

# REFERENCE SITE

## Bouygues Challenger

LG MULTI V WATER Solution with Geothermal Application



### Site Information

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

### LG Solution

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

# MULTI V WATER IV HEAT PUMP

ARWN080LAS4 / ARWN100LAS4  
ARWN140LAS4



		HP	8	10	14
<b>Model Name</b>	Combination Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4
	Independent Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4
<b>Capacity</b>	Cooling (Rated) kW		22.4	28.0	39.2
	Heating (Rated) kW		25.2	31.5	44.1
<b>Input</b>	Cooling (Rated) kW		3.86	5.09	7.84
	Heating (Rated) kW		4.2	5.34	8.17
<b>EER</b>			5.80	5.50	5.00
<b>COP</b>	Rated Capacity		6.00	5.90	5.40
<b>Exterior</b>	Color		Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
<b>Heat Exchanger</b>	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	10.7	15.8	28.6
	Rated Water Flow	LPM	77	96	135
<b>Compressor</b>	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	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)
<b>Refrigerant</b>	Liquid Pipe	mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Gas Pipe	mm (inch)	Ø 22.2 (7/8)	Ø 22.2 (7/8)	Ø 25.4 (1)
<b>Connecting Pipes</b>	Inlet	A (inch)	40A(PT 1-1/2) (Internal Thread)	40A(PT 1-1/2) (Internal Thread)	40A(PT 1-1/2) (Internal Thread)
	Outlet	A (inch)	40A(PT 1-1/2) (Internal Thread)	40A(PT 1-1/2) (Internal Thread)	40A(PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A(PT 3/4) (External Thread)	20A(PT 3/4) (External Thread)	20A(PT 3/4) (External Thread)
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	127 x 1	127 x 1	127 x 1	
<b>Shipping Weight</b>	kg x No.	137 x 1	137 x 1	137 x 1	
<b>Sound Pressure Level</b>	Cooling	dB(A)	47.0	50.0	58.0
	Heating	dB(A)	51.0	53.0	57.0
<b>Sound Power Level</b>	Cooling	dB(A)	59.0	62.0	70.0
	Heating	dB(A)	63.0	65.0	69.0
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)		1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	5.8	5.8	5.8
	t-CO <sub>2</sub> eq.		12.1	12.1	12.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	Ø, V, Hz		3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>			13 (20)	16 (25)	23 (35)

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination(160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification  
 3. Performances are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)  
 - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 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)  
 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

