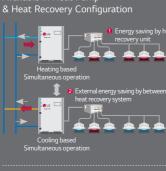




Highlight



How does it work?



Operation independent of weather conditions

Combination of Cooling, Heating and Hot Water Solution



MMM





OUTDOOR UNITS

MULTI V WATER ([]

High Efficiency System Regardless of **External Conditions**

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

Outdoor Temp

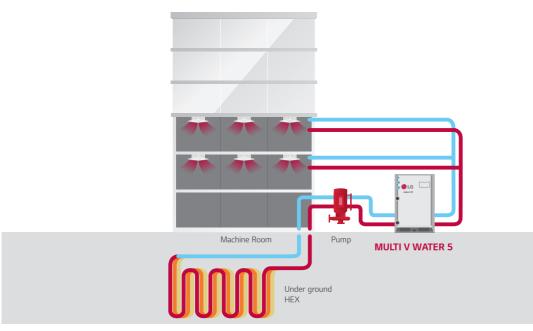
Wind

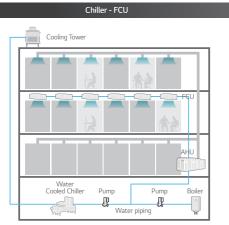
MULTI V WATER 5 System for Geothermal Applications

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.

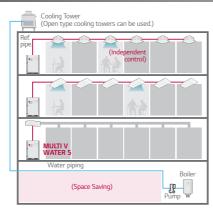
- The Circulating water temperature range is between -5°C ~ 45°C

- Antifreeze should be applied depending on the application





Central control



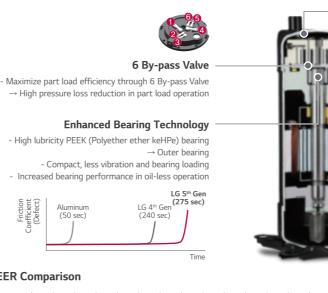
Independent control

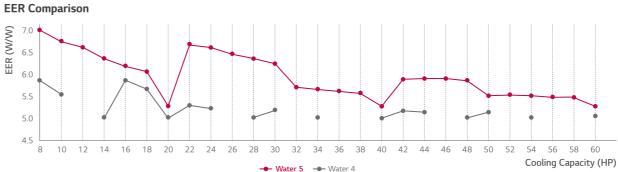
Economical, Highly Efficient System

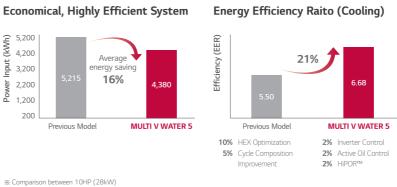
LG's key technologies are integrated to inverter compressor

Aluminum (50 sec)

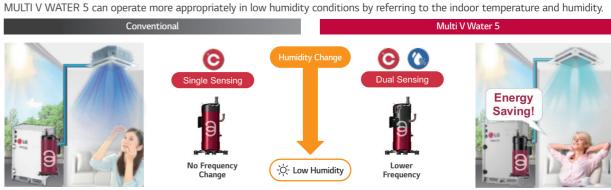
With 5th generation inverter compressor, the Multi V Water 5 boasts top-class energy efficiency.







Dual Sensing Control



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





Extended Compressor Speed 20Hz ~ 150Hz

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

HiPOR[™] (High Pressure Oil Return)

- Eliminating loss in suction gas by returning oil directly to compressor
- Resolve compressor efficiency loss caused by oil return

Active Oil Control (Oil Level Sensor)

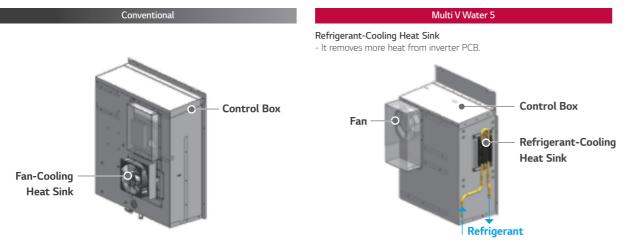
- Oil recovery operation occurs only when required
- Enhanced compressor reliability & continuous heating
- Oil distribution between compressors

Coefficient of Perfomance (Heating)



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

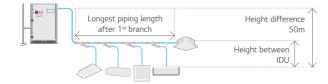
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 60HP (168kW) by combination.

