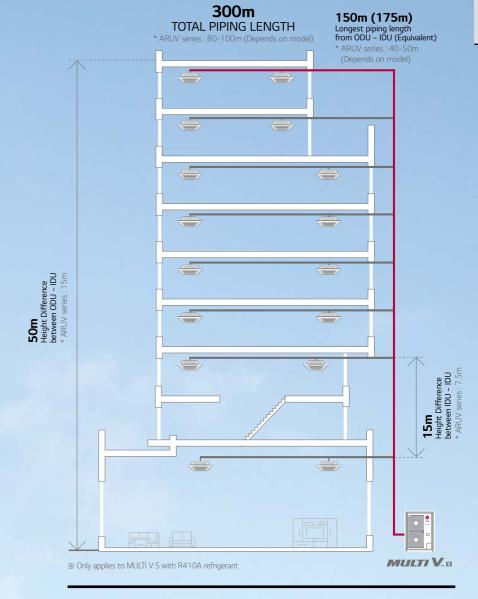
MULTI V_{IM} S

- Air cooled VRF Heat pump & Heat Recovery
- 9.2 ~ 33.6kW (Cooling capacity based)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system







Energy savings



Reliability



Convenience

How does it work?

Available in Heat Pump and **Heat Recovery Configurations**



Combination of Cooling, Heating and Hot Water Solution



* Heat Pump and Recovery are separated models.

ENERGY SAVINGS

EER / COP / Part Load

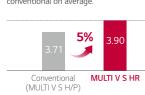
Cost savings with energy efficiency

Heat Pump



Heat Recovery

Cooling EER is 5% higher than conventional on average



* Comparison Based on 15.5kW in cooling mode

MULTI V load control

Startup

according to load, to save energy.

Basic Operation

% Indoor air discharge temperature

Basic Operation

Smart Load Control Applied

Enhanced comfort and up to 23% energy savings with

MULTI V S changes indoor discharge air temperature continuously

- SLC (Smart Load Control) operation

Startup Operation

Max. 10% Energy saving

Real Time Operation

Max. 13% Energy saving

* How to set up: By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off.

% ESEER (European seasonal energy efficiency Ratio) conditions based on 15.5kW unit

- Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35°C (DB) / 30°C (DB) / 25°C (DB) / 20°C (DB) - Indoor temperature condition : 27°C (DB) / 19°C (WB)

※ Dual sensing (Temperature & humidity) Smart Load Control is possible with Remote controller PTEMTB100 (White) /PREMTBB10 (Black)

After 20 minutes

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

MULTI V S HR

Comparison Based on 15.5kW in heating mode

5%

MULTI V S HR

Heating COP is 5% higher than

conventional on average.

(MULTI V S H/P)

Comparison Based on 15.5kW in heating mode

Smart Load Control

Smart Load Control

3°C ∦

0

Until 20 minutes after startup operation

Concentrated Winding Motor

Oil path area is improved by over 50% by increasing the extra stator cavity. Due to this, caloric value of motor is reduced, improving the cooling function of stator coil.

Twin Rotary Rotor

Inverter Twin Rotary

(12.1kW ~ 15.5kW)

Upper and lower part rotor offset imbalance in shaft rotor rotation. Vibration and noise is reduced. Max torque load decreased by 45% compared to single rotor.

Surface Coating

Surface coating of outstanding abrasion resistance property on vane and crank shaft.

(22.4kW ~ 33.6kW)

Best-in-class Compressor Speed

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

Inverter scroll compressor

6 Bypass Valve

Compressor reliability is maximized with 6 Bypass Valve

Inverter Twin Rotary &

Inverter Scroll Compressor

Adapted High Efficient Compressor according to Capacity

Compressor Efficiency Comparison

Prevent compressor damage due to excessively compressed refrigerant r efficiently than 4 Bypass valve

Direct Oil Injection

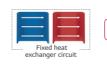
- · Eliminate suction refrigerant gas heat loss through direct oil injection into compression chamber (Efficiency increases)
- · Increased reliability with regulated oil supply

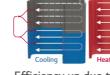
- The enhanced reliability by Increased reliability with regulated oil supply.
- · Efficiency increases by expanding 96% Bypass area and 17% improved volume ratio by nonuniform scroll thickness

Optimal Heat Exchanger

Maximize Efficiency according to different Heat Exchanger path by cooling and heating

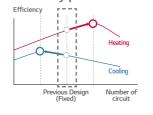
Variable Heat Exchanger Circuit intelligently selects the optimal path for both heating and cooling operations. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved. The paths number and circuit velocity are adjusted to match temperatures and operation modes in order to maximize efficiency instead of compromising efficiency for each operation when the number and direction of paths are fixed independently of temperature operation mode.





Efficiency performance

Efficiency up due to Fin shape Improved heat exchanger efficiency of up to 28%





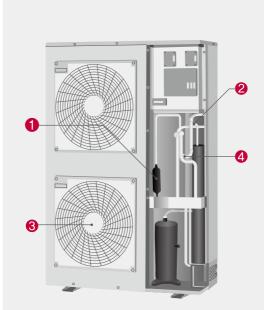


Wide Louver Plus Fin

RELIABILITY

Reliable Refrigerant Components

LG technology allows for superior performance and component durability



MULTI V S improved reliability with advanced technology

- Oil separator
- Accumulator
- Sub-cooling

Cyclonic oil separator

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



2 Large Volume Accumulator

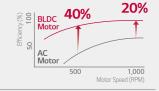
- Improved reliability by adopting the large volume accumulator (38% volume up compared to conventional)
- Prevents the liquid refrigerant entering the compressor suction
- Maximize efficiency by optimal amount of refrigerant

 - Protects compressor breakdown to increase product lifetime



BLDC Fan Motor

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



Double Sub-cool Interchanger

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



Double Sub-cool Interchanger

Smart Control

Pressure control applied for smart, quick and precise response to user's temperature request

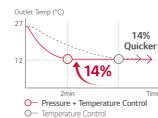
Temperature + Pressure Control

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



Quick Operating Response

Desired temperature can be reached up to 14% faster in cooling mode with pressure control, allowing more accurate control of indoor environment for maximized comfort.



* Specifications may vary for each model.

Corrosion Resistance Black Fin

Strong Durability against high salinity and heavily polluted air

Ocean Black Fin ensures continued operation of MULTI V S in highly corrosive environments like salt concentration in coastal towns or severe air pollution in industrial cities keeps. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

Corrosion Resistance Proven by Certified Tests

LG Corrosion Resistance solution passed ISO 21207 accelerated corrosion test conducted by an independent test organization and the result has been certified by prestigious global certification organization, TUV.

Certified protection



- * Verification of corrosion resistance performance
- Declared by TUV Rheinland Test Method B of ISO21207
- + severe industrial / traffic environment (NO₂ / SO₂)

Enhanced Coating Layers

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion resistant.



