



Internal Use Only

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MULTI V™
WATER IV

Outside Unit R410A
SERVICE MANUAL
(Exploded View)

MODEL : ARWB*LAS4**

CAUTION

Before Servicing the unit, read the safety precautions in General SVC manual.
Only for authorized service personnel.

ARWB***LAS4

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1. Specifications

Heat Recovery

Heat Recovery(50Hz/60Hz)

System Capacity		HP	8	10	12
Model Name		Combination Unit	ARWB080LAS4	ARWB100LAS4	ARWB120LAS4
		Independent Unit	ARWB080LAS4	ARWB100LAS4	ARWB120LAS4
Capacity	Cooling	kW	22.4	28.0	33.6
		kcal/h	19,300	24,100	28,900
		Btu/h	76,400	95,500	114,600
	Heating	kW	25.2	31.5	37.8
		kcal/h	21,700	27,100	32,500
		Btu/h	86,000	107,500	129,000
Input	Cooling	kW	3.86	5.09	6.46
	Heating	kW	4.20	5.34	6.75
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Piston Displacement	cm ³ /rev	43.8	43.8	43.8
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	4.2	4.2	4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,200	1,200	1,200
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	11	16	22
	Rated Water Flow	LPM	77	96	116
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 9.52(3/8)	Φ 9.52(3/8)	Φ 12.7(1/2)
	Low Pressure Gas Pipes	mm(inch)	Φ 22.2(7/8)	Φ 22.2(7/8)	Φ 25.4(1)
	High Pressure Gas Pipes	mm(inch)	Φ 19.05(3/4)	Φ 19.05(3/4)	Φ 19.05(3/4)
Water Connecting Pipes	Inlet	mm	PT 40	PT 40	PT 40
	Outlet	mm	PT 40	PT 40	PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)		mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
		inch	(29-23/32 x 39-1/4 x 19-11/16) x 1	(29-23/32 x 39-1/4 x 19-11/16) x 1	(29-23/32 x 39-1/4 x 19-11/16) x 1
Net Weight		kg	127 x 1	127 x 1	127 x 1
		lbs	280 x 1	280 x 1	280 x 1
Sound Pressure Level ³⁾	Cooling	dB(A)	47	50	56
	Heating	dB(A)	51	53	56
Sound Power Level ⁴⁾	Cooling	dB(A)	59	62	68
	Heating	dB(A)	63	65	68
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			380, 3, 60	380, 3, 60	380, 3, 60

Notes:

- Capacities and Inputs 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]

* Interconnecting Piping Length 7.5m (25 ft.)

* Level Difference of Zero

- Capacities are net capacities.

- 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.

- Wiring cable size must comply with the applicable local and national code.

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

- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Specification

Heat Recovery(50Hz/60Hz)

System Capacity		HP	14	16	18
Model Name		Combination Unit	ARWB140LAS4	ARWB160LAS4	ARWB180LAS4
		Independent Unit	ARWB140LAS4	ARWB160LAS4	ARWB180LAS4
Capacity	Cooling	kW	39.2	44.8	50.4
		kcal/h	33,700	38,500	43,300
		Btu/h	133,800	152,900	172,000
	Heating	kW	44.1	50.4	56.7
		kcal/h	37,900	43,300	48,800
		Btu/h	150,500	172,000	193,500
Input	Cooling	kW	7.84	8.15	9.69
	Heating	kW	8.17	8.54	10.13
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Piston Displacement	cm ³ /rev	43.8	62.1	62.1
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	4.2	5.3	5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,200	1,400	1,400
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	29	19	24
	Rated Water Flow	LPM	135	154	173
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 12.7(1/2)	Φ 12.7(1/2)	Φ 12.7(1/2)
	Low Pressure Gas Pipes	mm(inch)	Φ 25.4(1)	Φ 28.58(1-1/8)	Φ 28.58(1-1/8)
	High Pressure Gas Pipes	mm(inch)	Φ 19.05(3/4)	Φ 19.05(3/4)	Φ 19.05(3/4)
Water Connecting Pipes	Inlet	mm	PT 40	PT 40	PT 40
	Outlet	mm	PT 40	PT 40	PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)		mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
		inch	(29-23/32 x 39-1/4 x 19-11/16) x 1	(29-23/32 x 39-1/4 x 19-11/16) x 1	(29-23/32 x 39-1/4 x 19-11/16) x 1
Net Weight		kg	127 x 1	140 x 1	140 x 1
		lbs	280 x 1	309 x 1	309 x 1
Sound Pressure Level ³⁾	Cooling	dB(A)	58	53	55
	Heating	dB(A)	57	57	56
Sound Power Level ⁴⁾	Cooling	dB(A)	70	65	67
	Heating	dB(A)	69	69	68
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			380, 3, 60	380, 3, 60	380, 3, 60

Notes:

- Capacities and Inputs 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]
 * Interconnecting Piping Length 7.5m (25 ft.)
 * Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Heat Recovery(50Hz/60Hz)

System Capacity		HP	20	22	24
Model Name	Combination Unit		ARWB200LAS4	ARWB220LAS4	ARWB240LAS4
			ARWB200LAS4	ARWB120LAS4	ARWB120LAS4
	Independent Unit			ARWB100LAS4	ARWB120LAS4
Capacity	Cooling	kW	56.0	61.6	67.2
		kcal/h	48,200	53,000	57,800
		Btu/h	191,100	210,100	229,200
	Heating	kW	63.0	69.3	75.6
		kcal/h	54,200	59,600	65,000
Btu/h		215,000	236,500	258,000	
Input	Cooling	kW	11.20	11.55	12.92
	Heating	kW	11.67	12.09	13.50
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
	Piston Displacement	cm ³ /rev	62.1	43.8 + 43.8	43.8 + 43.8
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3	4.2+4.2	4.2 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400	1,200 + 1,200	1,200 + 1,200
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30	22 + 16	22 + 22
	Rated Water Flow	LPM	192	116 + 96	116 + 116
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 12.7(1/2)	Φ 19.05(3/4)	Φ 19.05(3/4)
	Low Pressure Gas Pipes	mm(inch)	Φ 28.58(1-1/8)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)
	High Pressure Gas Pipes	mm(inch)	Φ19.05(3/4)	Φ 28.58(1-1/8)	Φ 28.58(1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet	mm	PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 1	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
	inch		(29-23/32 x 39-1/4 x 19-11/16) x 1	(29-23/32 x 39-1/4 x 19-11/16) x 2	(29-23/32 x 39-1/4 x 19-11/16) x 2
Net Weight	kg		140 x 1	127 x 2	127 x 2
	lbs		309 x 1	280 x 2	280 x 2
Sound Pressure Level ³⁾	Cooling	dB(A)	54	57	57
	Heating	dB(A)	60	57	57
Sound Power Level ⁴⁾	Cooling	dB(A)	66	70	70
	Heating	dB(A)	72	70	70
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Specification

Heat Recovery(50Hz/60Hz)

