

MULTI VTM WATER5

Highlight



Higher Energy
Efficiency



High
Reliability



Improved
Convenience

- Water Cooled VRF Heat Pump & Heat Recovery
- Operation Independent of Weather Conditions (Outdoor Unit Installed Indoor)
- Replacement of Chiller - FCU System



High Efficiency System Regardless of External Conditions

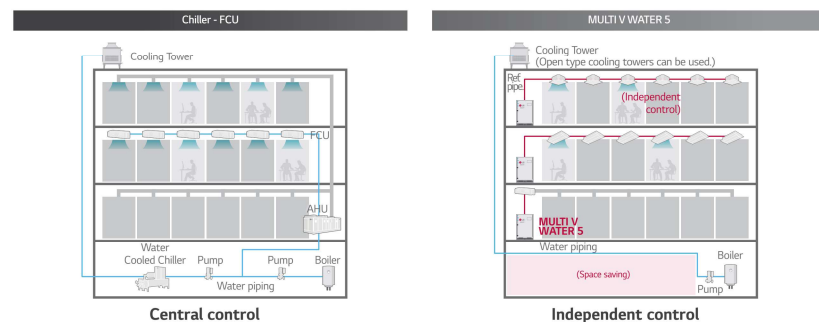
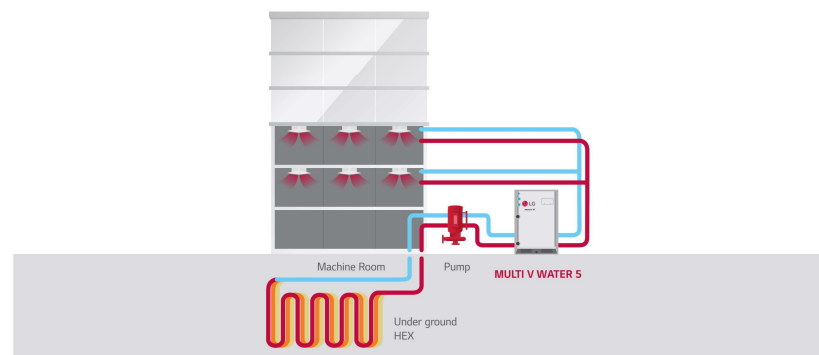
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER 5 is the optimal solution.



MULTI V WATER 5 System for Geothermal Applications

Uses underground heat sources like soil, ground water, lakes, rivers and more as renewable energy for cooling and heating. Water or antifreeze solution is circulated through the closed loop HDPE (High Density Poly-Ethylene) pipes buried beneath the earth's surface.

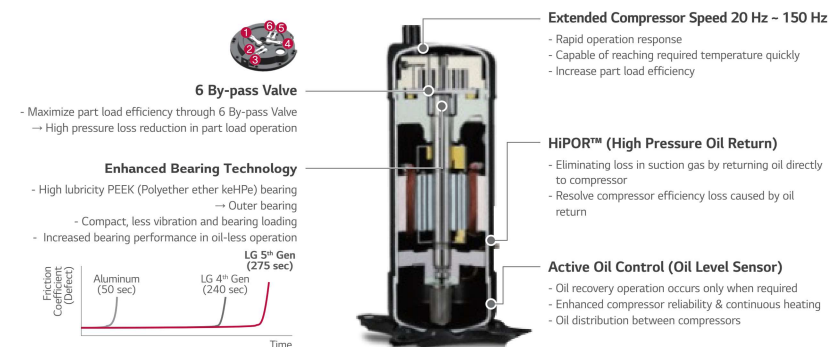
- The circulating water temperature range is between -5°C ~ 45°C .
- Antifreeze should be applied depending on the application.



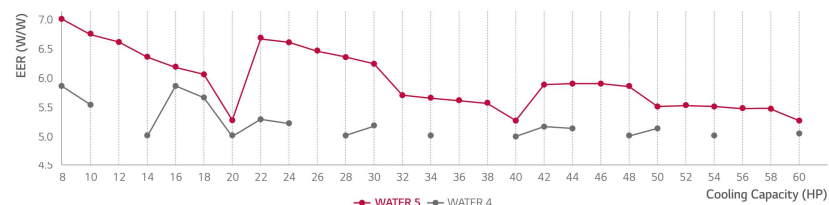
Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor.

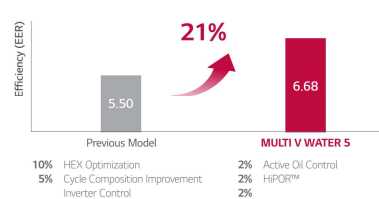
With 5th generation inverter compressor, the MULTI V Water 5 boasts top-class energy efficiency.



