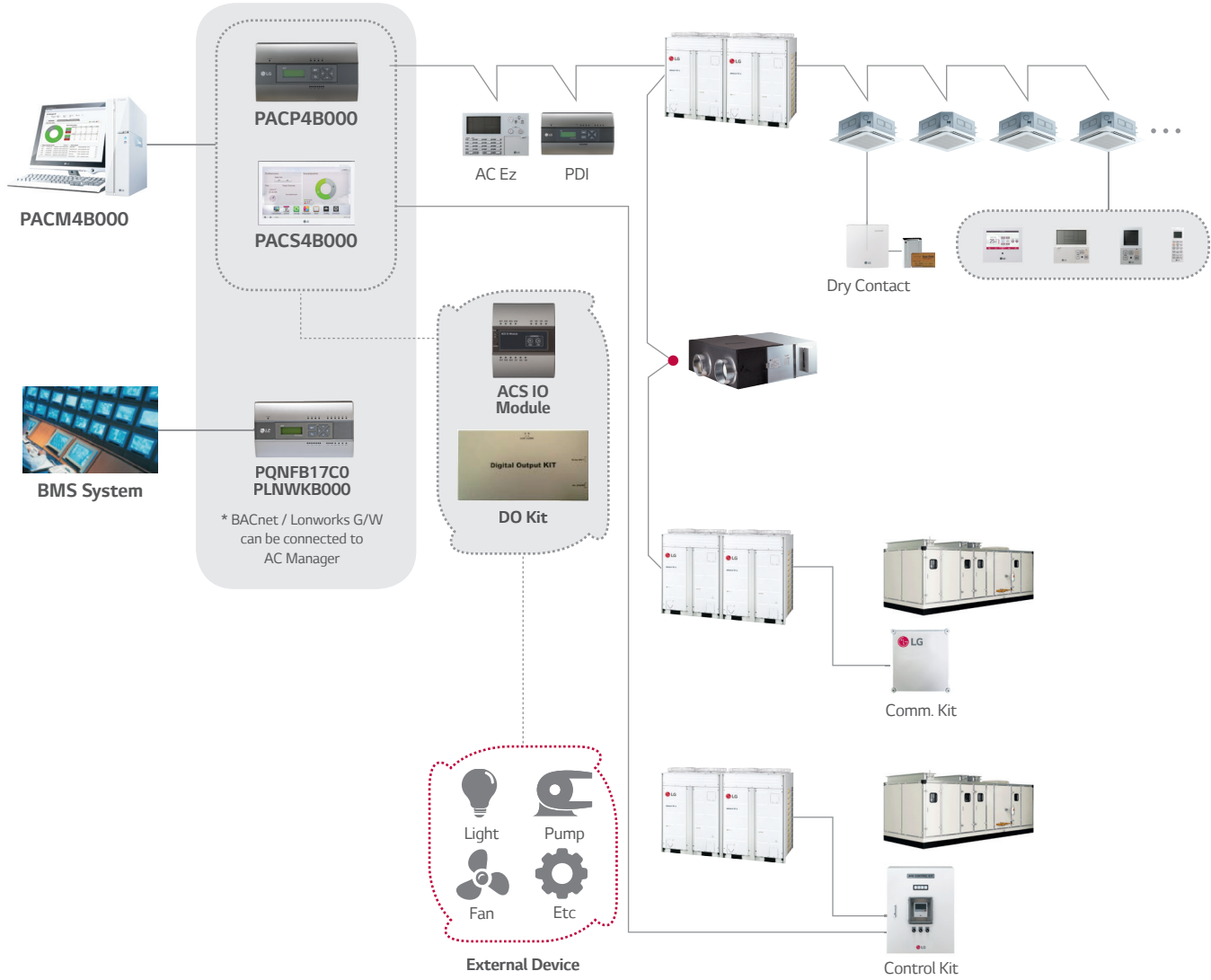


Features

Model Name	PACM4B000
Maximum Number of Indoor Units	8,192 (supports 32 ACP IV)
Individual / Group control (On & Off, Mode, Set Point, Fan Speed)	•
Ventilation Control	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Repetition / Exception day
Operation History	•
Visual Navigation	•
Operation Time Limit	•
Temperature Limit	•
Web Access ¹⁾	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Interlock Wontrol	•
Virtual Group Control	•
Emergency Alarm Display	•
ACS IO Module Interlocking	•

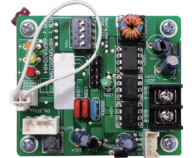
1) Assignment of public IP address is required to access central controller through internet.

Solution Overview



* Combination: we recommend you to connect separated wattmeter for Indoor units and Outdoor units to have correct power distribution value
• Appropriate PI 48S should be used according to PDB

SYSTEM INTEGRATION DEVICE

Facility Integrator	Gateway for Protocol	PI-485
PDI (Power Distribution Indicator)  Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000	ACP BACnet (Modbus)  PQNFB17C0	 For Indoor Unit (Air-Conditioner, ERV) PHNFP14A0
ACS IO Module  PEXPMB000	ACP Lonworks  PLNWKB000	 For Indoor Unit (Air-Conditioner, ERV) PSNFP14A0
DO Kit (Digital Output Kit)  PQNFP00T0	KNX Gateway  LG-AC-KNX4 LG-AC-KNX8 LG-AC-KNX16 LG-AC-KNX64	

PDI POWER DISTRIBUTION INDICATOR

PDI shows power consumption of up to 128 indoor units

Premium

PQNUD1S40 (8 port)

Standard

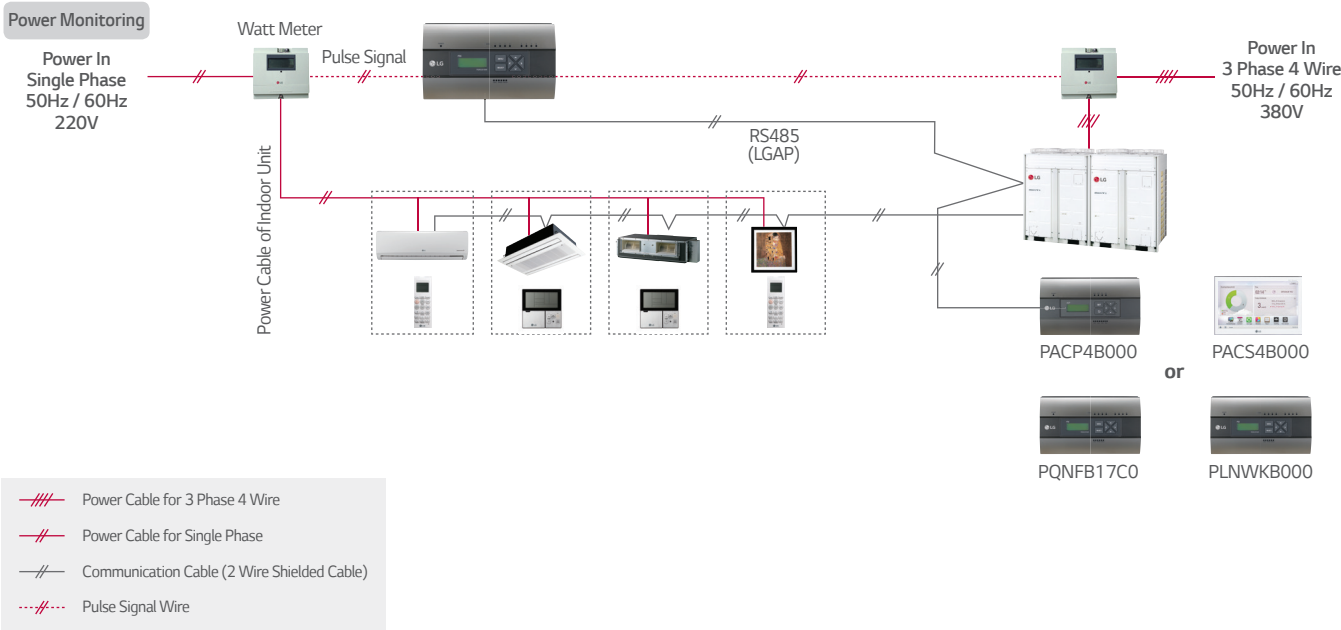
PPWRDB000 (2 port)



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 pulse type power meter

Installation Scene



* This value could be different with measured power consumption by power meter
Combination : we recommend you to connect separated watt meter for Indoor units and Outdoor units to have correct power distribution value

ACS IO MODULE

The module can be connected with PACS4B000 or PACP4B000 if additional control points are needed not only DI / DO but also AI / AO port. These central controller can control 3rd party device as pump, security, lighting and so on through DI / DO and AI / AO

PEXPMB000



Features

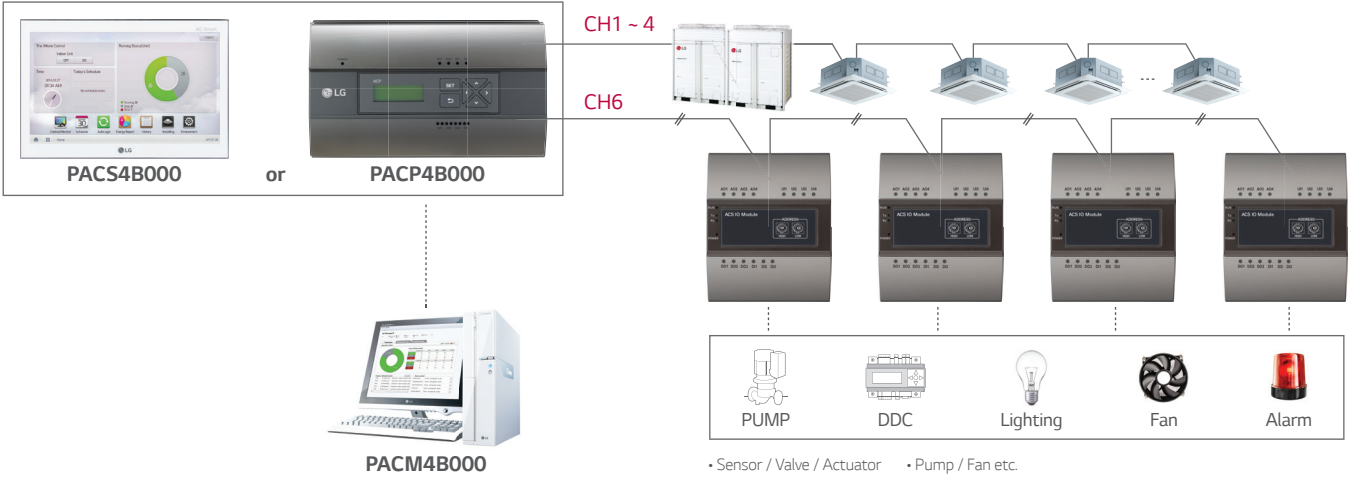
Model Name		PEXPMB000
Linkable Products		PACS4B000 PACP4B000 PACM4B000
Communication	RS-485	1
I/O	Digital Input	3
	Digital Output	3
	Universal Input	4
	Analog Output	4

	PACS4B000	PACP4B000	PACM4B000
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.

Interface Type		Min.	Max.
Analog Input	NTC 10k	0.68k Ω	177k Ω
	PT 1000	803 Ω	1,573 Ω
	Ni 1000	871.7 Ω	1,675.2 Ω
	DC (Voltage)	0V	10V
	DC (Current)	0mA	20mA
Analog Output	-	0V	10V
Digital Input	Binary Input (Dry Contact)	-	-
Digital Output	Normal open	-	30VAC / 30VDC, 2A

Installation Scene



* DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output / Please contact our regional office to have connectable relay specification for analog output

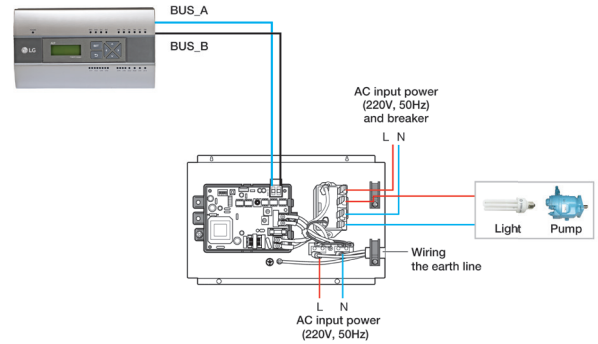
DO KIT DIGITAL OUTPUT KIT

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

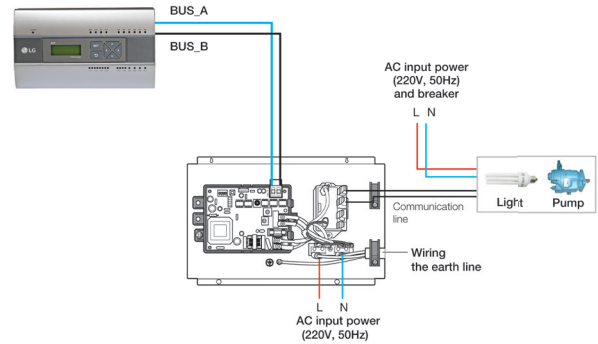
PQNFP00T0



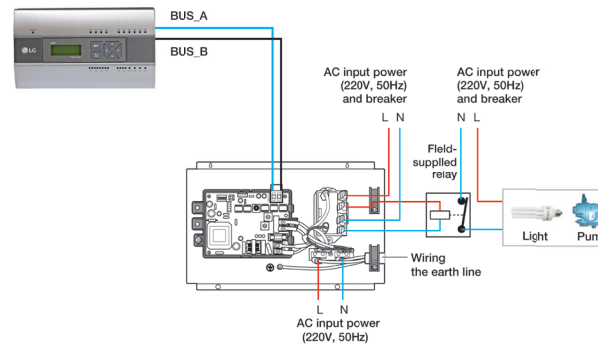
Features



- When the product input is less than 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 than 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 through 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.

* Please contact our regional office to have connectable relay specification for digital output

ACP BACNET GATEWAY

PQNFB17C0



* Please refer PDRYCB500 for Modbus RTU

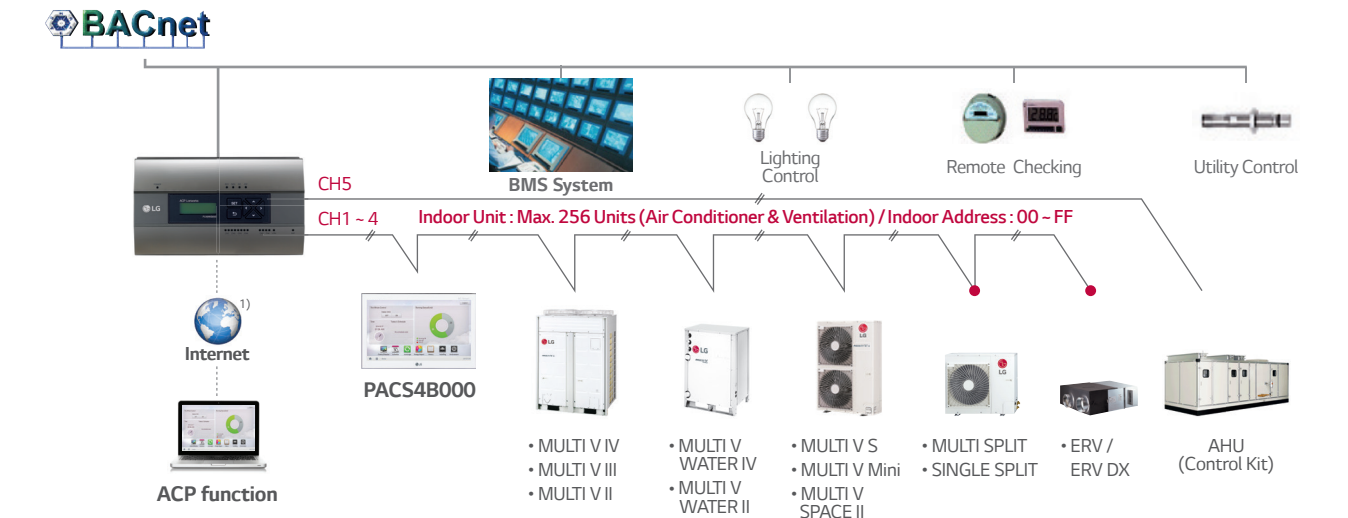
Features

- **Process ability**
 - EHP Type : 256 units (Indoor / ERV / ERV DX / Hydro Kit / THERMA V)
 - AHU Control kit : Maximum 16 units
- **Self installation verification function using internet (Web server included)**
 - Setting gateway
 - Diagnosis of communication status on LG Air-conditioner network
- **Modbus TCP protocol support**
- **BTL Certified (B-ASC)**
- **It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own PC.**