System Capacity		HP	26	28	30
Model Name		Combination Unit	ARWB260LAS4	ARWB280LAS4	ARWB300LAS4
		Independent Unit	ARWB140LAS4	ARWB140LAS4	ARWB160LAS4
			ARWB120LAS4	ARWB140LAS4	ARWB140LAS4
Capacity	Cooling	kW	72.8	78.4	84.0
		kcal/h	62,600	67,400	72,200
		Btu/h	248,400	267,600	286,700
	Heating	kW	81.9	88.2	94.5
		Btu/h	279,500	301,000	322,500
Input	Cooling	kW	14.30	15.68	15.99
	Heating	kW	14.92	16.34	16.71
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Piston Displacement	cm ³ /rev	43.8 + 43.8	43.8 + 43.8	43.8 + 62.1
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	4.2 + 4.2	4.2 + 4.2	4.2 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,200 + 1,200	1,200 + 1,200	1,400 + 1,200
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	29 + 22	29 + 29	19 + 29
	Rated Water Flow	LPM	135 + 116	135 + 135	154 + 135
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 19.05(3/4)	Φ 19.05(3/4)	Φ 19.05(3/4)
	Low Pressure Gas Pipes	mm(inch)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)
	High Pressure Gas Pipes	mm(inch)	Φ 28.58(1-1/8)	Φ 28.58(1-1/8)	Φ 28.58(1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
	inch		(29-23/32 × 39-1/4 × 19-11/16) × 2	(29-23/32 × 39-1/4 × 19-11/16) × 2	(29-23/32 × 39-1/4 × 19-11/16) × 2
Net Weight	kg		127 × 2	127 × 2	(140 × 1) + (127 × 1)
	lbs		280 × 2	280 × 2	(309 × 1) + (280 × 1)
Sound Pressure Level ³⁾	Cooling	dB(A)	59	59	59
	Heating	dB(A)	58	58	58
Sound Power Level ⁴⁾	Cooling	dB(A)	72	72	72
	Heating	dB(A)	71	71	71
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60

Notes:

- Capacities and Inputs 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]
 * Interconnecting Piping Length 7.5m (25 ft.)
 * Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Heat Recovery(50Hz/60Hz)

System Capacity		HP	32	34	36
Model Name		Combination Unit	ARWB320LAS4	ARWB340LAS4	ARWB360LAS4
		Independent Unit	ARWB180LAS4	ARWB200LAS4	ARWB180LAS4
			ARWB140LAS4	ARWB140LAS4	ARWB180LAS4
Capacity	Cooling	kW	89.6	95.2	100.8
		kcal/h	77,000	81,900	86,600
		Btu/h	305,800	324,900	344,000
	Heating	kW	100.8	107.1	113.4
		Btu/h	344,000	365,500	387,000
Input	Cooling	kW	17.53	19.04	19.38
	Heating	kW	18.30	19.84	20.26
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Piston Displacement	cm ³ /rev	43.8 + 62.1	43.8 + 62.1	62.1 + 62.1
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	4.2 + 5.3	4.2 + 5.3	5.3 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400 + 1,200	1,400 + 1,200	1,400 + 1,400
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	24 + 29	30 + 29	24 + 24
	Rated Water Flow	LPM	173 + 135	192 + 135	173 + 173
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 19.05(3/4)	Φ 19.05(3/4)	Φ 19.05(3/4)
	Low Pressure Gas Pipes	mm(inch)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)	Φ 41.3(1-5/8)
	High Pressure Gas Pipes	mm(inch)	Φ 28.58(1-1/8)	Φ 28.58(1-1/8)	Φ 34.9(1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 2
	inch		(29-23/32 × 39-1/4 × 19-11/16) × 2	(29-23/32 × 39-1/4 × 19-11/16) × 2	(29-23/32 × 39-1/4 × 19-11/16) × 2
Net Weight	kg		(140 × 1) + (127 × 1)	(140 × 1) + (127 × 1)	140 × 2
	lbs		(309 × 1) + (280 × 1)	(309 × 1) + (280 × 1)	309 × 2
Sound Pressure Level ³⁾	Cooling	dB(A)	59	59	56
	Heating	dB(A)	58	61	57
Sound Power Level ⁴⁾	Cooling	dB(A)	72	72	69
	Heating	dB(A)	71	74	70
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Specification

Heat Recovery(50Hz/60Hz)

System Capacity		HP	38	40	42
Model Name	Combination Unit		ARWB380LAS4	ARWB400LAS4	ARWB420LAS4
			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
	Independent Unit		ARWB180LAS4	ARWB200LAS4	ARWB120LAS4
					ARWB100LAS4
Capacity	Cooling	kW	106.4	112.0	117.6
		kcal/h	91,500	96,400	101,200
		Btu/h	363,100	382,200	401,200
	Heating	kW	119.7	126.0	132.3
		kcal/h	103,000	108,400	113,800
		Btu/h	408,500	430,000	451,500
Input	Cooling	kW	20.89	22.40	22.75
	Heating	kW	21.80	23.34	23.76
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 2	(Inverter) x 2	(Inverter) x 3
	Piston Displacement	cm ³ /rev	62.1 + 62.1	62.1 + 62.1	62.1 + 43.8 + 43.8
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3	5.3 + 5.3	5.3 + 4.2 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400 + 1,400	1,400 + 1,400	1,400 + 1,200 + 1,200
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30 + 24	30 + 30	30 + 22 + 16
	Rated Water Flow	LPM	192 + 173	192 + 192	192 + 116 + 96
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 19.05(3/4)	Φ 19.05(3/4)	Φ 19.05(3/4)
	Low Pressure Gas Pipes	mm(inch)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)
	High Pressure Gas Pipes	mm(inch)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 2	(755 × 997 × 500) × 2	(755 × 997 × 500) × 3
	inch		(29-23/32 × 39-1/4 × 19-11/16) × 2	(29-23/32 × 39-1/4 × 19-11/16) × 2	(29-23/32 × 39-1/4 × 19-11/16) × 3
Net Weight	kg		140 × 2	140 × 2	(140 × 1) + (127 × 2)
	lbs		309 × 2	309 × 2	(309 × 1) + (280 × 2)
Sound Pressure Level ³⁾	Cooling	dB(A)	56	55	58
	Heating	dB(A)	61	61	62
Sound Power Level ⁴⁾	Cooling	dB(A)	69	68	72
	Heating	dB(A)	74	74	76
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Heat Recovery(50Hz/60Hz)