ARWN200LAS4 / ARWN160LAS4  
ARWN180LAS4



HP		20	16	18	
<b>Model Name</b>	Combination Unit	ARWN200LAS4	ARWN160LAS4	ARWN180LAS4	
	Independent Unit	ARWN200LAS4	ARWN080LAS4 ARWN080LAS4	ARWN100LAS4 ARWN080LAS4	
<b>Capacity</b>	Cooling (Rated) kW	56.0	44.8	50.4	
	Heating (Rated) kW	63.0	50.4	56.7	
<b>Input</b>	Cooling (Rated) kW	11.20	7.72	8.95	
	Heating (Rated) kW	11.67	8.40	9.54	
<b>EER</b>		5.00	5.80	5.63	
<b>COP</b>	Rated Capacity	5.40	6.00	5.94	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	
	Head Loss	kPa	30.1	10.7 + 10.7	15.8 + 10.7
	Rated Water Flow	LPM	192	77 + 77	96 + 77
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
<b>Compressor</b>	Combination x No.	(Inverter) x 1	(Inverter) x 2	(Inverter) x 2	
	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	cc	3,000	5,600	5,600
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 12.7 (1/2)
	Gas Pipe	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)
<b>Water Connecting Pipes</b>	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)
	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)
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	140 x 1	127 x 2	127 x 2	
<b>Shipping Weight</b>	kg x No.	150 x 1	137 x 2	137 x 2	
<b>Sound Pressure Level</b>	Cooling	dB(A)	54.0	50.0	51.8
	Heating	dB(A)	60.0	54.0	55.1
<b>Sound Power Level</b>	Cooling	dB(A)	66.0	62.0	63.8
	Heating	dB(A)	72.0	66.0	67.1
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	3.0	11.6	11.6
	t-CO <sub>2</sub> eq.		6.3	24.2	24.2
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		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)  
 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	
<b>Model Name</b>	Combination Unit	ARWN220LAS4	ARWN240LAS4	ARWN280LAS4	
	Independent Unit	ARWN140LAS4 ARWN080LAS4	ARWN140LAS4 ARWN100LAS4	ARWN140LAS4 ARWN140LAS4	
<b>Capacity</b>	Cooling (Rated) kW	61.6	67.2	78.4	
	Heating (Rated) kW	69.3	75.6	88.2	
<b>Input</b>	Cooling (Rated) kW	11.70	12.93	15.68	
	Heating (Rated) kW	12.37	13.51	16.34	
<b>EER</b>		5.26	5.20	5.00	
<b>COP</b>	Rated Capacity	5.60	5.60	5.40	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
<b>Compressor</b>	Combination x No.	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	
	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	cc	5,600	5,600	5,600
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
	Gas Pipe	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
<b>Water Connecting Pipes</b>	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)
	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)
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	127 x 2	127 x 2	127 x 2	
<b>Shipping Weight</b>	kg x No.	137 x 2	137 x 2	137 x 2	
<b>Sound Pressure Level</b>	Cooling	dB(A)	58.3	58.6	59.0
	Heating	dB(A)	58.0	58.5	58.0
<b>Sound Power Level</b>	Cooling	dB(A)	70.3	70.6	72.0
	Heating	dB(A)	70.0	70.5	71.0
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.6	11.6	11.6
	t-CO <sub>2</sub> eq.		24.2	24.2	24.2
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		35 (44)	39 (48)	45 (56)	

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination(160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification  
 3. Performances are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)  
 - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 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)  
 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		30	34	40	
<b>Model Name</b>	Combination Unit	ARWN300LAS4	ARWN340LAS4	ARWN400LAS4	
	Independent Unit	ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4	
<b>Capacity</b>	Cooling (Rated) kW	84.0	95.2	112.0	
	Heating (Rated) kW	94.5	107.1	126.0	
<b>Input</b>	Cooling (Rated) kW	16.29	19.04	22.40	
	Heating (Rated) kW	17.01	19.84	23.34	
<b>EER</b>		5.16	5.00	5.00	
<b>COP</b>	Rated Capacity	5.56	5.40	5.40	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
<b>Compressor</b>	Combination x No.	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	
	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	cc	5,800	5,800	6,000
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
	Gas Pipe	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)	Ø 41.3 (1-5/8)
<b>Water Connecting Pipes</b>	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)
	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)
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	(140 x 1) + (127 x 1)	(140 x 1) + (127 x 1)	140 x 2	
<b>Shipping Weight</b>	kg x No.	(150 x 1) + (137 x 1)	(150 x 1) + (137 x 1)	150 x 2	
<b>Sound Pressure Level</b>	Cooling	dB(A)	55.5	59.0	55.0
	Heating	dB(A)	60.8	61.0	61.0
<b>Sound Power Level</b>	Cooling	dB(A)	67.5	72.0	68.0
	Heating	dB(A)	72.8	74.0	74.0
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	8.8	8.8	6.0
	t-CO <sub>2</sub> eq.		18.4	18.4	12.5
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		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)  
 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