Hydrophilic film (Water flow)

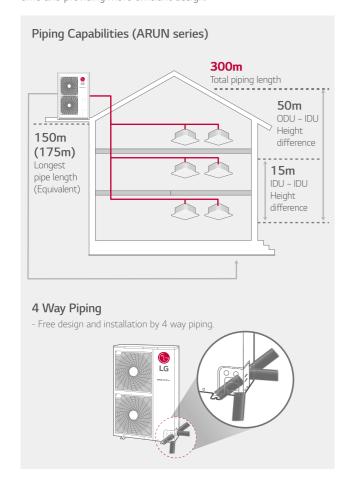
The Hydrophilic coating minimizes moisture buildup on the fin. Acryl + Epoxy + Melamine resin (Corrosion resistant) The Black coating provides strong protection from corrosion.

IMPROVED USER CONVENIENCE

Sufficient Piping Length

Increased piping length allows for flexible design and installation

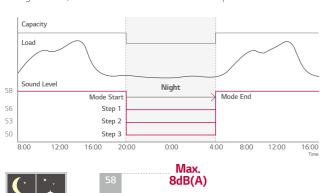
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient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

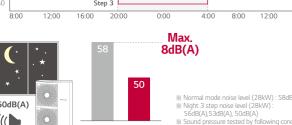


Low Noise Operation

Decreased noise during operation with low noise functionality

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





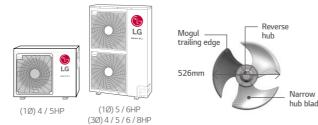
Fan Technology and RPM Control

External static pressure control for outdoor unit fan to adapt more flexibly to various installation conditions of outdoor unit

For enhanced efficiency, new axial fan boasts higher air volume, increased static pressure and decreased noise.

Fan Technology

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

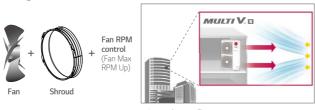


Super cannon fan increases the air volume in 50 CMM and the noise level is decreased by 4dB(A).



Fan RPM control

Flow of air is straight due to fan shroud and Fan RPM control even in high-rise building.



- Straight air flow
 - New shroud adopted
 - Performs high static pressure

Upgraded Fault Detection and Diagnosis

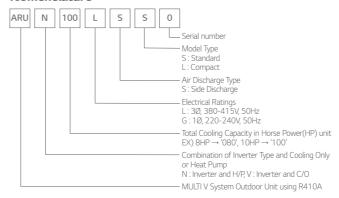
Easy and convenient maintenance with self-diagnosis

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

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



Nomenclature

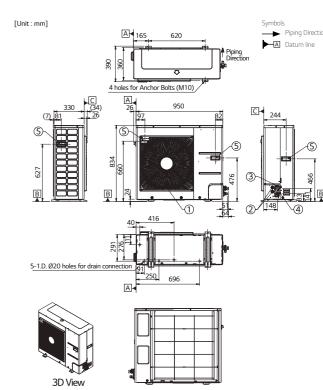


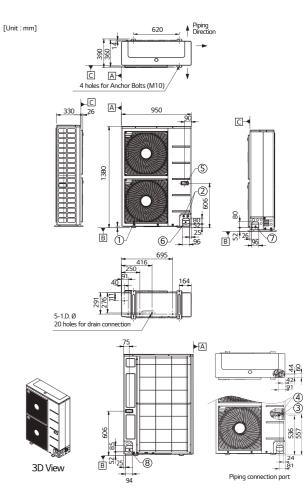
OUTDOOR UNIT _ MULTI V S _ TECHNICAL DATA

Outdoor Units Function

Category	Functions	MULTI V S
	Variable Path of Outdoor Unit HEX	-
_	HiPOR™ (High Pressure Oil Return)	-
Key Refrigerant Components	Humidity Sensor	ARUB060GSS4 on
Components	Corrosion Resistance Black Fin	0
	Oil Sensor	-
	Dual Sensing	ARUB060GSS4 on
	Low Noise Operation	0
	Hgih Static Mode of Outdoor Unit Fan	0
	Partial Defrosting	-
Special Function	Auto Dust Removal of Outdoor Unit (Fan reverse rotation)	-
	Indoor Cooling Comfort Mode Based Outdoor Temperature	0
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	0
	Outdoor Unit Control Refer to Humidity	ARUB060GSS4 on
	Defrost / Deicing	0
	High Pressure Switch	0
	Phase Protection	0
Basic Function	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	0
	Test Run Function	-
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
Central Controller	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building	ACP Lonworks	PLNWKB000
Network Unit)	ACP BACnet	PQNFB17C0
IO Module (ODU Dry C	Contact)	PVDSMN000
PDI (Power	Standard	PPWRDB000
Distribution Indicator)	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Cycle Monitoring	LGMV	PRCTIL0
Device	Mobile LGMV	PLGMVW100
Additional kit	Refrigerant Charging Kit	(Logical operation Not applied to ARUB060GSS4
	Low Ambient Kit	-
	Variable Water Flow Valve Control Kit	-

※ O : Applied, - : Not Applied





Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulation or applicable national codes.
- local regulation or applicable national codes.

 3. All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.

 5 | Handle | Pipe routing hole (front) | Pipe routing hole (side) | Pipe routing hole (back) | Pipe routing
- Electrical characteristics chapter should be considered for electrical work and design.
 Especially the power cable and circuit breake should be selected in accordance with that.

	No.	Part Name	Description
	1	Air Outlet	-
	2	Power and communication cable Hole	-
	3	Gas Pipe Connection	Welding join
	4	Liquid Pipe Connection	Welding join
	5	Handle	-
	6	Pipe routing hole (front)	-
-I	7	Pine routing hole (side)	-

MULTI V S COOLING ONLY

ARUV030GSD0 / ARUV040GSD0 ARUV050GSD5 / ARUV060GSD5





	HP		3	4	5	6
Model Name	Combination Unit		ARUV030GSD0	ARUV040GSD0	ARUV050GSD5	ARUV060GSD5
		kW	9.2	11.0	14.5	16.0
	Cooling	kcal/h	7.911	9.458	12.470	13,800
		Btu/h	31.400	37.600	49.500	54.600
Capacity (Rated)		kW		-	-	-
	Heating	kcal/h				
	ricating	Btu/h				
	Cooling	kW	2.10	2.75	3.45	4.50
Input (Rated)	Heating	kW		-		4.50
Power Factor	Rated	-	1		1	1
Casing Color	Nateu		- Warm Grav	Warm Grav	Warm Grav	Warm Grav
						,
Heat Exchanger			Wide Louver Plus Hermetic Motor	Wide Louver Plus Hermetic Motor	Wide Louver Plus	Wide Louver Plus
	Туре		Compressor	Compressor	LG Inverter Scroll	LG Inverter Scroll
	Piston Displacement	cm³/rev	24	24	31.6	31.6
	Number of Revolution	rev/min	6,600	6,600		
Compressor	Motor Output x Number	W x No.	2,137 x 1	2,137 x 1	3,198 x 1	3,198 x 1
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FW68D	FW68D
	Oil Charge		900	900	1,100	1,100
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124.0 x 1	124.0 x 1	198 x 1	198 x 1
_	A. 5. B. (11.1)	m³/min	60	60	80	80
Fan	Air Flow Rate (High)	ft³/min	2,118	2,118	2,824	2,824
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side	Side
	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Pipe Connections	Gas	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
		mm	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330
Dimensions (W x H x	D)	inch	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13
		kg	59	59	66	67
Net Weight		lbs	130	130	146	148
	Cooling	dB(A)	50	50	51	56
Sound Pressure Level	Heating	dB(A)		-		
Sound Power Level		dB(A)	-	-	-	_
	High pressure protection	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	Low pressure sensor	Low pressure sensor
Protection Devices	Compressor / Fan	-	Over-heat protection / Fan driver overload	Over-heat protection / Fan driver overload	Over-heat protection / Fan driver overload	Over-heat protection / Fan driver overload
	Inverter	-	Over-heat protection / Over-current protection	protector Over-heat protection / Over-current protection	protector Over-heat protection / Over-current protection	protector Over-heat protection / Over-current protection
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	1.0 ~ 1.5 x 2C
	Refrigerant name	(4011-20)	R410A	R410A	R410A	R410A
		kg	1.4	1.4	2.0	2.0
Refrigerant	Precharged Amount	lbs	3.1	3.1	4.4	4.4
	Control	ເມວ	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Control	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
	connectable in deen'.	⊌, v, ⊓∠	- <u>1, 220-240, 30</u> 5	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
ivuinder of maximum	connectable indoor units		5	Ö	8	9