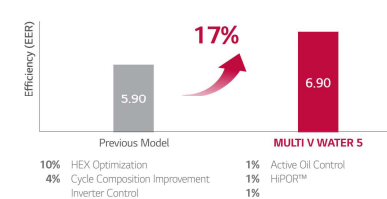
EER Comparison



Energy Efficiency Ratio (Cooling)



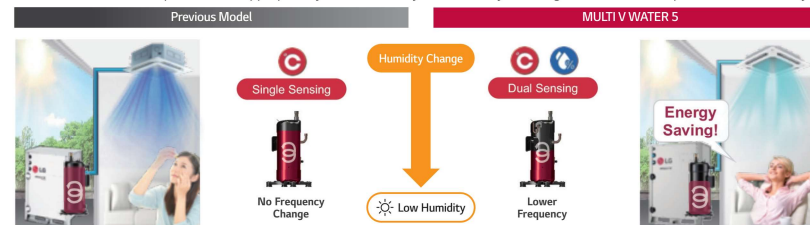
Coefficient of Performance (Heating)



※ Comparison between 10 HP (28 kW)

Dual Sensing Control

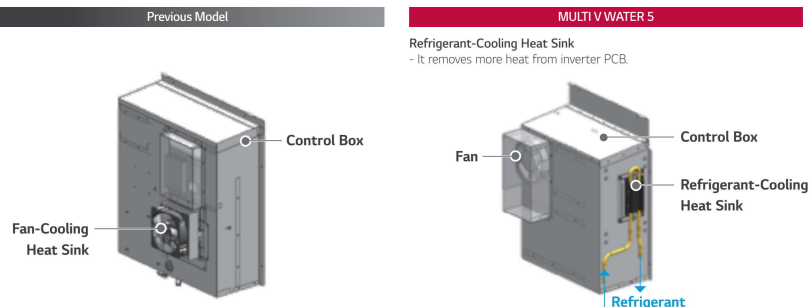
MULTI V WATER 5 can operate more appropriately in low humidity conditions by referring to the indoor temperature and humidity.



※ This function requires the indoor unit to be equipped with a humidity sensor, the CRC1 remote controller or the Standard III remote controller

Refrigerant Liquid-cooled Inverter Drive




MULTI V WATER 5 can remove heat from inverter PCB through Refrigerant-Cooling Heat Sink



Largest Capacity

Sufficient pipe length limitation provides flexible design and installation.

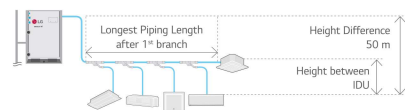
Providing 8 ~ 20 HP (22.4 ~ 56 kW) with single unit, and up to the world's largest capacity 60 HP (168 kW) by combination.

v	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	
kW	22.4	28	33.6	39.2	44.8	50.4	56	61.6	67.2	72.8	78.4	84	89.6	95.2	100.8	106.4	112	117.6	123.2	128.8	134.4	140	145.6	151.2	156.8	162.4	168	
LG																												
	1 Unit							2 Units							3 Units													

Longest Piping Length

Sufficient pipes length limitation in design and Installation for various buildings

Provide flexible installation up to 300 m (500 m) of total piping length. As water pipes are not connected to indoor units, users are free from water leakage problems.



Total Piping Length	300 m (500 m)
Actual Longest Piping Length (Equivalent)	175 m (225 m)
Longest Piping Length after 1st Branch (Conditional Application)	40 m (90 m)
Height Difference between ODU - IDU	50 m
Height Difference between IDU - IDU	40 m

Compact Size

Thanks to compact size of product, it provides more space for commercial or public use as much as possible.

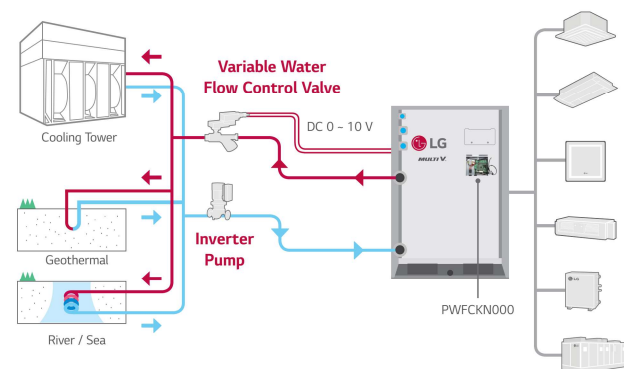
The optimal design of the compact, lightweight outdoor unit enables double stacking, which results in 50% savings in installation space.