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								20	nits									3 U	nits				

Longest Piping Length

Sufficient pipes length limitation in design and Installation for various buildings

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



Total Piping Length	300m (500m)
Actual longest piping length (Equivalent)	175m (225m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height difference between ODU ~ IDU	50m
Height difference between IDU ~ IDU	40m

Compact Size

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

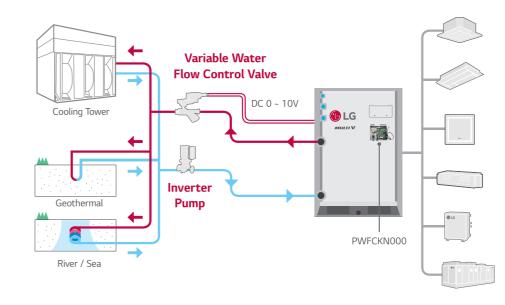
The optimal design of the compact, lightweight outdoor unit enables double stacking, which results in 50% savings in installation space.

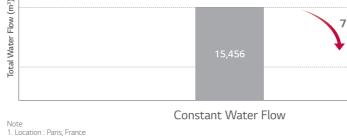


Variable Water Flow Control (OPTION)

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.



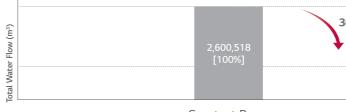


2. Office, 68,000m² 3. Operation time : 1,344 hours (Cooling period)

Project Example : 63F (Pump : 20,064 LPM, 42.4mAq x 4ea)

1) Inverter pump with MULTI V Water and variable water flow control kit 2) Constant pump (Step control) with Water cooled VRF

10 years energy cost (\$)





11-5	5 ye	ears	ر 10	rears
Unit	Energy Use (kWh)	Pump Running Cost (\$)	Energy Use (kWh)	Pump Running Cost (\$)
Constant pump	7,952,040	1,142,441	15,904,080	2,600,518
Inverter pump	5,054,940	726,225	10,109,880	1,653,093

• Power consumption rate : 0.13\$/kWh

 \bullet Annual power consumption rate expected to increase by 5%

71%

4,439	

Variable Water Flow

36%

1,653,093

Inverter Pump

-Π Ω HNIC AL DATA

Nomenclature ARW M 100 L A S 5

Outdoor Units Function

HiPOR™

Oil Sensor

Category

Key Refrigerant Components

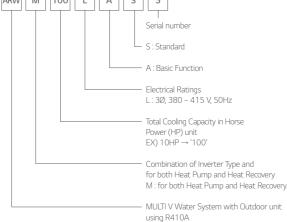
Reliability

Central Controller

Gateway

Intergration Device

ETC



Functions

(High Pressure Oil Return)

Restart Delay (3-minutes)

High Pressure Switch

Phase Protection

Self Diagnosis

Soft Start

AC Ez Touch

AC Smart IV

AC Smart 5

AC Manager IV

AC Manager 5

ACP BACnet

ACP5 (w U60FT)

Cloud Gateway

Modbus RTU

Cool / Heat Selector

AHU Controller Module

AHU comm. Kit

AHU Control Kit

Water comm. Module

DS (Data Saving) Module

PDI Standard

PDI Premium

EEV Kit

Variable Water Flow Control Kit

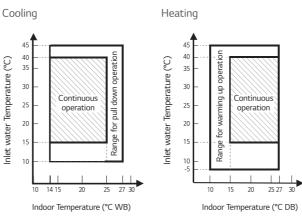
IO Module

ACP IV

ACP 5

AC Ez

Operation Limits



Multi V Water 5

0

 \bigcirc

0

0

0

0

0

PQCSZ250S0

PACEZA000

PACS4B000

PACS5A000

PACP4B000

PACP5A000

PACM4B000

PACM5A000

PQNFB17C0

0

PWFMDB200

PMBUSB00A

PVDSMN000

PWFCKN000

PRDSMB

PAHCMR000

PAHCMS000

PAHCMC000

PAHCMM000

PAHCNM000

PRLK048A0

PRLK096A0

PRLK396A0

PRLK594A0

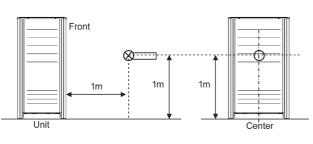
PPWRDB000

PQNUD1S40

PVADTN000

- 1. These figures assume the following operating conditions : Equivalent piping length is standard condition, and level difference is Om.
- 2. Range of pull down operation
- If the relative humidity is too high, cooling capacity can be decreased by the sensible heat
- 8. 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 protein

Position of Sound Pressure Level Measuring



* External Appearance of unit could be different by each model.