- Note

 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions. Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions: Cooling Temperature: Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160%. (the maximum combination ratio of ARUN050GSL0 is 130%.)

- 3. The maximum combination ratio is 100%. (the maximum combination ratio of Artonio OSCIU is 130%.)

 4. Wiring cable size must comply with the applicable local and national codes.

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

 6. 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.

 7. Power factor could vary less than ±1% according to the operating conditions.

 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S HEAT PUMP

ARUN040GSS5 / ARUN050GSS5 / ARUN060GSS5



	HP		4	5	6
Model Name	Combination Unit		ARUN040GSS5	ARUN050GSS5	ARUN060GSS5
		kW	12.1	14.0	15.5
	Cooling	kcal/h	10,400	12,000	13,300
		Btu/h	41,300	47,800	52,900
Capacity (Rated)		kW	12.5	16.0	18.0
	Heating	kcal/h	10,800	13,800	15,500
		Btu/h	42,700	54,600	61,400
	Cooling	kW	3.43	3.33	3.97
nput (Rated)	Heating	kW	2.45	3.48	4.29
Power Factor	Rated	-	0.93	0.93	0.93
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Piston Displacement	cm ³ /rev	31.6	31.6	31.6
	Motor Output x Number	W x No.	3.198 x 1	3.198 x 1	3.198 x 1
Compressor	Starting Method	** X 140.	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge cc		1,100	1,100	1.100
	Туре	cc	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124 x 1	198 x 1	198 x 1
	iviotor output x rvumber	m³/min	60	80	80
an	Air Flow Rate (High)	ft ³ /min		2,824	
	D.:	1 L°/min	2,118		2,824
	Drive	C: 1 / T	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe Connections	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
<u> </u>	Gas	mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Dimensions (W x H x	D)	mm	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330
		inch	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 1
Net Weight		kg	65	72	72
		lbs	143.3	158.7	158.7
Sound Pressure Level	Cooling	dB(A)	51	57	57
	Heating	dB(A)	55	60	63
Sound Power Level		dB(A)	=	-	=
	High pressure protection	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
Protection Devices	Compressor/Fan	-	Over-heat protection / Fan driver overload protector Over-heat protection /	Over-heat protection / Fan driver overload protector Over-heat protection /	Over-heat protection / Fan driver overload protector Over-heat protection /
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
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
	Durch and A	kg	1.8	2.4	2.4
Refrigerant	Precharged Amount	lbs	4.0	5.3	5.3
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
	connectable indoor units	-1 -1	6	8	9

- 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

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 2. Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160%. (the maximum combination ratio of ARUNDSOGSL0 is 130%.)

 4. Wiring cable size must comply with the applicable local and national codes.

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

 6. 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.

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MULTI V S HEAT PUMP

ARUN040LSS5 / ARUN050LSS5 / ARUN060LSS5



	HP		4	5	6
Model Name	Combination Unit		ARUN040LSS5	ARUN050LSS5	ARUN060LSS5
		kW	12.1	14.0	15.5
	Cooling	kcal/h	10,400	12,000	13,300
	-	Btu/h	41,300	47,800	52,900
Capacity (Rated)		kW	12.5	16.0	18.0
	Heating	kcal/h	10,800	13,800	15,500
	-	Btu/h	42,700	54,600	61,400
	Cooling	kW	3.43	3.33	3.97
nput (Rated)	Heating	kW	2.45	3.48	4.29
Power Factor	Rated	-	0.93	0.93	0.93
Casing Color			Warm Gray	Warm Gray	Warm Gray
leat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Piston Displacement	cm ³ /rev	31.6	31.6	31.6
-	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1
Compressor	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	СС	1,100	1,100	1,100
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124 x 1	198 x 1	198 x 1
_	Air Flow Rate (High)	m³/min	60	80	80
an		ft³/min	2,118	2,824	2,824
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Pipe Connections	Gas	mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Simon - i	D)	mm	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330
Dimensions (W x H x	(ט	inch	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13
Nat Maiaht		kg	65	72	72
Net Weight		lbs	143.3	158.7	158.7
Sound Pressure Level	Cooling	dB(A)	51	57	57
ound Pressure Level	Heating	dB(A)	55	60	63
Sound Power Level		dB(A)	-	-	-
	High pressure protection	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
Protection Devices	Compressor/Fan	-	Over-heat protection / Fan driver overload protector	Over-heat protection / Fan driver overload protector	Over-heat protection / Fan driver overload protector
	Inverter	- 2	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
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
	Durch and America	kg	1.8	2.4	2.4
Refrigerant	Precharged Amount	lbs	4.0	5.3	5.3
	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		6	8	9

- Note

 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (86.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160%. (the maximum combination ratio of ARUN050GSL0 is 130%.)

 4. Wiring cable size must comply with the applicable local and national codes.

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

 6. 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.

 7. Power factor could vary less than ±1% according to the operating conditions.
- 7. Power factor could vary less than ±1% according to the operating conditions.