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

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 Setting
Set Temperature Setting	Set Temperature Status
-	Current Space Temperature Status
-	Error Status
User Mode Setting (for only ERV)	User Mode Status (for only ERV)
-	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 (ERV DX only)	Air Conditioner Operation Mode Status (ERV DX only)
AC On / Off Command (ERV DX only)	Air Conditioner On / Off Status (ERV DX only)

Installation Scene



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

• Appropriate PI 485 should be used according to PDB

ACP LONWORKS GATEWAY

PLNWKB000

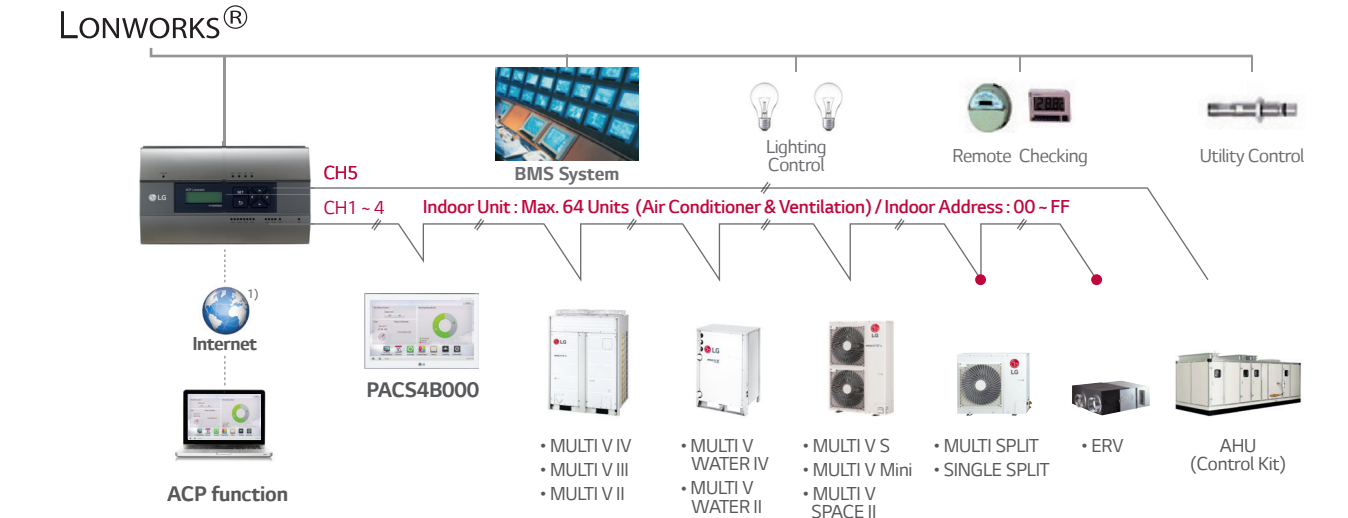


Features

- **Process ability**
 - EHP Type : 64 units (Indoor / ERV / 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 a variety of functions as ACP 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 Setting
Fan Speed Setting	Fan Speed Status
Lock Setting	Lock Status
Air Flow Setting	Air Flow Setting
Set Temperature Setting	Set Temperature Status
-	Current Space Temperature Status
-	Error Status
-	Accumulator Power Distribution Status
Upper Limit Temperature Setting	Accumulator Power Distribution Status
Low Limit Temperature Setting	Low Limit Temperature Setting
Mode Lock Setting	Mode Lock Status
Peak Operation Ratio Setting	Peak Operation Ratio Setting
All On / Off Setting	-
-	Total Accumulate Power Status

Installation Scene



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

• Appropriate PI 485 should be used according to PDB

KNX GATEWAY¹⁾

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

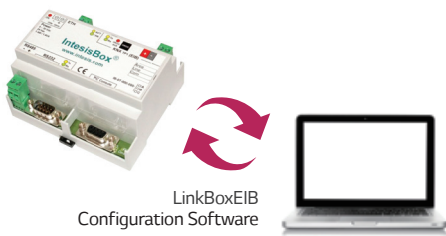
- Easy installation, direct connection to all outdoor units (Communication interface PMNFP14A1, when needed) and Heat recovering units (Communication interface PHNFP14A0, when needed) through the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication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

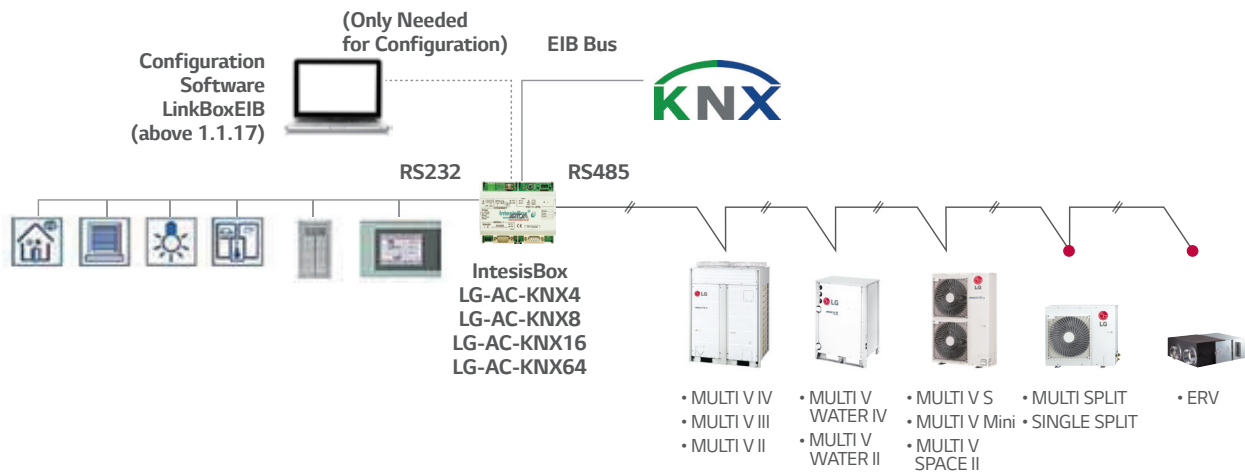
Link BoxEIB Configuration Software for IntesisBox® KNX Serious

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.

Installation Scene



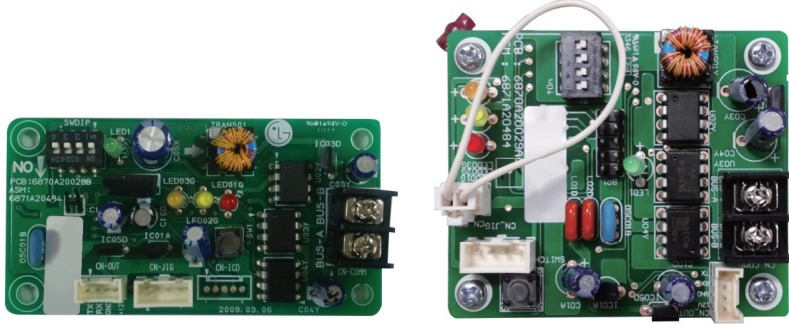
1) This product is provided by INTESIS.

• Appropriate PI 485 should be used according to PDB

PI 485

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

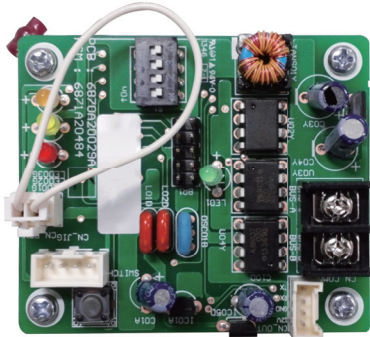
- PHNFP14A0
- PSNFP14A0



Features



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



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

* 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.

OTHER INTEGRATION CONTROL

OTHER INTEGRATION DEVICE LINE-UP

Indoor Unit		Outdoor Unit	AHU Kit
Dry Contact	Control Accessory		
 Simple Dry Contact PDRYCB000  2 Points Dry Contact (For Setback) PDRYCB400  Dry Contact for Thermostat PDRYCB300  For Modbus PDRYCB500	 PZCWRCG3  PQRSTA0  ABZCA	 PVDSMN000  PRVC2  PQDSBCDVM0  PWFCKN000  PRVCO  PRDSBM	 PRCKA1  PRDCA0  PRCKD21E PRCKD41E  PRLK048A0 / PRLK096A0  PATX13A0E / PATX20A0E PATX25A0E / PATX35A0E PATX50A0E

DRY CONTACT

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

PDRYCB000
PDRYCB400

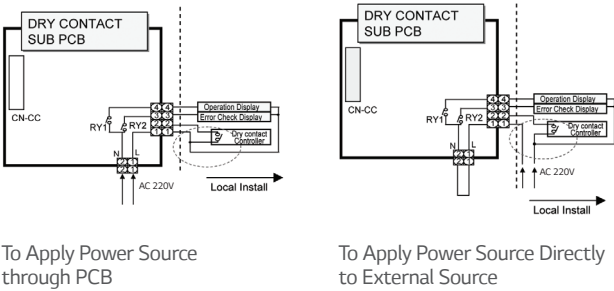


Features

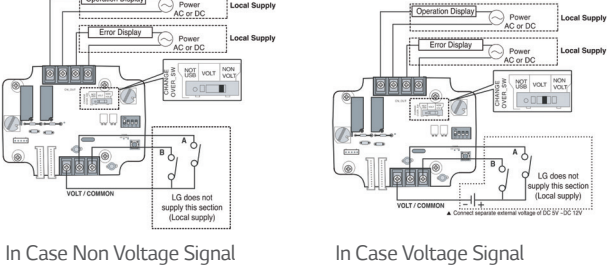
Model Name	PDRYCB000	PDRYCB400
Contact Point	1 Contact Point	2 Contact Point
Power Input	AC 220V	From Indoor Unit
Voltage / Non Voltage Input	-	•
On / Off Control	•	•
Rotary Switch 1	-	Operating Set Temperature Selection
Rotary Switch 2	-	Operating Logic Selection
Error Monitoring	•	•
Operation Monitoring	•	•
Size (W x H, mm)	120 x 120	120 x 120

* Refer to each models PDB for applicable models. * Maximum operation AC : 3A
* 4th generation indoor unit has 1 contact point function for On / Off control. But in case of using more function of Dry Contact besides On / Off control, Dry Contact is needed.

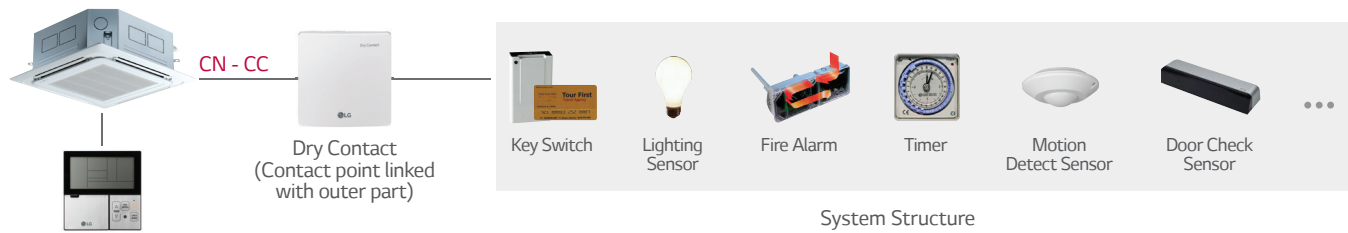
• PDRYCB000



• PDRYCB400



Installation Scene



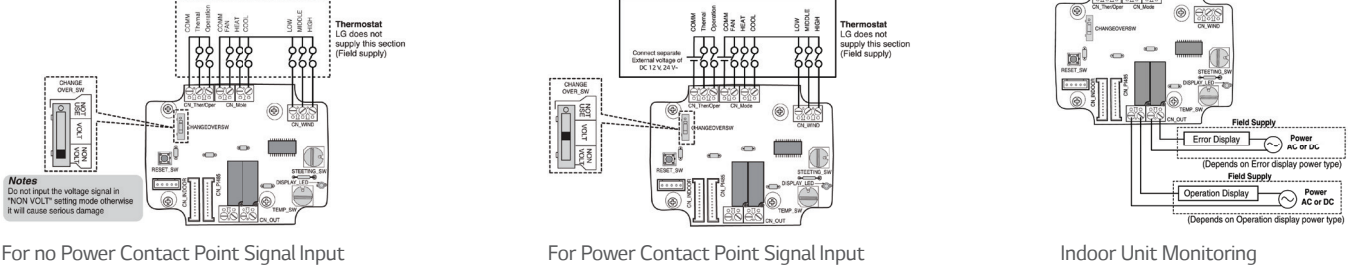
PDRYCB300



Features

Model Name	PDRYCB300
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



Installation Scene



* Please contact our regional office to have full compatible room controller list

DRY CONTACT

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

PDRYCB500



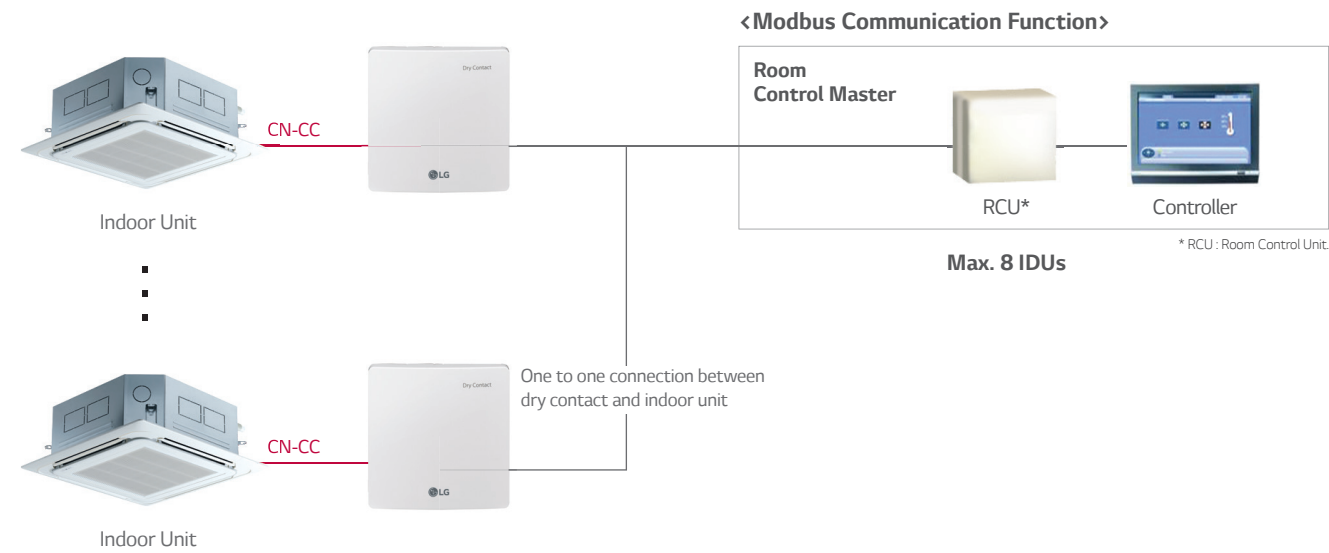
Features

- **Function**
 - MODBUS communicate with MODBUS master controller
 - MODBUS RTU slave / 2 wire RS485 / 9,600bps
 - MAX. 8 IDUs can be connected with one MODBUS master controller
 - Size (W x H x D) : 120mm x 120mm x 36.5mm

• 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

Installation Scene



* Please contact our regional office to have full compatible room controller list

GROUP CONTROL WIRE

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

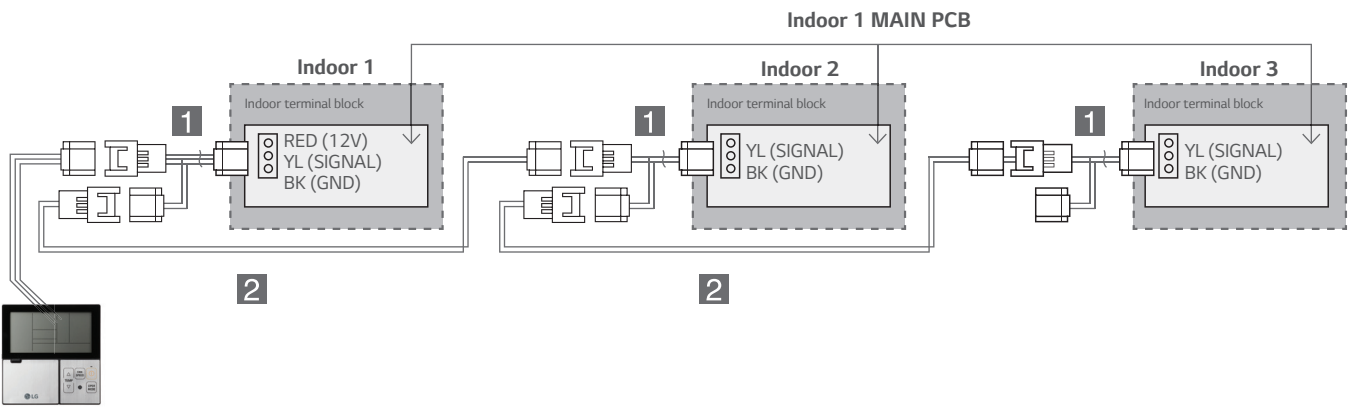
PZCWRCG3



Features

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

Installation Scene

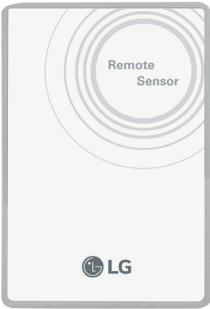


Note : 1 Y type Cable assembly for connecting indoor unit and low cable.
2 Long Cable assembly for connecting indoor to indoor.
- Please connect cable assembly Y type Cable with already connected indoor unit.

REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature

PQRSTA0

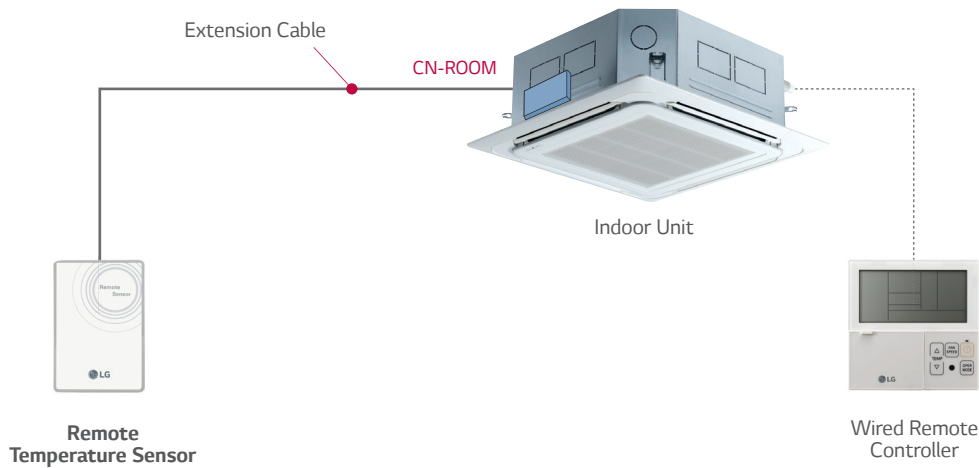


Features

- 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 (1.5m) is included

Installation Scene

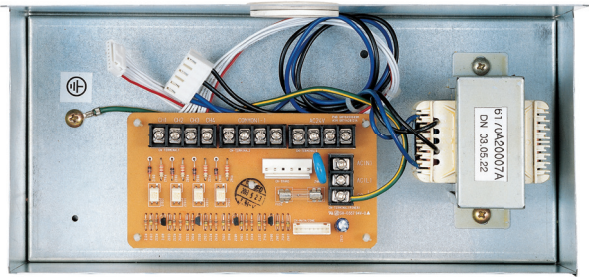
1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



ZONE CONTROLLER

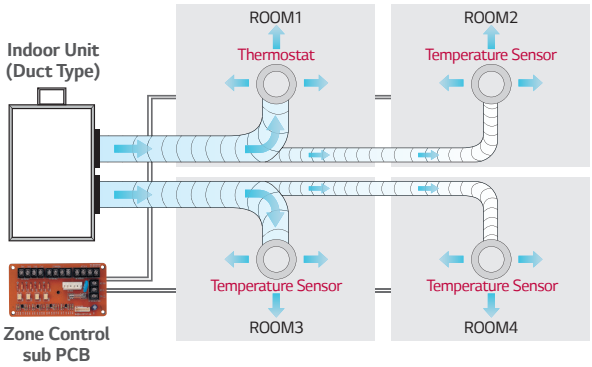
Controls air conditioning in up to 4 zones by external thermostat

ABZCA



Features

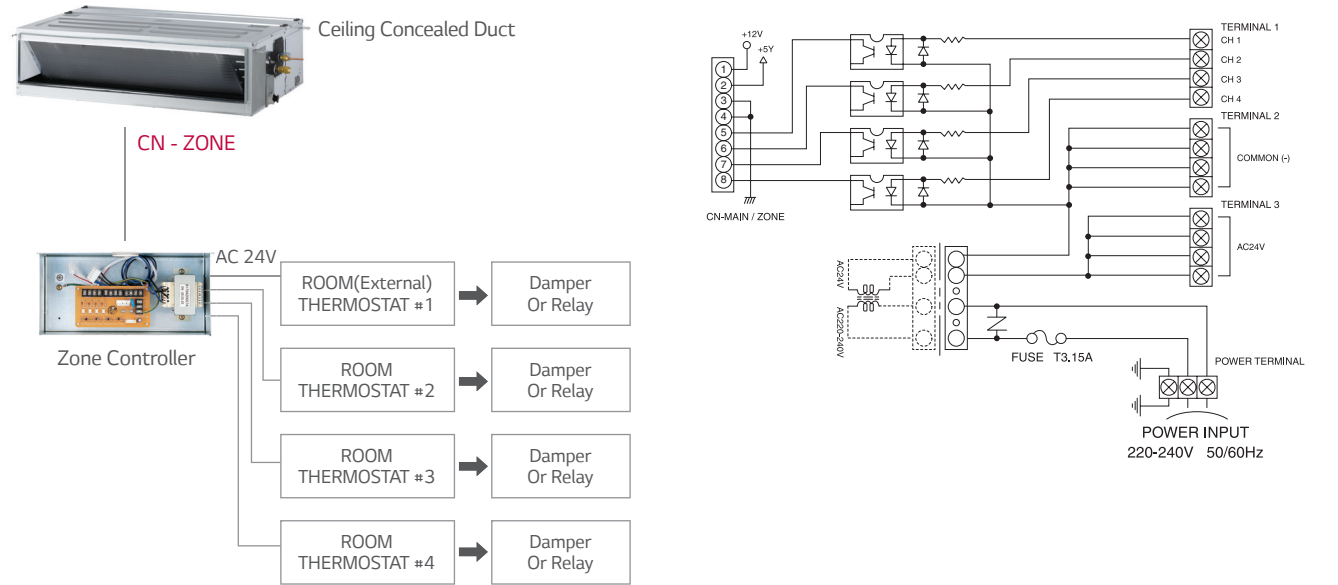
- Controls different zones (Up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation



Models Applied

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

Wiring Diagram



IO MODULE

INPUT / OUTPUT
MODULE

Interface module between system air conditioner and external device

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)

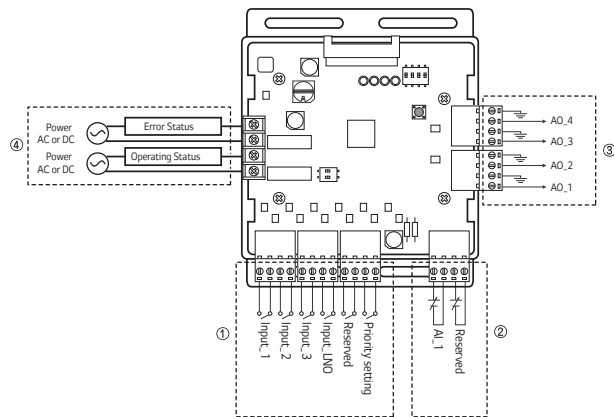
- AI_1 : Demand ontrl by analog input (10 Step)

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

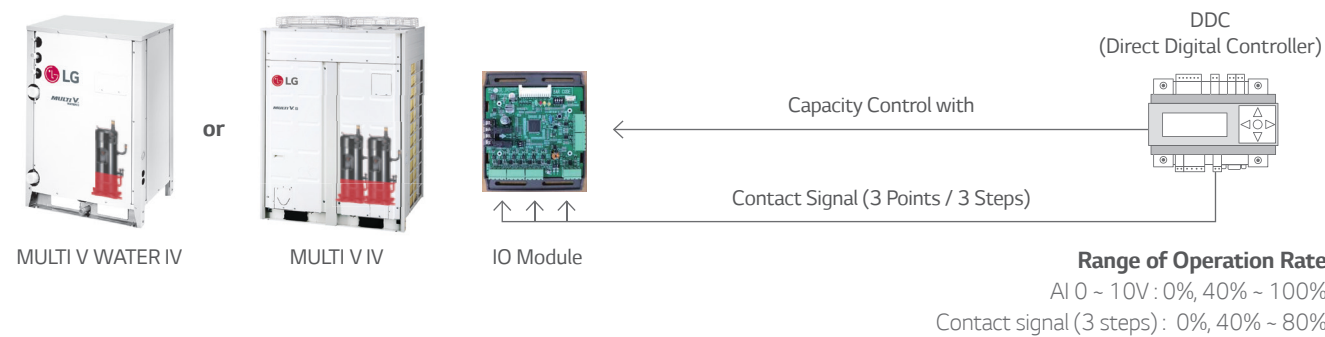


AI : Analog Input (DC0~10V)
AO : Analog Output (DC0~10V, Max 20mA)
Input_LNO : Low Noise Operation

Installation Scene

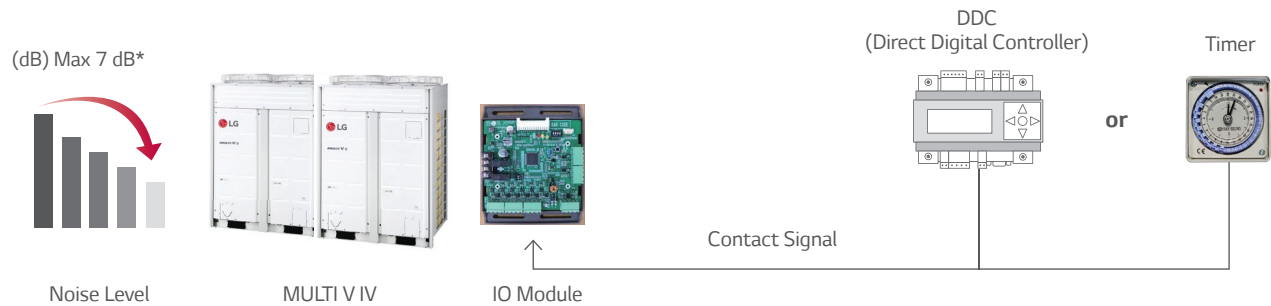
• Demand Control

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, 10 Step) and contact signal (3 Step).



• Low Noise Operation

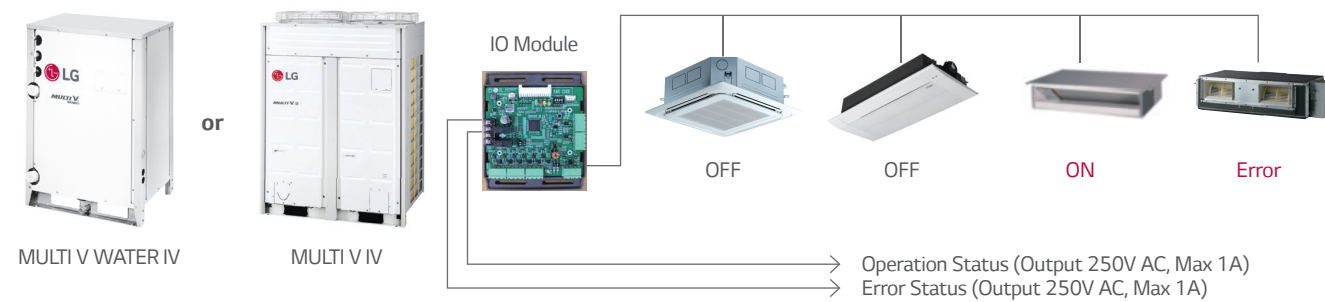
To reduce noise level , control outdoor unit's fan speed by dry contact input.



* 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

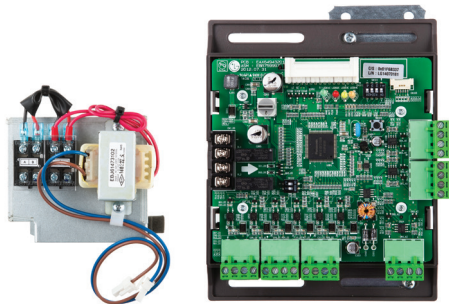
This function displays outdoor or indoor unit's operation and error status. Depends on dip switch setting, either outdoor or indoor unit operation status is reflected through output signal. Additionally, either outside or indoor unit has an error, IO Module display error signal by another replay.



LOW AMBIENT KIT

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

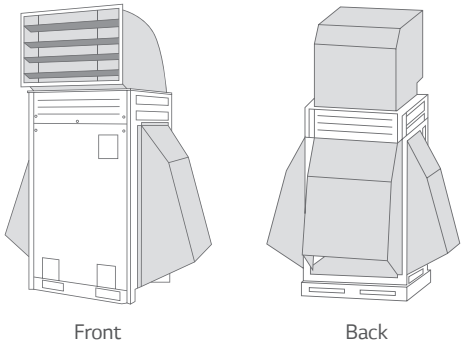
PRVC2



Features

- **Function**
 - 25°C 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 -25°C 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.

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



Front

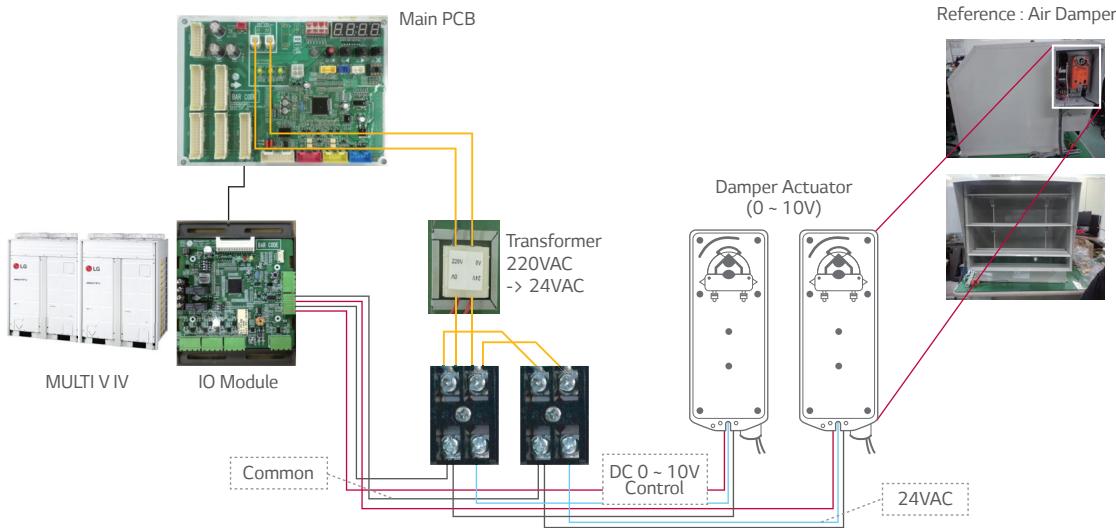
Back

Field Supply Item

Models Applied

- MULTI V IV

Installation Scene

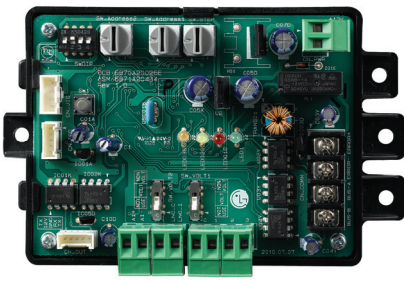


Note : The IO Module can control maximum three actuators. Please, review damper actuator's installation manual.

