ENERGY SAVING

High Efficiency System Regardless of External Conditions

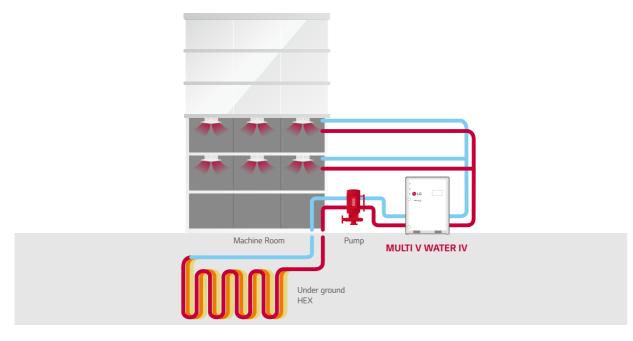
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER IV is the optimal solution.

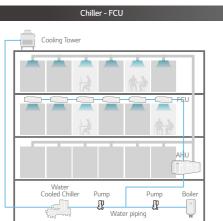


MULTI V WATER IV System for Geothermal Applications

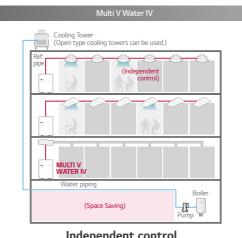
Uses underground heat sources like soil, ground water, lakes, rivers and more as renewable energy for cooling and heating. Water or antifreeze solution is circulated through the closed loop HDPE (High Density Poly-Ethylene) pipes buried beneath the earth's surface.

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





Central control

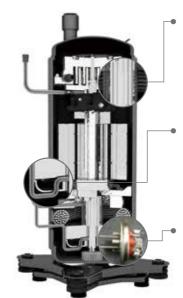


Independent control

Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

With 4th generation inverter compressor, the Multi V Water IV boasts top-class energy efficiency.



Extended Compressor Speed 20Hz ~ 140Hz

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

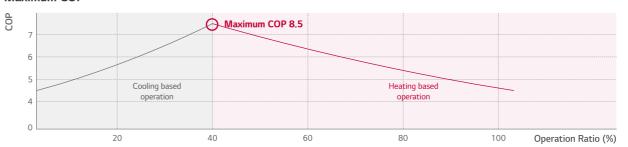
HiPOR™ (High Pressure Oil Return)

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

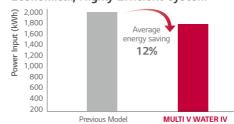
Active oil control (Oil level sensor)

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

Maximum COP

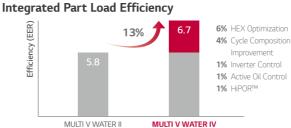


Economical, Highly Efficient System



LG's 4th Generation Inverter Compressor





* Comparison between 10HP (28kW) in cooling mode

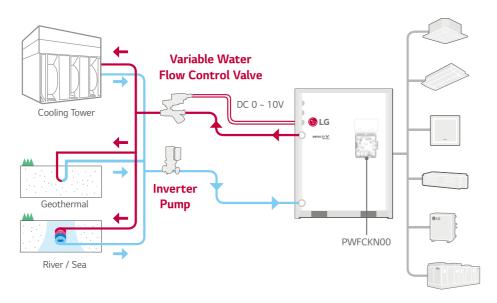
OUTDOOR UNITS KEY FEATURES 094 I 095

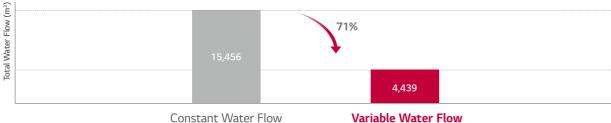
Variable Water Flow Control

(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.





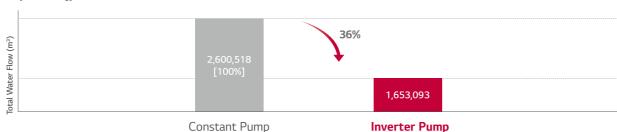
Note 1. Location : Paris, France

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 (\$)



Unit	5 yı	ears	10 years		
Onic	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%

Largest Capacity

Sufficient pipe length limitation provides flexible design and installation

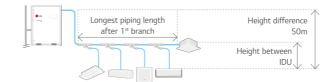
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 80HP (224kW) by combination.

HP	8	10	14	20	22	24	28	30	34	40	42 ~ 60	62 ~ 80
kW	22.4	28	39.2	56	61.6	67.2	78.4	84	95.2	112	117.6 ~ 168	173.6 ~ 224
LG			Init					nits			3 Units	e de

Longest Piping Length

Sufficient pipes length limitation in design and Installation for various buildings

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

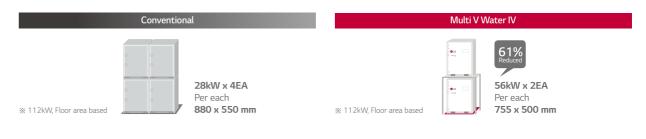


Total Piping Length	300m
Actual longest piping length (Equivalent)	150m (175m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height difference between ODU ~ IDU	50m
Height difference between IDU ~ IDU	40m

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.



Lightweight

Nothing or Decrease additional load reinforcement work at building



OUTDOOR UNITS KEY FEATURES 096 I 097

Ш CHNICAL DAT

ARW N 100 L A S 4 Serial number - S : Standard - A · Basic Function Electrical Ratings L: 3Ø, 380 ~ 415 V, 50Hz Total Cooling Capacity in Horse Power (HP) unit EX) 10HP → '100' Combination of Inverter Type and Cooling Only N: Inverter and H/P - MULTI V Water System with Outdoor unit using R410A