System Capacity		HP	44	46	48
Model Name	Combination Unit		ARWB440LAS4	ARWB460LAS4	ARWB480LAS4
			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
	Independent Unit		ARWB120LAS4	ARWB140LAS4	ARWB140LAS4
			ARWB120LAS4	ARWB120LAS4	ARWB140LAS4
Capacity	Cooling	kW	123.2	128.8	134.4
		kcal/h	106,000	110,800	115,600
		Btu/h	420,300	439,500	458,700
	Heating	kW	138.6	144.9	151.2
		kcal/h	119,200	124,600	130,000
Btu/h		473,000	494,500	516,000	
Input	Cooling	kW	24.12	25.50	26.88
	Heating	kW	25.17	26.59	28.01
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Piston Displacement	cm ³ /rev	62.1 + 43.8 + 43.8	62.1 + 43.8 + 43.8	62.1 + 43.8 + 43.8
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 4.2 + 4.2	5.3 + 4.2 + 4.2	5.3 + 4.2 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30 + 22 + 22	30 + 29 + 22	30 + 29 + 29
	Rated Water Flow	LPM	192 + 116 + 116	192 + 135 + 116	192 + 135 + 135
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 19.05(3/4)	Φ 19.05(3/4)	Φ 19.05(3/4)
	Low Pressure Gas Pipes	mm(inch)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)
	High Pressure Gas Pipes	mm(inch)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
	inch		(29-23/32 x 39-1/4 x 19-11/16) x 3	(29-23/32 x 39-1/4 x 19-11/16) x 3	(29-23/32 x 39-1/4 x 19-11/16) x 3
Net Weight	kg		(140 x 1) + (127 x 2)	(140 x 1) + (127 x 1) + (127 x 1)	(140 x 1) + (127 x 2)
	lbs		(309 x 1) + (280 x 2)	(309 x 1) + (280 x 1) + (280 x 1)	(309 x 1) + (280 x 2)
Sound Pressure Level ³⁾	Cooling	dB(A)	58	60	60
	Heating	dB(A)	62	62	62
Sound Power Level ⁴⁾	Cooling	dB(A)	72	74	74
	Heating	dB(A)	76	76	76
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Specification

Heat Recovery(50Hz/60Hz)

System Capacity		HP	50	52	54
Model Name	Combination Unit		ARWB500LAS4	ARWB520LAS4	ARWB540LAS4
			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
	Independent Unit		ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
			ARWB140LAS4	ARWB140LAS4	ARWB140LAS4
Capacity	Cooling	kW	140.0	145.6	151.2
		kcal/h	120,400	125,200	130,100
		Btu/h	477,800	496,900	516,000
	Heating	kW	157.5	163.8	170.1
		Btu/h	537,500	559,000	580,500
Input	Cooling	kW	27.19	28.73	30.24
	Heating	kW	28.38	29.97	31.51
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 43.8	62.1 + 62.1 + 43.8	62.1 + 62.1 + 43.8
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 4.2	5.3 + 5.3 + 4.2	5.3 + 5.3 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,200
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30 + 19 + 29	30 + 24 + 29	30 + 30 + 29
	Rated Water Flow	LPM	192 + 154 + 135	192 + 173 + 135	192 + 192 + 135
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 19.05(3/4)	Φ 19.05(3/4)	Φ 19.05(3/4)
	Low Pressure Gas Pipes	mm(inch)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)
	High Pressure Gas Pipes	mm(inch)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
	inch		(29-23/32 x 39-1/4 x 19-11/16) x 3	(29-23/32 x 39-1/4 x 19-11/16) x 3	(29-23/32 x 39-1/4 x 19-11/16) x 3
Net Weight	kg		(140 x 2) + (127 x 1)	(140 x 2) + (127 x 1)	(140 x 2) + (127 x 1)
	lbs		(309 x 2) + (280 x 1)	(309 x 2) + (280 x 1)	(309 x 2) + (280 x 1)
Sound Pressure Level ³⁾	Cooling	dB(A)	60	60	60
	Heating	dB(A)	62	62	62
Sound Power Level ⁴⁾	Cooling	dB(A)	74	74	74
	Heating	dB(A)	76	76	76
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Heat Recovery(50Hz/60Hz)

System Capacity		HP	56	58	60
Model Name	Combination Unit		ARWB560LAS4	ARWB580LAS4	ARWB600LAS4
			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
	Independent Unit		ARWB180LAS4	ARWB200LAS4	ARWB200LAS4
			ARWB180LAS4	ARWB180LAS4	ARWB200LAS4
Capacity	Cooling	kW	156.8	162.4	168.0
		kcal/h	134,800	139,700	144,600
		Btu/h	535,100	554,200	573,300
	Heating	kW	176.4	182.7	189.0
		kcal/h	151,800	157,200	162,600
		Btu/h	602,000	623,500	645,000
Input	Cooling	kW	30.58	32.09	33.60
	Heating	kW	31.93	33.47	35.01
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 62.1	62.1 + 62.1 + 62.1	62.1 + 62.1 + 62.1
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 5.3	5.3 + 5.3 + 5.3	5.3 + 5.3 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30 + 30 + 24	30 + 30 + 24	30 + 30 + 30
	Rated Water Flow	LPM	192 + 173 + 173	192 + 192+ 173	192 + 192+ 192
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 113°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 19.05(3/4)	Φ 19.05(3/4)	Φ 19.05(3/4)
	Low Pressure Gas Pipes	mm(inch)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)
	High Pressure Gas Pipes	mm(inch)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)	Φ 34.9(1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
	inch		(29-23/32 x 39-1/4 x 19-11/16) x 3	(29-23/32 x 39-1/4 x 19-11/16) x 3	(29-23/32 x 39-1/4 x 19-11/16) x 3
Net Weight	kg		140 x 3	140 x 3	140 x 3
	lbs		309 x 3	309 x 3	309 x 3
Sound Pressure Level ³⁾	Cooling	dB(A)	57	57	56
	Heating	dB(A)	62	62	62
Sound Power Level ⁴⁾	Cooling	dB(A)	71	71	70
	Heating	dB(A)	76	76	76
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Specification

Heat Recovery(50Hz/60Hz)

System Capacity		HP	62	64	66
Model Name	Combination Unit		ARWB620LAS4	ARWB640LAS4	ARWB660LAS4
			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
	Independent Unit		ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
			ARWB120LAS4	ARWB120LAS4	ARWB140LAS4
			ARWB100LAS4	ARWB120LAS4	ARWB120LAS4
Capacity	Cooling	kW	173.6	179.2	184.8
		kcal/h	149,400	154,200	159,000
		Btu/h	592,300	611,400	630,600
	Heating	kW	195.3	201.6	207.9
		kcal/h	168,000	173,400	178,800
		Btu/h	666,500	688,000	709,500
Input	Cooling	kW	33.95	35.32	36.70
	Heating	kW	35.43	36.84	38.26
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 43.8 + 43.8	62.1 + 62.1 + 43.8 + 43.8	62.1 + 62.1 + 43.8 + 43.8
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 5.3 + 5.3	5.3 + 5.3 + 5.3 + 5.3	5.3 + 5.3 + 5.3 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400 + 1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,200 + 1,200
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30 + 30 + 22 + 16	30 + 30 + 22 + 22	30 + 30 + 29 + 22
	Rated Water Flow	LPM	192 + 192 + 116 + 96	192 + 192 + 116 + 116	192 + 192 + 135 + 116
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 113°F)	10°C ~ 45°C(50°F ~ 114°F)	10°C ~ 45°C(50°F ~ 115°F)
	Heating		-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 114°F)	-5°C ~ 45°C(23°F ~ 115°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 22.2(7/8)	Φ 22.2(7/8)	Φ 22.2(7/8)
	Low Pressure Gas Pipes	mm(inch)	Φ 44.5(1-3/4)	Φ 44.5(1-3/4)	Φ 53.98(2-1/8)
	High Pressure Gas Pipes	mm(inch)	Φ 41.3(1-5/8)	Φ 41.3(1-5/8)	Φ 44.5(1-3/4)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 4	(755 × 997 × 500) × 4	(755 × 997 × 500) × 4
	inch		(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4
Net Weight	kg		(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 1) + (127 x 1)
	lbs		(309 x 2) + (280 x 2)	(309 x 2) + (280 x 2)	(309 x 2) + (280 x 1) + (280 x 1)
Sound Pressure Level ³⁾	Cooling	dB(A)	59	59	61
	Heating	dB(A)	63	63	63
Sound Power Level ⁴⁾	Cooling	dB(A)	73	73	75
	Heating	dB(A)	77	77	77
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply	V, Ø, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			380, 3, 60	380, 3, 60	380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Heat Recovery(50Hz/60Hz)