OUTDOOR UNIT DRY CONTACT

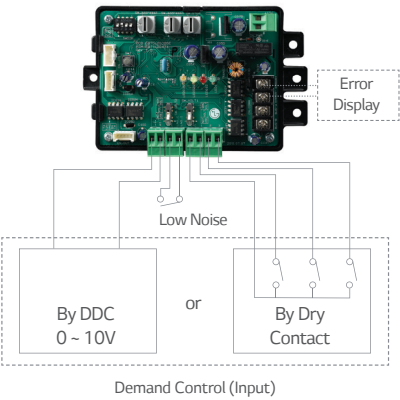
Dry contact for demand control

PQDSBCDVM0



Features

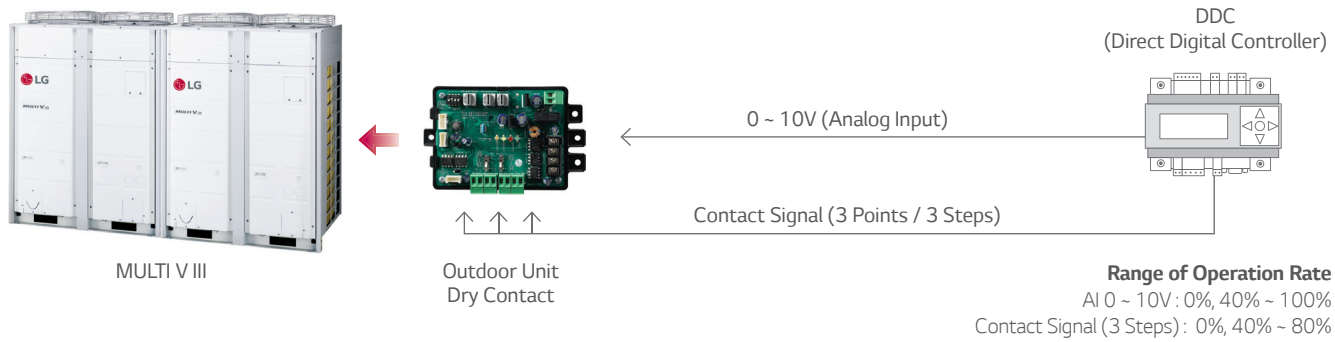
- **Function**
 - Demand control (3 Contact signal)
 - Demand control (Co-work with DDC)
 - Outdoor unit fan low speed control (Night low noise operation)
 - All Off
 - Error output (Display)
- **Description**
 - The product is especially designed for demand control.



Models Applied

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

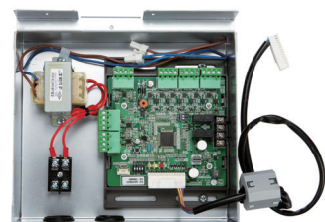
Installation Scene



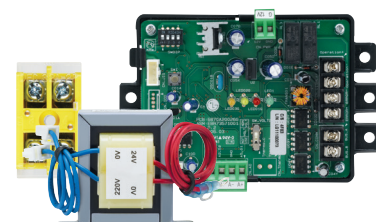
VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow

PWFCKN000 (MULTI V WATER IV)



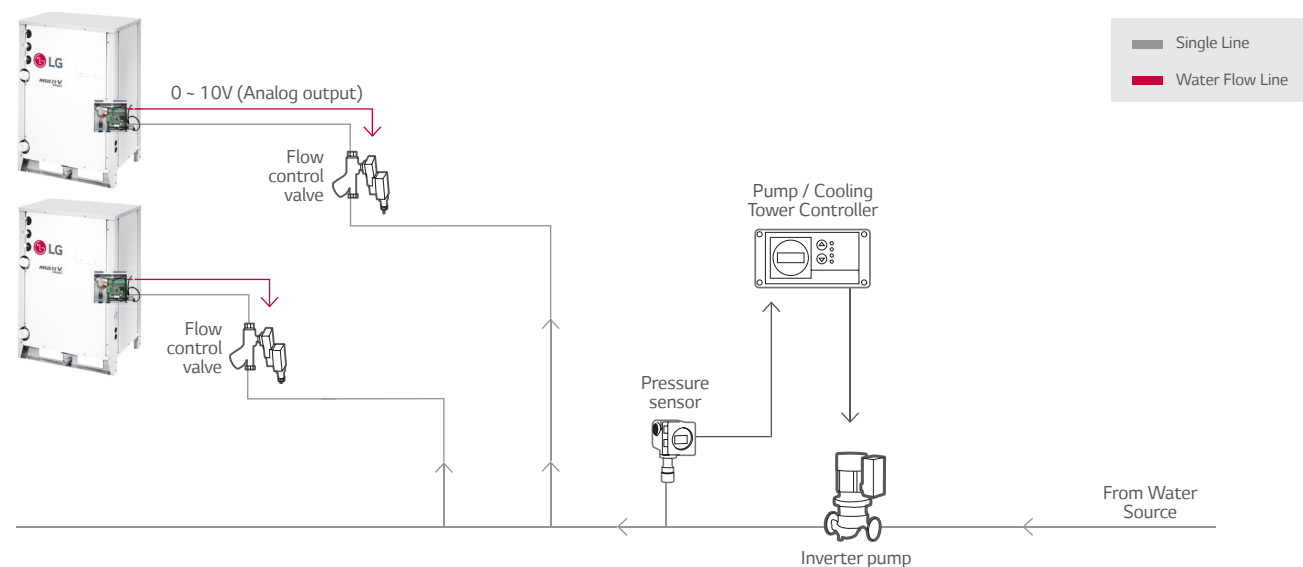
PRVCO (MULTI V WATER II)



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

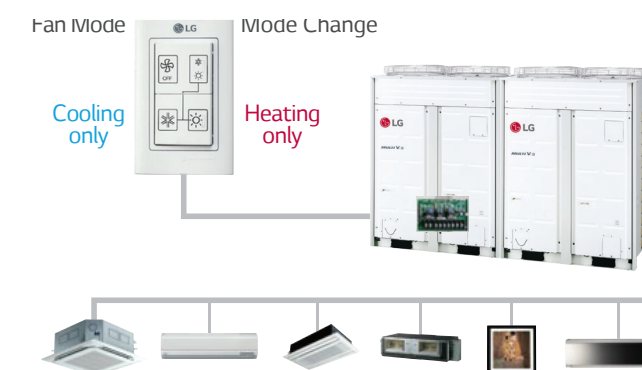
Cooling, heating, or fan mode can be selected to prevent cooling and heating mixing errors during seasonal changes

PRDSBM



Features

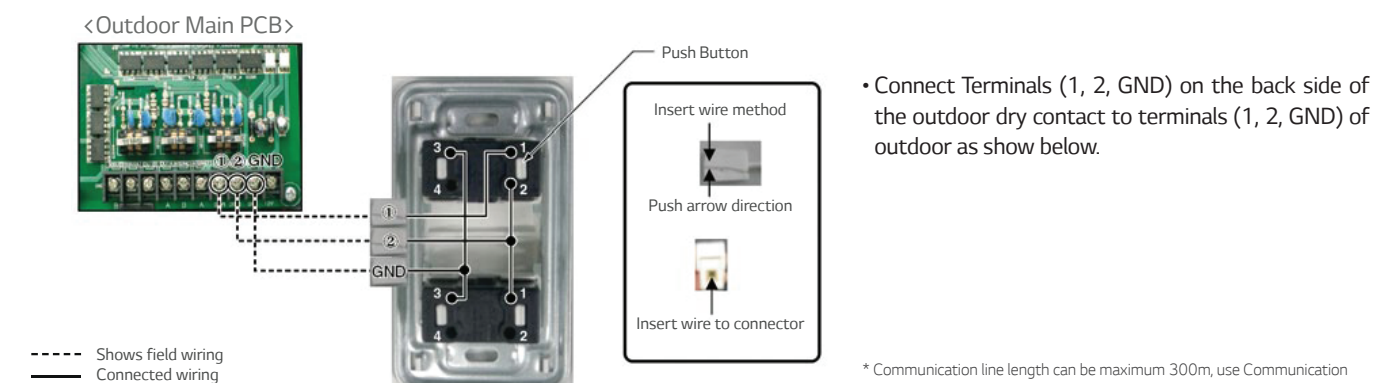
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



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



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

PRCKA1 PRDCA0



Control Kit

PRCKD21E
PRCKD41E



EEV Kit
(Electronic Expansion Valve)

PRLK048A0
PRLK096A0



TXV Kit
(Thermal Expansion Valve)

PATX13A0E PATX25A0E
PATX20A0E PATX35A0E
PATX50A0E

Specifications

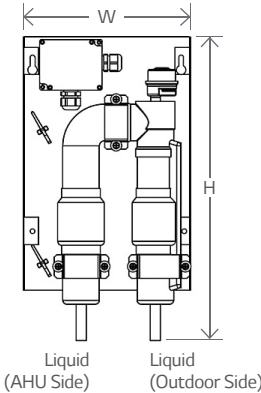
• Communication & Control Kit

Type	Model	Combination				Description	Dimensions (mm)		
		Outdoor unit	EEV Kit	TXV Kit	Centralized Controller		W	H	D
Communication Kit	PRCKA1	MULTI V	•	•	•	Return / Room air control by remote controller or dry contact	280	280	135
	PRDCA0	MULTI V	•	•	-	Return / Room air or supply air (Capacity) control by DDC	330	430	180
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

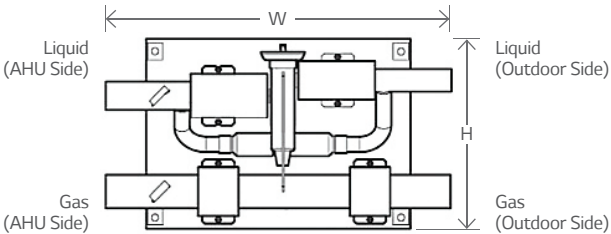
• Expansion valves

Type	Model	Outdoor Unit Combination (Capacity Range)	Pipe Diameter (mm)				Dimensions (mm)		
			Liquid (ODU)	Liquid (AHU)	Gas (ODU)	Gas (AHU)	W	H	D
EEV Kit (Electronic Expansion Valve)	PRLK048A0	4 ~ 10HP	12.7	12.7	-	-	217	404	83
	PRLK096A0	12 ~ 20HP	12.7	12.7	-	-	217	404	83
TXV Kit (Thermal Expansion Valve)	PATX13A0E	8 ~ 16HP	15.88	15.88	22.2	22.2	491	331	174
	PATX20A0E	18 ~ 26HP	15.88	22.2	28.58	28.58	491	331	174
	PATX25A0E	28 ~ 36HP	22.2	28.58	34.92	34.92	491	331	174
	PATX35A0E	38 ~ 46HP	28.58	34.92	41.3	41.3	491	331	174
	PATX50A0E	48 ~ 56HP	28.58	34.92	41.3	41.3	561	331	192

• EEV Kit



• TXV Kit



Features

• Communication Kit

PRCKA1

List	Description
Communication Kit Operation	On / Off
Mode Change	Cooling / Heating / Fan
Return Air (or Room) Temperature Setting	Cooling 18 ~ 30°C, Heating 16 ~ 30°C
Fan Speed Signal Output	3 Steps fan signal output (220V)
Reservation	On / Off, Weekly
Return Air (or Room) Temperature Display	Cooling 18 ~ 30°C, Heating 16 ~ 30°C

Note : PRCKA1 is controlled by LG wired remote controller or LG centralized controller

Accessories for PRCKA1

Wired Remote Controller		Dry Contact				IO Module (for Outdoor Capacity Control)
Standard II		Simple	2 Point	Thermostat	Modbus	
PREMTB001 (White)	PREMTBB01 (Black)	PDRYCB000	PDRYCB400	PDRYCB300	PDRYCB500	PVDSMN000 (MULTI V IV) PWFCN000 (MULTI V WATER IV)

PRDCA0

	List	Description	Type	Min	Max
Controlling	Communication Kit Operation	On / Off	Digital Input* (Non Voltage)	-	-
	Mode Change	Fan only / Heating / Cooling	Digital Input (Non Voltage)	-	-
	Fan Step Signal Output	High / Mid / Low (3 steps)	Voltage Output (220V ~ 230V)	-	-
	Room Temperature Control	Cooling 18 ~ 30°C, Heating 16 ~ 30°C	Analog Input	0V	10V
	Supply Air Temperature Control (by Outdoor Capacity Control)	Compressor Off, Compressor Off & Fan Off, 40 ~ 100% Capacity Control	Analog Input	0V	10V
Monitoring	Outdoor Unit Operation	On / Off	Digital Output* (Non Voltage)	Max : AC 250V, DC 30V, 1A	
	Communication Kit Operation	On / Off	Digital Output (Non Voltage)	Max : AC 250V, DC 30V, 1A	
	Mode	Fan / Defrost / Cooling / Heating	Digital Output (Non Voltage)	Max : AC 250V, DC 30V, 1A	
	Fan mode	High / Mid / Low (3 Steps)	Digital Output (Non Voltage)	Max : AC 250V, DC 30V, 1A	
	Error Status	No Error / Error Occurred	Digital Output (Non Voltage)	Max : AC 250V, DC 30V, 1A	

* Binary input and output (Open and short), DO is normal open, for more detail please refer to installation manual
Note : DDC or thermostat (filed supplied item) is required to control PRDCA0

Accessories for PRDCA0

Wired Remote Controller	
Standard II (Monitoring Only)	
PREMTB001 (White)	PREMTBB01 (Black)

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

Features

• Control Kit

List	Required Item
Heating / Cooling	SA / RA temperature sensor (or SA / RA temperature & humidity sensor)
Automatic Ventilation	SA/RA temperature, CO ₂ sensor, Damper actuator (OA, EA, Mix)
Energy Waving (Cooling Mode only)	SA temperature, OA / RA temp&humidity sensor, Damper actuator (OA, EA, Mix)
Humidification	SA temperature, RA temperature & Humidity sensor, Humidifier
Inverter Fan Control	SA / RA temperature, Static pressure sensor, Inverter driver for fan control
Filter Alarm	Difference pressure Sensor
Smoke Detecting	Smoke detection sensor

RA : Return Air, EA : Exhaust Air, OA : Outdoor Air, SA: Supply Air, MA: Mix air (RA + OA)

• Field supplied item

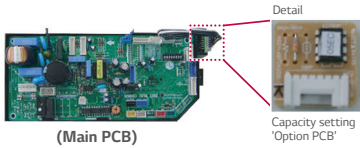
List	Required Specification	Apply Location
Temperature sensor	- Power : AC 24V, Output Signal : DC 0 ~ 10V - Temperature Boundary : -50 ~ 50°C	- Apply to MA, SA, RA
Temperature & Humidity Sensor	- Power : AC 24V, Output Signal : DC 0 ~ 10V - Temperature Boundary : -40 ~ 70°C - Humidity Boundary : 0 ~ 95% RH	- Apply to SA, RA, OA - Can not be applied to MA
Damper Actuator	- Power : AC 24V, In / Output Signal : DC 0 ~ 10V - Torque : 15 Nm, Operation Time : 150sec. - Rotation Angle : 90°	- Apply to OA, EA, MA damper
Difference Pressure Sensor (for Filter)	- Power : AC 24V, Output Signal : DC 0 ~ 10V - Boundary : 0 ~ 1000Pa * Switch Type : Relay Open / Close	- Apply to filter
Static Pressure Sensor	- Power : AC 24V, Output Signal : DC 0 ~ 10V - Boundary : 0 ~ 1000pa	- Apply to SA (for Inverter Control)
CO ₂ sensor	- Power : AC 24V, Output Signal : DC 0 ~ 10V - Boundary : 0 ~ 2000ppm	- Apply to RA duct
Smoke Detection Sensor	- Power : AC 24V, From : Contact Point type	- Apply to RA duct

Note : Boundary of specification can be changed through LGAV software. However, please make a specification referring to the above table

Capacity Selection

• For Communication Kit with MULTI V

- After checking the need capacity, remove the 36k Option PCB equipped in the main PCB, and
set up the Option PCB fitted the need capacity in the main PCB.