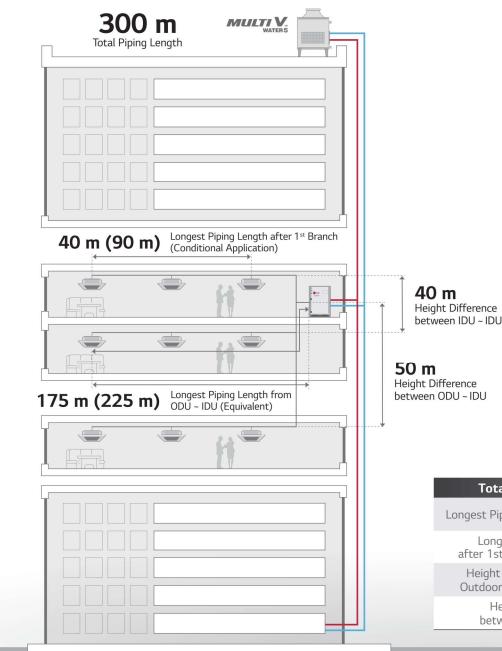
Variable Water Flow Control (OPTION)

In support of green building initiatives

The world's first variable water flow control system for water cooled VRF system. LG applied Variable Water Flow Control to optimize water flow control regarding partial cooling or heating load conditions. Because of this it's also possible to reduce circulation pump energy consumption.

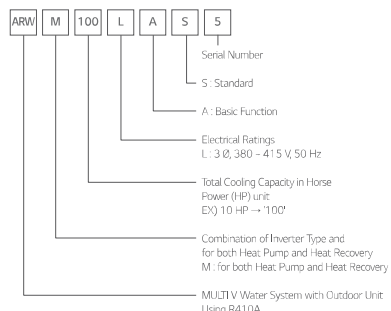


Total Piping Length



Total Piping Length	300 m (500 m)
Longest Piping Length (Equivalent)	175 m (155 m)
Longest Piping Length after 1st Branch (Conditional)	40 m (90 m)
Height Difference between Outdoor Unit and Indoor Unit	50 m
Height Difference between Indoor Units	40 m

Nomenclature

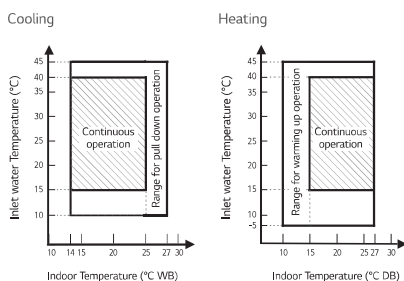


Outdoor Units Function

Category	Functions	MULTI V Water 5
Key Refrigerant Components	HiPOR™ (High Pressure Oil Return)	○
	Oil Sensor	○
	High Pressure Switch	○
Reliability	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
Central Controller	AC Ez	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACSA000
	AC Smart 5	PACSSA000
	ACP IV	PACPAB000
	ACP 5	PACPSA000
	AC Manager IV	PACMA000
Gateway	AC Manager 5	PACMSA000
	ACP BACnet	PQNF817C0
	ACPS (w U60FT)	○
	Cloud Gateway	PWFMD200
	Modbus RTU	PMBUS00A
Intergration Device	IO Module	PVDSMN000
	Variable Water Flow Control Kit	PWFCKN000
	Cool / Heat Selector	PRDSMB
	AHU comm. Kit	PAHCMR000
	AHU Controller Module	PAHCMC000
	AHU Control Kit	PAHCM000
	EEV Kit	PRLK048A0
		PRLK096A0
		PRLK396A0
		PRLK594A0
ETC	Water comm. Module	-
	PDI Standard	PPWR0B000
	PDI Premium	PQNUD1540
ETC	DS (Data Saving) Module	PVADTN000

※ ○ : Applied, - : Not Applied

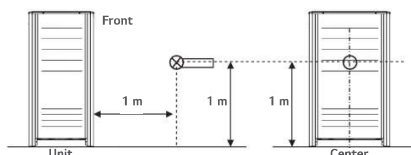
Operation Limits



Note

- These figures assume the following operating conditions:
- Equivalent piping length is standard condition, and level difference is 0 m.
- Range of pull down operation
- If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
- Warming up operation means that the outdoor (outside) unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

Position of Sound Pressure Level Measuring



※ External appearance of unit could be different by each model.