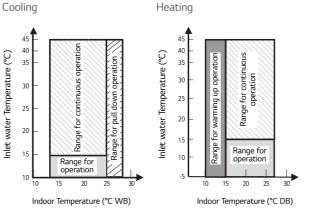
Outdoor Units Function

Nomenclature

Category	Functions	Multi V Water IV
	Variable Path of Outdoor unit HEX	-
Key Refrigerant Components	HiPOR™ (High Pressure Oil Return)	0
	Humidity Sensor	-
	Corrosion Resistance Black Fin	-
	Oil Sensor	0
	Dual Sensing	-
	Low Noise Operation	-
	Hgih Static Mode of Outdoor Unit Fan	-
	Partial Defrosting	-
Useful Function	Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation)	-
	Indoor Cooling Comfort Mode Based Outdoor Temperature	-
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	-
	Outdoor Unit Control Refer to Humidity	-
	Defrost / Deicing	-
	High Pressure Switch	0
Reliability	Phase Protection	0
Reliability	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	0
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
Central Controller	ACP (Advanced Control Platform) IV	PQCPC22A0
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building	ACP Lonworks	PLNWKB000
Network Unit)	ACP BACnet	PQNFB17C0
	Refrigerant Charging Kit	-
Installation	Variable Water Flow Valve Control Kit	PWFCKN000
PDI (Power	Standard	PPWRDB000
Distribution Indicator)	Premium	PQNUD1S40
Cool / Heat Selecto	r	PRDSBM
Low Ambient Kit		
IO Module (ODU Dr	y Contact)	PVDSMN000
Cycle Monitoring	LGMV	PRCTIL0
Device	Mobile LGMV	PLGMVW100

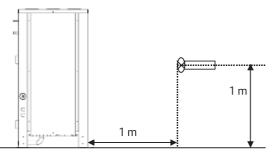
※ ○ : Applied, - : Not Applied

Operation Limits



- These figures assume the following operating conditions:
- Equivalent piping length :7.5m
 Level difference : 0m

Position of Sound Pressure Level Measuring



- Data is valid at free field condition
- 2. Data is valid at nominal operating condition
 3. 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
- 4. Sound level can be increased in static pressure mode or air guide application

Optional Accessories

No.	Name	Model
		ARBLN01621
		ARBLN03321
1	Y branch pipe	ARBLN07121
		ARBLN14521
		ARBLN23220
		ARBL054
		ARBL057
	Header	ARBL104
2	Header	ARBL107
	_	ARBL1010
	_	ARBL2010
		ARCNN21
3	Connection pipe of Outdoor - Units -	ARCNN31
	UIIILS -	ARCNN41

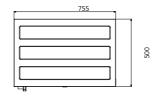
Multi V Water IV Heating Dissipation Value by Model

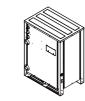
Model	HP	Heating Dissipation Value				
ARWN080LAS4	8	600 W	515.9 kcal/h	0.143 kcal/s		
ARWN100LAS4	10	630 W	541.7 kcal/h	0.150 kcal/s		
ARWN120LAS4	12	660 W	567.5 kcal/h	0.158 kcal/s		
ARWN140LAS4	14	690 W	593.3 kcal/h	0.165 kcal/s		
ARWN160LAS4	16	700 W	601.9 kcal/h	0.167 kcal/s		
ARWN180LAS4	18	720 W	619.1 kcal/h	0.172 kcal/s		
ARWN200LAS4	20	750 W	644.9 kcal/h	0.179 kcal/s		

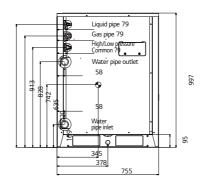
Test condition : Indoor air temperature : DB 40°C, WB : 32°C % A design stage should be considered to ventilation system

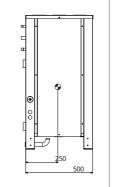
ARWN080LAS4 / ARWN100LAS4 ARWN140LAS4 / ARWN200LAS4

[Unit:mm]

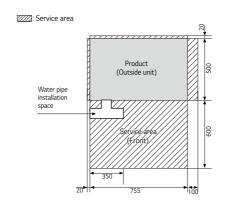




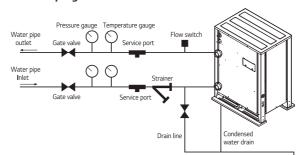




Individual Installation



Water Piping Installation



Precaution of Installation

- 1. Do not install the unit at the outdoors. (Installation of the unit outdoors could result in fire or electric shock.) Recommended ambient temperature of outdoor unit is between 0 ~ 40°C.
- 2. Keep the water temperature between 10 ~ 45°C. Standard water supply temperature is 30°C for cooling and 20°C for
- 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. Ensure water purity control to avoid breakdown due to water pipe corrosion. Refer to 'Standard Table for Water Purity Control' in PDB (Product
- 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. It is mandatory to 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
- 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
- 12. To protect the water cooling type product, you must install a strainer with 50 mesh or more on the heat water supply pipe. 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 the refrigerant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
- 4) As the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat
- 5) As a result of the damage of the heat exchanger from the freezing, the refrigerant side and the heat water source side will be mixed to make the product unusable.

OUTDOOR UNITS TECHNICAL DATA 098 I 099

MULTI V WATER IV HEAT PUMP

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.

ARWN080LAS4 / ARWN100LAS4 ARWN140LAS4



	HP		8	10	14
M. J.INI.	Combination Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4
Model Name	Independent Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4
C:	Cooling (Rated)	kW	22.4	28.0	39.2
Capacity	Heating (Rated)	kW	25.2	31.5	44.1
	Cooling (Rated)	kW	3.86	5.09	7.84
Input	Heating (Rated)	kW	4.2	5.34	8.17
EER			5.80	5.50	5.00
COP	Rated Capacity		6.00	5.90	5.40
F	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm²	45	45	45
reac Exeriariger	Head Loss	kPa	10.7	15.8	28.6
	Rated Water Flow	LPM	77	96	135
	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.	4,200 x 1	4,200 x 1	4,200 x 1
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	2,800	2,800	2,800
Refrigerant	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Connecting Pipes	Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø25.4 (1)
	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H >	(D)	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Dimensions (W x H >	(D) - Shipping	mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1
Net Weight		kg x No.	127 x 1	127 x 1	127 x 1
Shipping Weight		kg x No.	137 x 1	137 x 1	137 x 1
Sound Pressure	Cooling	dB(A)	47	50	58
Level	Heating	dB(A)	51	53	57
	Cooling	dB(A)	59	62	70
Sound Power Level	Heating	dB(A)	63	65	69
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	¹ kg	5.8	5.8	5.8
nerrigerant.	t-CO ₂ eq		12.108	12.108	12.108
	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 Maximun	n Connectable Indoor U	nits	13 (20)	16 (25)	23 (35)

- 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, Water inlet temp 20°C (68°F)

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

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions 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.)