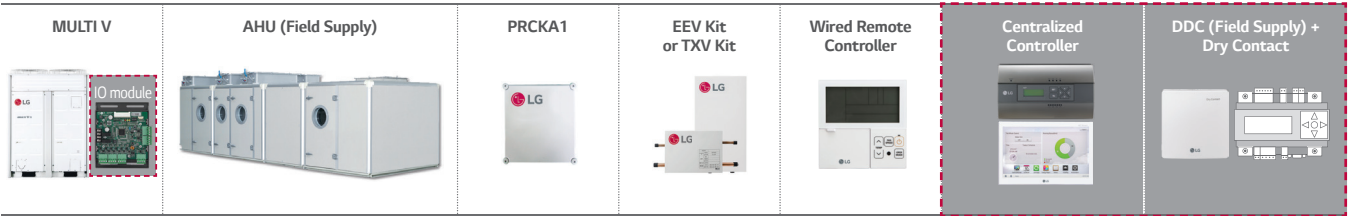
Option PCB P/No	Capacity Index (Btu/h)	Recommended Heat Exchanger Volume (10 ⁻³ x m ³)	Maximum Heat Exchanger Capacity (kW)	Air Flow Rate (CMM)
EBR52358907	28k	2.7	8.6	22 ~ 26
EBR52358908	36k	3.1	11.0	25 ~ 32
EBR52358909	42k	3.4	13.8	31 ~ 35
EBR52358910	48k	4.0	15.4	33 ~ 45
EBR52358911	76k	5.4	22.2	50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

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

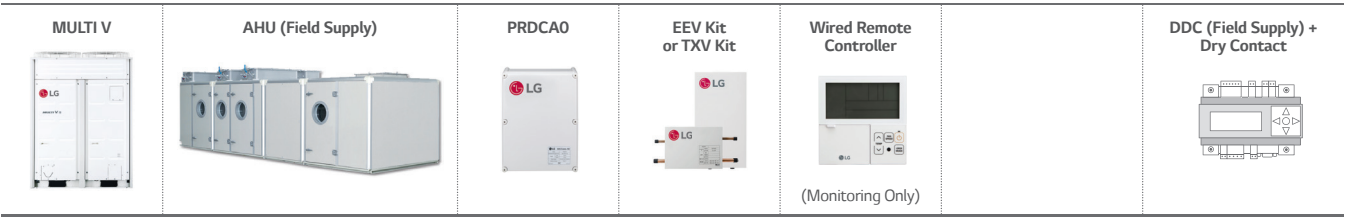
* Heat exchanger volume (m³) : Pipe cross-section x Tube length - Pipe cross-section (m²) = π x ID² / 4 - Tube length (m) = Tube length of 1 pipe x Tube step x Tube row

Installation Scene

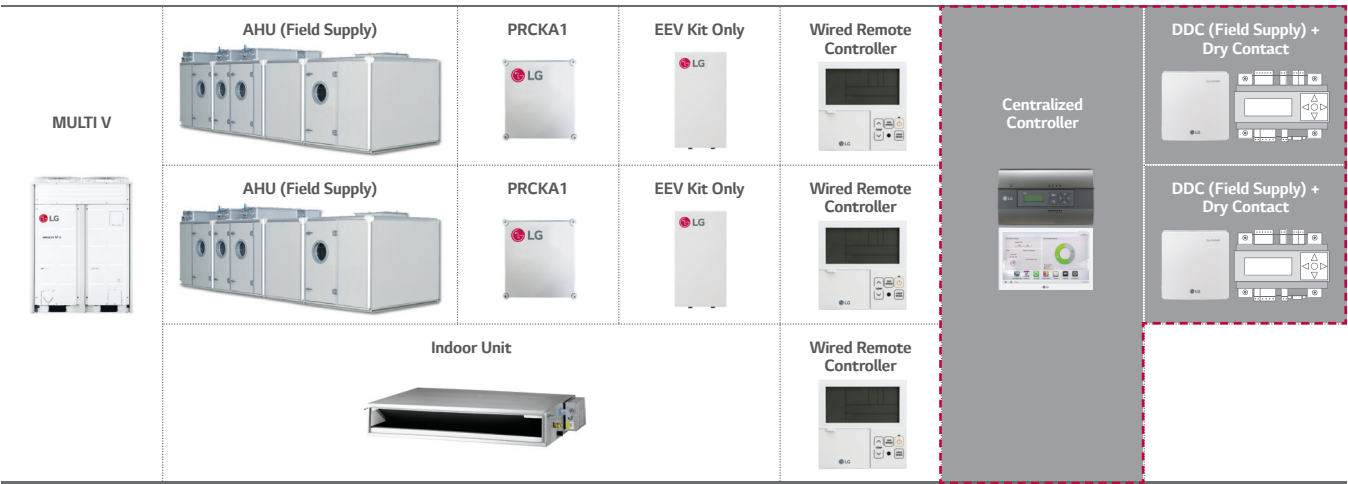
• Simple Control with PRCKA1 – Single AHU



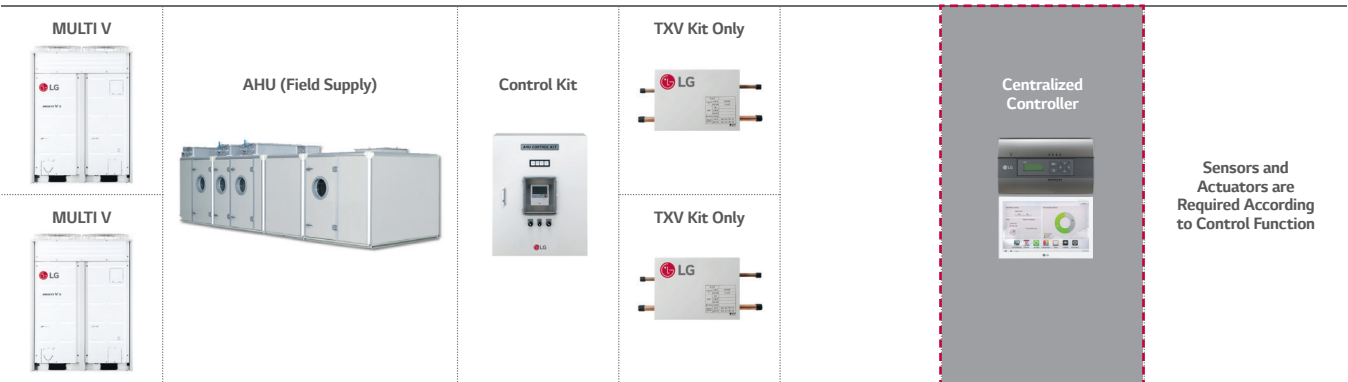
• Simple Control with PRDCA0 – Single AHU



• Simple Control with PRCKA1 – Multiple AHUs (DX Coils)



• Various Control with Control Kit – Multiple MULTI Vs (Up to 8 ODUs)

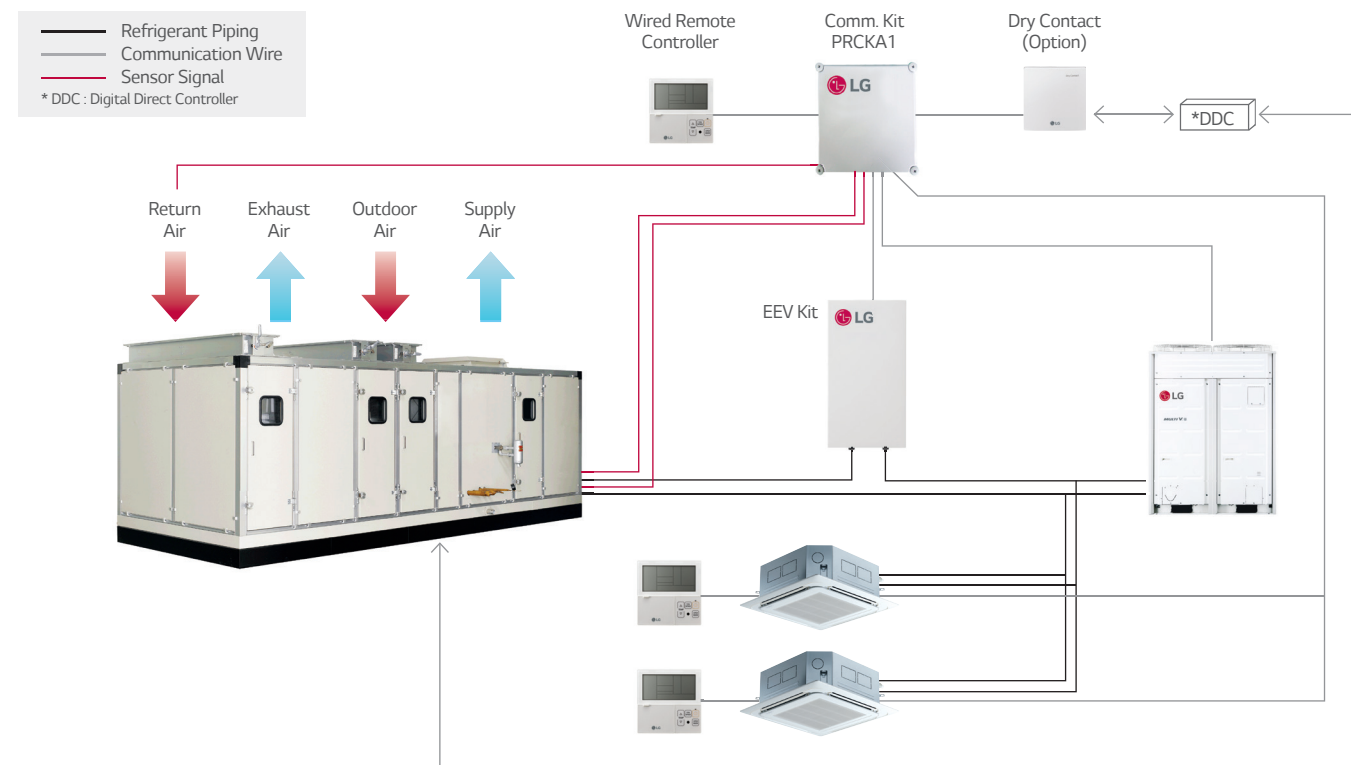


AHU KITS AIR HANDLING UNIT KITS

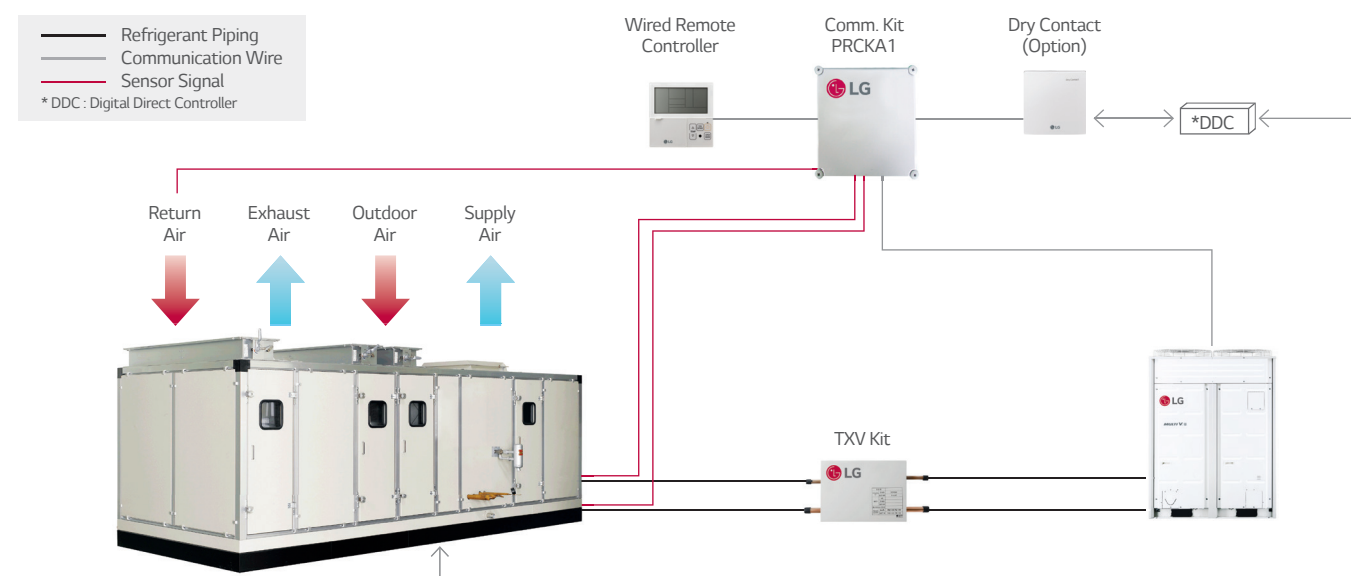
Solution to connect LG outdoor unit on the DX coil of an air handling unit, with LG's high efficient products for maximum cost saving