ARWN420LAS4 / ARWN440LAS4  
ARWN480LAS4



HP		42	44	48	
<b>Model Name</b>	Combination Unit	ARWN420LAS4	ARWN440LAS4	ARWN480LAS4	
	Independent Unit	ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN140LAS4 ARWN100LAS4	ARWN200LAS4 ARWN140LAS4 ARWN140LAS4	
<b>Capacity</b>	Cooling (Rated) kW	117.6	123.2	134.4	
	Heating (Rated) kW	132.3	138.6	151.2	
<b>Input</b>	Cooling (Rated) kW	22.9	24.13	26.88	
	Heating (Rated) kW	24.04	25.18	28.01	
<b>EER</b>		5.14	5.11	5.00	
<b>COP</b>	Rated Capacity	5.50	5.50	5.40	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
<b>Compressor</b>	Combination x No.	(Inverter) x 3	(Inverter) x 3	(Inverter) x 3	
	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	8,600	8,600	8,600
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
	Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
<b>Water Connecting Pipes</b>	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)
	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)
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	(140 x 1) + (127 X 2)	(140 x 1) + (127 X 2)	(140 x 1) + (127 X 2)	
<b>Shipping Weight</b>	kg x No.	(150 x 1) + (137 X 2)	(150 x 1) + (137 X 2)	(150 x 1) + (137 X 2)	
<b>Sound Pressure Level</b>	Cooling	dB(A)	59.7	59.9	60.0
	Heating	dB(A)	62.1	62.3	62.0
<b>Sound Power Level</b>	Cooling	dB(A)	71.7	71.9	74.0
	Heating	dB(A)	74.1	74.3	76.0
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	14.6	14.6	14.6
	t-CO <sub>2</sub> eq.		30.5	30.5	30.5
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		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)  
 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

ARWN500LAS4 / ARWN540LAS4  
ARWN600LAS4



HP		50	54	60	
<b>Model Name</b>	Combination Unit	ARWN500LAS4	ARWN540LAS4	ARWN600LAS4	
	Independent Unit	ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4	
<b>Capacity</b>	Cooling (Rated) kW	140.0	151.2	168.0	
	Heating (Rated) kW	157.5	170.1	189.0	
<b>Input</b>	Cooling (Rated) kW	27.49	30.24	33.60	
	Heating (Rated) kW	28.68	31.51	35.01	
<b>EER</b>		5.09	5.00	5.00	
<b>COP</b>	Rated Capacity	5.49	5.40	5.40	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
<b>Compressor</b>	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Combination x No.	(Inverter) x 3	(Inverter) x 3	(Inverter) x 3	
	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)	
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	
	Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)	
<b>Water Connecting Pipes</b>	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)	
	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)	
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	(140 x 2) + (127 x 1)	(140 x 2) + (127 x 1)	140 x 3	
<b>Shipping Weight</b>	kg x No.	(150 x 2) + (137 x 1)	(150 x 2) + (137 x 1)	150 x 3	
<b>Sound Pressure Level</b>	Cooling	dB(A)	57.8	60.0	
	Heating	dB(A)	63.4	62.0	
<b>Sound Power Level</b>	Cooling	dB(A)	69.8	74.0	
	Heating	dB(A)	75.4	76.0	
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name	R410A	R410A	R410A	
	Precharged Amount in Factory	kg	11.8	11.8	
	t-CO <sub>2</sub> eq.		24.6	24.6	
	Control	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		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)  
 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	
<b>Model Name</b>	Combination Unit	ARWN620LAS4	ARWN640LAS4	ARWN680LAS4	
	Independent Unit	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN140LAS4	
<b>Capacity</b>	Cooling (Rated) kW	173.6	179.2	190.4	
	Heating (Rated) kW	195.3	201.6	214.2	
<b>Input</b>	Cooling (Rated) kW	34.10	35.33	38.08	
	Heating (Rated) kW	35.71	36.85	39.68	
<b>EER</b>		5.09	5.07	5.00	
<b>COP</b>	Rated Capacity	5.47	5.47	5.40	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
<b>Compressor</b>	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Combination x No.	(Inverter) x 4	(Inverter) x 4	(Inverter) x 4	
	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)	
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 22.2 (7/8)	Ø 22.2 (7/8)	
	Gas Pipe	mm (inch)	Ø 44.5 (1-3/4)	Ø 44.5 (1-3/4)	
<b>Water Connecting Pipes</b>	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)	
	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)	
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	
<b>Shipping Weight</b>	kg x No.	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)	
<b>Sound Pressure Level</b>	Cooling	dB(A)	60.7	60.9	
	Heating	dB(A)	64.2	64.3	
<b>Sound Power Level</b>	Cooling	dB(A)	72.7	72.9	
	Heating	dB(A)	76.2	76.3	
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name	R410A	R410A	R410A	
	Precharged Amount in Factory	kg	17.6	17.6	
	t-CO <sub>2</sub> eq.		36.7	36.7	
	Control	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		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)  
 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