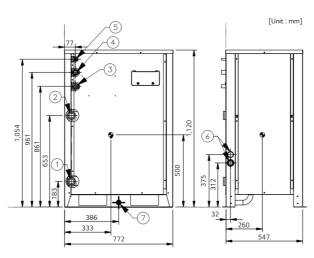
- . Data is valid at diffuse field condition
- 2. Data is valid at nominal operating condition. 3. Reference accoustic pressure 0 dB = 20μ Pa.
- I. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Refer to the model specifications for nominal conditions. (Power source and Ambien emperature, 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 in installed.

Optional Accessories

No.	Na	me	Model
			ARBLB01621
		for	ARBLB03321
		Heat Recovery	ARBLB07121
1	V hannah nina	-	ARBLB14521
'	Y branch pipe		ARBLN01621
		for	ARBLN03321
		Heat Pump	ARBLN07121
		-	ARBLN14521
		4 branch	ARBL054
		7 branch	ARBL057
2	Usedan	4 branch	ARBL104
2	Header	7 branch	ARBL107
		10 branch	ARBL1010
		10 branch	ARBL2010
3	Connection pine	of Outdoor Unite	ARCNN21
3	Connection pipe	ARCNN31	

Dimensions

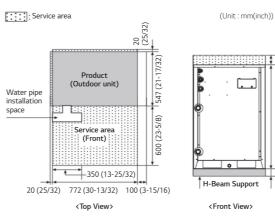
ARWM080LAS5 / ARWM100LAS5 / ARWM120LAS5 / ARWM140LAS5 / ARWM160LAS5 / ARWM180LAS5 / ARWM200LAS5



Center of Gravity

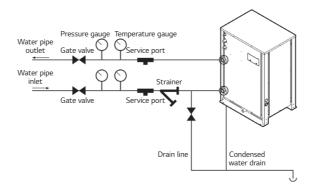
No.	Part Name	Description
1	Water inlet connection	PT 40 Female
2	Water outlet connection	PT 40 Female
3	High pressure pipe connection	-
4	Low pressure pipe connection	-
5	Liquid pipe connection	-
6	Power and comm. cable hole	-
7	Condensate drain pipe connection	PT 20 Male

Individual Installation





Water Piping Installation



※ ○ : Applied, - : Not Applied

flush

Precaution of Installation

- 1. Do not install the unit at the outdoors. - Otherwise it may cause fire, electric shock and trouble.
- 2. 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.
- 3. Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.
- 4. 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.)
- 5. The water pressure resistance of the water pipe system of this product is **1.98MPa**.
- 6. Always install **a trap** so that the drained water does not back
- 7. Install **a pressure gauge and temperature gauge** at the inlet and outlet of the water pipe.
- 8. Flexible joints must be installed not to cause any leakage from the vibration of pipes.
- 9. Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.
- 10. 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.)
- 11. 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)
- 12. 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.
- 1) Heat water supply within the plate type heat exchanger is composed of multiple small paths.
- 2) If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
- 3) 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.
- 4) And as the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
- 5) 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.