Note

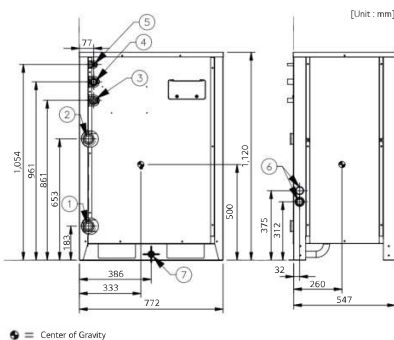
- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic pressure 0 dB = 20 μPa.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Refer to the model specifications for nominal conditions. (Power source and Ambient temperature, etc.)
- Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, room target temperature setting, etc and these functions are different in accordance with each model.)
- 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.

Optional Accessories

No.	Name	Model
1	Y branch pipe	ARBLB01621
		for Heat Recovery
		ARBLB03321
		ARBLB07121
		ARBLB14521
2	Header	ARBLN01621
		for Heat Pump
		ARBLN03321
		ARBLN07121
		ARBLN14521
3	Connection pipe of outdoor units	4 branch ARBL054
		7 branch ARBL057
		4 branch ARBL104
		7 branch ARBL107
		10 branch ARBL1010
3	Connection pipe of outdoor units	10 branch ARBL2010
		ARCNN21
3	Connection pipe of outdoor units	ARCNN31

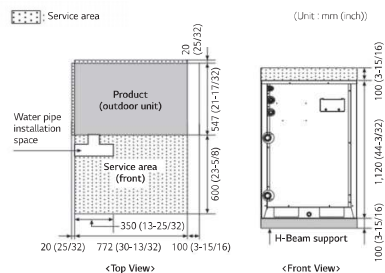
Dimensions

ARWM080LASS / ARWM100LASS / ARWM120LASS /
ARWM140LASS / ARWM160LASS / ARWM180LASS /
ARWM200LASS

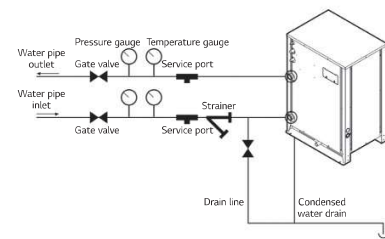


No.	Part Name	Description
1	Water inlet connection	PT 40 Female
2	Water outlet connection	PT 40 Female
3	High pressure pipe connection	-
4	Low pressure pipe connection	-
5	Liquid pipe connection	-
6	Power and comm. cable hole	-
7	Condensate drain pipe connection	PT 20 Male

Individual Installation



Water Piping Installation



Precaution of Installation

- Do not install the unit at the outdoors.
- Otherwise it may cause fire, electric shock and trouble.
- Keep the water temperature between **10 ~ 45°C** Other it may cause the breakdown.
- Standard water supply temperature is **30°C** for Cooling and **20°C** for heating.
- Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.
- Be careful of the **Water Purity Control**. Otherwise it may cause the breakdown due to water pipe corrosion. (Refer to 'Standard Table for Water Purity Control' in Installation manual.)
- The water pressure resistance of the water pipe system of this product is **1.98 MPa**.
- Always install a **trap** so that the drained water does not back flush.
- Install a **pressure gauge and temperature gauge** at the inlet and outlet of the water pipe.
- Flexible joints** must be installed not to cause any leakage from the vibration of pipes.
- Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.
- You must install the **flow switch** to the water collection pipe system connecting to the outdoor unit.
(**Flow switch** acts as the 1st protection device when the heat water is not supplied. If a certain level of water does not flow after installing the **flow switch**, an error sign of CH 189 error will be displayed on the product and the product will stop operating.)
- When setting the flow switch, it is recommended to use the product with default set value to satisfy the minimum flow rate of this product. (The minimum flow rate range of this product is 50%. Reference flow rate : 10 HP - 96 LPM, 20 HP - 192 LPM)
- To protect the water cooling type product, you must install a **strainer with 50 mesh** or more on the heat water supply pipe. (It is recommended to install both a magnetic filter and a strainer). If not installed, it can result in damage of heat exchanger by the following situation.
 - Heat water supply within the plate type heat exchanger is composed of multiple small paths.
 - If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
 - When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of coolant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
 - And as the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
 - As a result of the damage of the heat exchanger from the freezing, the coolant side and the heat water source side will be mixed to make the product unusable.

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-conscious 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.