Application

- **Simple Control with PRCKA1 – EEV Kits + Indoor Units**

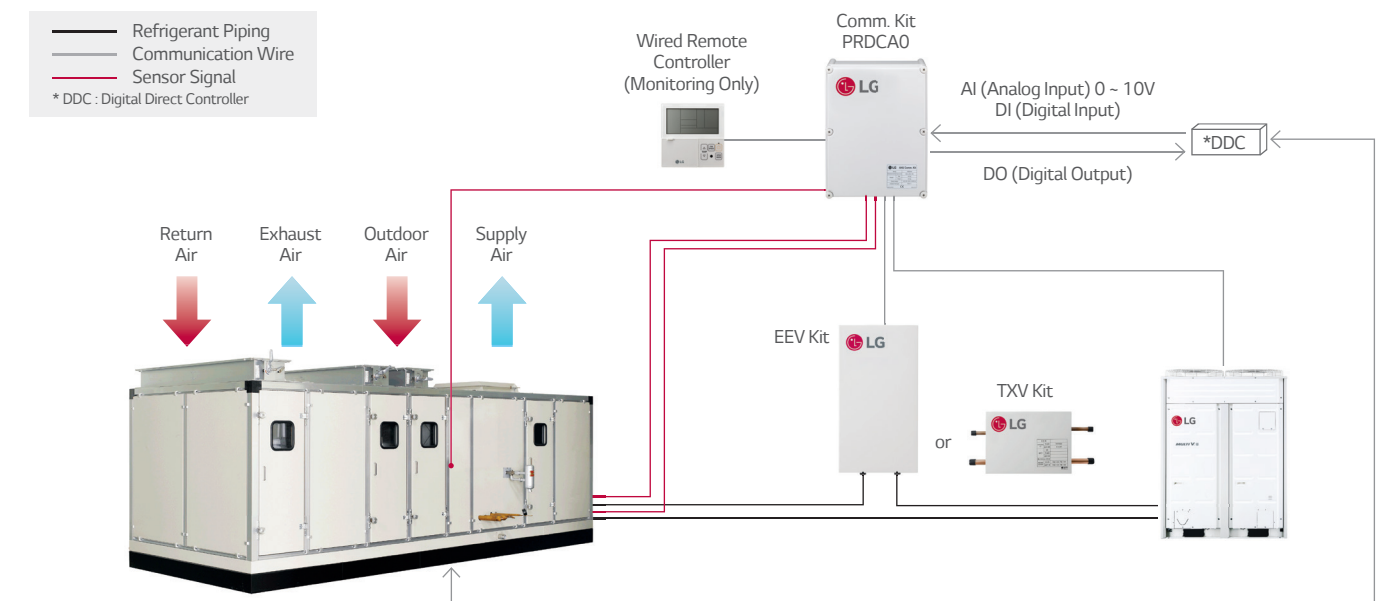


- **Simple Control with PRCKA1 – Single TXV Kit (without Indoor Unit)**

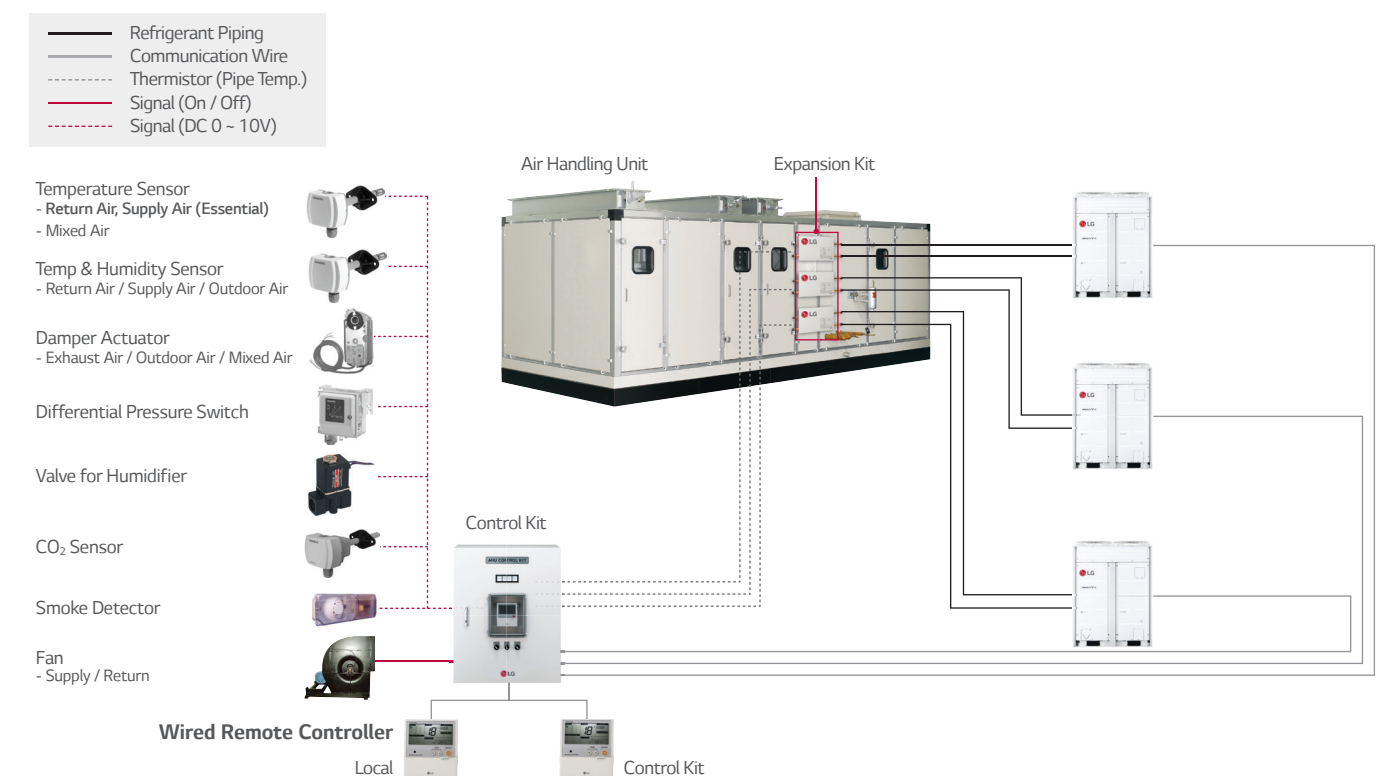


Application

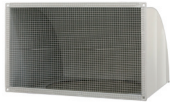
- **Simple Control with PRDCA0 – Single EEV Kit or TXV Kit**



- **Various Control with Control Kit – Multiple MULTI Vs + TXV Kits**



MECHANICAL ACCESSORIES LINE-UP

Indoor		Outdoor
Ceiling Mounted Cassette	Ceiling Concealed Duct	MULTI V
Auto Elevation Grille  PTEGM0	Suction Grille PBSGB30 / PBSGB40 Canvas PBSC30 / PBSC40	Air Guide  PRAGX3S0 PRAGX2S0
Cassette Cover  PTDCM PTDCQ	ETC.	Drain Pan  PRODX20 PRODX30
Cassette Panel  NEW 4 Way Cassette (Compact Panel) PT-QCHW0	CO₂ Sensor  PES-CORV0	
Ventilation Kit  PTVK410  PTVK420 PTVK430	Refrigerant Leakage Detector  PRLDNV50	
4 Way Cassette PT-UQC / PT-UMC1	Independent Power Module  PRIPO	
2 Way Cassette PT-HLC	NEW EEV Kit NEW IR Receiver	
1 Way Cassette (Grill Type) PT-UUC / PT-UUC1 / PT-UTC (Panel Type) PT-UUD / PT-UTD	 PRGK024A0	 PWLRVN000

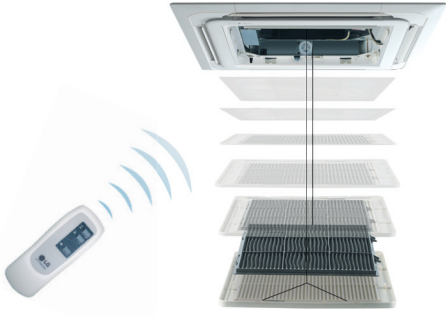
Mechanical Accessories Line up and Application

Type 1	Type 2	Remark
INDOOR	Auto Elevation Grille	4-Way Cassette
	Cassette Panel	4-Way / 2-Way / 1-Way Cassette
	Cassette Cover	4-Way Cassette
	Ventilation Kit	4-Way Cassette
	Suction Grille / Canvas	Ceiling Concealed Duct (Built-in)
	Refrigerant Leakage Detection Kit	MULTI V 4 th Generation Indoors
	Independent Power Module	Indoor
	CO ₂ Sensor	Energy Recovery Ventilator
	EEV Kit	Indoor
OUTDOOR	IR Receiver	Ceiling Concealed Duct
	Air Guide	Outdoor
	Drain Pan	Outdoor

AUTO ELEVATION GRILLE

Easy filter cleaning with the elevation grille

PTEGM0

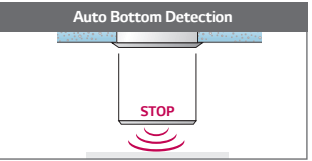
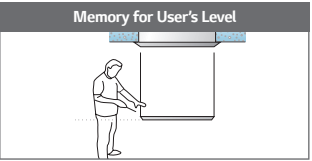
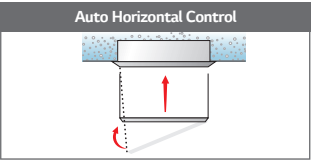
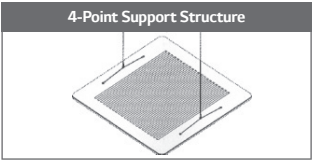


Features

• 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.
* PREMTB001, PREMTBB01

Models Applied

- 4 Way Cassette : 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



CASSETTE PANEL

Stylish designed panels make more unique space by various applications

4 Way Cassette
PT-QCHW0



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

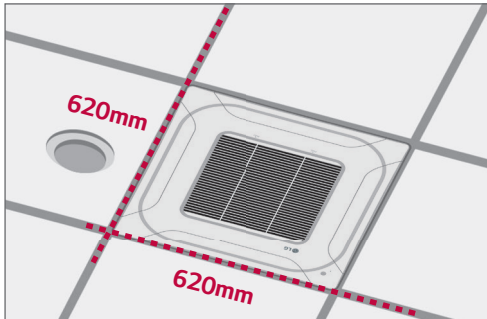
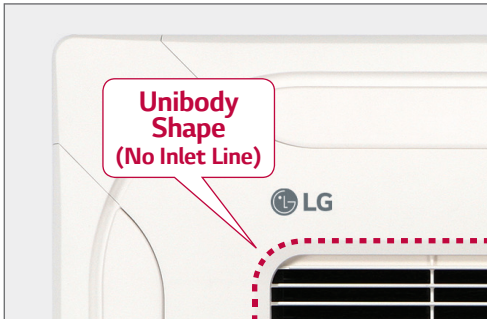


Features

- 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.

Compact and Stylish Design

- New 4 way cassette panel adapted unibody shape and matching with into the ceiling
- Panel size is fit into the ceiling tile



Specifications

Model name		Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)			Applied Model
						W	H	D	
4-Way	PT-QCHW0	Horizontal Grill	Morning Fog (RAL 120-4)	X	3.0	620	20	620	1.5 ~ 5.0kw
	PT-UQC	Horizontal Grill	Morning Fog (RAL 120-4)	X	3.0	700	22	700	1.5 ~ 5.0kw
	PT-UMC1	Horizontal Grill	Morning Fog (RAL 120-4)	X	5.6	950	25	950	7.1 ~ 14.0kw
2-Way	PT-HLC	Grill	Morning Fog (RAL 120-4)	X	4.0	1,050	28	640	5.0 ~ 7.1kw
1-Way	PT-UUC	Grill	Noble White (RAL 110-1)	O	4.6	1,100	34	500	2.1 ~ 3.5kw
	PT-UUC1	Grill	Morning Fog (RAL 120-4)	X	4.4	1,100	34	500	2.5 ~ 3.5kw
	PT-UTC	Grill	Noble White (RAL 110-1)	O	5.5	1,420	34	500	5.0 ~ 7.1kw
	PT-UUD	Panel	Noble White (RAL 110-1)	O	4.6	1,100	34	500	2.1 ~ 3.5kw
	PT-UTD	Panel	Noble White (RAL 110-1)	O	5.5	1,420	34	500	5.0 ~ 7.1kw

CASSETTE COVER

Air purifying filter to prevent dust and allergens

PTDCM
PTDCQ



Features

- Specially designed for indoor unit
- Gives elegant looks
- Covers the side area of cassette
- 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	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	- -	TR	5.0	7.2	907	907	268
		TQ	5.0	7.2	907	907	310

VENTILATION KIT

Fresh air can be supplied from outside through this ventilation kit

PTVK410
PTVK420
PTVK430



Features

- The ventilation kit can be supplied air from outside.

Models Applied

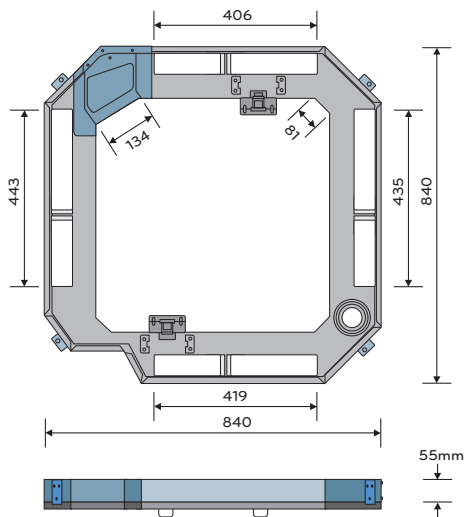
- **There are 2 Solutions for Fresh Air**
 - PTVK410+PTVK420 (for chassis TP, TN, TM)
 - PTVK430 (for chassis TR, TQ, TP, TN, TM)

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

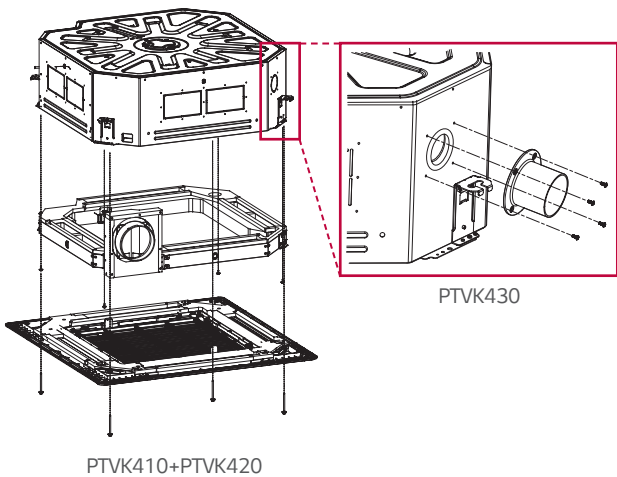
Parts Included

- 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



Features

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

Models Applied

- Ceiling Concealed Duct _ Built-in type

Accessory Model Name

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

SUCTION GRILLE / CANVAS

High flexibility for a wide variety of applications

Parts Included

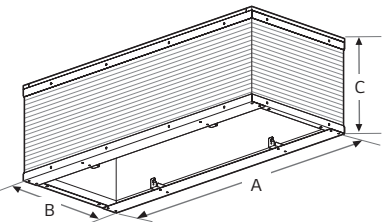
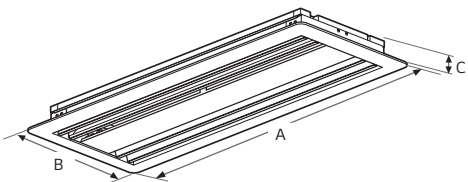
• For the Suction Grille :

- Suction panel with air filter (1EA)
- Suction panel fix bolt M5 x 18 (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



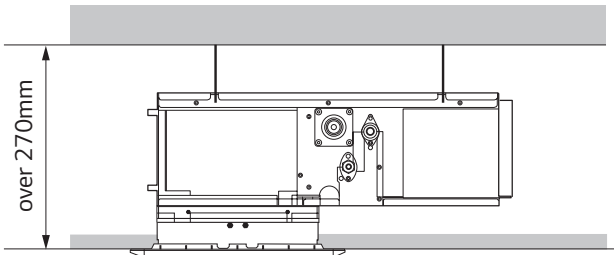
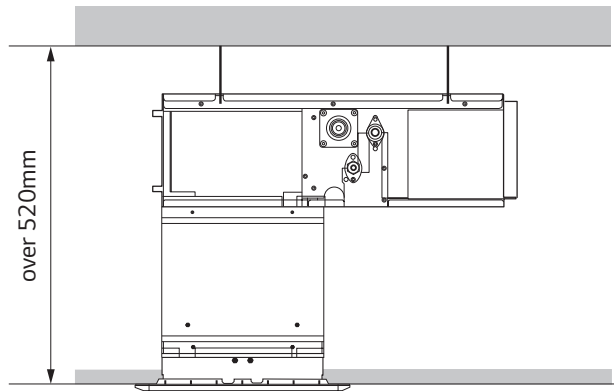
(Unit : mm)

Model Name	A	B	C
PBSGB30	910	359	56
PBSGB40	1,188	359	56

(Unit : mm)

Model Name	A	B	C
PBSC30	821	274	42 ~ 250
PBSC40	1,100	274	42 ~ 250

Application



CO₂ SENSOR

CO₂ sensor in ventilation system.

PES-CORV0



Features

1) Model name : PES-CORV0

2) Specification

- Applied Model : ERV, ERV DX
- Function
 - Supply Voltage : DV 12V ± 5%
 - Output : 0 ~ 5V (Linear output, 1 ~ 2,000ppm CO₂)
 - Accuracy : 30ppm ± 5% of reading

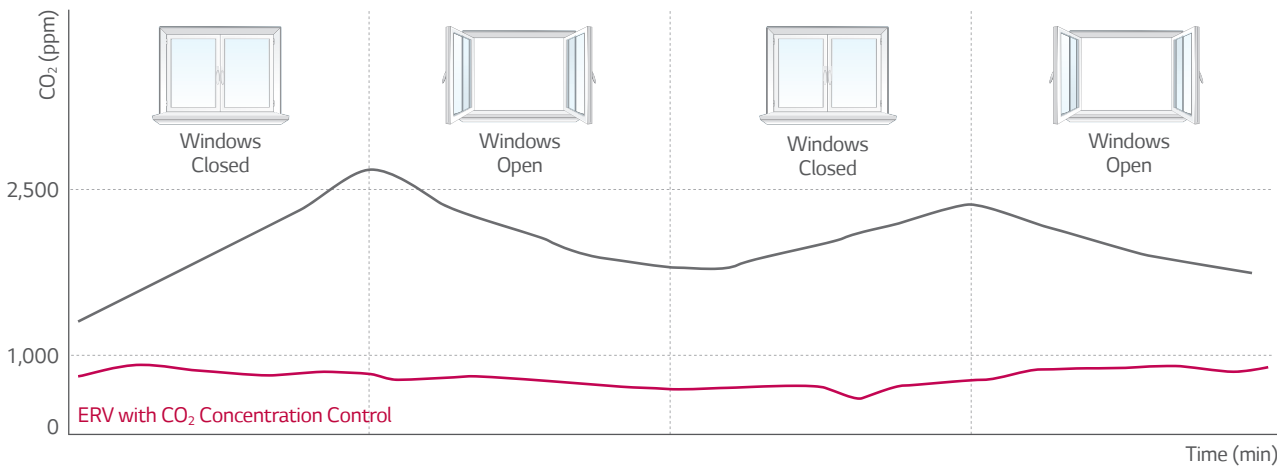
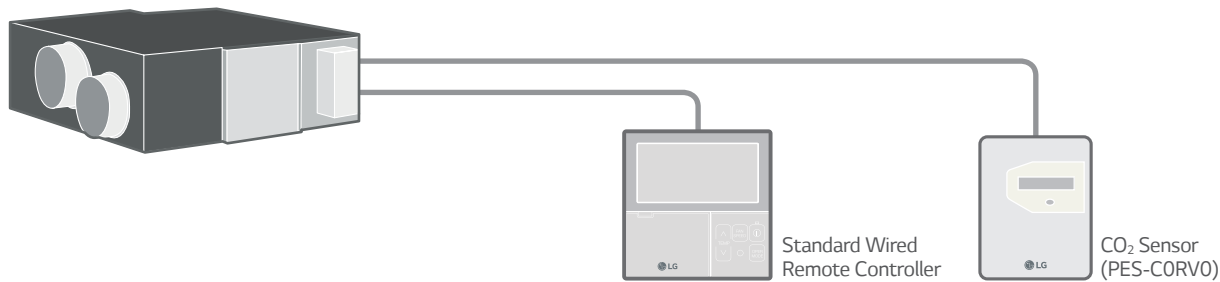
3) Description

- The product is especially designed to detect CO₂ concentration in ERV system.