 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S HEAT PUMP

ARUN080LSS0 / ARUN100LSS0 / ARUN120LSS0



	HP		8	10	12
Model Name	Combination Unit		ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
	Cooling (Rated)	kW	22.4	28.0	33.6
Capacity	Heating (Rated)	kW	24.5	30.6	36.7
	Cooling (Rated)	kW	8.30	8.75	14.00
Input	Heating (Rated)	kW	6.62	8.12	7.46
EER			2.70	3.20	2.40
SEER			6.03	6.59	5.72
COP	Rated Capacity		3.70	3.77	4.92
SCOP			4.33	4.17	3.86
exterior	Color (General)		Warm Gray	Warm Gray	Warm Gray
exterior	RAL Code (Classic), General		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fir
	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	5,300 x 1	5,300 x 1
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	2,400	2,600	3,400
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	124 x 2	250 x 2	250 x 2
an	Air Flow Rate (High)	m³/min x No.	140 x 1	190 x 1	190 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Dina Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Pipe Connection	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Dimensions (W x H x	D)	mm x No.	(950 x 1,380 x 330) x 1	(1,090 x 1,625 x 380) x 1	(1,090 x 1,625 x 380) x 1
Dimensions (W x H x	D) - Shipping	mm x No.	(1,140 x 1,462 x 461) x 1	(1,215 x 1,795 x 500) x 1	(1,215 x 1,795 x 500) x 1
Net Weight		kg x No.	115 x 1	144 x 1	157 x 1
Shipping Weight		kg x No.	127 x 1	160 x 1	173 x 1
Sound Pressure Level	Cooling	dB(A)	57.0	58.0	60.0
Sound Pressure Level	Heating	dB(A)	57.0	58.0	60.0
Sound Power Level	Cooling	dB(A)	81.0	80.0	81.0
ound FOWEI LEVEL	Heating	dB(A)	84.0	84.0	85.0
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
Refrigerant	Precharged Amount in factory	kg	3.5	4.5	6.0
	t-CO ₂ eq		7.3	9.4	12.5
	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		13	16	20

- 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

- Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160%. (the maximum combination ratio of ARUN050GSL0 is 130%.)

 4. Wirring cable size must comply with the applicable local and national codes.

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

 6. 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.
- 7. Power factor could vary less than ±1% according to the operating conditions.

 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S HEAT RECOVERY

ARUB060GSS4



	HP		6
Model Name	Combination Unit		ARUB060GSS4
model radine	Cooling (Rated)	kW	15.5
Capacity	Heating (Rated)	kW	18.0
	Cooling (Rated)	kW	3,97
Input	Heating (Rated)	kW	4.10
EER	riedding (Nateu)		3,90
SEER			6.84
COP	Rated Capacity		4.39
SCOP	Nated Capacity		4.38
JCOF	Color		Warm Gray
Exterior	RAL Code (Classic)		RAL 7044
Hart Fredrice			
Heat Exchanger	Туре		Wide Louver Plus
	Type Combination x No.		Hermetically Sealed Scroll
•			(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,200 x 1
	Oil Type		FVC68D (PVE)
	Oil Charge	СС	1,700
	Туре		Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2
Fan	Air Flow Rate (High)	m³/min x No.	110 x 1
	Drive		DC INVERTER
	Discharge	Side / Top	Side
	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
Pipe Connection #1	Low Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)
	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)
Dimensions (W x H x	(D)	mm x No.	(950 x 1,380 x 330) x 1
Dimensions (W x H x	D) - shipping	mm x No.	(1,140 x 1,549 x 466) x 1
Net Weight		kg x No.	118 x 1
Shipping Weight		kg x No.	132 x 1
Sound Pressure Level	Cooling	dB(A)	56.0
Journa Fressure Level	Heating	dB(A)	58.0
Caused Danies Laurel	Cooling	dB(A)	76.0
Sound Power Level	Heating	dB(A)	78.0
Communication Cabl	e	mm ² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C
	Refrigerant Name		R410A
Refrigerant	Precharged Amount in factory	kg	3.5
3	t-CO ₂ eq		7.3
	Control		Electronic Expansion Valve
Power Supply		Ø, V, Hz	1, 220-240, 50
Number of Maximum	Connectable Indoor Units		13

- Note

 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions:

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 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160% (the maximum combination ratio of ARUNO50GSL0 is 130%.)

 4. Wiring cable size must comply with the applicable local and national codes.

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 7. Power factor could vary less than ±1% according to the operating conditions.

 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S

Energy Savings

Energy consumption can be reduced as indoor heat is absorbed and transferred to hot water supply.

Conventional

Absorbed heat is released to outdoor air.



MULTI V S Heat Recovery with HYDRO KIT

Absorbed heat from indoor space is used for making hot water.

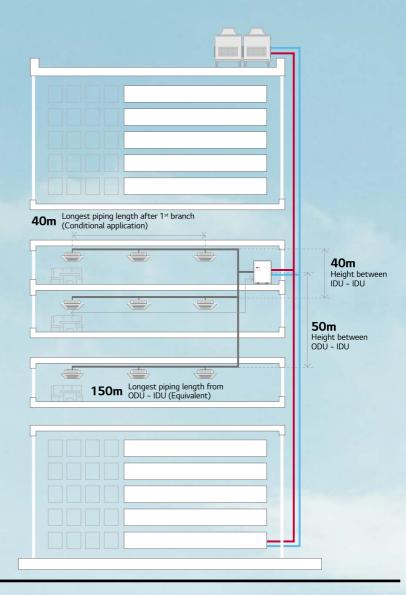


VILLTI V.... WATER IV

- Water Cooled VRF Heat Pump & Heat Recovery
- 22.4 ~ 201.6kW (Cooling capacity based)
- 3Ø, 380 ~ 415V, 50Hz
- Outdoor unit installed indoor









Energy savings







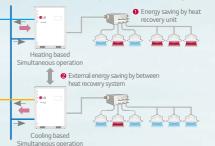
Convenient installation

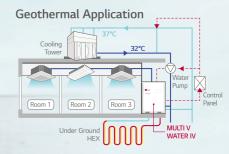
How does it work?

Operation independent of weather conditions



Available in Heat Pump & Heat Recovery Configuration

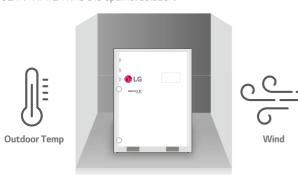




INNOVATIVE TECHNOLOGIES

High Efficiency System Regardless of **External Conditions**

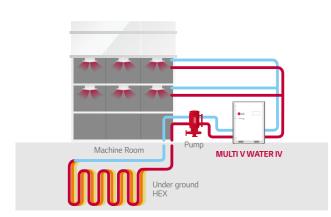
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER IV is the optimal solution.

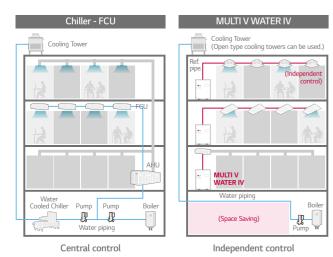


MULTI V WATER IV System for Geothermal Applications

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.





ENERGY SAVING

Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

With 4^{th} 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
- Resolve compressor efficiency loss caused by oil return

Active oil control (Oil level sensor)

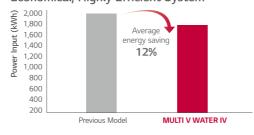
- Oil recovery operation occurs only when required
- Enhanced compressor reliability & continuous heating
- Oil distribution between compressors

Maximum COP

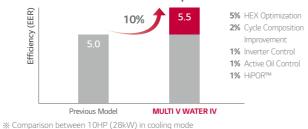


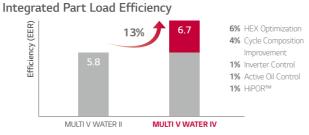
- % Outdoor unit water inlet temperature: 7°C
- Indoor temperature: 20°C DB / 15°C WBMaximum COP Condition: Cooling 40% + Heating 60% operation

Economical, Highly Efficient System



LG's 4th Generation Inverter Compressor



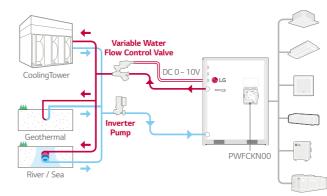


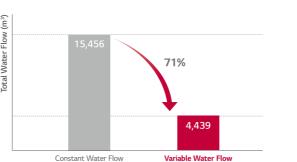
WATER SAVINGS

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.