ARWM080LAS5 / ARWM100LAS5 ARWM120LAS5



	HP	8	10	12
Model Name	Combination Unit	-	ARWM080LAS5	ARWM100LAS5
	Independent Unit (1)	-	ARWM080LAS5	ARWM100LAS5
	Independent Unit (2)	-	-	-
	Independent Unit (3)	-	-	-
Capacity	Independent Unit (4)	-	-	-
	Cooling (Rated)	kW	22.4	28.0
	Heating (Rated)	kW	25.2	31.5
	Cooling (Rated)	kW	3.25	4.19
Input	Heating (Rated)	kW	3.50	4.57
	EER (Rated)	W/W	6.90	6.68
Efficiency	COP (Rated)	W/W	7.20	6.90
	COP (Rated)	W/W	7.20	6.90
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure	kgf/cm ²	45	45
	Resistance	kPa	10.6	15.9
	Head Loss	LPM	77	96
Compressor	Rated Water Flow	LPM	77	96
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	-	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1
Refrigerant	Oil Type	-	FVC68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
	Precharged Amount in Factory	kg	3.5	3.5
	t-CO ₂ eq	-	7.306	7.306
Connecting Pipes	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 22.22 (7/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 19.05 (3/4)	Ø 22.22 (7/8)
Water Connecting Pipes	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 15.88 (5/8)	Ø 19.05 (3/4)
	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D)	Net	mm	772 x 1,120 x 547	772 x 1,120 x 547
	Shipping	mm	820 x 1,245 x 645	820 x 1,245 x 645
Weight	Net	kg	149 x 1	149 x 1
	Shipping	kg	157 x 1	157 x 1
Sound Pressure Level	Cooling / Heating	dB (A)	45.0 / 48.0	48.0 / 48.0
Sound Power Level	Cooling / Heating	dB (A)	57.0 / 60.0	60.0 / 60.0
Communication Cable	Net	mm ² x No. (VCTF-SB)	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
	Shipping	V / Ø / Hz	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
Power Supply	Limit Range of Voltage (±1%) V	-	342 - 456	342 - 456
	±2	V / Ø / Hz	380, 3, 60	380, 3, 60
	Limit Range of Voltage (±2%) V	-	342 - 418	342 - 418
	Number of Maximum Connectable Indoor Units	EA	13 (20)	16 (25)

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating: Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
- Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
- Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWM140LAS5 / ARWM160LAS5
ARWM180LAS5

HP		14	16	18
Model Name	Combination Unit	-	ARWM140LAS5	ARWM160LAS5
	Independent Unit (1)	-	ARWM140LAS5	ARWM160LAS5
	Independent Unit (2)	-	-	-
	Independent Unit (3)	-	-	-
	Independent Unit (4)	-	-	-
Capacity	Cooling (Rated)	kW	39.2	44.8
	Heating (Rated)	kW	44.1	50.4
Input	Cooling (Rated)	kW	6.22	7.32
	Heating (Rated)	kW	6.78	8.06
Efficiency	EER (Rated)	W/W	6.30	6.12
	COP (Rated)	W/W	6.50	6.25
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure	kgf/cm ²	45	45
	Head Loss	kPa	29.6	37.7
	Rated Water Flow	LPM	135	154
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	-	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1
	Oil Type	-	FW68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	3.5	4.5
	t-CO ₂ eq	-	7.306	9.394
	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 22.22 (7/8)	Ø 22.22 (7/8)
	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D)	Net	mm	772 x 1,120 x 547	772 x 1,120 x 547
	Shipping	mm	820 x 1,245 x 645	820 x 1,245 x 645
Weight	Net	kg	149 x 1	158 x 1
	Shipping	kg	157 x 1	166 x 1
Sound Pressure Level	Cooling / Heating	dB (A)	52.0 / 53.0	54.0 / 57.0
Sound Power Level	Cooling / Heating	dB (A)	64.0 / 65.0	66.0 / 69.0
Communication Cable	mm ² x No. (VCTF-SB)	-	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
	V / Ø / Hz	-	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
Power Supply	Limit Range of Voltage (±1%) V	-	342 - 456	342 - 456
	±2 V / Ø / Hz	-	380, 3, 60	380, 3, 60
	Limit Range of Voltage (±2%) V	-	342 - 418	342 - 418
	Number of Maximum Connectable Indoor Units	EA	23 (35)	26 (40)

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) ~ 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section)