OUTDOOR UNITS REFERENCE SITE

ARWN220LAS4 / ARWN240LAS4 ARWN280LAS4



MULTI V WATER

HEAT

	НР		20	16	18
	Combination Unit		ARWN200LAS4	ARWN160LAS4	ARWN180LAS4
Model Name	Independent Unit		ARWN200LAS4	ARWN080LAS4 ARWN080LAS4	ARWN100LAS4 ARWN080LAS4
Capacity	Cooling (Rated)	kW	56.0	44.8	50.4
Сарасіту	Heating (Rated)	kW	63.0	50.4	56.7
Input	Cooling (Rated)	kW	11.20	7.72	8.95
прис	Heating (Rated)	kW	11.67	8.40	9.54
EER			5.00	5.80	5.63
СОР	Rated Capacity		5.40	6.00	5.94
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
EXTERIOR	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1	10.7 + 10.7	15.8 + 10.7
	Rated Water Flow	LPM	192	77 + 77	96 + 77
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5,300 x 1	4,200 x 2	4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	3,000	5,600	5,600
Refrigerant	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connecting Pipes	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H >	(D)	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H >	(D) - Shipping	mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	140 x 1	127 x 2	127 x 2
Shipping Weight		kg x No.	150 x 1	137 x 2	137 x 2
Sound Pressure	Cooling	dB(A)	54	50	52
Level	Heating	dB(A)	60	54	55
Sound Power Level	Cooling	dB(A)	66	62	64
	Heating	dB(A)	72	66	67
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	3.0	11.6	11.6
	t-CO ₂ eq		6.263	24.215	24.215
	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 Maximun	n Connectable Indoor Uni	its	32 (50)	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 (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 7.5m and difference of Elevation (Outdoor Indoor Unit) is Om.

 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 conditions 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.)



	HP		22	24	28
	Combination Unit		ARWN220LAS4	ARWN240LAS4	ARWN280LAS4
Model Name	Independent Unit		ARWN140LAS4 ARWN080LAS4	ARWN140LAS4 ARWN100LAS4	ARWN140LAS4 ARWN140LAS4
Canacity	Cooling (Rated)	kW	61.6	67.2	78.4
Capacity	Heating (Rated)	kW	69.3	75.6	88.2
t	Cooling (Rated)	kW	11.70	12.93	15.68
Input	Heating (Rated)	kW	12.37	13.51	16.34
EER			5.26	5.20	5.00
COP	Rated Capacity		5.60	5.60	5.40
	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
rous Englanger	Head Loss	kPa	28.6 + 10.7	28.6 + 15.8	28.6 + 28.6
	Rated Water Flow	LPM	135 + 77	135 + 96	135 + 135
	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.	4,200 x 2	4,200 x 2	4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	5,600	5,600	5,600
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	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H)	к D)	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H)	x D) - Shipping	mm x No.	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	127 x 2	127 x 2	127 x 2
Shipping Weight		kg x No.	137 x 2	137 x 2	137 x 2
Sound Pressure	Cooling	dB(A)	58	59	59
Level	Heating	dB(A)	58	58	58
C D	Cooling	dB(A)	70	71	72
Sound Power Level	Heating	dB(A)	70	70	71
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	11.6	11.6	11.6
Refrigerant	t-CO ₂ eq		24.215	24.215	24.215
	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	n Connectable Indoor Un	itc	35 (44)	39 (48)	45 (56)

- 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, Water inlet temp 20°C (68°F)

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

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions 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.)