REF ERENCE 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-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
	Combination Unit		ARWM080LAS5	ARWM100LAS5	ARWM120LAS5
	Independent Unit (1)		ARWM080LAS5	ARWM100LAS5	ARWM120LAS5
Model Name	Independent Unit (2)		-	-	-
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
Canadity	Cooling (Rated)	kW	22.4	28.0	33.6
Capacity	Heating (Rated)	kW	25.2	31.5	37.8
Input	Cooling (Rated)	kW	3.25	4.19	5.14
Input	Heating (Rated)	kW	3.50	4.57	5.56
EER	Rated		6.90	6.68	6.54
COP	Rated		7.20	6.90	6.80
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
LAterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	10.6	15.9	22.1
	Rated Water Flow	LPM	77	96	115
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type		FVC68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	CC	3,400	3,400	3,400
Refrigerant	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Connecting Pipes	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.22 (7/8)	Ø28.58 (1-1/8)
	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	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	772 x 1,120 x 547
Dimensions (W x H x D)) - Shipping	mm	820 x 1,245 x 645	820 x 1,245 x 645	820 x 1,245 x 645
Net Weight		kg	149 x 1	149 x 1	149 x 1
Shipping Weight		kg	157 x 1	157 x 1	157 x 1
Sound Pressure Level	Cooling / Heating	dB(A)	45.0 / 48.0	48.0 / 48.0	48.0 / 51.0
Sound Power Level	Cooling / Heating	dB(A)	57.0 / 60.0	60.0 / 60.0	60.0 / 63.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
	Refrigerant Name	-	R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	3.5	3.5	3.5
	t-CO₂ eq	-	7.306	7.306	7.306
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum C	Connectable Indoor Units		13 (20)	16 (25)	20 (30)

 Note

 1. Maximum numbers are prepared based on assumption that all 2.2kW 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%.

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

 3. Performances are based on the following conditions:

 - Cooling : Indoor temp 27°C (60.5°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

 - Heating : Indoor temp 27°C (68.5°F) DB / 19°C (66.2°F)

 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

 4. 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 conditons during operation.

 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)

 6. 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





62

	НР		14	16	18
	Combination Unit		ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
	Independent Unit (1)		ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
Model Name	Independent Unit (2)		-	-	-
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	39.2	44.8	50.4
Capacity	Heating (Rated)	kW	44.1	50.4	56.7
Input	Cooling (Rated)	kW	6.22	7.32	8.40
Input	Heating (Rated)	kW	6.78	8.06	8.72
EER	Rated		6.30	6.12	6.00
СОР	Rated		6.50	6.25	6.50
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Exterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
·····	Head Loss	kPa	29.6	37.7	24.6
	Rated Water Flow	LPM	135	154	173
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	3,400	3,400	3,400
Refrigerant	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	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	772 x 1,120 x 547
Dimensions (W x H x D) - Shipping	mm	820 x 1,245 x 645	820 x 1,245 x 645	820 x 1,245 x 645
Net Weight		kg	149 x 1	149 x 1	158 x 1
Shipping Weight		kg	157 x 1	157 x 1	166 x 1
Sound Pressure Level	Cooling / Heating	dB(A)	52.0 / 53.0	52.0 / 56.0	54.0 / 57.0
Sound Power Level	Cooling / Heating	dB(A)	64.0 / 65.0	64.0 / 68.0	66.0 / 69.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
	Refrigerant Name	-	R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	3.5	3.5	4.5
2	t-CO₂ eq	-	7.306	7.306	9.394
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum C	onnectable Indoor Units		23 (35)	26 (40)	29 (45)

 Note

 1. Maximum numbers are prepared based on assumption that all 2.2kW 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%.

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

 3. Performances are based on the following conditions

 - Cooling : Indoor temp 27°C (60.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

 - Heating : Indoor temp 27°C (68.9°F) DB, Water inlet temp 20°C (68°F)

 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 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 conditors during operation.

 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)

 6. 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
	Combination Unit		ARWM200LAS5	ARWM220LAS5	ARWM240LAS5
	Independent Unit (1)		ARWM200LAS5	ARWM120LAS5	ARWM120LAS5
Model Name	Independent Unit (2)		-	ARWM100LAS5	ARWM120LAS5
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
. .	Cooling (Rated)	kW	56.0	61.6	67.2
Capacity	Heating (Rated)	kW	63.0	69.3	75.6
	Cooling (Rated)	kW	10.69	9.33	10.28
Input	Heating (Rated)	kW	11.05	10.13	11.12
EER	Rated		5.24	6.60	6.54
СОР	Rated		5.70	6.84	6.80
	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gra
Exterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	29.9	22.1 + 15.9	22.1 + 22.1
	Rated Water Flow	LPM	192	115 + 96	115 + 115
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scro
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5,300 x 1	5,300 x 2	5,300 × 2
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	3,400	6,800	6,800
Refrigerant	Liquid Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
	Inlet	mm	PT 40 (Internal Thread)	PT 40 + 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)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread
Dimensions (W x H x I	D) - Net	mm	772 x 1,120 x 547	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x
Dimensions (W x H x I	D) - Shipping	mm	820 x 1,245 x 645	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x
Net Weight		kg	158 x 1	149 x 2	149 x 2
Shipping Weight		kg	166 x 1	157 x 2	157 x 2
Sound Pressure Level	Cooling / Heating	dB(A)	55.0 / 56.0	51.0 / 53.0	51.0 / 54.0
Sound Power Level	Cooling / Heating	dB(A)	67.0 / 68.0	64.0 / 66.0	64.0 / 67.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5	3.5 + 3.5	3.5 + 3.5
	t-CO₂ eq	-	9.394	14.613	14.613
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion val
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50