System Capacity		HP	68	70	72
Model Name	Combination Unit		ARWB680LAS4	ARWB700LAS4	ARWB720LAS4
			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
	Independent Unit		ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
			ARWB140LAS4	ARWB160LAS4	ARWB180LAS4
			ARWB140LAS4	ARWB140LAS4	ARWB140LAS4
Capacity	Cooling	kW	190.4	196.0	201.6
		kcal/h	163,800	168,600	173,400
		Btu/h	649,800	668,900	688,000
	Heating	kW	214.2	220.5	226.8
		kcal/h	184,200	189,600	195,100
		Btu/h	731,000	752,500	774,000
Input	Cooling	kW	38.08	38.39	39.93
	Heating	kW	39.68	40.05	41.64
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 43.8 + 43.8	62.1 + 62.1 + 62.1 + 43.8	62.1 + 62.1 + 62.1 + 43.8
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 5.3 + 5.3	5.3 + 5.3 + 5.3 + 5.3	5.3 + 5.3 + 5.3 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400 + 1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,400 + 1,200
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30 + 30 + 29 + 29	30 + 30 + 19 + 29	30 + 30 + 24 + 29
	Rated Water Flow	LPM	192 + 192 + 135 + 135	192 + 192 + 154 + 135	192 + 192 + 173 + 135
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 116°F)	10°C ~ 45°C(50°F ~ 117°F)	10°C ~ 45°C(50°F ~ 118°F)
	Heating		-5°C ~ 45°C(23°F ~ 116°F)	-5°C ~ 45°C(23°F ~ 117°F)	-5°C ~ 45°C(23°F ~ 118°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 22.2(7/8)	Φ 22.2(7/8)	Φ 22.2(7/8)
	Low Pressure Gas Pipes	mm(inch)	Φ 53.98(2-1/8)	Φ 53.98(2-1/8)	Φ 53.98(2-1/8)
	High Pressure Gas Pipes	mm(inch)	Φ 44.5(1-3/4)	Φ 44.5(1-3/4)	Φ 44.5(1-3/4)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 4	(755 × 997 × 500) × 4	(755 × 997 × 500) × 4
	inch		(29-23/32 × 39-1/4 × 19-11/16) × 4	(29-23/32 × 39-1/4 × 19-11/16) × 4	(29-23/32 × 39-1/4 × 19-11/16) × 4
Net Weight	kg		(140 × 2) + (127 × 2)	(140 × 3) + (127 × 1)	(140 × 3) + (127 × 1)
	lbs		(309 × 2) + (280 × 2)	(309 × 3) + (280 × 1)	(309 × 3) + (280 × 1)
Sound Pressure Level ³⁾	Cooling	dB(A)	61	61	61
	Heating	dB(A)	63	63	63
Sound Power Level ⁴⁾	Cooling	dB(A)	75	75	75
	Heating	dB(A)	77	77	77
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C	1.0 ~1.5 × 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply	V, Ø, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			380, 3, 60	380, 3, 60	380, 3, 60

Notes:

- Capacities and Inputs 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]
 * Interconnecting Piping Length 7.5m (25 ft.)
 * Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Specification

Heat Recovery(50Hz/60Hz)

System Capacity		HP	74	76	78
Model Name	Combination Unit		ARWB740LAS4	ARWB760LAS4	ARWB780LAS4
			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
	Independent Unit		ARWB200LAS4	ARWB200LAS4	ARWB200LAS4
			ARWB200LAS4	ARWB180LAS4	ARWB200LAS4
			ARWB140LAS4	ARWB180LAS4	ARWB180LAS4
Capacity	Cooling	kW	207.2	212.8	218.4
		kcal/h	178,300	183,000	187,900
		Btu/h	707,100	726,200	745,300
	Heating	kW	233.1	239.4	245.7
		kcal/h	200,500	206,000	211,400
		Btu/h	795,500	817,000	838,500
Input	Cooling	kW	41.44	41.78	43.29
	Heating	kW	43.18	43.60	45.14
Casing Color			Warm Gray , Mornig Gray	Warm Gray , Mornig Gray	Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 62.1 + 43.8	62.1 + 62.1 + 62.1 + 62.1	62.1 + 62.1 + 62.1 + 62.1
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 5.3 + 4.2	5.3 + 5.3 + 5.3 + 5.3	5.3 + 5.3 + 5.3 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	cc	1,400 + 1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400 + 1,400
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30 + 30 + 30 + 29	30 + 30 + 24 + 24	30 + 30 + 30 + 24
	Rated Water Flow	LPM	192 + 192 + 192 + 135	192 + 192 + 173 + 173	192 + 192 + 192 + 173
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 119°F)	10°C ~ 45°C(50°F ~ 120°F)	10°C ~ 45°C(50°F ~ 121°F)
	Heating		-5°C ~ 45°C(23°F ~ 119°F)	-5°C ~ 45°C(23°F ~ 120°F)	-5°C ~ 45°C(23°F ~ 121°F)
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 22.2(7/8)	Φ 22.2(7/8)	Φ 22.2(7/8)
	Low Pressure Gas Pipes	mm(inch)	Φ 53.98(2-1/8)	Φ 53.98(2-1/8)	Φ 53.98(2-1/8)
	High Pressure Gas Pipes	mm(inch)	Φ 44.5(1-3/4)	Φ 44.5(1-3/4)	Φ 44.5(1-3/4)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet	mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20
Dimensions(WxHxD)	mm		(755 × 997 × 500) × 4	(755 × 997 × 500) × 4	(755 × 997 × 500) × 4
	inch		(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4
Net Weight	kg		(140 x 3) + (127 x 1)	140 x 4	140 x 4
	lbs		(309 x 3) + (280 x 1)	309 x 4	309 x 4
Sound Pressure Level ³⁾	Cooling	dB(A)	61	58	58
	Heating	dB(A)	63	63	63
Sound Power Level ⁴⁾	Cooling	dB(A)	75	72	72
	Heating	dB(A)	77	77	77
Transmission Cable(CVV-SB)		mm ²	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C	1.0 ~1.5 x 2C
Refrigerant	Name		R410A	R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

Heat Recovery(50Hz/60Hz)