ARWN300LAS4 / ARWN340LAS4 ARWN400LAS4



MULTI V WATER

HEAT

Model Name		НР	_	30	34	40
Independent Unit		Combination Unit		ARWN300LAS4	ARWN340LAS4	ARWN400LAS4
Capacity Heating (Rated) kW 94.5 107.1 126.0	Model Name	Independent Unit				
Heating (Rated) NW 94.5 107.1 126.0	6 :	Cooling (Rated)	kW	84.0	95.2	112.0
Heating (Rated) KW	Capacity	Heating (Rated)	kW	94.5	107.1	126.0
Heating (Rated) KW 17.01 19.94 23.34		Cooling (Rated)	kW	16.29	19.04	22.40
COP Rated Capacity 5.56 5.40 5.40 5.40	Input	Heating (Rated)	kW	17.01	19.84	23.34
Color Warm Gray / Morning Gray Warm Gray / Morning Gray RAL Code (Classic) RAL 7044 / RAL 7030 RAL 704 / RAL 7044 / RAL 7030 RAL 7044 / RAL	EER			5.16	5.00	5.00
RAL Code (Classic)	COP	Rated Capacity		5.56	5.40	5.40
RAL Code (Classic)		Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Heat Exchanger Maximum Pressure Resistance Resistance kgf/cm² 45 45 45 45 Head Loss kPa 30.1 + 15.8 30.1 + 28.6 30.1 + 30.1 30.1 + 29.6 30.1 + 30.1 30.1 + 28.6 30.1 + 30.1 30.1 + 29.6 30.1 + 30.1 30.1 + 29.2 192 + 192	Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Resistance Resistance Resistance Resistance Resistance Resistance Read Loss Read Uses		Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Type	Heat Exchanger		kgf/cm ²	45	45	45
Type	,	Head Loss	kPa	30.1 + 15.8	30.1 + 28.6	30.1 + 30.1
Combination x No. (Inverter) x 2		Rated Water Flow	LPM	192 + 96	192 + 135	192 + 192
Compressor Motor Output x Number W x No. 5,300 x 1 + 4,200 x 1 5,300 x 1 + 4,200 x 1 5,300 x 2 Coli Type FVC68D (PVE) FVC68D (PVE) FVC68D (PVE) FVC68D (PVE) Oil Charge cc 5,800 5,800 6,000 Refrigerant Connecting Pipes Liquid Pipe Imm (inch) Ø19.05 (3/4) Ø19.05 (3/4) Ø19.05 (3/4) Gas Pipe mm (inch) Ø34.9 (1-3/8) Ø34.9 (1-3/8) Ø41.3 (1-5/8) Water Connecting Pipes Inlet A (inch) 40A (PT 1-1/2) + 40A (PT 1-1/2) 40A (PT 1-1/2) + 40A (PT 1		Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Number Oil Type				(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
Oil Charge cc 5,800 5,800 6,000 Refrigerant Connecting Pipes Liquid Pipe Gas Pipe mm (inch) Ø19.05 (3/4) Ø19.05 (3/4) Ø19.05 (3/4) Ø19.05 (3/4) Water Connecting Pipes Gas Pipe mm (inch) Ø34.9 (1-3/8) Ø34.9 (1-3/8) Ø41.3 (1-5/8) Water Connecting Pipes Inlet A (inch) 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) 40A	Compressor		W x No.	5,300 x 1 + 4,200 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2
Refrigerant Connecting Pipes Liquid Pipe mm (inch) Ø19.05 (3/4) Ø19.05		Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
Connecting Pipes Gas Pipe mm (inch) Ø34.9 (1-3/8) Ø34.9 (1-3/8) Ø41.3 (1-5/8) Inlet A (inch) 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) 40A (PT 1-1/2) + 40		Oil Charge	СС	5,800	5,800	6,000
Inlet		Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes Outlet A (inch) (Internal Thread) 40A (PT 1-1/2) + 40A (PT 1-1/2)	Connecting Pipes	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
Pipes Outlet A (inch) 40A (F1 F1/2) * 40A (F1/4)	Mateu Canastina	Inlet	A (inch)	(Internal Thread)	(Internal Thread)	(Internal Thread)
Dimensions (W x H x D) mm x No. (755 x 997 x 500) x 2 (804 x 1,143 x 630) x 2 (100 x 15 x 20) x 3		Outlet	A (inch)			
Dimensions (W x H x D) - Shipping mm x No. (804 x 1,143 x 630) x 2 (100 x 15 x 2) (100 x 15 x 2) <th></th> <th>Drain Outlet</th> <th>A (inch)</th> <th>20A (PT 3/4) (External Thread)</th> <th>20A (PT 3/4) (External Thread)</th> <th>20A (PT 3/4) (External Thread)</th>		Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Net Weight kg x No. (140 x 1) + (127 x 1) (140 x 1) + (127 x 1) 140 x 2 Shipping Weight kg x No. (150 x 1) + (137 x 1) (150 x 1) + (137 x 1) 150 x 2 Sound Pressure Level Cooling dB(A) 61 61 61 Sound Power Level Cooling dB(A) 67 72 68 Heating dB(A) 73 74 74 Communication mm² x No. 10 x 15 x 20 10 x 15 x 20	Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Shipping Weight kg x No. (150 x 1) + (137 x 1) (150 x 1) + (137 x 1) 150 x 2 Sound Pressure Level Cooling dB(A) 55 59 55 Heating dB(A) 61 61 61 Sound Power Level Cooling dB(A) 67 72 68 Heating dB(A) 73 74 74 Communication mm² x No. 10 15 x 30 10 15 x 30 10 15 x 30	Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Sound Pressure Level Cooling Heating dB(A) 55 59 55 Sound Power Level Cooling Heating dB(A) 61 61 61 Heating Heating dB(A) 67 72 68 Heating Heating dB(A) 73 74 74 Communication mm² x No. 10 15 x 30 10 15 x 30 10 15 x 30	Net Weight		kg x No.	(140 x 1) + (127 x 1)	(140 x 1) + (127 x 1)	140 x 2
Heating dB(A) 61 61 61	Shipping Weight		kg x No.	, , , ,	, , , ,	
Sound Power Level Cooling dB(A) 67 72 68 Heating dB(A) 73 74 74 Communication mm² x No. 10, 15 x 20 15 x 20 10, 15 x 20 10, 15 x 20		Cooling	. ,			
Sound Power Level Heating dB(A) 73 74 74 Communication mm² x No. 10, 15 x 20 10, 15 x 20 10, 15 x 20	Level	Heating	dB(A)			- 1
Communication mm ² x No. 10 15 x 20 10 15 x 20	Sound Power Level	Cooling				
		Heating		73	74	74
(VCIF-3D)	Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant Name R410A R410A R410A		Refrigerant Name		R410A	R410A	R410A
Precharged Amount in kg 8.8 8.8 6.0 Refrigerant	Refrigerant		kg	8.8	8.8	6.0
t-CO ₂ eq 18.370 18.370 12.525	,	t-CO ₂ eq		18.370	18.370	12.525
Control Electronic Expansion Valve Electronic Expansion Valve Electronic Expansion Valve		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	Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units 49 (60) 55 (64) 64	Number of Maximum	Connectable Indoor Uni	ts	49 (60)	55 (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, Water inlet temp 20°C (68°F)

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

 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 conditions 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.)

ARWN420LAS4 / ARWN440LAS4 ARWN480LAS4



	HP		42	44	48
	Combination Unit		ARWN420LAS4	ARWN440LAS4	ARWN480LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN140LAS4 ARWN100LAS4	ARWN200LAS4 ARWN140LAS4 ARWN140LAS4
Capacity	Cooling (Rated)	kW	117.6	123.2	134.4
Сарасіту	Heating (Rated)	kW	132.3	138.6	151.2
Input	Cooling (Rated)	kW	22.9	24.13	26.88
трис	Heating (Rated)	kW	24.04	25.18	28.01
EER			5.14	5.11	5.00
COP	Rated Capacity		5.50	5.50	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
LXterioi	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8	30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 135 + 77	192 + 135 + 96	192 + 135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scrol
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	8,600	8,600	8,600
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	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H >	(D)	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H >	k D) - Shipping	mm x No.	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3
Net Weight		kg x No.	(140 x 1) + (127 x 2)	$(140 \times 1) + (127 \times 2)$	(140 x 1) + (127 x 2)
Shipping Weight		kg x No.	(150 x 1) + (137 x 2)	(150 x 1) + (137 x 2)	(150 x 1) + (137 x 2)
Sound Pressure	Cooling	dB(A)	60	60	60
Level	Heating	dB(A)	62	62	62
Sound Power Level	Cooling	dB(A)	72	72	74
	Heating	dB(A)	74	74	76
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	14.6	14.6	14.6
	t-CO ₂ eq		30.478	30.478	30.478
	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	n Connectable Indoor Uni	its	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, Water inlet temp 20°C (68°F)

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

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions 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.)



MULTI V WATER IV

HEAT

	НР		50	54	60
	Combination Unit		ARWN500LAS4	ARWN540LAS4	ARWN600LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
Canacity	Cooling (Rated)	kW	140.0	151.2	168.0
Capacity	Heating (Rated)	kW	157.5	170.1	189.0
Input	Cooling (Rated)	kW	27.49	30.24	33.60
прис	Heating (Rated)	kW	28.68	31.51	35.01
EER			5.09	5.00	5.00
COP	Rated Capacity		5.49	5.40	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
LACETIOI	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 135	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 Number Oil Type	Motor Output x Number	W x No.	5,300 x 2 + 4,200 x 1	5,300 x 2 + 4,200 x 1	5,300 x 3
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	8,800	8,800	9,000
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Kerrigerant B:	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Inlet	A (inch)	40A (PT 1-1/2) +40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3
Net Weight		kg x No.	(140 x 2) + (127 x 1)	(140 x 2) + (127 x 1)	140 x 3
Shipping Weight		kg x No.	(150 x 2) + (137 x 1)	(150 x 2) + (137 x 1)	150 x 3
Sound Pressure	Cooling	dB(A)	58	60	56
Level	Heating	dB(A)	63	62	62
Sound Power Level	Cooling	dB(A)	70	74	70
	Heating	dB(A)	75	76	76
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	11.8	11.8	9.0
	t-CO ₂ eq		24.633	24.633	18.788
	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 Uni	ts	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, Water inlet temp 20°C (68°F)

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

 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 conditions 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.)