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ARWM260LAS5 / ARWM280LAS5 ARWM300LAS5



	HP		26	28	30
	Combination Unit		ARWM260LAS5	ARWM280LAS5	ARWM300LAS5
	Independent Unit (1)		ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
Model Name	Independent Unit (2)		ARWM120LAS5	ARWM120LAS5	ARWM120LAS5
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
Canadity	Cooling (Rated)	kW	72.8	78.4	84.0
Capacity	Heating (Rated)	kW	81.9	88.2	94.5
Input	Cooling (Rated)	kW	11.36	12.46	13.54
Input	Heating (Rated)	kW	12.34	13.62	14.28
EER	Rated		6.41	6.29	6.20
СОР	Rated		6.64	6.48	6.62
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Exterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
·····j-·	Head Loss	kPa	29.6 + 22.1	37.7 + 22.1	24.6 + 22.1
	Rated Water Flow	LPM	135 + 115	154 + 115	173 + 115
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5.300 x 2	5.300 x 2	5.300 x 2
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	CC	6,800	6,800	6,800
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D	0) - Net	mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2
Dimensions (W x H x D)) - Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2
Net Weight		kg	149 x 2	149 x 2	(158 x 1) + (149 x 1)
Shipping Weight		kg	157 x 2	157 x 2	(166 x 1) + (157 x 1)
Sound Pressure Level	Cooling / Heating	dB(A)	53.0 / 55.0	53.0 / 57.0	55.0 / 58.0
Sound Power Level	Cooling / Heating	dB(A)	66.0 / 68.0	66.0 / 70.0	68.0 / 71.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
	Refrigerant Name	-	R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	3.5 + 3.5	3.5 + 3.5	4.5 + 3.5
	t-CO ₂ eq	-	14.613	14.613	16.700
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum (Connectable Indoor Units	;	42 (52)	45 (56)	49 (60)

 Note

 1. Maximum numbers are prepared based on assumption that all 2.2kW 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%.

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

 3. Performances are based on the following conditions

 - Cooling : Indoor temp 27°C (60.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

 - Heating : Indoor temp 27°C (68.9°F) DB, Water inlet temp 20°C (68°F)

 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 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 conditors during operation.

 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)

 6. 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
	Combination Unit		ARWM320LAS5	ARWM340LAS5	ARWM360LAS5
	Independent Unit (1)		ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
Model Name	Independent Unit (2)		ARWM120LAS5	ARWM140LAS5	ARWM160LAS5
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
a	Cooling (Rated)	kW	89.6	95.2	100.8
Capacity	Heating (Rated)	kW	100.8	107.1	113.4
	Cooling (Rated)	kW	15.83	16.91	18.01
Input	Heating (Rated)	kW	16.61	17.83	19.11
EER	Rated		5.66	5.63	5.60
СОР	Rated		6.07	6.01	5.93
	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Exterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
2	Head Loss	kPa	29.9 + 22.1	29.9 + 29.6	29.9 + 37.7
	Rated Water Flow	LPM	192 + 115	192 + 135	192 + 154
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5,300 × 2	5,300 x 2	5,300 x 2
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	6,800	6,800	6,800
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External 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	(772 x 1,120 x 547) x 2
Dimensions (W x H x D) - Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2
Net Weight		kg	(158 x 1) + (149 x 1)	(158 x 1) + (149 x 1)	(158 x 1) + (149 x 1)
Shipping Weight		kg	(166 x 1) + (157 x 1)	(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 / 58.0	57.0 / 59.0
Sound Power Level	Cooling / Heating	dB(A)	69.0 / 70.0	70.0 / 71.0	70.0 / 72.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Definement	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 3.5	4.5 + 3.5	4.5 + 3.5
Refrigerant	t-CO₂ eq	-	16.700	16.700	16.700
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
	Connectable Indoor Units		52 (64)	55 (64)	58 (64)