ARWM200LAS5 ARWM220LAS5
ARWM240LAS5

HP		20	22	24
Model Name	Combination Unit	-	ARWM200LAS5	ARWM220LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM220LAS5
	Independent Unit (2)	-	-	-
	Independent Unit (3)	-	-	-
	Independent Unit (4)	-	-	-
Capacity	Cooling (Rated)	kW	56.0	61.6
	Heating (Rated)	kW	63.0	69.3
Input	Cooling (Rated)	kW	10.69	9.33
	Heating (Rated)	kW	11.05	10.13
Efficiency	EER (Rated)	W/W	5.24	6.60
	COP (Rated)	W/W	5.70	6.84
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure	kgf/cm ²	45	45
	Head Loss	kPa	29.9	22.1 + 15.9
	Rated Water Flow	LPM	192	115 + 96
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	-	(Inverter) x 1	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 2
	Oil Type	-	FW68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	4.5	3.5 + 3.5
	t-CO ₂ eq	-	9.394	14.613
	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 22.22 (7/8)	Ø 28.58 (1-1/8)
	Inlet	mm	PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D)	Net	mm	772 x 1,120 x 547	(772 x 1,120 x 547) x 2
	Shipping	mm	820 x 1,245 x 645	(820 x 1,245 x 645) x 2
Weight	Net	kg	158 x 1	149 x 2
	Shipping	kg	166 x 1	157 x 2
Sound Pressure Level	Cooling / Heating	dB (A)	55.0 / 56.0	51.0 / 54.0
Sound Power Level	Cooling / Heating	dB (A)	67.0 / 68.0	64.0 / 67.0
Communication Cable	mm ² x No. (VCTF-SB)	-	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
	V / Ø / Hz	-	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
Power Supply	Limit Range of Voltage (±1%) V	-	342 - 456	342 - 456
	±2 V / Ø / Hz	-	380, 3, 60	380, 3, 60
	Limit Range of Voltage (±2%) V	-	342 - 418	342 - 418
	Number of Maximum Connectable Indoor Units	EA	32 (50)	35 (44)

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) ~ 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section)

ARWM260LAS5 / ARWM280LAS5
ARWM300LAS5

HP		26	28	30
Model Name	Combination Unit	-	ARWM260LAS5	ARWM280LAS5
	Independent Unit (1)	-	ARWM140LAS5	ARWM160LAS5
	Independent Unit (2)	-	ARWM120LAS5	ARWM120LAS5
	Independent Unit (3)	-	-	-
	Independent Unit (4)	-	-	-
Capacity	Cooling (Rated)	kW	72.8	84.0
	Heating (Rated)	kW	81.9	94.5
Input	Cooling (Rated)	kW	11.36	13.54
	Heating (Rated)	kW	12.34	14.28
Efficiency	EER (Rated)	W/W	6.41	6.29
	COP (Rated)	W/W	6.64	6.48
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45
	Head Loss	kPa	29.6 + 22.1	37.7 + 22.1
	Rated Water Flow	LPM	135 + 115	154 + 115
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	-	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5.300 x 2	5.300 x 2
	Oil Type	-	FW68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	3.5 + 3.5	4.5 + 3.5
	t-CO ₂ eq	-	14.613	16.700
	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)
	Water Connecting Pipes	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
Dimensions (W x H x D)	Net	mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2
	Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2
Weight	Net	kg	149 x 2	(158 x 1) + (149 x 1)
	Shipping	kg	157 x 2	(166 x 1) + (157 x 1)
Sound Pressure Level	Cooling / Heating	dB (A)	53.0 / 55.0	55.0 / 58.0
Sound Power Level	Cooling / Heating	dB (A)	66.0 / 68.0	68.0 / 71.0
Communication Cable	mm ² x No. (VCTF-SB)	-	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
	V / Ø / Hz	-	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
Power Supply	Limit Range of Voltage (±1) V	-	342 - 456	342 - 456
	±2 V / Ø / Hz	-	380, 3, 60	380, 3, 60
	Limit Range of Voltage (±2) V	-	342 - 418	342 - 418
	Number of Maximum Connectable Indoor Units	EA	42 (52)	45 (60)

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) ~ 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWM320LAS5 / ARWM340LAS5
ARWM360LAS5