ARWN620LAS4 / ARWN640LAS4 ARWN680LAS4



	HP		62	64	68
	Combination Unit		ARWN620LAS4	ARWN640LAS4	ARWN680LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN140LAS4
Canaditu	Cooling (Rated)	kW	173.6	179.2	190.4
Capacity	Heating (Rated)	kW	195.3	201.6	214.2
Innut	Cooling (Rated)	kW	34.10	35.33	38.08
Input	Heating (Rated)	kW	35.71	36.85	39.68
EER			5.09	5.07	5.00
COP	Rated Capacity		5.47	5.47	5.40
Francisco	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
Heat Exchanger	Head Loss	kPa	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 28.6 + 15.8	30.1 + 30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 192 + 135 + 77	192 + 192 + 135 + 96	192 + 192 + 135 + 135
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
Compressor	Motor Output x Number	W x No.	5,300 x 2 + 4,200 x 2	5,300 x 2 + 4,200 x 2	5,300 x 2 + 4,200 x 2
Compressor	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	11,600	11,600	11,600
Refrigerant	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	ø22.2 (7/8)	Ø22.2 (7/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/ + 40A (PT 1-1/2) + PT40 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H >	(D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Dimensions (W x H >	c D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4
Net Weight		kg x No.	(140 x 2) + (127 x 2)	$(140 \times 2) + (127 \times 2)$	$(140 \times 2) + (127 \times 2)$
Shipping Weight		kg x No.	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)
Sound Pressure	Cooling	dB(A)	61	61	61
Level	Heating	dB(A)	64	64	63
Sound Power Level	Cooling	dB(A)	73	73	75
Soulid Power Level	Heating	dB(A)	76	76	77
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	17.6	17.6	17.6
,	t-CO ₂ eq		36.740	36.740	36.740
	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	n Connectable Indoor Uni	its	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, Water inlet temp 20°C (68°F)

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

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions 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.)

MULTI V WATER

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RECOVERY

ARWN700LAS4 / ARWN740LAS4 ARWN800LAS4



MULTI V WATER IV

HEAT

	НР		70	74	80
	Combination Unit	_	ARWN700LAS4	ARWN740LAS4	ARWN800LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN740LAS4 ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
	Cooling (Rated)	kW	196.0	207.2	224.0
Capacity	Heating (Rated)	kW	220.5	233.1	252.0
	Cooling (Rated)	kW	38.69	41.44	44.80
Input	Heating (Rated)	kW	40.35	43.18	46.68
EER			5.07	5.00	5.00
COP	Rated Capacity		5.46	5.40	5.40
	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm²	45	45	45
ricae Exchanger	Head Loss	kPa	30.1 + 30.1 + 30.1 + 15.8	30.1 + 30.1 + 30.1 + 28.6	30.1 + 30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 192 + 96	192 + 192 + 192 + 135	192 + 192 + 192 + 192
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
Compressor	Motor Output x Number	W x No.	5,300 x 3 + 4,200 x 1	5,300 x 3 + 4,200 x 1	5,300 x 4
Compressor	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	11,800	11,800	12,000
Refrigerant	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
w. c .:	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	(D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4
Net Weight		kg x No.	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4
Shipping Weight		kg x No.	(150 x 3) + (137 x 1)	(150 x 3) + (137 x 1)	150 x 4
Sound Pressure	Cooling	dB(A)	59	61	57
Level	Heating	dB(A)	65	63	63
Sound Power Level	Cooling	dB(A)	71	75	71
	Heating	dB(A)	77	77	77
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	14.8	14.8	12.0
	t-CO ₂ eq		30.895	30.895	25.050
	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 Uni	ts 1)	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, Water inlet temp 20°C (68°F)

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

 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 conditions 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.)

ARWB080LAS4 / ARWB100LAS4 ARWB140LAS4



	HP		8	10	14
	Combination Unit		ARWB080LAS4	ARWB100LAS4	ARWB140LAS4
Model Name	Independent Unit		ARWB080LAS4	ARWB100LAS4	ARWB140LAS4
C	Cooling (Rated)	kW	22.4	28.0	39.2
Capacity	Heating (Rated)	kW	25.2	31.5	44.1
	Cooling (Rated)	kW	3.86	5.09	7.84
Input	Heating (Rated)	kW	4.20	5.34	8.17
EER			5.80	5.50	5.00
COP	Rated Capacity		6.00	5.90	5.40
	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
reac Exeriariger	Head Loss	kPa	10.7	15.8	28.6
	Rated Water Flow	LPM	77	96	135
	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.	4,200 x 1	4,200 x 1	4,200 x 1
Compressor	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	2,800	2,800	2,800
	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø25.4 (1)
connecting ripes	High Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
Nater Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	` ,	20A (PT 3/4) (External Thread)	,
Dimensions (W x H x	(D)	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1
Net Weight		kg x No.	127 x 1	127 x 1	127 x 1
Shipping Weight		kg x No.	137 x 1	137 x 1	137 x 1
Sound Pressure	Cooling	dB(A)	47	50	58
_evel	Heating	dB(A)	51	53	57
	Cooling	dB(A)	59	62	70
Sound Power Level	Heating	dB(A)	63	65	69
Communication		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name	(10.1 33)	R410A	R410A	R410A
Dofrigorant	Precharged Amount in Factory	kg	5.8	5.8	5.8
Refrigerant	t-CO ₂ eq		12.108	12.108	12.108
	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
	n Connectable Indoor Uni		13 (20)	16 (25)	23 (35)

- 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, Water inlet temp 20°C (68°F)

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

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions 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.)