System Capacity		HP		80
Model Name		Combination Unit		ARWB800LAS4
		Independent Unit		ARWB200LAS4
				ARWB200LAS4
				ARWB200LAS4
				ARWB200LAS4
Capacity	Cooling	kW		224.0
		kcal/h		192,800
		Btu/h		764,400
	Heating	kW		252.0
		kcal/h		216,800
Btu/h		860,000		
Input	Cooling	kW		44.80
	Heating	kW		46.68
Casing Color				Warm Gray , Mornig Gray
Compressor	Type		Hermetically Sealed Scroll	
	Combination		(Inverter) x 4	
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 62.1 + 62.1	
	Number of revolution	rev/min	Inverter 3,600 at 60Hz	
	Motor Output	kW	5.3 + 5.3 + 5.3 + 5.3	
	Starting Method		Direct On Line	
	Oil Type		FVC68D(PVE)	
	Oil Charge Amount	cc	1,400 + 1,400 + 1,400 + 1,400	
Heat Exchanger	Type		Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm ²	45	
	Head Loss	kPa	30 + 30 + 30 + 30	
	Rated Water Flow	LPM	192 + 192 + 192 + 192	
Temp. range of Circulation water	Cooling		10°C ~ 45°C(50°F ~ 122°F)	
	Heating		-5°C ~ 45°C(23°F ~ 122°F)	
Refrigerant Connecting Pipes	Liquid Pipes	mm(inch)	Φ 22.2(7/8)	
	Low Pressure Gas Pipes	mm(inch)	Φ 53.98(2-1/8)	
	High Pressure Gas Pipes	mm(inch)	Φ 44.5(1-3/4)	
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 + PT 40	
	Outlet	mm	PT 40 + PT 40 + PT 40 + PT 40	
	Drain Outlet	mm	20	
Dimensions(WxHxD)		mm	(755 × 997 × 500) × 4	
		inch	(29-23/32 × 39-1/4 × 19-11/16) × 4	
Net Weight		kg	140 × 4	
		lbs	309 × 4	
Sound Pressure Level ³⁾	Cooling	dB(A)	57	
	Heating	dB(A)	63	
Sound Power Level ⁴⁾	Cooling	dB(A)	71	
	Heating	dB(A)	77	
Transmission Cable(CVV-SB)		mm ²	1.0 ~ 1.5 × 2C	
Refrigerant	Name		R410A	
	Control Device		Electronic expansion valve	
Power Supply		V, Ø, Hz		380-415, 3, 50
				380, 3, 60

Notes:

- Capacities and Inputs 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]
* Interconnecting Piping Length 7.5m (25 ft.)
* Level Difference of Zero
- Capacities are net capacities.
- 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.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without prior notification.
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

2. Functions

Category	Function	Single Unit	Series Unit
Reliability	Defrost/Deicing	X	X
	High pressure switch	O	O
	Phase protection	O	O
	Restart delay(3-minutes)	O	O
	Self diagnosis	O	O
	Soft start	O	O
	Trial operation	X	X
Convenience	Auto operation (artificial intelligence)	O	O
	Auto restart operation	O	O
CAC network Function	Network Solution (LGAP)	O	O

Note :

O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

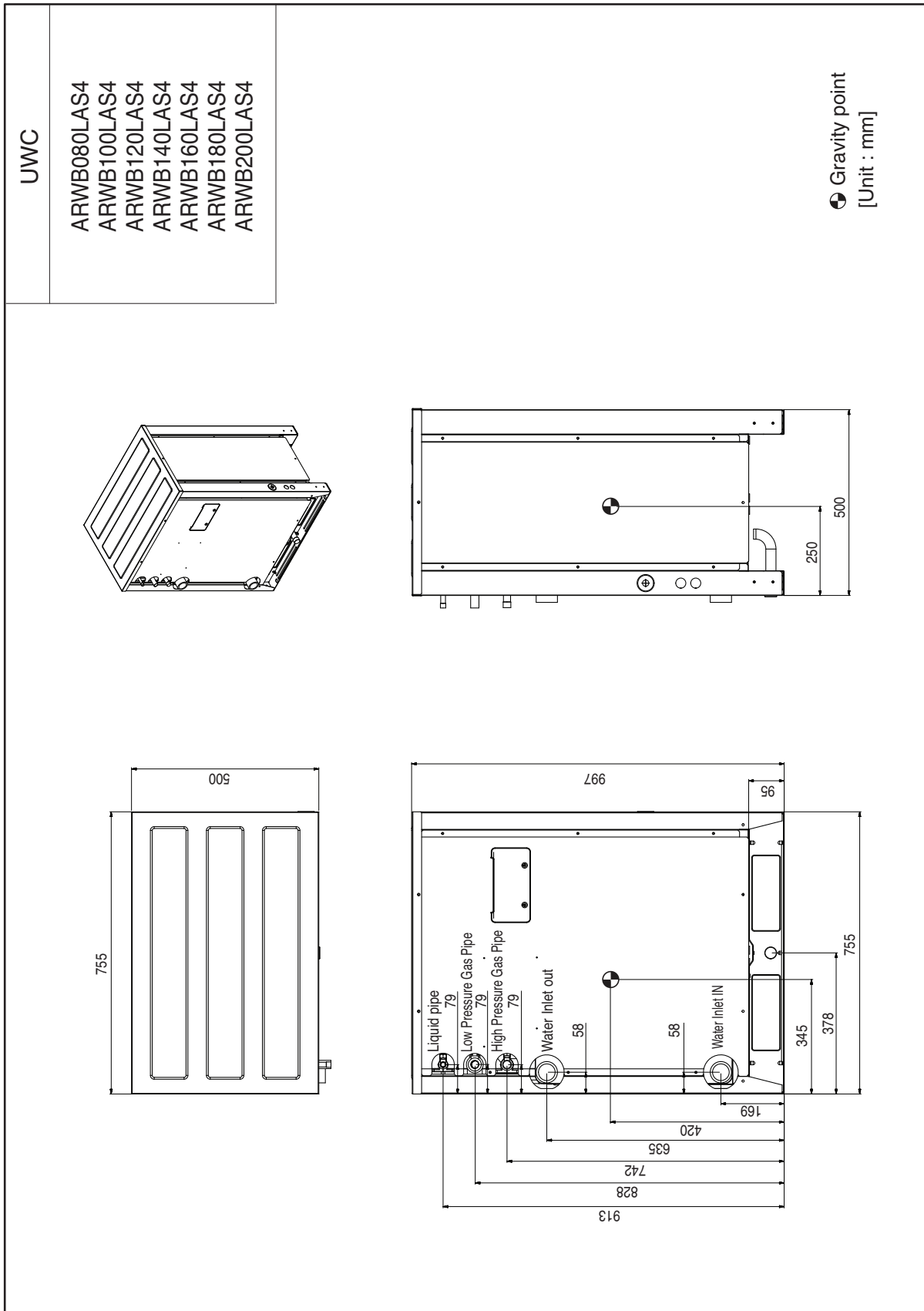
Device		Multi V Water IV
Central Controller	AC Ez (Simple Controller)	PQCSZ250S0
	AC Smart II	PQCSW320A1E
	AC Smart Premium	PQCSW421E0A
	128 Unit Expansion Kit for AC Smart	PQCSE440U0
	Option Kit (SD card type) for AC Smart	PQCSE341A0 / PQCSE342A0
	ACP(Advanced Control Platform)	PQCPA11A0E / PQCPB11A0E
	AC Manager	PQCSS520A0E
	ACP(Advanced Control Platform) Standard	PQCPC22N0
	ACP(Advanced Control Platform) Premium	PQCPC22A0
	AC Manager Plus	PQCSSA21E0
	DO(Digital Output) Kit	PQNFP00T0
BNU (Building Network Unit)	LONWORKS Gateway (DC 12V Adapter)	PQNFB16A1 / PLNWKB000
	LONWORKS Gateway (AC 24 V)	PLNWKB100
	BACnet Gateway (DC 12V Adapter)	PQNFB17B0 / PQNFB17C0
	BACnet Gateway (AC 24 V)	PQNFB17C1
Installation	Refrigerant Charging Kit	X
	PDI(power distribution indicator)	PQNUD1S00
	PDI(power distribution indicator) Premium	PQNUD1S40
	Cool / Heat Selector	X
	IO Module (ODU Dry Contact)	PVDSMN000
Cycle Monitoring Device	LG MV	PRCT-FE1
	Mobile LGMV(Bluetooth)	PMVBTQ01
	Variable Water Flow Valve Control Kit	X