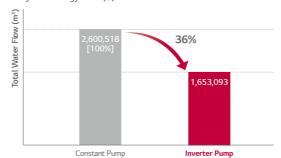


- 1. Location : Paris, France
- 3. Operation time: 1,344 hours (Cooling period)

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 (\$)



	5 y	ears	10 years		
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
- Annual power consumption rate expected to increase by 5%

FLEXIBLE DESIGN & SPACE SAVINGS

Largest Capacity

Sufficient pipe length limitation provides flexible design and installation

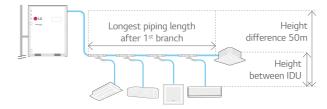
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 80HP (224kW) by combination.

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		1 U	Init				2 U				3 Units	4 Units

Longest Piping Length

Sufficient pipes length limitation in design and Installation of immense variety of building

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.



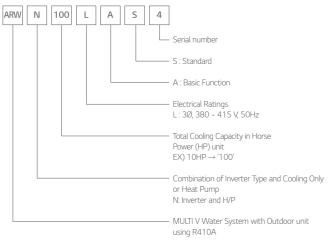
Lightweight

Nothing or Decrease additional load reinforcement work at building

Easier to transport and install thanks to 18% reduction in overall weight.



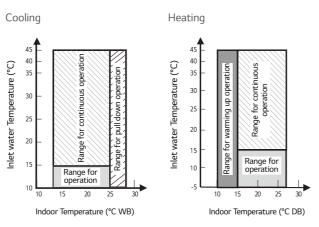
Nomenclature



Outdoor Units Function

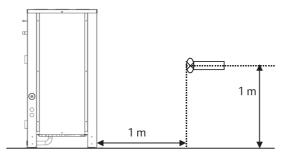
Category	Functions	MULTI V WATER IV
	Variable Path of Outdoor unit HEX	-
	HiPOR™ (High Pressure Oil Return)	0
Key Refrigerant Components	Humidity Sensor	-
Components	Corrosion Resistance Black Fin	-
	Oil Sensor	0
	Dual Sensing	-
	Low Noise Operation	-
	Hgih Static Mode of Outdoor Unit Fan	-
	Partial 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
	Phase Protection	0
Reliability	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	0
	Test Run Function	0
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
Central Controller	AC Smart 5	PACS5A000
	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 Selector		PRDSBM
Low Ambient Kit		-
IO Module (ODU Dry	Contact)	PVDSMN000
Cycle Monitoring	LGMV	PRCTIL0
Device	Mobile LGMV	PLGMVW100

Operation Limits



- These figures assume the following operating conditions:

Position of Sound Pressure Level Measuring



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

Optional Accessories

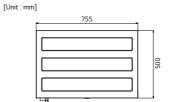
No.	Name	Model
		ARBLN01621
		ARBLN03321
1	Y branch pipe	ARBLN07121
		ARBLN14521
		ARBLN23220
		ARBL054
		ARBL057
2		ARBL104
2	Header	ARBL107
		ARBL1010
		ARBL2010
		ARCNN21
3	Connection pipe of Outdoor Units	ARCNN31
		ARCNN41

MULTI V WATER IV Heating Dissipation Value by Model

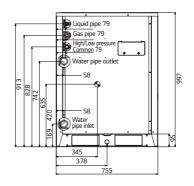
Model	HP	Heating Dissipation Value				
ARWN080LAS4	8	600 W	515.9 kcal/h	0.143 kcal/s		
ARWN100LAS4	10	630 W	541.7 kcal/h	0.150 kcal/s		
ARWN120LAS4	12	660 W	567.5 kcal/h	0.158 kcal/s		
ARWN140LAS4	14	690 W	593.3 kcal/h	0.165 kcal/s		
ARWN160LAS4	16	700 W	601.9 kcal/h	0.167 kcal/s		
ARWN180LAS4	18	720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

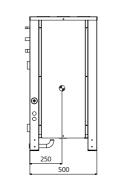
Test condition : Indoor air temperature : DB 40°C, WB : 32°C

ARWN080LAS4 / ARWN100LAS4 / ARWN140LAS4 /ARWN200LAS4

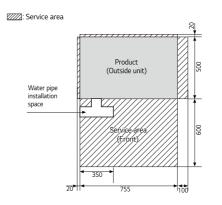




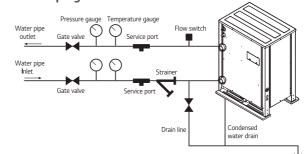




Individual Installation



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 $0 \sim 40$ °C.
- 2. Keep the water temperature between 10 ~ 45°C. 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. Ensure water purity control to avoid breakdown due to water pipe corrosion. Refer to 'Standard Table for Water Purity Control' in PDB (Product Data
- 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 flush.
- 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 recommended 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 not supplied.)
- 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%.)
- 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
- 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.

REFERENCE SITE

Bouygues Challenger

LG MULTI V WATER Solution with Geothermal Application









Site Information

The industrial group Bouyques 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 Bouyques Construction was officially opened for business. Named Challenger, the complex became a technological showcase for late 20th century architecture.

LG Solution

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

MULTI V WATER IV HEAT PUMP

ARWN080LAS4 / ARWN100LAS4 ARWN140LAS4



	HP		8	10	14
	Combination Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4
Model Name	Independent Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4
Canacity	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
СОР	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/cm²	45	45	45
	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)
ipes	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 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	Cooling	dB(A)	47.0	50.0	58.0
Pressure Level	Heating	dB(A)	51.0	53.0	57.0
Sound	Cooling	dB(A)	59.0	62.0	70.0
Power Level	Heating	dB(A)	63.0	65.0	69.0
Communication Cab	le	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	5.8	5.8	5.8
,	t-CO ₂ eq		12.1	12.1	12.1
	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 Maximu	m 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) D8 / 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 programs level is massured on the cated condition in the reverbers reports.

- 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.)

ARWN200LAS4 / ARWN160LAS4 ARWN180LAS4



	HP		20	16	18
	Combination Unit		ARWN200LAS4	ARWN160LAS4	ARWN180LAS4
Model Name	Independent Unit		ARWN200LAS4	ARWN080LAS4 ARWN080LAS4	ARWN100LAS4 ARWN080LAS4
Compositus	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
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/cm²	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)
Water Connecting	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)
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	<u> </u>	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	Cooling	dB(A)	54.0	50.0	51.8
Pressure Level	Heating	dB(A)	60.0	54.0	55.1
Sound	Cooling	dB(A)	66.0	62.0	63.8
Power Level	Heating	dB(A)	72.0	66.0	67.1
Communication Cab		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		6.3	24.2	24.2
	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 Maximur	m Connectable Indoor U	nits	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 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.)