RECOVERY

ARWB200LAS4 / ARWB160LAS4 ARWB180LAS4



MULTI V WATER

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	HP		20	16	18
	Combination Unit		ARWB200LAS4	ARWB160LAS4	ARWB180LAS4
Model Name	Independent Unit		ARWB200LAS4	ARWB080LAS4 ARWB080LAS4	ARWB100LAS4 ARWB080LAS4
Canacity	Cooling (Rated)	kW	56.0	44.8	50.4
Capacity	Heating (Rated)	kW	63.0	50.4	56.7
Input	Cooling (Rated)	kW	11.20	7.72	8.95
Input	Heating (Rated)	kW	11.67	8.40	9.54
EER			5.00	5.80	5.63
COP	Rated Capacity		5.40	6.00	5.94
Color	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
LACETION	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1	10.7 + 10.7	15.8 + 10.7
	Rated Water Flow	LPM	192	77 + 77	96 + 77
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5,300 x 1	4,200 x 2	4,200 x 2
Oil Type	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	СС	3,000	5,600	5,600
Refrigerant	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x		mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	140 x 1	127 x 2	127 x 2
Shipping Weight		kg x No.	150 x 1	137 x 2	137 x 2
Sound Pressure	Cooling	dB(A)	54	50	52
Level	Heating	dB(A)	60	54	55
Sound Power Level	Cooling	dB(A)	66	62	64
C	Heating	dB(A)	72	66	67
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	3.0	11.6	11.6
	t-CO ₂ eq		6.263	24.215	24.215
	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 Uni	ts	32(50)	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 (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 7.5m 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. Therefore, these values can be increased owing to ambient conditions 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.)

ARWB220LAS4 / ARWB240LAS4 ARWB280LAS4



	HP		22	24	28
	Combination Unit		ARWB220LAS4	ARWB240LAS4	ARWB280LAS4
Model Name	Independent Unit		ARWB140LAS4 ARWB080LAS4	ARWB140LAS4 ARWB100LAS4	ARWB140LAS4 ARWB140LAS4
Capacity	Cooling (Rated)	kW	61.6	67.2	78.4
Сараспсу	Heating (Rated)	kW	69.3	75.6	88.2
laat	Cooling (Rated)	kW	11.70	12.93	15.68
Input	Heating (Rated)	kW	12.37	13.51	16.34
EER			5.26	5.20	5.00
COP	Rated Capacity		5.60	5.60	5.40
	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	28.6 + 10.7	28.6 + 15.8	28.6 + 28.6
	Rated Water Flow	LPM	135 + 77	135 + 96	135 + 135
	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.	4,200 x 2	4,200 x 2	4,200 x 2
·	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	5,600	5,600	5,600
	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H)	(D)	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x	c D) - Shipping	mm x No.	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	127 x 2	127 x 2	127 x 2
Shipping Weight		kg x No.	137 x 2	137 x 2	137 x 2
Sound Pressure	Cooling	dB(A)	58	59	59
Level	Heating	dB(A)	58	58	58
Sound Power Level	Cooling	dB(A)	70	71	72
Sound Fower Level	Heating	dB(A)	70	70	71
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	11.6	11.6	11.6
_	t-CO ₂ eq		24.215	24.215	24.215
	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 Maximun	n Connectable Indoor Uni	ts	35 (44)	39 (48)	45 (56)

- 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, Water inlet temp 20°C (68°F)

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

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions 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.)

MULTI V WATER

HE

ARWB300LAS4 / ARWB340LAS4 ARWB400LAS4



MULTI V WATER

П

П

	НР		30	34	40
	Combination Unit		ARWB300LAS4	ARWB340LAS4	ARWB400LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4
Capacity	Cooling (Rated)	kW	84.0	95.2	112.0
Сарасіту	Heating (Rated)	kW	94.5	107.1	126.0
Innut	Cooling (Rated)	kW	16.29	19.04	22.40
Input	Heating (Rated)	kW	17.01	19.84	23.34
EER			5.16	5.00	5.00
COP	Rated Capacity		5.56	5.40	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
F	Head Loss	kPa	30.1 + 15.8	30.1 + 28.6	30.1 + 30.1
	Rated Water Flow	LPM	192 + 96	192 + 135	192 + 192
	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 1 + 4,200 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2
Oil Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	5,800	5,800	6,000
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Low Pressure Gas Pipe		Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
Water Connecting	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)		20A (PT 3/4) (External Thread)	
Dimensions (W x H x		mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	(140 x 1) + (127 x 1)	(140 x 1) + (127 x 1)	140 x 2
Shipping Weight		kg x No.	(150 x 1) + (137 x 1)	(150 x 1) + (137 x 1)	150 x 2
Sound Pressure Level	Cooling	dB(A)	55	59	55
Level	Heating	dB(A)	61	61	61
Sound Power Level	Cooling	dB(A)	67	72	68
Communication	Heating	dB(A)	73	74	74
Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	8.8	8.8	6.0
	t-CO ₂ eq		18.370	18.370	12.525
	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 Uni	ts	49 (60)	55 (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, Water inlet temp 20°C (68°F)

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

 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 conditions 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.)

ARWB420LAS4 / ARWB440LAS4 ARWB480LAS4



	HP		42	44	48
	Combination Unit		ARWB420LAS4	ARWB440LAS4	ARWB480LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB140LAS4 ARWB080LAS4	ARWB200LAS4 ARWB140LAS4 ARWB100LAS4	ARWB200LAS4 ARWB140LAS4 ARWB140LAS4
Canaditu	Cooling (Rated)	kW	117.6	123.2	134.4
Capacity	Heating (Rated)	kW	132.3	138.6	151.2
lanab	Cooling (Rated)	kW	22.9	24.13	26.88
Input	Heating (Rated)	kW	24.04	25.18	28.01
EER			5.14	5.11	5.00
COP	Rated Capacity		5.50	5.50	5.40
Francisco	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8	30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 135 + 77	192 + 135 + 96	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 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	CC	8,600	8,600	8,600
D. C	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
3 1	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H x	x D)	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H x	x D) - Shipping	mm x No.	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3
Net Weight		kg x No.	(140 x 1) + (127 x 2)	(140 x 1) + (127 x 2)	(140 x 1) + (127 x 2)
Shipping Weight		kg x No.	(150 x 1) + (137 x 2)	(150 x 1) + (137 x 2)	(150 x 1) + (137 x 2)
Sound Pressure	Cooling	dB(A)	60	60	60
Level	Heating	dB(A)	62	62	62
C D	Cooling	dB(A)	72	72	74
Sound Power Level	Heating	dB(A)	74	74	76
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	14.6	14.6	14.6
	t-CO ₂ eq		30.478	30.478	30.478
	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	n Connectable Indoor Uni	ts	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, Water inlet temp 20°C (68°F)

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

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions 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.)