ARWN700LAS4 / ARWN740LAS4  
ARWN800LAS4



HP		70	74	80	
Model Name	Combination Unit	ARWN700LAS4	ARWN740LAS4	ARWN800LAS4	
	Independent Unit	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN200LAS4	
Capacity	Cooling (Rated) kW	196.0	207.2	224.0	
	Heating (Rated) kW	220.5	233.1	252.0	
Input	Cooling (Rated) kW	38.69	41.44	44.80	
	Heating (Rated) kW	40.35	43.18	46.68	
EER		5.07	5.00	5.00	
COP	Rated Capacity	5.46	5.40	5.40	
Exterior	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Combination x No.	(Inverter) x 4	(Inverter) x 4	(Inverter) x 4	
	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)	
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø 22.2 (7/8)	Ø 22.2 (7/8)	
	Gas Pipe	mm (inch)	Ø 53.98 (2-1/8)	Ø 53.98 (2-1/8)	
Water Connecting Pipes	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)	
	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)	
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	
	Dimensions (W x H x D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Dimensions (W x H x D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	
Net Weight	kg x No.	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4	
Shipping Weight	kg x No.	(150 x 3) + (137 x 1)	(150 x 3) + (137 x 1)	150 x 4	
Sound Pressure Level	Cooling	dB(A)	59.3	61.0	
	Heating	dB(A)	65.1	63.0	
Sound Power Level	Cooling	dB(A)	71.3	75.0	
	Heating	dB(A)	77.1	77.0	
Communication Cable	mm <sup>2</sup> 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	
	Precharged Amount in Factory	kg	14.8	14.8	
	t-CO <sub>2</sub> eq.		30.9	25.1	
	Control		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 <sup>1)</sup>		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)  
 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
Model Name	Combination Unit	ARWB080LAS4	ARWB100LAS4	ARWB140LAS4
	Independent Unit	ARWB080LAS4	ARWB100LAS4	ARWB140LAS4
Capacity	Cooling (Rated) kW	22.4	28.0	39.2
	Heating (Rated) kW	25.2	31.5	44.1
Input	Cooling (Rated) kW	3.86	5.09	7.84
	Heating (Rated) kW	4.20	5.34	8.17
EER		5.80	5.50	5.00
COP	Rated Capacity	6.00	5.90	5.40
Exterior	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45
	Head Loss	kPa	10.7	15.8
	Rated Water Flow	LPM	77	96
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1	4,200 x 1
	Oil Type	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Low Pressure Gas Pipe	mm (inch)	Ø 22.2 (7/8)	Ø 25.4 (1)
	High Pressure Gas Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
Water Connecting Pipes	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x D)	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Dimensions (W x H x D) - Shipping	mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1
Net Weight	kg x No.	127 x 1	127 x 1	127 x 1
Shipping Weight	kg x No.	137 x 1	137 x 1	137 x 1
Sound Pressure Level	Cooling	dB(A)	47.0	58.0
	Heating	dB(A)	51.0	57.0
Sound Power Level	Cooling	dB(A)	59.0	70.0
	Heating	dB(A)	63.0	69.0
Communication Cable	mm <sup>2</sup> 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
	Precharged Amount in Factory	kg	5.8	5.8
	t-CO <sub>2</sub> eq.		12.1	12.1
	Control		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 <sup>1)</sup>		13 (20)	16 (25)	23 (35)

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination(160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification  
 3. Performances are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)  
 - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 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)  
 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