MULTI V WATER IV HEAT PUMP

ARWN220LAS4 / ARWN240LAS4 ARWN280LAS4



	HP		22	24	28
	Combination Unit		ARWN220LAS4	ARWN240LAS4	ARWN280LAS4
Model Name	Independent Unit		ARWN140LAS4 ARWN080LAS4	ARWN140LAS4 ARWN100LAS4	ARWN140LAS4 ARWN140LAS4
Capacity	Cooling (Rated)	kW	61.6	67.2	78.4
apacity	Heating (Rated)	kW	69.3	75.6	88.2
	Cooling (Rated)	kW	11.70	12.93	15.68
nput	Heating (Rated)	kW	12.37	13.51	16.34
ER			5.26	5.20	5.00
:OP	Rated Capacity		5.60	5.60	5.40
xterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
xterior	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
leat Exchanger	Maximum Pressure Resistance	kgf/cm²	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
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)
Vater 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)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H	<u> </u>	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
let 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
ound	Cooling	dB(A)	58.3	58.6	59.0
Pressure Level	Heating	dB(A)	58.0	58.5	58.0
Sound	Cooling	dB(A)	70.3	70.6	72.0
Power Level	Heating	dB(A)	70.0	70.5	71.0
Communication Cab		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	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.6	11.6	11.6
-	t-CO ₂ eq		24.2	24.2	24.2
	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 Maximus	m Connectable Indoor U	nits	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) D8 / 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 programs level is massured on the cated condition in the reverbers reports.

- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unity 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 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



Model Name Combination Unit		HP		30	34	40	
Model Name					ARWN340LAS4		
Capacity Input Heating (Rated) kW 94.5 107.1 126.0 Input Cooling (Rated) kW 16.29 19.04 22.40 EER V 5.16 5.00 5.00 COP Rated Capacity S.56 5.40 5.40 Exterior Color Warm Gray / Morning Gray RAL 7044 / RAL 7030 RAL 7044 / RAL 7	Model Name			ARWN200LAS4	ARWN200LAS4	ARWN200LAS4	
Packing (Rated) RW 94.5 10.71 12.60 12.60 10.71 12.60		Cooling (Rated)	kW				
Heating (Rated) May May	Capacity	Heating (Rated)	kW	94.5	107.1	126.0	
FER		Cooling (Rated)	kW	16.29	19.04	22.40	
COP Rated Capacity 5.56 5.40 5.40 Exterior Color Warm Gray / Morning Gray Ref Gray / And A / RAL 7030 RAL 7044 / RAL 7030 RAL 7040 / RAL 7040 PAL 7040 / RAL 7040 <	Input	Heating (Rated)	kW	17.01	19.84	23.34	
Exterior RAL Code (Classic) RAL 7044 / RAL 7030 RAL 7044 /	EER			5.16	5.00	5.00	
RAL Code (Classic) RAL 7044 / RAL 7030 RAL 7044 / RAL 7040	СОР	Rated Capacity		5.56	5.40	5.40	
RAL Code (Classic)	Futanian	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray	
Heat Exchanger Maximum Pressure Resistance Resistance Head Loss kPa 30.1 + 15.8 30.1 + 28.6 30.1 + 30.1 Rade Uses kPa 30.1 + 15.8 30.1 + 28.6 30.1 + 30.1 Rapad Water Flow LPM 192 + 96 192 + 135 192 + 192 Combination x No. (Inverter) x 2 (Inverter) x 2 (Inverter) x 2 (Inverter) x 2 Motor Output x Norr Norr Norr Norr Norr Norr Norr No	Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
Heat Exchange Head Loss Relations Pala Solution Related Water Flow LPM 192 + 96 192 + 135 192 + 192 192 193 192 + 192 193 192 + 193 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 193 + 193 + 193 193 +		Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
Rated Water Flow LPM 192 + 96 192 + 135 192 + 192 192	Heat Exchanger		kgf/cm²	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 (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 Walk mind to the proper to the properties of the properties		Rated Water Flow	LPM	192 + 96	192 + 135	192 + 192	
Compressor Motor Output x Number W x No. Number 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) FVC68D (PVE) Oil Charge cc 5,800 5,800 6,000 Refrigerant Connecting Pipes Liquid Pipe mm (inch) Ø19.05 (3/4) Ø19.05 (3/4) Ø19.05 (3/4) Water Connecting Pipes Inlet A (inch) 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) Ø3.49 (1-3/8) Ø4.17 (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) 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) + 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) + 40A (PT 1-1/2) (Internal Thread)		Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
Number NV N N N N N N N N N N N N N N N N N		Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	
Dil Charge Cc S,800 S,800 S,800 G,000	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 (3/4) Ø19.05 (3/4) Water Connecting Pipes Inlet A (inch) Ø34.9 (1-3/8) Ø34.9 (1-3/8) Ø44.3 (1-5/8) Water Connecting Pipes 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) (PT 1-1/2) (Int		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) Water Connecting Pipes 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 Threa		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) (Internal Thread) (Internal Thread) (Internal Thread) 40A (PT 1-1/2) + 40A (PT 1-1/2) 40A (PT 1-1/2) + 40A (PT 1-1	Connecting Pipes	Gas Pipe	mm (inch)				
Pipes Outlet A (inch) 40A (FT 1-7)2 + 40A (FT 1-7)2	Water Connecting	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 (804 x 1,140				(Internal Thread)	(Internal Thread)	(Internal Thread)	
Dimensions (W x H x D) - Shipping mm x No. (804 x 1,143 x 630) x 2 (Drain Outlet	A (inch)				
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) 55.5 59.0 55.0 Sound Power Level Cooling dB(A) 67.5 72.0 68.0 Power Level Heating dB(A) 72.8 74.0 74.0 Communication Cable Refrigerant Name R410A R410A R410A R410A Refrigerant Name R410A R410A R410A R410A Frecharged Amount in Factory kg 8.8 8.8 6.0 t-CO ₂ eq 18.4 18.4 12.5	•	<u> </u>					
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) 55.5 59.0 55.0 Sound Power Level Cooling dB(A) 67.5 72.0 68.0 Power Level Heating dB(A) 72.8 74.0 74.0 Communication Cable Refrigerant Name R410A R410A R410A R410A Refrigerant Name R410A R410A R410A R410A Frecharged Amount in Factory kg 8.8 8.8 6.0 1c-CO ₂ eq 18.4 18.4 12.5	· · · · · · · · · · · · · · · · · · ·	x D) - Shipping					
Sound Pressure Level Cooling dB(A) 55.5 59.0 55.0 Sound Power Level Cooling dB(A) 60.8 61.0 61.0 Power Level Heating dB(A) 67.5 72.0 68.0 Power Level Heating dB(A) 72.8 74.0 74.0 Communication Cable Refrigerant Name R410A R410A R410A R410A Refrigerant Name R410A R410A R410A R410A Frecharged Amount in Factory kg 8.8 8.8 6.0 1c-CO ₂ eq 18.4 18.4 12.5							
Pressure Level Heating dB(A) 60.8 61.0 61.0 Sound Power Level Cooling dB(A) 67.5 72.0 68.0 Power Level Heating dB(A) 72.8 74.0 74.0 Communication Cable Refrigerant Name R410A R410A R410A R410A Refrigerant Name R410A R410A R410A R410A R410A Refrigerant Name R410A R410A R410A R410A R410A Refrigerant Name R410A R410A R410A R410A R410A	Shipping Weight						
Sound Power Level Cooling dB(A) 67.5 72.0 68.0 Communication Cable Heating dB(A) 72.8 74.0 74.0 Refrigerant Name R410A R410A R410A R410A Refrigerant Name R410A R410A R410A Refrigerant Name R410A R410A R410A Refrigerant Name R410A R410A R410A R410A R410A R410A R410A							
Power Level Heating dB(A) 72.8 74.0 74.0 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 8.8 8.8 6.0 t-CO₂eq 18.4 18.4 12.5	Pressure Level						
Communication Cable Refrigerant Name R410A R410A <th col<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
No - 1.5 x 2C 1.0 x 2C 1.	Power Level	Heating		72.8	74.0	74.0	
Refrigerant Frecharged Amount in Factory kg 8.8 8.8 6.0 t-CO ₂ eq 18.4 18.4 12.5	Communication Cab						
Refrigerant Factory kg 6.8 6.9 t-CO ₂ eq 18.4 18.4 12.5				R410A	R410A	R410A	
	Refrigerant	Factory	kg				
Control Electronic Evpansion Valvo Electronic Evpansion Valvo Electronic Evpansion Valvo	-	t-CO ₂ eq		18.4	18.4	12.5	
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 Maximur	m Connectable Indoor U	nits	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 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 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 (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V WATER IV HEAT PUMP