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ARWM380LAS5 ARWM400LAS5

ARWM420LAS5





	HP		38	40	42
Model Name	Combination Unit		ARWM380LAS5	ARWM400LAS5	ARWM420LAS5
	Independent Unit (1)		ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)		ARWM180LAS5	ARWM200LAS5	ARWM140LAS5
	Independent Unit (3)		-	-	ARWM080LAS5
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	106.4	112.0	117.6
	Heating (Rated)	kW	119.7	126.0	132.3
	Cooling (Rated)	kW	19.09	21.38	20.16
Input	Heating (Rated)	kW	19.77	22.10	21.33
EER	Rated		5.57	5.24	5.83
СОР	Rated		6.05	5.70	6.20
	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Exterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
ricae Exchanger	Head Loss	kPa	29.9 + 24.6	29.9 + 29.9	29.9 + 29.6 + 10.6
	Rated Water Flow	LPM	192 + 173	192 + 192	192 + 135 + 77
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 3
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	6,800	6,800	10,200
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D	0) - Net	mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 3
Dimensions (W x H x D	0) - Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 3
Net Weight		kg	158 x 2	158 x 2	(158 x 1) + (149 x 2)
Shipping Weight		kg	166 x 2	166 x 2	(166 x 1) + (157 x 2)
Sound Pressure Level	Cooling / Heating	dB(A)	58.0 / 60.0	58.0 / 59.0	57.0 / 58.0
Sound Power Level	Cooling / Heating	dB(A)	71.0 / 73.0	71.0 / 72.0	71.0 / 72.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
	Refrigerant Name	-	R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	4.5 + 4.5	4.5 + 4.5	4.5 + 3.5 + 3.5
hengerant	t-CO2 eq	-	18.788	18.788	24.006
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units		61 (64)	64	64	

 Note

 1. Maximum numbers are prepared based on assumption that all 2.2kW 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%.

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

 3. Performances are based on the following conditions

 - Cooling : Indoor temp 27°C (60.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

 - Heating : Indoor temp 27°C (68.9°F) DB, Water inlet temp 20°C (68°F)

 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 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 conditors during operation.

 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)

 6. 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



	НР		44	46	48
Model Name	Combination Unit		ARWM440LAS5	ARWM460LAS5	ARWM480LAS5
	Independent Unit (1)		ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)		ARWM140LAS5	ARWM140LAS5	ARWM140LAS5
	Independent Unit (3)		ARWM100LAS5	ARWM120LAS5	ARWM140LAS5
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	123.2	128.8	134.4
	Heating (Rated)	kW	138.6	144.9	151.2
	Cooling (Rated)	kW	21.10	22.05	23.13
Input	Heating (Rated)	kW	22.40	23.39	24.61
EER	Rated		5.84	5.84	5.81
COP	Rated		6.19	6.19	6.14
	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Exterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
ricat Excitatiger	Head Loss	kPa	29.9 + 29.6 + 15.9	29.9 + 29.6 + 22.1	29.9 + 29.6 + 29.6
	Rated Water Flow	LPM	192 + 135 + 96	192 + 135 + 115	192 + 135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3	5,300 x 3
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	CC	10,200	10,200	10,200
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D	0) - Net	mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3
Dimensions (W x H x D	0) - Shipping	mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
Net Weight		kg	(158 x 1) + (149 x 2)	(158 x 1) + (149 x 2)	(158 x 1) + (149 x 2)
Shipping Weight		kg	(166 x 1) + (157 x 2)	(166 x 1) + (157 x 2)	(166 x 1) + (157 x 2)
Sound Pressure Level	Cooling / Heating	dB(A)	57.0 / 58.0	57.0 / 59.0	58.0 / 59.0
Sound Power Level	Cooling / Heating	dB(A)	71.0 / 72.0	71.0 / 73.0	72.0 / 73.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 3.5 + 3.5	4.5 + 3.5 + 3.5	4.5 + 3.5 + 3.5
	t-CO₂ eq	-	24.006	24.006	24.006
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum (Connectable Indoor Units	;	64	64	64

 Note

 1. Maximum numbers are prepared based on assumption that all 2.2kW 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%.