RECOVERY

ARWB500LAS4 / ARWB540LAS4 ARWB600LAS4



MULTI V WATER

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	НР		50	54	60
	Combination Unit		ARWB500LAS4	ARWB540LAS4	ARWB600LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4
Capacity	Cooling (Rated)	kW	140.0	151.2	168.0
Сараситу	Heating (Rated)	kW	157.5	170.1	189.0
Input	Cooling (Rated)	kW	27.49	30.24	33.60
прис	Heating (Rated)	kW	28.68	31.51	35.01
EER			5.09	5.00	5.00
COP	Rated Capacity		5.49	5.40	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 135	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 2 + 4,200 x 1	5,300 x 2 + 4,200 x 1	5,300 x 3
Oil Type	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	8,800	8,800	9,000
Deficement	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
· ·	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3
Net Weight		kg x No.	(140 x 2) + (127 x 1)	$(140 \times 2) + (127 \times 1)$	140 x 3
Shipping Weight		kg x No.	(150 x 2) + (137 x 1)	$(150 \times 2) + (137 \times 1)$	150 x 3
Sound Pressure	Cooling	dB(A)	58	60	56
Level	Heating	dB(A)	63	62	62
Sound Power Level	Cooling	dB(A)	70	74	70
Journal ower Level	Heating	dB(A)	75	76	76
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	11.8	11.8	9.0
-	t-CO ₂ eq		24.633	24.633	18.788
	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 Uni	ts	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, Water inlet temp 20°C (68°F)

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

 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 conditions 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.)

ARWB620LAS4 / ARWB640LAS4 ARWB680LAS4



	HP		62	64	68
	Combination Unit		ARWB620LAS4	ARWB640LAS4	ARWB680LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB080LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB140LAS4
Capacity	Cooling (Rated)	kW	173.6	179.2	190.4
Capacity	Heating (Rated)	kW	195.3	201.6	214.2
lancet.	Cooling (Rated)	kW	34.10	35.33	38.08
Input	Heating (Rated)	kW	35.71	36.85	39.68
EER			5.09	5.07	5.00
COP	Rated Capacity		5.47	5.47	5.40
Francisco	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
-	Head Loss	kPa	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 28.6 + 15.8	30.1 + 30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 192 + 135 + 77	192 + 192 + 135 + 96	192 + 192 + 135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
Compressor	Motor Output x Number	W x No.	5,300 x 2 + 4,200 x 2	5,300 x 2 + 4,200 x 2	5,300 x 2 + 4,200 x 2
Compressor	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	11,600	11,600	11,600
D. C	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø44.5 (1-3/4)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/ + 40A (PT 1-1/2) + PT40 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/ + 40A (PT 1-1/2) + PT40 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H >	(D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Dimensions (W x H >	c D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4
Net Weight		kg x No.	(140 x 2) + (127 x 2)	$(140 \times 2) + (127 \times 2)$	$(140 \times 2) + (127 \times 2)$
Shipping Weight		kg x No.	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)
Sound Pressure	Cooling	dB(A)	61	61	61
Level	Heating	dB(A)	64	64	63
Sound Power Level	Cooling	dB(A)	73	73	75
Soulid Power Level	Heating	dB(A)	76	76	77
Communication Cable		mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	17.6	17.6	17.6
	t-CO ₂ eq		36.740	36.740	36.740
	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	n Connectable Indoor Uni	ts	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, Water inlet temp 20°C (68°F)

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

 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions 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.)