HP		32	34	36
Model Name	Combination Unit	-	ARWM320LAS5	ARWM340LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM120LAS5	ARWM140LAS5
	Independent Unit (3)	-	-	-
	Independent Unit (4)	-	-	-
Capacity	Cooling (Rated)	kW	89.6	95.2
	Heating (Rated)	kW	100.8	107.1
Input	Cooling (Rated)	kW	15.83	16.91
	Heating (Rated)	kW	16.61	17.83
Efficiency	EER (Rated)	W/W	5.66	5.63
	COP (Rated)	W/W	6.07	6.01
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45
	Head Loss	kPa	29.9 + 22.1	29.9 + 29.6
	Rated Water Flow	LPM	192 + 115	192 + 135
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	-	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5.300 x 2	5.300 x 2
	Oil Type	-	FW68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	4.5 + 3.5	4.5 + 3.5
	t-CO ₂ eq	-	16.700	16.700
	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)
	Water Connecting Pipes	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
Dimensions (W x H x D)	Net	mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2
	Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2
Weight	Net	kg	(158 x 1) + (149 x 1)	(158 x 1) + (149 x 1)
	Shipping	kg	(166 x 1) + (157 x 1)	(166 x 1) + (157 x 1)
Sound Pressure Level	Cooling / Heating	dB (A)	56.0 / 57.0	57.0 / 59.0
Sound Power Level	Cooling / Heating	dB (A)	69.0 / 70.0	70.0 / 72.0
Communication Cable	mm ² x No. (VCTF-SB)	-	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
	V / Ø / Hz	-	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
Power Supply	Limit Range of Voltage (±1) V	-	342 - 456	342 - 456
	±2 V / Ø / Hz	-	380, 3, 60	380, 3, 60
	Limit Range of Voltage (±2) V	-	342 - 418	342 - 418
	Number of Maximum Connectable Indoor Units	EA	52 (64)	55 (64)

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) ~ 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWM380LAS5
ARWM400LAS5

ARWM420LAS5



HP		38	40	42
Model Name	Combination Unit	-	ARWM380LAS5	ARWM400LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM180LAS5	ARWM140LAS5
	Independent Unit (3)	-	-	ARWM080LAS5
	Independent Unit (4)	-	-	-
Capacity	Cooling (Rated)	kW	106.4	112.0
	Heating (Rated)	kW	119.7	126.0
Input	Cooling (Rated)	kW	19.09	21.38
	Heating (Rated)	kW	19.77	22.10
Efficiency	EER (Rated)	W/W	5.57	5.24
	COP (Rated)	W/W	6.05	5.70
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45
	Head Loss	kPa	29.9 + 24.6	29.9 + 29.9
	Rated Water Flow	LPM	192 + 173	192 + 192
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	-	(Inverter) x 2	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 3
	Oil Type	-	FW68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	4.5 + 4.5	4.5 + 3.5 + 3.5
	t-CO ₂ eq	-	18,788	24,006
	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
Dimensions (W x H x D)	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)
	Net	mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 3
Weight	Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 3
	Net	kg	158 x 2	(158 x 1) + (149 x 2)
Sound Pressure Level	Cooling / Heating	dB (A)	58.0 / 60.0	57.0 / 58.0
	Sound Power Level	dB (A)	71.0 / 73.0	71.0 / 72.0
Communication Cable	mm ² x No. (VCTF-SB)	-	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
	#1	V / Ø / Hz	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
Power Supply	Limit Range of Voltage (+1) V	-	342 - 456	342 - 456
	#2	V / Ø / Hz	380, 3, 60	380, 3, 60
Number of Maximum Connectable Indoor Units	Limit Range of Voltage (+2) V	-	342 - 418	342 - 418
	EA	-	61 (64)	64

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) ~ 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section)

ARWM440LAS5 / ARWM460LAS5
ARWM480LAS5

HP		44	46	48
Model Name	Combination Unit	-	ARWM440LAS5	ARWM460LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM140LAS5	ARWM140LAS5
	Independent Unit (3)	-	ARWM120LAS5	ARWM140LAS5
	Independent Unit (4)	-	-	-
Capacity	Cooling (Rated)	kW	123.2	128.8
	Heating (Rated)	kW	138.6	144.9
Input	Cooling (Rated)	kW	21.10	22.05
	Heating (Rated)	kW	22.40	23.39
Efficiency	EER (Rated)	W/W	5.84	5.84
	COP (Rated)	W/W	6.19	6.19
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45
	Head Loss	kPa	29.9 + 29.6 + 15.9	29.9 + 29.6 + 22.1
	Rated Water Flow	LPM	192 + 135 + 96	192 + 135 + 115
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	-	(Inverter) x 3	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3
	Oil Type	-	FW68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	4.5 + 3.5 + 3.5	4.5 + 3.5 + 3.5
	t-CO ₂ eq	-	24,006	24,006
	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
Dimensions (W x H x D)	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)
	Net	mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3
Weight	Shipping	mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
	Net	kg	(158 x 1) + (149 x 2)	(158 x 1) + (149 x 2)
Sound Pressure Level	Cooling / Heating	dB (A)	57.0 / 58.0	57.0 / 59.0
	Sound Power Level	dB (A)	71.0 / 72.0	71.0 / 73.0
Communication Cable	mm ² x No. (VCTF-SB)	-	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
	#1	V / Ø / Hz	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
Power Supply	Limit Range of Voltage (+1) V	-	342 - 456	342 - 456
	#2	V / Ø / Hz	380, 3, 60	380, 3, 60
Number of Maximum Connectable Indoor Units	Limit Range of Voltage (+2) V	-	342 - 418	342 - 418
	EA	-	64	64