ARWB200LAS4 / ARWB160LAS4  
ARWB180LAS4



HP		20	16	18	
<b>Model Name</b>	Combination Unit	ARWB200LAS4	ARWB160LAS4	ARWB180LAS4	
	Independent Unit	ARWB200LAS4	ARWB080LAS4 ARWB080LAS4	ARWB100LAS4 ARWB080LAS4	
<b>Capacity</b>	Cooling (Rated) kW	56.0	44.8	50.4	
	Heating (Rated) kW	63.0	50.4	56.7	
<b>Input</b>	Cooling (Rated) kW	11.20	7.72	8.95	
	Heating (Rated) kW	11.67	8.40	9.54	
<b>EER</b>		5.00	5.80	5.63	
<b>COP</b>	Rated Capacity	5.40	6.00	5.94	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	
	Head Loss	kPa	30.1	10.7 + 10.7	15.8 + 10.7
	Rated Water Flow	LPM	192	77 + 77	96 + 77
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
<b>Compressor</b>	Combination x No.	(Inverter) x 1	(Inverter) x 2	(Inverter) x 2	
	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	cc	3,000	5,600	5,600
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 12.7(1/2)	Ø 12.7(1/2)	Ø 12.7(1/2)
	Low Pressure Gas Pipe	mm (inch)	Ø 28.58(1-1/8)	Ø 28.58(1-1/8)	Ø 28.58(1-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø 19.05(3/4)	Ø 19.05(3/4)	Ø 19.05(3/4)
<b>Water Connecting Pipes</b>	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)
	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)
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	140 x 1	127 x 2	127 x 2	
<b>Shipping Weight</b>	kg x No.	150 x 1	137 x 2	137 x 2	
<b>Sound Pressure Level</b>	Cooling	dB(A)	54.0	50.0	52.0
	Heating	dB(A)	60.0	54.0	55.0
<b>Sound Power Level</b>	Cooling	dB(A)	66.0	62.0	64.0
	Heating	dB(A)	72.0	66.0	67.0
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	3.0	11.6	11.6
	t-CO <sub>2</sub> eq.		6.3	24.2	24.2
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		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)  
 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

ARWB220LAS4 / ARWB240LAS4  
ARWB280LAS4



HP		22	24	28	
<b>Model Name</b>	Combination Unit	ARWB220LAS4	ARWB240LAS4	ARWB280LAS4	
	Independent Unit	ARWB140LAS4 ARWB080LAS4	ARWB140LAS4 ARWB100LAS4	ARWB140LAS4 ARWB140LAS4	
<b>Capacity</b>	Cooling (Rated) kW	61.6	67.2	78.4	
	Heating (Rated) kW	69.3	75.6	88.2	
<b>Input</b>	Cooling (Rated) kW	11.70	12.93	15.68	
	Heating (Rated) kW	12.37	13.51	16.34	
<b>EER</b>		5.26	5.20	5.00	
<b>COP</b>	Rated Capacity	5.60	5.60	5.40	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
<b>Compressor</b>	Combination x No.	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	
	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	cc	5,600	5,600	5,600
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
	High Pressure Gas Pipe	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)
<b>Water Connecting Pipes</b>	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)
	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)
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	127 x 2	127 x 2	127 x 2	
<b>Shipping Weight</b>	kg x No.	137 x 2	137 x 2	137 x 2	
<b>Sound Pressure Level</b>	Cooling	dB(A)	58.0	59.0	59.0
	Heating	dB(A)	58.0	58.0	58.0
<b>Sound Power Level</b>	Cooling	dB(A)	70.0	71.0	72.0
	Heating	dB(A)	70.0	70.0	71.0
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.6	11.6	11.6
	t-CO <sub>2</sub> eq.		24.2	24.2	24.2
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		35 (44)	39 (48)	45 (56)	

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination(160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification  
 3. Performances are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)  
 - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 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)  
 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