• Operation Table

CO ₂ Sensor Reading	ERV Fan Operation
<500ppm	Off
500 ~ 700ppm	Low Speed
700 ~ 900ppm	High Speed
>900ppm	Super High Speed

Installation Scene



REFRIGERANT LEAKAGE DETECTOR

R410A refrigerant leakage detector makes more safe our space

PRLDNVS0



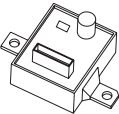
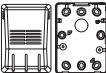
Features

- This detector senses refrigerant leakage and when the refrigerant concentration exceeds 6,000ppm not only it will stop indoor unit operation but also it will give an alarm 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 is switched on 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.

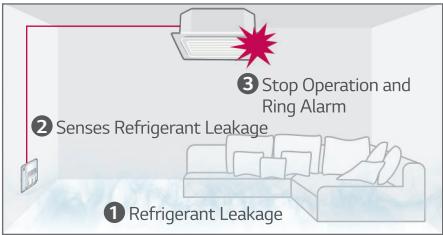
Models Applied

- New 4th generation indoor units only
- More detailed information refer to the “MULTI V INDOOR UNIT LINE UP & FEATURES OVERVIEW”. (Page 96 ~ 97)

Specifications

Parts	Specifications	
	Rated Voltage (V)	DC 5.0 ± 5%
	Dimensions (W x H x D, mm)	31 x 44 x 20
	Weight (g)	22
	Detectable Refrigerant	R410A
	Detected Concentration (ppm)	0 / 6,000 Alarm Off / On
	Operating Temperature Range (°C)	-10 ~ 50
	Preserved Temperature Range (°C)	-40 ~ 60
	Average Power Consumption (mA)	35
	Cable Length (m)	10
	Dimensions of Front Plate (W x H x D, mm)	80 x 110 x 44.6
	Dimension of Backplate (W x H x D, mm)	80 x 110 x 6.5

Application



NEW

EEV KIT

MULTI V EEV KIT is specially designed to reduce noise and make comfort environment

PRGK024A0



Features

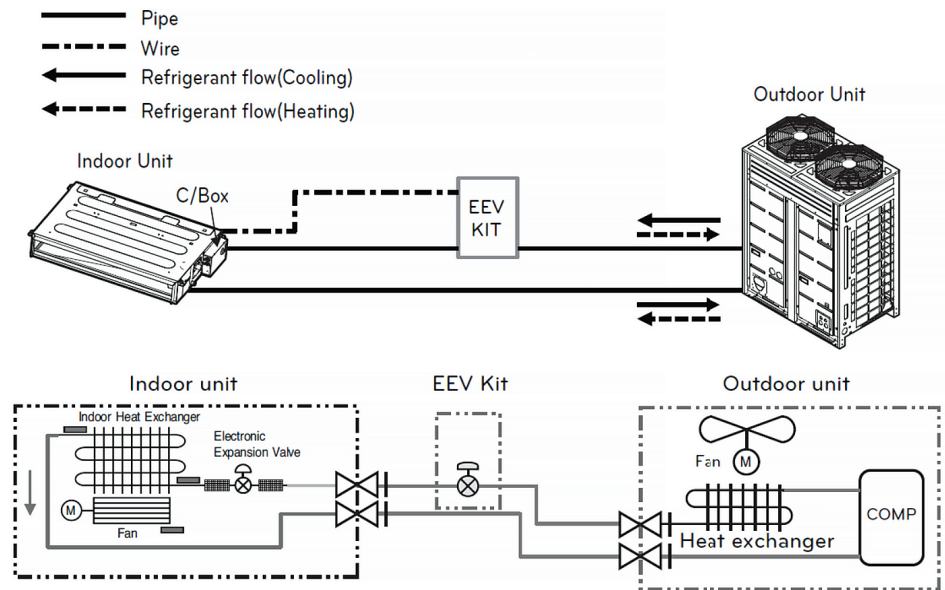
- Decreasing noise level of Multi V Indoor units Easy installation

Models Applied

- Ceiling Cassette (up to 15kBtu)
- Ceiling Concealed Duct (up to 18kBtu)
- Wall Mounted (up to 24kBtu)
- Console (up to 15kBtu)
- Floor Standing Unit (with Case / without Case) (up to 15kBtu)
- Convertible (up to 12kBtu, Ceiling Suspended Type is not able to connect this Kit)

* Fresh Air intake Unit is not able to connect this Kit

Application



Note : If you don't use EEV of same specification, Cooling (Heating) capacity may decrease.

NEW

IR RECEIVER

IR RECEIVER can be connected to CCD where the customer wants to control by wireless remote controller

PWLVRVN000



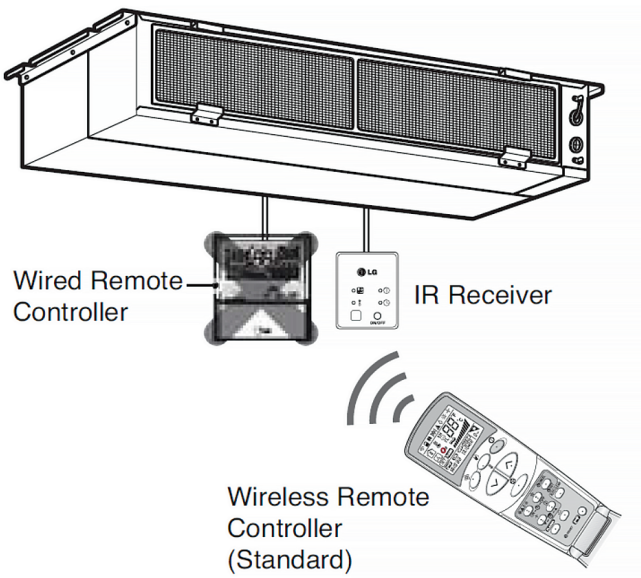
Features

- Designed for wireless control to operate Ceiling Concealed Duct Operation of Indication lamp (3 colors) Self-diagnosis function

Models Applied

- MULTI V Indoors (Ceiling Concealed Duct, Floor Standing Units)

Application



Note : Do not install both the IR Receiver and Wired Remote Controller. This may cause malfunctions.

INDEPENDENT POWER MODULE

EEV full close function in case of power cut

PRIP0

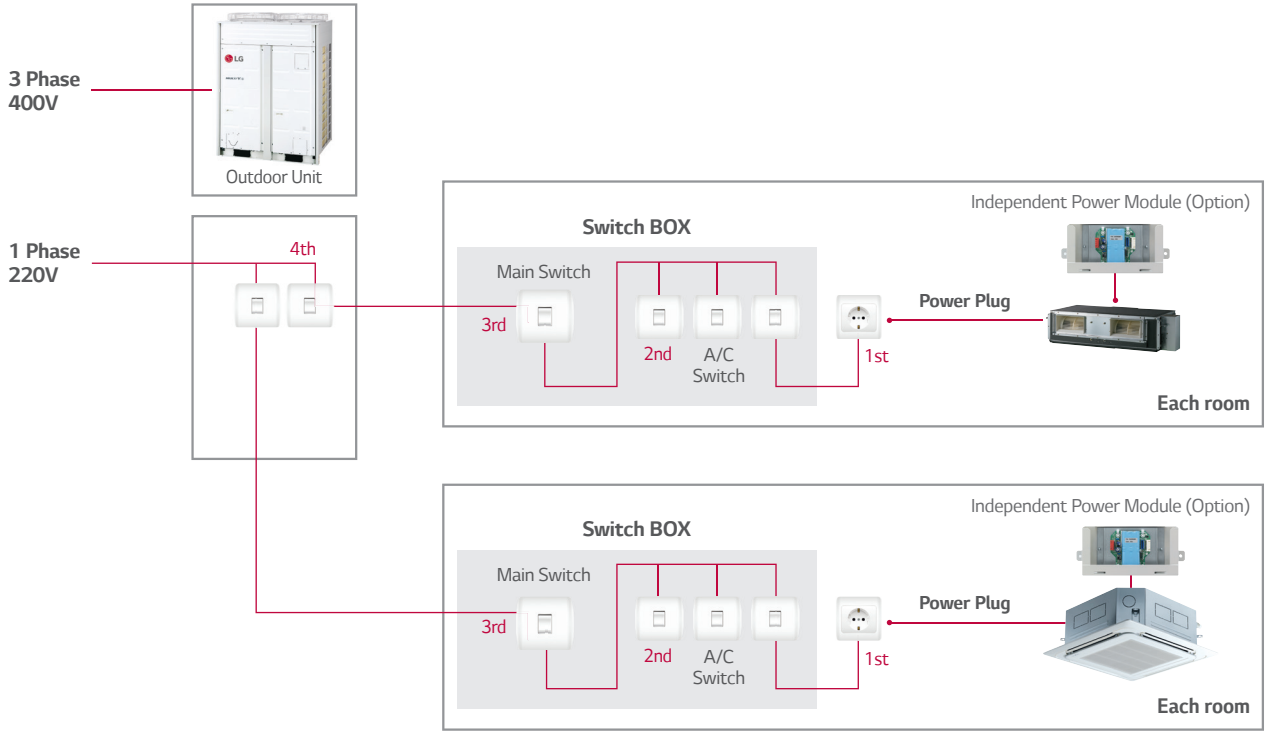


Features

- **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



PRAGX2S0
(14 / 16 / 18 / 20HP)

PRAGX3S0
(8 / 10 / 12HP)

Features

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

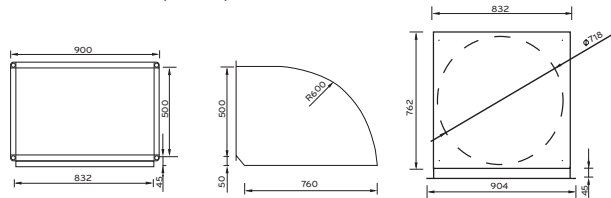
Models Applied

- MULTI V IV (UX2, UX3)
- * In case of UX3, must purchase 2 units of PRAGX3S0.

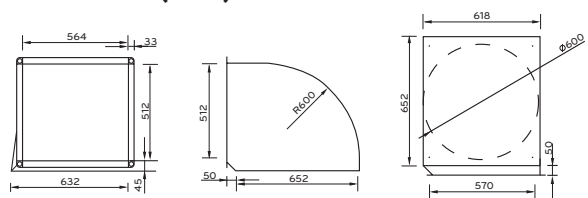
Dimensions

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

• MULTI V IV (UX2)



• MULTI V IV (UX3)



Application

- MULTI V IV (UX2)
 - ARU*08LTE4
 - 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



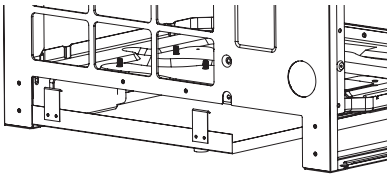
PRODX20

PRODX30

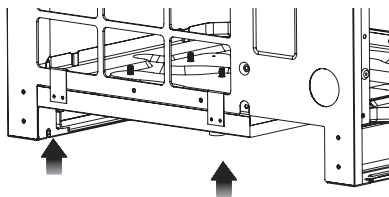
Features

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

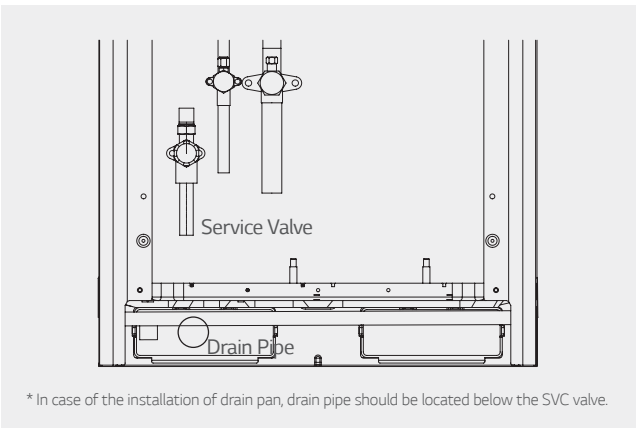
Installation



* 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.

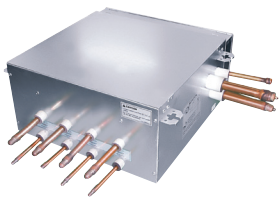
Accessory Model Name

Model Name	Width x Length	Remark
PRODX20	920mm x 466mm	UX2
PRODX30	1,240mm x 466mm	UX3

PIPING ACCESSORIES LINE-UP

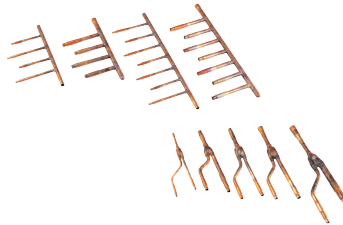
MULTI V

Heat Recovery Unit



PRHR022
PRHR032
PRHR042

Y Branch and Header Branch



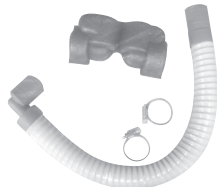
ETC

Stopper Valve



PRVT120
PRVT780
PRVT980

Drain Hose



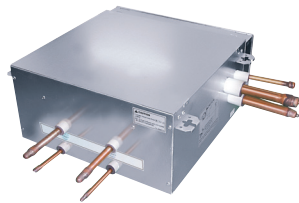
PHDHA05T
PHDHA07T
PHDHA05B
PHDHA07B

Mechanical Accessories Line up and Application

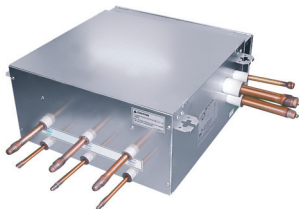
Model name	Remark
Heat Recovery Unit	MULTI V Sync II / MULTI V III Heat Recovery / MULTI V IV Heat Recovery
Y Branch and Header Branch	Various Type of MULTI V Series

HEAT RECOVERY UNIT

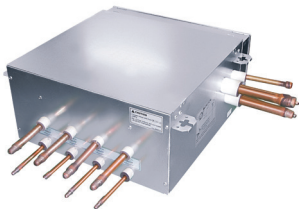
PRHR022
PRHR032
PRHR042



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 (W x H x D)		mm	801 x 218 x 617	801 x 218 x 617	801 x 218 x 617	
Piping Connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	
		Gas	mm (inch)	15.88 (5/8)	422 x 202 x 300	422 x 202 x 300
	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	

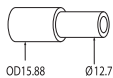
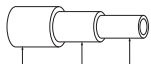
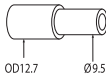
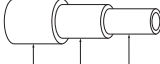
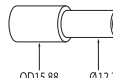
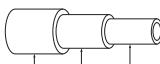
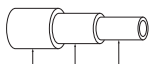
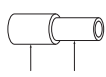
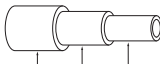
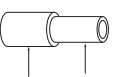
Parts Included

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

HEAT RECOVERY UNIT

Reducers for Indoor Unit and HR Unit

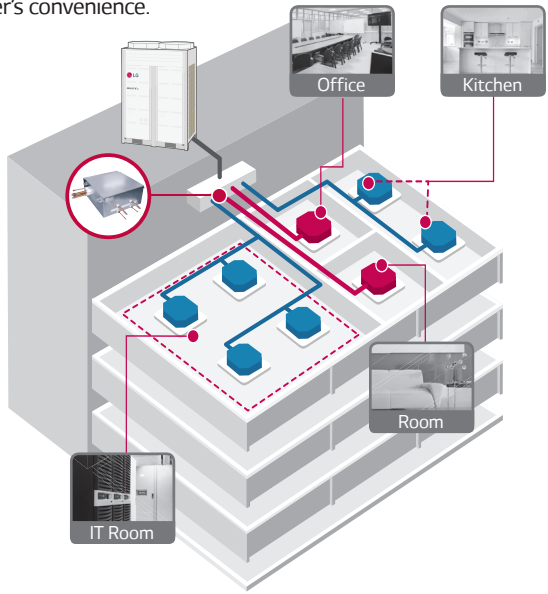
(Unit : mm)