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
C	Cooling (Rated)	kW	117.6	123.2	134.4
Capacity	Heating (Rated)	kW	132.3	138.6	151.2
t	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
СОР	Rated Capacity		5.50	5.50	5.40
F. 4	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
	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	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)
Natar Cannastina	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		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 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 Level	Cooling	dB(A)	59.7	59.9	60.0
	Heating	dB(A)	62.1	62.3	62.0
Sound	Cooling	dB(A)	71.7	71.9	74.0
Power Level	Heating	dB(A)	74.1	74.3	76.0
Communication Cab	le	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	14.6	14.6	14.6
geruit	t-CO ₂ eq		30.5	30.5	30.5
	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 Maximus	m Connectable Indoor l	Jnits	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) D8 / 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 programs level is massured on the cated condition in the reverbers reports.

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

ARWN500LAS4 / ARWN540LAS4 ARWN600LAS4



	HP		50	54	60
	Combination Unit		ARWN500LAS4	ARWN540LAS4	ARWN600LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
C	Cooling (Rated)	kW	140.0	151.2	168.0
Capacity	Heating (Rated)	kW	157.5	170.1	189.0
I	Cooling (Rated)	kW	27.49	30.24	33.60
Input	Heating (Rated)	kW	28.68	31.51	35.01
EER			5.09	5.00	5.00
СОР	Rated Capacity		5.49	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
-	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		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)
Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Water Connecting	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)
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	<u> </u>	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	Cooling	dB(A)	57.8	60.0	56.0
Pressure Level	Heating	dB(A)	63.4	62.0	62.0
Sound	Cooling	dB(A)	69.8	74.0	70.0
Power Level	Heating	dB(A)	75.4	76.0	76.0
Communication Cab		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		24.6	24.6	18.8
	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 Maximur	m Connectable Indoor Ui	nits	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. 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.)

MULTI V WATER IV HEAT PUMP

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
	Cooling (Rated)	kW	173.6	179.2	190.4
Capacity	Heating (Rated)	kW	195.3	201.6	214.2
	Cooling (Rated)	kW	34.10	35.33	38.08
nput	Heating (Rated)	kW	35.71	36.85	39.68
ER			5.09	5.07	5.00
OP	Rated Capacity		5.47	5.47	5.40
	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
xterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
leat 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.	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
	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)
Natau Canacatina	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)
Nater 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		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
Vet Weight		kg x No.	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 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	Cooling	dB(A)	60.7	60.9	61.0
Pressure Level	Heating	dB(A)	64.2	64.3	63.0
Sound	Cooling	dB(A)	72.7	72.9	75.0
Power Level	Heating	dB(A)	76.2	76.3	77.0
Communication Cab		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	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	17.6	17.6	17.6
	t-CO ₂ eq		36.7	36.7	36.7
	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 Maximus	m Connectable Indoor Ui	nits	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) D8 / 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 programs level is massured on the cated condition in the reverbers reports.

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

ARWN700LAS4 / ARWN740LAS4 ARWN800LAS4



	HP		70	74	80
	Combination Unit		ARWN700LAS4	ARWN740LAS4	ARWN800LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 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
СОР	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
-	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
	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)
	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	Cooling	dB(A)	59.3	61.0	57.0
Pressure Level	Heating	dB(A)	65.1	63.0	63.0
Sound	Cooling	dB(A)	71.3	75.0	71.0
Power Level	Heating	dB(A)	77.1	77.0	77.0
Communication Cab	le	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		30.9	30.9	25.1
	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 Maximus	m Connectable Indoor U	nits 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 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 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 RECOVERY

ARWB080LAS4 / ARWB100LAS4 ARWB140LAS4



	HP		8	10	14
	Combination Unit		ARWB080LAS4	ARWB100LAS4	ARWB140LAS4
Model Name	Independent Unit		ARWB080LAS4	ARWB100LAS4	ARWB140LAS4
*	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
nput	Heating (Rated)	kW	4.20	5.34	8.17
ER			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
xterior	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
leat Exchanger	Maximum Pressure Resistance	kgf/cm²	45	45	45
,	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	CC	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)
onnecening i ipes	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)
Vater 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)
ipes	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
imensions (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
let 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	Cooling	dB(A)	47.0	50.0	58.0
ressure Level	Heating	dB(A)	51.0	53.0	57.0
Sound	Cooling	dB(A)	59.0	62.0	70.0
Power Level	Heating	dB(A)	63.0	65.0	69.0
Communication Cab	le	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	5.8	5.8	5.8
3	t-CO ₂ eq		12.1	12.1	12.1
	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 Maximus	m Connectable Indoor Ur	nits 1)	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) D8 / 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 programs level is massured on the cated condition in the reverbers reports.