ARWB300LAS4 / ARWB340LAS4  
ARWB400LAS4



HP		30	34	40	
Model Name	Combination Unit	ARWB300LAS4	ARWB340LAS4	ARWB400LAS4	
	Independent Unit	ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB140LAS4	
Capacity	Cooling (Rated) kW	84.0	95.2	112.0	
	Heating (Rated) kW	94.5	107.1	126.0	
Input	Cooling (Rated) kW	16.29	19.04	22.40	
	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 / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	
	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	cc	5,800	5,800	6,000
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)	Ø 41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)	Ø 34.9 (1-3/8)
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 Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	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	
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
	Heating	dB(A)	61.0	61.0	61.0
Sound Power Level	Cooling	dB(A)	67.0	72.0	68.0
	Heating	dB(A)	73.0	74.0	74.0
Communication Cable	mm <sup>2</sup> 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	8.8	8.8	6.0
	t-CO <sub>2</sub> 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 Maximum Connectable Indoor Units <sup>1)</sup>		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)  
 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	
Model Name	Combination Unit	ARWB420LAS4	ARWB440LAS4	ARWB480LAS4	
	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	
Input	Cooling (Rated) kW	22.9	24.13	26.88	
	Heating (Rated) kW	24.04	25.18	28.01	
EER		5.14	5.11	5.00	
COP	Rated Capacity	5.50	5.50	5.40	
Exterior	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	(Inverter) x 3	(Inverter) x 3	(Inverter) x 3	
	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	8,600	8,600	8,600
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)
Water Connecting Pipes	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)
	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 Pressure Level	Cooling	dB(A)	60.0	60.0	60.0
	Heating	dB(A)	62.0	62.0	62.0
Sound Power Level	Cooling	dB(A)	72.0	72.0	74.0
	Heating	dB(A)	74.0	74.0	76.0
Communication Cable	mm <sup>2</sup> 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	14.6	14.6	14.6
	t-CO <sub>2</sub> 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 Maximum Connectable Indoor Units <sup>1)</sup>		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)  
 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

ARWB500LAS4 / ARWB540LAS4  
ARWB600LAS4



HP		50	54	60	
<b>Model Name</b>	Combination Unit	ARWB500LAS4	ARWB540LAS4	ARWB600LAS4	
	Independent Unit	ARWB200LAS4 ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4	
<b>Capacity</b>	Cooling (Rated) kW	140.0	151.2	168.0	
	Heating (Rated) kW	157.5	170.1	189.0	
<b>Input</b>	Cooling (Rated) kW	27.49	30.24	33.60	
	Heating (Rated) kW	28.68	31.51	35.01	
<b>EER</b>		5.09	5.00	5.00	
<b>COP</b>	Rated Capacity	5.49	5.40	5.40	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
<b>Compressor</b>	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Combination x No.	(Inverter) x 3	(Inverter) x 3	(Inverter) x 3	
	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)	
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	
	Low Pressure Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)	
	High Pressure Gas Pipe	mm (inch)	Ø 34.9 (1-3/8)	Ø 34.9 (1-3/8)	
<b>Water Connecting Pipes</b>	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)	
	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)	
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	(140 x 2) + (127 X 1)	(140 x 2) + (127 X 1)	140 x 3	
<b>Shipping Weight</b>	kg x No.	(150 x 2) + (137 X 1)	(150 x 2) + (137 X 1)	150 x 3	
<b>Sound Pressure Level</b>	Cooling	dB(A)	58.0	60.0	
	Heating	dB(A)	63.0	62.0	
<b>Sound Power Level</b>	Cooling	dB(A)	70.0	74.0	
	Heating	dB(A)	75.0	76.0	
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	
	Precharged Amount in Factory	kg	11.8	11.8	
	t-CO <sub>2</sub> eq.		24.6	18.8	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		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)  
 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	
<b>Model Name</b>	Combination Unit	ARWB620LAS4	ARWB640LAS4	ARWB680LAS4	
	Independent Unit	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB080LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB140LAS4	
<b>Capacity</b>	Cooling (Rated) kW	173.6	179.2	190.4	
	Heating (Rated) kW	195.3	201.6	214.2	
<b>Input</b>	Cooling (Rated) kW	34.10	35.33	38.08	
	Heating (Rated) kW	35.71	36.85	39.68	
<b>EER</b>		5.09	5.07	5.00	
<b>COP</b>	Rated Capacity	5.47	5.47	5.40	
<b>Exterior</b>	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
<b>Heat Exchanger</b>	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
<b>Compressor</b>	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Combination x No.	(Inverter) x 4	(Inverter) x 4	(Inverter) x 4	
	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)	
<b>Refrigerant Connecting Pipes</b>	Liquid Pipe	mm (inch)	Ø 22.2 (7/8)	Ø 22.2 (7/8)	
	Low Pressure Gas Pipe	mm (inch)	Ø 44.5 (1-3/4)	Ø 44.5 (1-3/4)	
	High Pressure Gas Pipe	mm (inch)	Ø 41.3 (1-5/8)	Ø 41.3 (1-5/8)	
<b>Water Connecting Pipes</b>	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)	
	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)	
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	
<b>Dimensions (W x H x D)</b>	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	
<b>Dimensions (W x H x D) - Shipping</b>	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	
<b>Net Weight</b>	kg x No.	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	
<b>Shipping Weight</b>	kg x No.	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)	
<b>Sound Pressure Level</b>	Cooling	dB(A)	61.0	61.0	
	Heating	dB(A)	64.0	63.0	
<b>Sound Power Level</b>	Cooling	dB(A)	73.0	75.0	
	Heating	dB(A)	76.0	77.0	
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	
	Precharged Amount in Factory	kg	17.6	17.6	
	t-CO <sub>2</sub> eq.		36.7	36.7	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	
<b>Power Supply</b>	Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	
<b>Number of Maximum Connectable Indoor Units<sup>1)</sup></b>		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)  
 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