Note :

O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

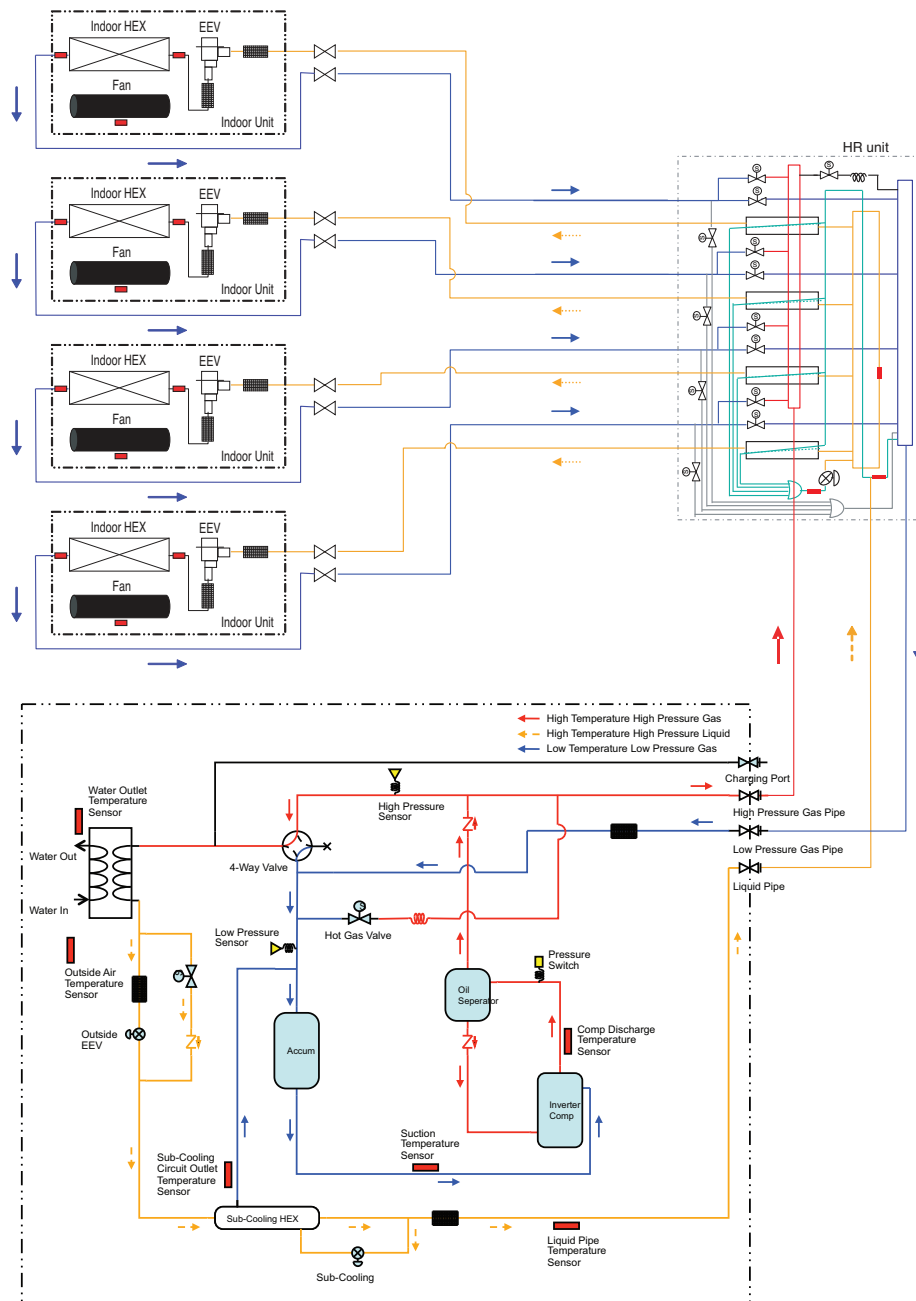
3. Dimensions



4. Piping Diagrams

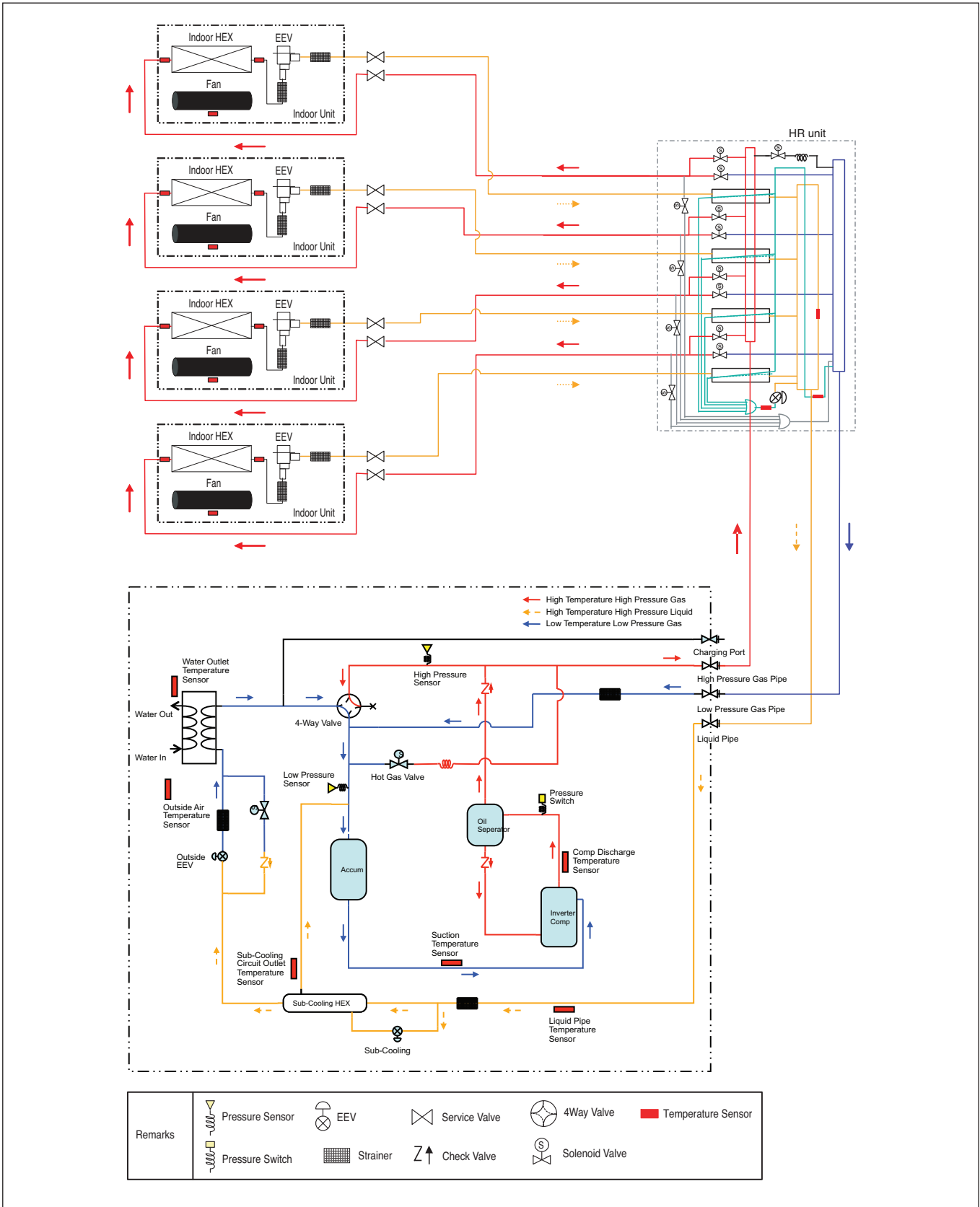
■ ARWB080LAS4, ARWB100LAS4, ARWB120LAS4, ARWB140LAS4, ARWB160LAS4, ARWB180LAS4, ARWB200LAS4

Cooling Operation

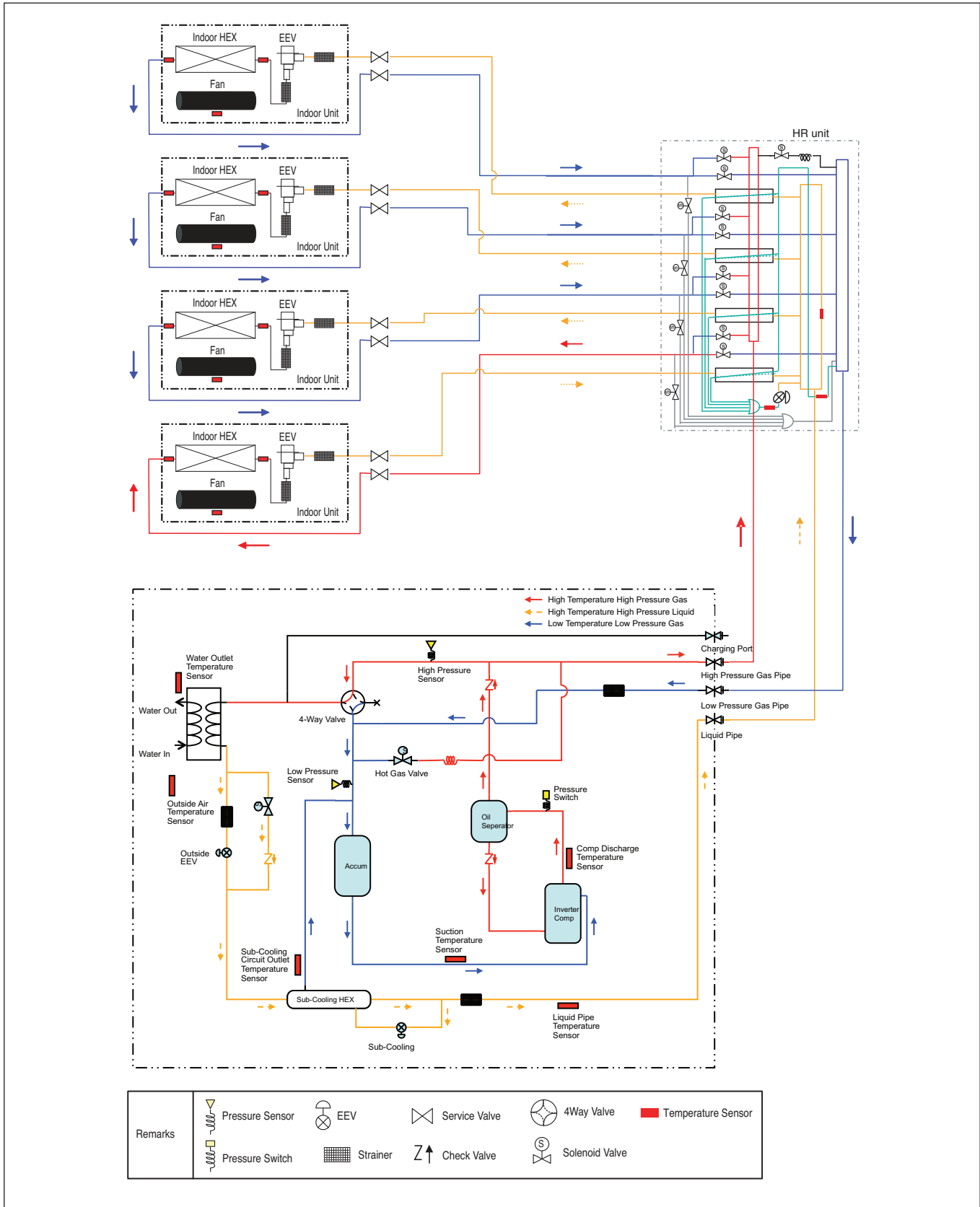


Remarks	Pressure Sensor	EEV	Service Valve	4Way Valve	Temperature Sensor
	Pressure Switch	Strainer	Check Valve	Solenoid Valve	