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

ARWB200LAS4 / ARWB160LAS4 ARWB180LAS4



	HP		20	16	18
	Combination Unit		ARWB200LAS4	ARWB160LAS4	ARWB180LAS4
Model Name	Independent Unit		ARWB200LAS4	ARWB080LAS4 ARWB080LAS4	ARWB100LAS4 ARWB080LAS4
C	Cooling (Rated)	kW	56.0	44.8	50.4
Capacity	Heating (Rated)	kW	63.0	50.4	56.7
It	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
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/cm²	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 × 2	4,200 x 2
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	СС	3,000	5,600	5,600
D. C	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
Refrigerant 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)
M	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		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	Cooling	dB(A)	54.0	50.0	52.0
Pressure Level	Heating	dB(A)	60.0	54.0	55.0
Sound Power Level	Cooling	dB(A)	66.0	62.0	64.0
rower Level	Heating	dB(A) mm² x No.	72.0	66.0	67.0
Communication Cab	le	(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		6.3	24.2	24.2
	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 Maximus	m Connectable Indoor Ui	nits	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 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 (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V WATER IV HEAT RECOVERY

ARWB220LAS4 / ARWB240LAS4 ARWB280LAS4



	HP		22	24	28
	Combination Unit		ARWB220LAS4	ARWB240LAS4	ARWB280LAS4
Model Name	Independent Unit		ARWB140LAS4 ARWB080LAS4	ARWB140LAS4 ARWB100LAS4	ARWB140LAS4 ARWB140LAS4
Canacity	Cooling (Rated)	kW	61.6	67.2	78.4
Capacity	Heating (Rated)	kW	69.3	75.6	88.2
_	Cooling (Rated)	kW	11.70	12.93	15.68
nput	Heating (Rated)	kW	12.37	13.51	16.34
ER			5.26	5.20	5.00
OP	Rated Capacity		5.60	5.60	5.40
	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
xterior	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
leat Exchanger	Maximum Pressure Resistance	kgf/cm²	45	45	45
unger	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)
onnecting ripes	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)
Nater 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 Thread)
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
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
let 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	Cooling	dB(A)	58.0	59.0	59.0
Pressure Level	Heating	dB(A)	58.0	58.0	58.0
Sound	Cooling	dB(A)	70.0	71.0	72.0
Power Level	Heating	dB(A)	70.0	70.0	71.0
Communication Cab	le	mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.6	11.6	11.6
-	t-CO ₂ eq		24.2	24.2	24.2
	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
Mumber of Mavimus	n Connectable Indoor Ur	nits	35 (44)	39 (48)	45 (56)

- 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, Vater inlet temp 20°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.

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

ARWB300LAS4 / ARWB340LAS4 ARWB400LAS4



	HP		30	34	40
	Combination Unit		ARWB300LAS4	ARWB340LAS4	ARWB400LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4
Conneitu	Cooling (Rated)	kW	84.0	95.2	112.0
Capacity	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
LXCELIOI	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
-	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
D-6::	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)	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)
Weter Connection	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 Thread)
Dimensions (W x H		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)	55.0	59.0	55.0
Pressure Level	Heating	dB(A)	61.0	61.0	61.0
Sound Power Level	Cooling	dB(A)	67.0	72.0	68.0
Fower Level	Heating	dB(A) mm² x No.	73.0	74.0	74.0
Communication Cab		(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		18.4	18.4	12.5
	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 Maximur	n Connectable Indoor Ur	nits	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 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 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 RECOVERY

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
Capacity	Cooling (Rated)	kW	117.6	123.2	134.4
	Heating (Rated)	kW	132.3	138.6	151.2
_	Cooling (Rated)	kW	22.9	24.13	26.88
nput	Heating (Rated)	kW	24.04	25.18	28.01
EER			5.14	5.11	5.00
СОР	Rated Capacity		5.50	5.50	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/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	СС	8,600	8,600	8,600
	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)	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)
Water Connecting	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)
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 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	Cooling	dB(A)	60.0	60.0	60.0
Pressure Level	Heating	dB(A)	62.0	62.0	62.0
Sound	Cooling	dB(A)	72.0	72.0	74.0
Power Level	Heating	dB(A)	74.0	74.0	76.0
		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	14.6	14.6	14.6
	t-CO ₂ eq		30.5	30.5	30.5
	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 Maximu	m Connectable Indoor U	nits	64	64	64

- 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 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. 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.

 - Sound procured party is prospured on the actor condition in the appeals are processed by 150 3745. Extending the complete process by 150 3745.

- A. 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.)

ARWB500LAS4 / ARWB540LAS4 ARWB600LAS4



	HP		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
	Heating (Rated)	kW	157.5	170.1	189.0
_	Cooling (Rated)	kW	27.49	30.24	33.60
Input	Heating (Rated)	kW	28.68	31.51	35.01
EER			5.09	5.00	5.00
СОР	Rated Capacity		5.49	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
-	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		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	8,800	8,800	9,000
D. 6.:	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)
Water Connecting	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)
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	· · · · · · · · · · · · · · · · · · ·	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 × 1,143 × 630) × 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 Level	Cooling	dB(A)	58.0	60.0	56.0
	Heating	dB(A)	63.0	62.0	62.0
Sound Power Level	Cooling	dB(A)	70.0	74.0	70.0
i ower Level	Heating	dB(A)	75.0	76.0	76.0
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	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.8	11.8	9.0
	t-CO ₂ eq		24.6	24.6	18.8
	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 Maximus	m Connectable Indoor Ur	nits	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. 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.)

MULTI V WATER IV HEAT RECOVERY

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
	Cooling (Rated)	kW	173.6	179.2	190.4
Capacity	Heating (Rated)	kW	195.3	201.6	214.2
	Cooling (Rated)	kW	34.10	35.33	38.08
nput	Heating (Rated)	kW	35.71	36.85	39.68
ER			5.09	5.07	5.00
COP	Rated Capacity		5.47	5.47	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
,	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
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	11,600	11,600	11,600
- 6.	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)
gpas	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 1-1/2) + 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
Vet Weight		kg x No.	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 × 2) + (127 × 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	Cooling	dB(A)	61.0	61.0	61.0
Pressure Level	Heating	dB(A)	64.0	64.0	63.0
Sound	Cooling	dB(A)	73.0	73.0	75.0
Power Level	Heating	dB(A)	76.0	76.0	77.0
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
Refrigerant	Precharged Amount in Factory	kg	17.6	17.6	17.6
-	t-CO ₂ eq		36.7	36.7	36.7
	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 Maximus	m Connectable Indoor Ui	nits	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) D8 / 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 programs level is massured on the cated condition in the reverbers reports.

- 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.)

ARWB700LAS4 / ARWB740LAS4 ARWB800LAS4



	HP		70	74	80
	Combination Unit		ARWB700LAS4	ARWB740LAS4	ARWB800LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4
	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
СОР	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/cm ²	45	45	45
ac Exchange	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
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	11,800	11,800	12,000
- 61	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)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
connecting ripes	High Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	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 1-1/2) + 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 × 1,143 × 630) × 4	(804 x 1,143 x 630) x 4
Net Weight		kg x No.	(140 × 3) + (127 × 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	Cooling	dB(A)	59.0	61.0	57.0
Pressure Level	Heating	dB(A)	65.0	63.0	63.0
Sound	Cooling	dB(A)	71.0	75.0	71.0
Power Level	Heating	dB(A)	77.0	77.0	77.0
$ \begin{array}{c} \textbf{Communication Cable} & & \text{mm}^2 \textbf{x} \text{No.} \\ (\text{VCTF-SB}) & & \end{array} $		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	14.8	14.8	12.0
	t-CO ₂ eq		30.9	30.9	25.1
	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 Maximus	m Connectable Indoor Ur	nits	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. 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.)

NOTE	