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) ~ 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section)

ARWM500LAS5 / ARWM520LAS5
ARWM540LAS5

HP		50	52	54
Model Name	Combination Unit	-	ARWM500LAS5	ARWM520LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM200LAS5	ARWM200LAS5
	Independent Unit (3)	-	ARWM100LAS5	ARWM140LAS5
	Independent Unit (4)	-	-	-
Capacity	Cooling (Rated)	kW	140.0	151.2
	Heating (Rated)	kW	157.5	170.1
Input	Cooling (Rated)	kW	25.57	27.60
	Heating (Rated)	kW	26.67	28.88
Efficiency	EER (Rated)	W/W	5.48	5.48
	COP (Rated)	W/W	5.91	5.92
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45
	Head Loss	kPa	29.9 + 29.9 + 15.9	29.9 + 29.9 + 22.1
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 115
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	-	(Inverter) x 3	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3
	Oil Type	-	FW68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 3.5
	t-CO ₂ eq	-	26.094	26.094
	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
Dimensions (W x H x D)	Net	mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3
	Shipping	mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
Weight	Net	kg	(158 x 2) + (149 x 1)	(158 x 2) + (149 x 1)
	Shipping	kg	(166 x 2) + (157 x 1)	(166 x 2) + (157 x 1)
Sound Pressure Level	Cooling / Heating	dB (A)	59.0 / 59.0	59.0 / 60.0
Sound Power Level	Cooling / Heating	dB (A)	73.0 / 73.0	73.0 / 74.0
Communication Cable	mm ² x No. (VCTF-SB)	-	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
Power Supply	#1	V / Ø / Hz	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
	Limit Range of Voltage (#1)	V	342 - 456	342 - 456
	#2	V / Ø / Hz	380, 3, 60	380, 3, 60
	Limit Range of Voltage (#2)	V	342 - 418	342 - 418
Number of Maximum Connectable Indoor Units		EA	64	64

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) ~ 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section)

ARWM560LAS5 / ARWM580LAS5
ARWM600LAS5

HP		56	58	60
Model Name	Combination Unit	-	ARWM560LAS5	ARWM580LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM200LAS5	ARWM200LAS5
	Independent Unit (3)	-	ARWM160LAS5	ARWM180LAS5
	Independent Unit (4)	-	-	-
Capacity	Cooling (Rated)	kW	156.8	162.4
	Heating (Rated)	kW	176.4	182.7
Input	Cooling (Rated)	kW	28.70	29.78
	Heating (Rated)	kW	30.16	30.82
Efficiency	EER (Rated)	W/W	5.46	5.45
	COP (Rated)	W/W	5.85	5.93
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45
	Head Loss	kPa	29.9 + 29.9 + 37.7	29.9 + 29.9 + 24.6
	Rated Water Flow	LPM	192 + 192 + 154	192 + 192 + 173
	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	-	(Inverter) x 3	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3
	Oil Type	-	FW68D (PVE)	FW68D (PVE)
	Refrigerant Name	-	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 4.5
	t-CO ₂ eq	-	26.094	28.181
	Control Type	-	Electronic Expansion Valve	Electronic Expansion Valve
	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
Dimensions (W x H x D)	Net	mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3
	Shipping	mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
Weight	Net	kg	(158 x 2) + (149 x 1)	158 x 3
	Shipping	kg	(166 x 2) + (157 x 1)	166 x 3
Sound Pressure Level	Cooling / Heating	dB (A)	59.0 / 61.0	60.0 / 61.0
Sound Power Level	Cooling / Heating	dB (A)	73.0 / 75.0	74.0 / 75.0
Communication Cable	mm ² x No. (VCTF-SB)	-	1.0 - 1.5 x 2 C	1.0 - 1.5 x 2 C
Power Supply	#1	V / Ø / Hz	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
	Limit Range of Voltage (#1)	V	342 - 456	342 - 456
	#2	V / Ø / Hz	380, 3, 60	380, 3, 60
	Limit Range of Voltage (#2)	V	342 - 418	342 - 418
Number of Maximum Connectable Indoor Units		EA	64	64

Note

- Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances 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)
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor - Indoor Unit) is 0 m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) ~ 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section)