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

 3. 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 / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

 Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound proserule level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditors 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 (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

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ARWM500LAS5 / ARWM520LAS5 ARWM540LAS5



	НР		50	52	54
Model Name	Combination Unit		ARWM500LAS5	ARWM520LAS5	ARWM540LAS5
	Independent Unit (1)		ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)		ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (3)		ARWM100LAS5	ARWM120LAS5	ARWM140LAS5
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	140.0	145.6	151.2
	Heating (Rated)	kW	157.5	164	170.1
	Cooling (Rated)	kW	25.57	27	27.60
Input	Heating (Rated)	kW	26.67	27.66	28.88
EER	Rated		5.48	5.49	5.48
COP	Rated		5.91	5.92	5.89
E a cita	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Exterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
Theat Exchanger	Head Loss	kPa	29.9 + 29.9 + 15.9	29.9 + 29.9 + 22.1	29.9 + 29.9 + 29.6
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 115	192 + 192 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3	5,300 x 3
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	CC	10,200	10,200	10,200
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External 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	(772 x 1,120 x 547) x 3
Dimensions (W x H x D) - Shipping	mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
Net Weight		kg	(158 x 2) + (149 x 1)	(158 x 2) + (149 x 1)	(158 x 2) + (149 x 1)
Shipping Weight		kg	(166 x 2) + (157 x 1)	(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	59.0 / 60.0
Sound Power Level	Cooling / Heating	dB(A)	73.0 / 73.0	73.0 / 74.0	73.0 / 74.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 3.5	4.5 + 4.5 + 3.5
	t-CO₂ eq	-	26.094	26.094	26.094
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			64	64	64

 Note

 1. Maximum numbers are prepared based on assumption that all 2.2kW 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%.

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

 3. Performances are based on the following conditions

 - Cooling : Indoor temp 27°C (60.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

 - Heating : Indoor temp 27°C (68.9°F) DB, Water inlet temp 20°C (68°F)

 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 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 conditors during operation.

 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)

 6. 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



	НР		56	58	60
	Combination Unit		ARWM560LAS5	ARWM580LAS5	ARWM600LAS5
Model Name	Independent Unit (1)		ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)		ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (3)		ARWM160LAS5	ARWM180LAS5	ARWM200LAS5
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	156.8	162.4	168.0
	Heating (Rated)	kW	176.4	182.7	189.0
land t	Cooling (Rated)	kW	28.70	29.78	32.07
Input	Heating (Rated)	kW	30.16	30.82	33.15
EER	Rated		5.46	5.45	5.24
COP	Rated		5.85	5.93	5.70
	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Exterior	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
·····	Head Loss	kPa	29.9 + 29.9 + 37.7	29.9 + 29.9 + 24.6	29.9 + 29.9 + 29.9
	Rated Water Flow	LPM	192 + 192 + 154	192 + 192 + 173	192 + 192+ 192
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3	5,300 x 3
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	CC	10,200	10,200	10,200
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D	0) - Net	mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3
Dimensions (W x H x D	0) - Shipping	mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
Net Weight		kg	(158 x 2) + (149 x 1)	158 x 3	158 x 3
Shipping Weight		kg	(166 x 2) + (157 x 1)	166 x 3	166 x 3
Sound Pressure Level	Cooling / Heating	dB(A)	59.0 / 61.0	60.0 / 61.0	60.0 / 61.0
Sound Power Level	Cooling / Heating	dB(A)	73.0 / 75.0	74.0 / 75.0	74.0 / 75.0
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 4.5	4.5 + 4.5 + 4.5
	t-CO2 eq	-	26.094	28.181	28.181
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply Ø, V, Hz		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum (Connectable Indoor Units	;	64	64	64

 Note

 1. Maximum numbers are prepared based on assumption that all 2.2kW 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%.

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

 3. 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 / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

 Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound proserule level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditors 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 (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)