ARWB700LAS4 / ARWB740LAS4  
ARWB800LAS4



HP		70	74	80	
Model Name	Combination Unit	ARWB700LAS4	ARWB740LAS4	ARWB800LAS4	
	Independent Unit	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4	
Capacity	Cooling (Rated) kW	196.0	207.2	224.0	
	Heating (Rated) kW	220.5	233.1	252.0	
Input	Cooling (Rated) kW	38.69	41.44	44.80	
	Heating (Rated) kW	40.35	43.18	46.68	
EER		5.07	5.00	5.00	
COP	Rated Capacity	5.46	5.40	5.40	
Exterior	Color	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	Warm Gray / Mornig Gray	
	RAL Code (Classic)	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	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
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Combination x No.	(Inverter) x 4	(Inverter) x 4	(Inverter) x 4	
	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)	
Refrigerant Connecting Pipes	Oil Charge	cc	11,800	12,000	
	Liquid Pipe	mm (inch)	Ø 22.2 (7/8)	Ø 22.2 (7/8)	Ø 22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø 53.98 (2-1/8)	Ø 53.98 (2-1/8)	Ø 53.98 (2-1/8)
Water Connecting Pipes	High Pressure Gas Pipe	mm (inch)	Ø 44.5 (1-3/4)	Ø 44.5 (1-3/4)	Ø 44.5 (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)
	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	
Dimensions (W x H x D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	
Net Weight	kg x No.	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4	
Shipping Weight	kg x No.	(150 x 3) + (137 x 1)	(150 x 3) + (137 x 1)	150 x 4	
Sound Pressure Level	Cooling	dB(A)	59.0	61.0	57.0
	Heating	dB(A)	65.0	63.0	63.0
Sound Power Level	Cooling	dB(A)	71.0	75.0	71.0
	Heating	dB(A)	77.0	77.0	77.0
Communication Cable	mm <sup>2</sup> 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	14.8	14.8	12.0
	t-CO <sub>2</sub> 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 Maximum Connectable Indoor Units <sup>1)</sup>		64	64	64	

Note

- 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%.
- Due to our policy of innovation some specifications may be changed without notification
- Performances are based on the following conditions
  - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)
  - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
  - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A)
- 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.)