MULTI V WATER IV

ARWB700LAS4 / ARWB740LAS4 ARWB800LAS4



Model Name						
Model Name ARWB200LAS4 ARWB20LAS4 ARWB20LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARW		HP		70	74	80
Model Name		Combination Unit		ARWB700LAS4	ARWB740LAS4	ARWB800LAS4
Capacity Heating (Rated) kW 220.5 233.1 252.0 Input Cooling (Rated) kW 38.69 41.44 44.80 EER Fermany 40.035 43.18 46.68 EER SO7 5.00 5.00 COP Rate Capacity So.46 5.40 5.40 COP Rate Capacity Warm Gray / Morning Gray RAL 7044 / RAL 7030 RAL 7044 / RAL	Model Name	Independent Unit		ARWB200LAS4 ARWB200LAS4	ARWB200LAS4 ARWB200LAS4	ARWB200LAS4 ARWB200LAS4
Package Pack	Canacity	Cooling (Rated)	kW	196.0	207.2	224.0
	Сараспу	Heating (Rated)	kW	220.5	233.1	252.0
FER	Innut	Cooling (Rated)	kW	38.69	41.44	44.80
COP Rated Capacity 5.46 5.40 5.40 Exterior Color Varm Gray / Morning Gray Warm Gray / Morning Gray Reform Gray / Morning Gray Morning Gray Reform Gray / Morning Gray Reform Gray / Morning Gray Reform Gray / Morning Gray Add Mather Mather Add Processed Add Add Processed Add Add Add Processed Add Internetically Sealed Scroll Hermetically Sealed Scroll Hermetically Sealed Scroll Hermetically Sealed Scroll	прис	Heating (Rated)	kW	40.35	43.18	46.68
Pacterior Color Marm Gray / Morning Gray Mal Coda / Ral	EER			5.07	5.00	5.00
Type	COP	Rated Capacity		5.46	5.40	5.40
Mach	Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Heat Exchanger Maximum Pressure Resistance kgf (m²) 45 45 45 Read Loss kPa 30.1 + 30.1 + 30.1 + 15.8 30.1 + 30.1 + 28.6 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 + 30.1 30.1 +	EXCENSI	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Resistance		Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Part	Heat Exchanger		kgf/cm ²	45	45	45
Compressor Type (Combination × No. (Inverter) × 4 (Inv		Head Loss	kPa	30.1 + 30.1 + 30.1 + 15.8	30.1 + 30.1 + 30.1 + 28.6	30.1 + 30.1 + 30.1 + 30.1
Compressor Combination x No. (Inverter) x 4 (Inverter) x 4 (Inverter) x 4 (Inverter) x 4 Compressor Motor Output x No. W x No. 5,300 x 3 + 4,200 x 1 5,300 x 3 + 4,200 x 1 5,300 x 4 Oil Type FVC68D (PVE) FVC68D (PVE) FVC68D (PVE) FVC68D (PVE) Refrigerant Connecting Pipes Liquid Pipe mm (inch) Ø22.2 (7/8) Ø53.98 (2-1/8) Ø40.0 (PT1-1/2) 400 (PT		Rated Water Flow	LPM	192 + 192 + 192 + 96	192 + 192 + 192 + 135	192 + 192 + 192 + 192
Compressor Motor Output x Number W x No. 5,300 x 3 + 4,200 x 1 5,300 x 3 + 4,200 x 1 5,300 x 4 Poli Type FVC68D (PVE) FVC68D (PVE) FVC68D (PVE) FVC68D (PVE) Refrigerant Connecting Pipes Liquid Pipe mm (inch) Ø22.2 (7/8) Ø22.2 (7/8) Ø22.2 (7/8) Berfrigerant Connecting Pipes Low Pressure Gas Pipe mm (inch) Ø53.98 (2-1/8) Ø53.98 (2-1/8) Ø53.98 (2-1/8) Water Connecting Pipes Inlet A (inch) 40A (PT 1-1/2) + 40A (PT 1		Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Number W N No. S,300 x 3 4,200 x 1 S,300 x 3 4 S,300 x 3 S,200				(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
Dil Charge C	Compressor	Number	W x No.			
Refrigerant Connecting Pipes Industry Pipes	Oil 1	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
		Oil Charge	CC	,	,	·
Connecting Pipes Low Pressure Gas Pipe mm (inch) Ø34.5 (2-1/8) Ø35.398 (2-1/8) Ø34.5 (1-3/4) Ø44.5 (1-3/4) Ø40.6 (PT 1-1/2) + 400.6 (PT 1-1/2) + 4	Dofrigorant	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Inlet		· '	` ′	, ,	` ,	, ,
Water Connecting Pipes Inlet A (inch) (inch nal Thread) (internal Thread) (inter		High Pressure Gas Pipe	mm (inch)	, ,	, ,	, ,
Pipes Outlet A (inch) 4 (internal Thread) 4 (internal Thread) 20A (PT 3/4) (External Thread) 20A (PT 3/4)		Inlet	A (inch)	+ 40A (PT 1-1/2) + PT40	+ 40A (PT 1-1/2) + PT40	+ 40A (PT 1-1/2) + PT40
Dimensions (W x H x D) mm x No. (755 x 997 x 500) x 4 (804 x 1,143 x 630) x 4 (120 x 14) x 14 (120		Outlet	A (inch)	+ 40A (PT 1-1/2) + PT40	+ 40A (PT 1-1/2) + PT40	+ 40A (PT 1-1/2) + PT40
Dimensions (W x H x D) - Shipping mm x No. (804 x 1,143 x 630) x 4 (140 x 3) (127 x 1) (140 x 3) (127 x 1) (150 x 3) (137 x		Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Net Weight kg x No. (140 x 3) + (127 x 1) (140 x 3) + (127 x 1) 140 x 4 Shipping Weight kg x No. (150 x 3) + (137 x 1) (150 x 3) + (137 x 1) 150 x 4 Sound Pressure Level Cooling dB(A) 59 61 57 Heating dB(A) 65 63 63 63 Sound Power Level Cooling dB(A) 71 75 71 Heating dB(A) 77 77 77 77 Communication Cable Work Tessen (VCTF-SB) 1.0 - 1.5 x 2C 1.0 - 1.	Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Shipping Weight kg x No. (150 x 3) + (137 x 1) (150 x 3) + (137 x 1) 150 x 4 Sound Pressure Level Cooling dB(A) 59 61 57 Heating dB(A) 65 63 63 Sound Power Level Cooling dB(A) 71 75 71 Heating dB(A) 77 77 77 77 Communication Cable Refrigerant Name R410A R410A R410A R410A Refrigerant Name R410A R410A R410A R410A Precharged Amount in Factory kg 14.8 14.8 12.0 Footrol Electronic Expansion Valve 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 3,380-415,50	Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4
Sound Pressure Level Cooling dB(A) 59 61 57 Bound Power Level Heating dB(A) 65 63 63 Sound Power Level Cooling dB(A) 71 75 71 Heating dB(A) 77 77 77 Communication Cable mm² x No. (VCTF-SB) 1.0 - 1.5 x 2C 1.0 - 1.5 x 2C 1.0 - 1.5 x 2C Refrigerant Name R410A R410A R410A R410A Precharged Amount in Factory kg 14.8 14.8 12.0 1-CO ₂ eq 30.895 30.895 25.050 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	Net Weight		kg x No.	(140 x 3) + (127 x 1)	$(140 \times 3) + (127 \times 1)$	140 x 4
Level Heating dB(A) 65 63 63 Sound Power Level Cooling dB(A) 71 75 71 Heating dB(A) 77 77 77 Communication Cable mm² x No. (VCTF-SB) 1.0 - 1.5 x 2C 1.0 - 1.5 x 2C 1.0 - 1.5 x 2C Refrigerant Name R410A R410A R410A R410A Precharged Amount in Factory kg 14.8 14.8 12.0 t-CO ₂ eq 30.895 30.895 25.050 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	Shipping Weight		kg x No.	(150 x 3) + (137 x 1)	(150 x 3) + (137 x 1)	150 x 4
Sound Power Level Cooling dB(A) 71 75 71 Communication Cable Tercharged Amount in Factory Refrigerant Name R410A R410A </th <th></th> <th>Cooling</th> <th>dB(A)</th> <th>59</th> <th>61</th> <th>57</th>		Cooling	dB(A)	59	61	57
Sound Power Level Heating dB(A) 77 77 77 Communication Cable mm² x No. (VCTF-SB) 1.0 - 1.5 x 2C Refrigerant Name R410A	Level	Heating	dB(A)	65	63	63
Heating Heat	Sound Power Level	Cooling	dB(A)	71	75	71
Cable (VCTF-SB) 1.0 - 1.5 x 2C 1		Heating		77	77	77
Refrigerant Factory Eactory t-CO ₂ eq kg 14.8 14.8 14.8 12.0 Power Supply Control Electronic Expansion Valve 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						
Refrigerant Factory t-CO ₂ eq kg 14.6 14.8 12.0 t-CO ₂ eq 30.895 30.895 25.050 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				R410A	R410A	R410A
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	Refrigerant	Factory	kg			
Power Supply Ø, V, Hz 3, 380-415, 50 3, 380-415, 50 3, 380-415, 50		- '				
112		Control		·	·	·
Number of Maximum Connectable Indoor Units 64 64 64	117					
	Number of Maximum	Connectable Indoor Uni	ts	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, 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 3745 standard. Therefore, these values can be increased owing to ambient conditions 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.)