Model Name		Liquid	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

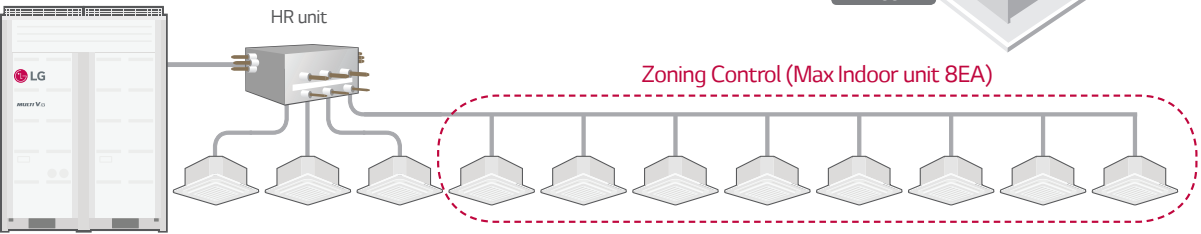
Convenient Free Zoning

MULTI V IV 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 operational 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

For refrigerant distribution of indoor units



Y Branch

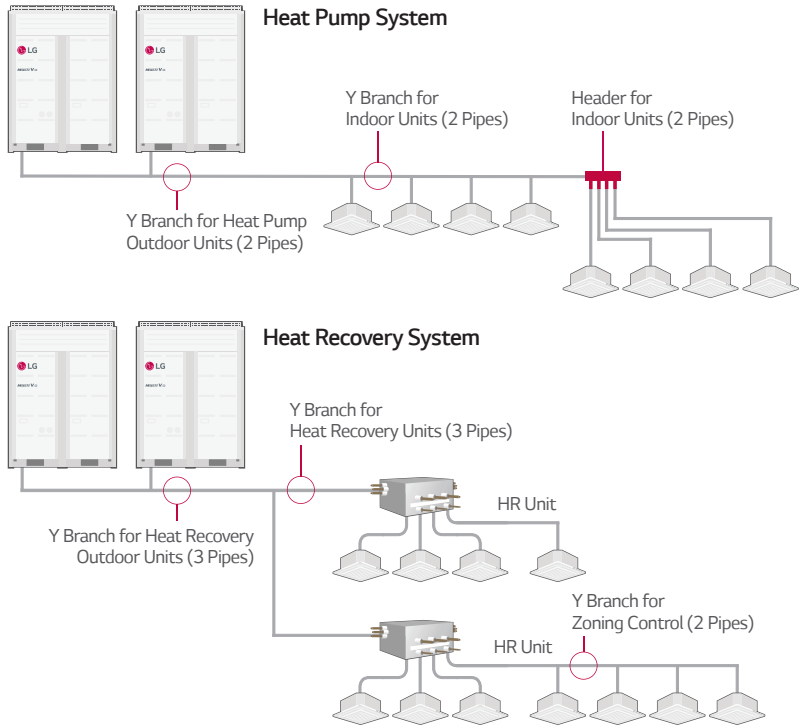


Header Branch

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



Models Applied

- MULTI V 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

PIPING ACCESSORIES

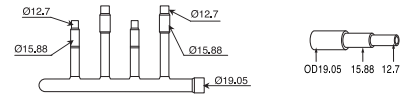
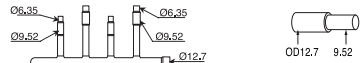
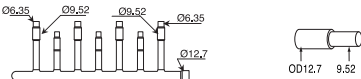
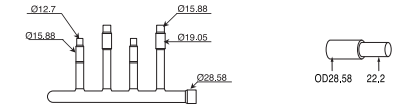
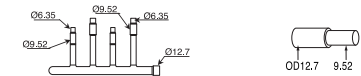
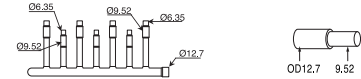
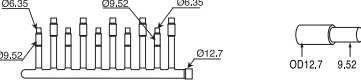
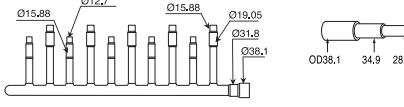
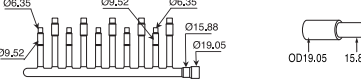
Y Branch pipe for connection of outdoor units

Details of Model Name

[Header Branch]

• **R410A**

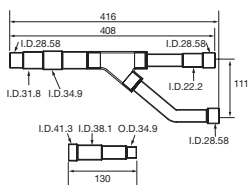
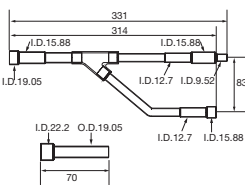
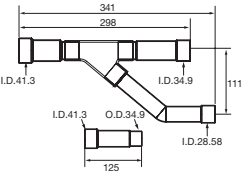
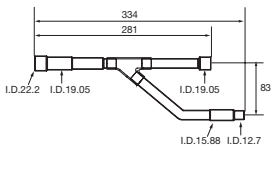
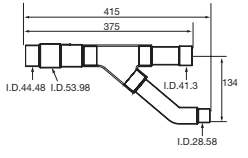
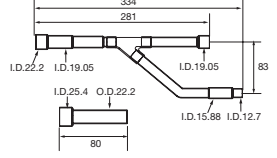
(Unit : mm)

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

[Heat Pump]

• **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		

PIPING ACCESSORIES

Y Branch pipe for connection of outdoor units

[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			

[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	Low Pressure Gas Pipe	Liquid Pipe
ARBLN23220		

PIPING ACCESSORIES

Y Branch pipe for connection of outdoor units

[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			

STOPPER VALVES

Under 1 / 2 (inch)

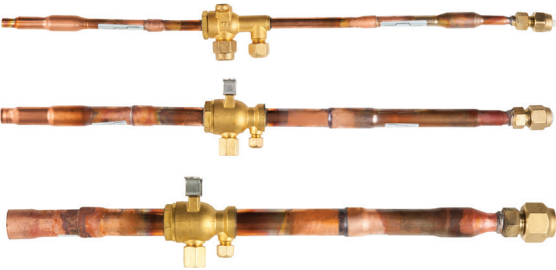
PRVT120

Under 7 / 8 (inch)

PRVT780

Under 9 / 8 (inch)

PRVT980



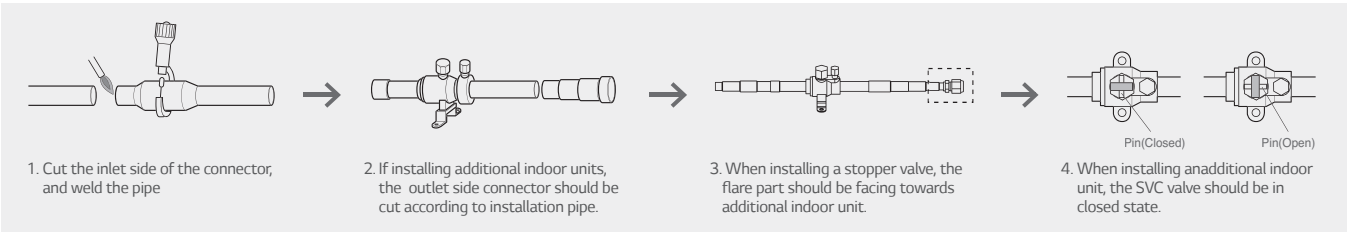
Features

Model Name	Specification
PRVT120	
PRVT780	
PRVT980	

Usage

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

Installation

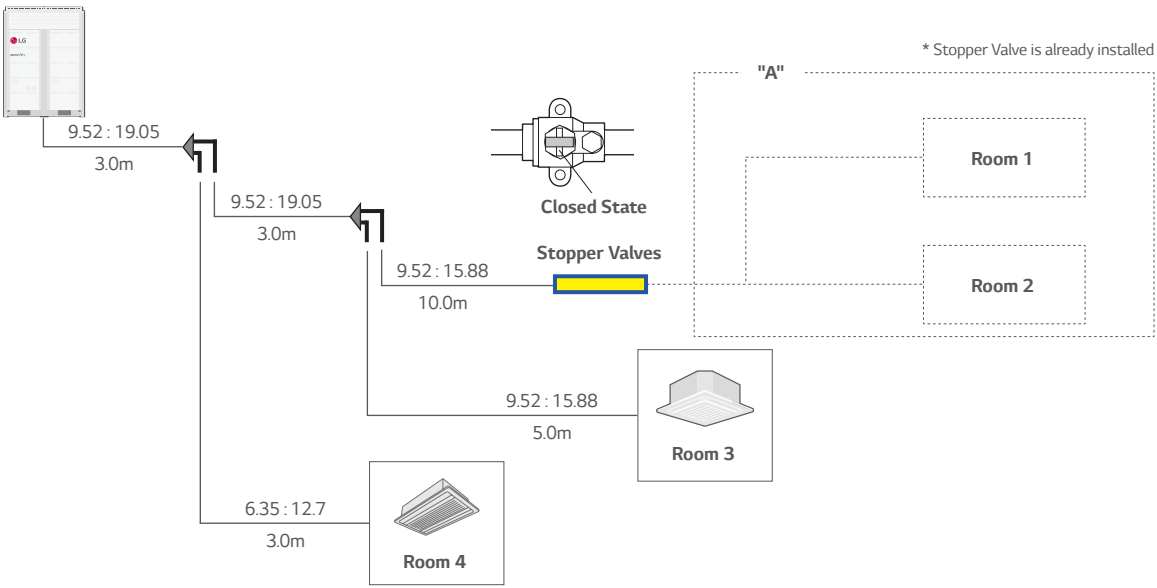


* When welding, service valve should be wrapped by wet cloth.

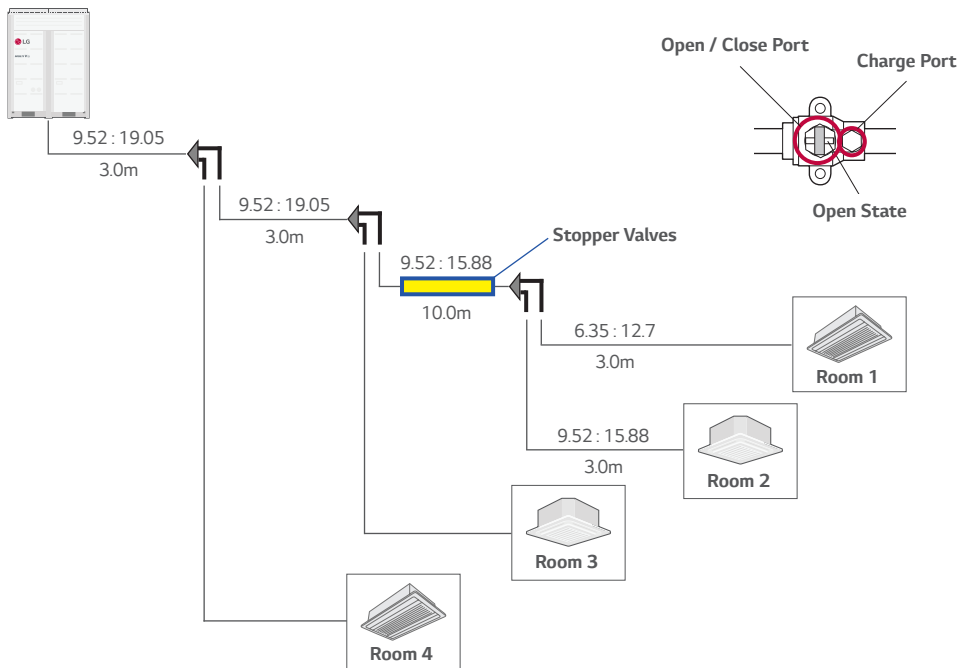
STOPPER VALVES

Details of Model Name

• **Case1**
(Room 3 & 4 : In use / Room 1 & 2 : Need to install indoor units)



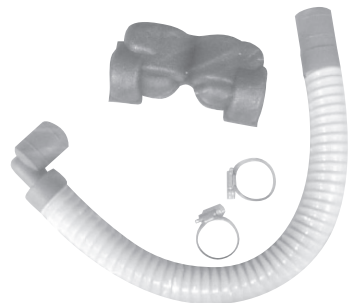
- In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room 3 & Room 4)
- If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
- After installation of additional indoor unit, you just need refrigerant charging for "A" section.
- Then, open the Stopper Valve.



DRAIN HOSE

Easy drain installation

PHDHA05T
PHDHA07T
PHDHA05B
PHDHA07B

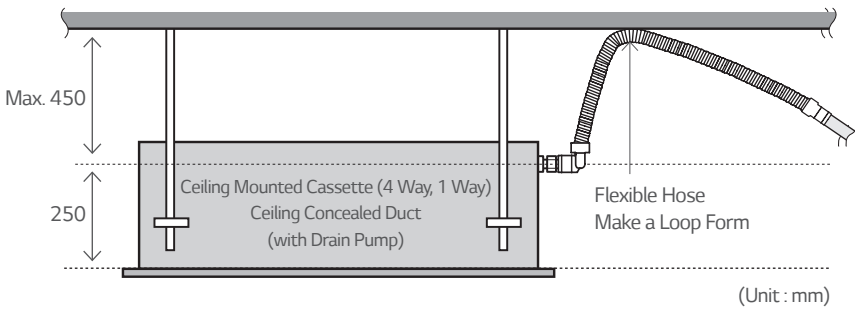


Features

- 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

MEMO

● : Compatibility is available ▲ : Wired remote controller is required ✕ : Compatibility is unavailable ◎ : Compatibility is available but more detailed functions refer to "MULTI V INDOOR UNIT LINE UP & FEATURES OVERVIEW". (Page 96 ~ 97)

Product				Controller		Premium	Standard II		Simple		Simple for Hotel		Wireless	Dry Contact				Wi-Fi
																		
				PREMTA000 PREMTA000A PREMTA000B	PREMTB001	PREMTB001	PQRCVCLOQ	PQRCVCQW	PQRCHCA0Q	PQRCHCA0QW	PQWRHQ0FDB	Simple Dry Contact PDRYCB000	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-C4	●	◎		●		●		●	●	●	●	●	●		
		 2 Way / 1 Way	ARNU-C4	●	◎		●		●		●	●	●	●	●	●		
	Ceiling Concealed Duct	 High Sensible	ARNU-A4	●	◎		●		●		▲	●	●	●	●	●		
		 High Statics Mid Statics	ARNU-A4	●	◎		●		●		▲	●	●	●	●	●		
		 Low Statics	ARNU-G4	●	◎		●		●		▲	●	●	●	●	●		
		 Built-in	ARNU-G4	●	◎		●		●		▲	●	●	●	●	●		
	FAU (Fresh Air intake Unit)	 FAU	ARNU-Z4	●	●		●		●		▲	●	●	●	●	●		
	Convertible & Ceiling Suspended Unit	 Convertible	ARNU-A2	●	◎		●		●		●	●	●	●	●	●		
	Console	 Console	ARNU-A4	●	●		●		●		●	●	●	●	●	●		
	Floor Standing Unit	 Floor Standing	ARNU-A4 ARNU-U4	●	●		●		●		●	●	●	●	●	●		
		Wall Mounted Unit	 Wall Mounted	ARNU-A4	●	●		●		●		●	●	●	●	●	●	
	 Wall Mounted		ARNU-*4 ¹⁾	●	●		●		●		●	●	●	●	●	●		
	 Wall Mounted		ARNU-L4 ARNU-A4	●	◎		●		●		●	●	●	●	●	●		
	HYDRO KIT ²⁾		 Hydro Kit									●	X	X	X	X		
	Ventilation	Energy Recovery Ventilator	 Energy Recovery Ventilator	●	●		X		X		X	●	X	X	X	X		
		Energy Recovery Ventilator with DX coil	 Energy Recovery Ventilator with DX coil	●	●		X		X		X	●	●	●	●	X		
	AHU Communication Kit		 AHU Communication Kit	●	●		●		●		▲	●	●	●	●	X		

1) Artcool Mirror : Mirror (R) / Silver (V) / White (W)
2) It has a separate remote controller

MEMO