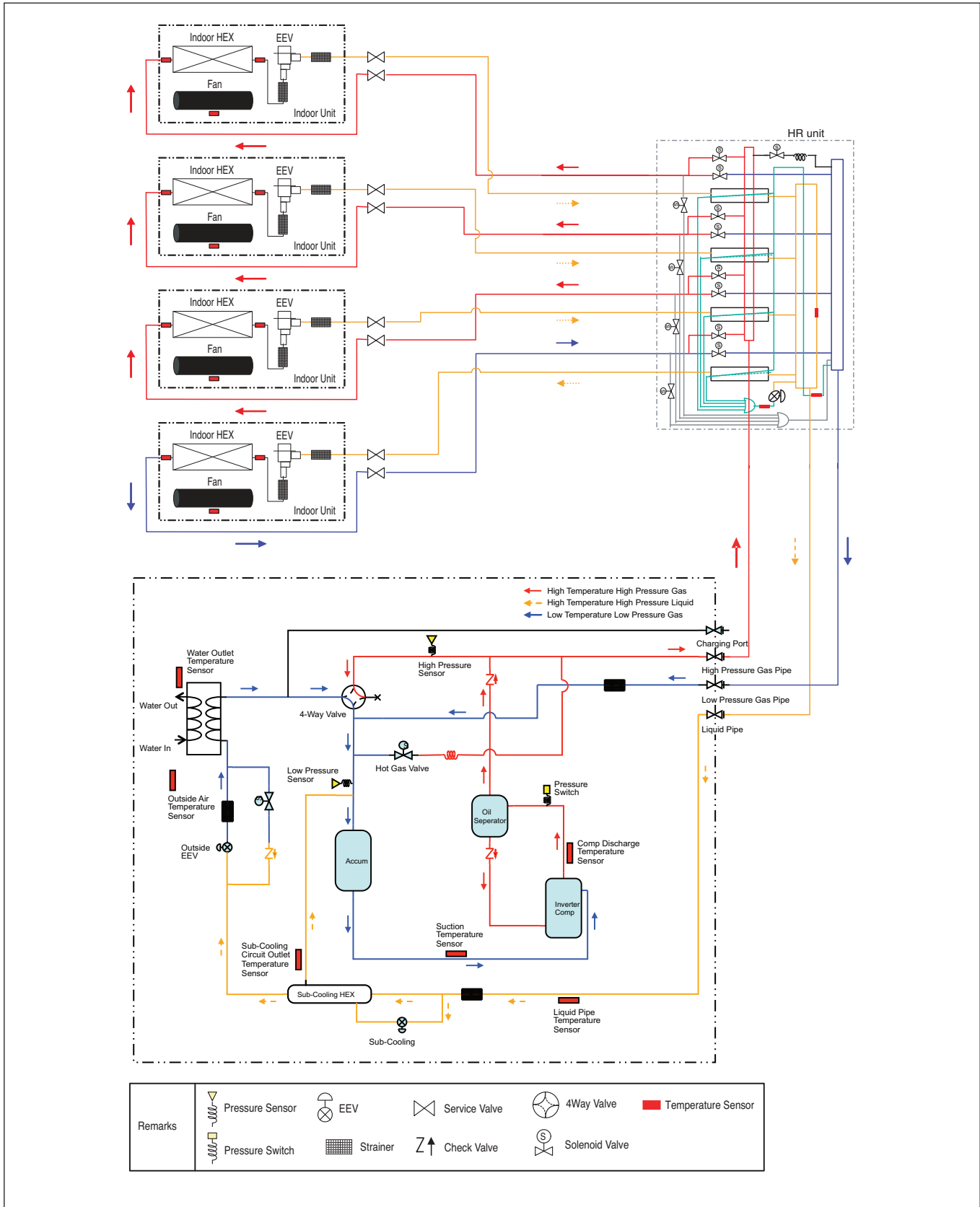
Heating Operation



Simultaneous Operation mode 1 (Cooling Based Operation)

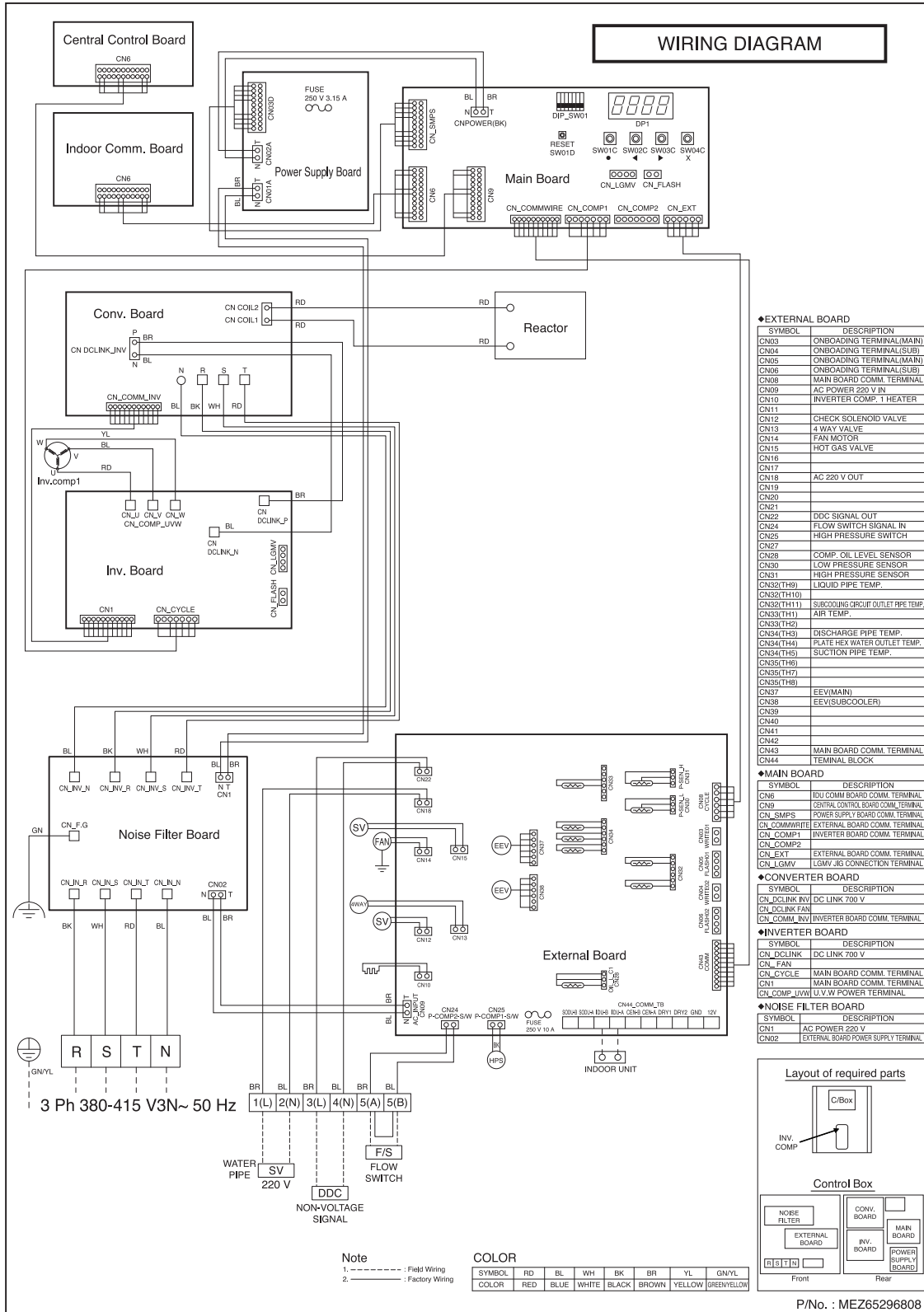


Simultaneous Operation mode 2(Heating Based Operation)

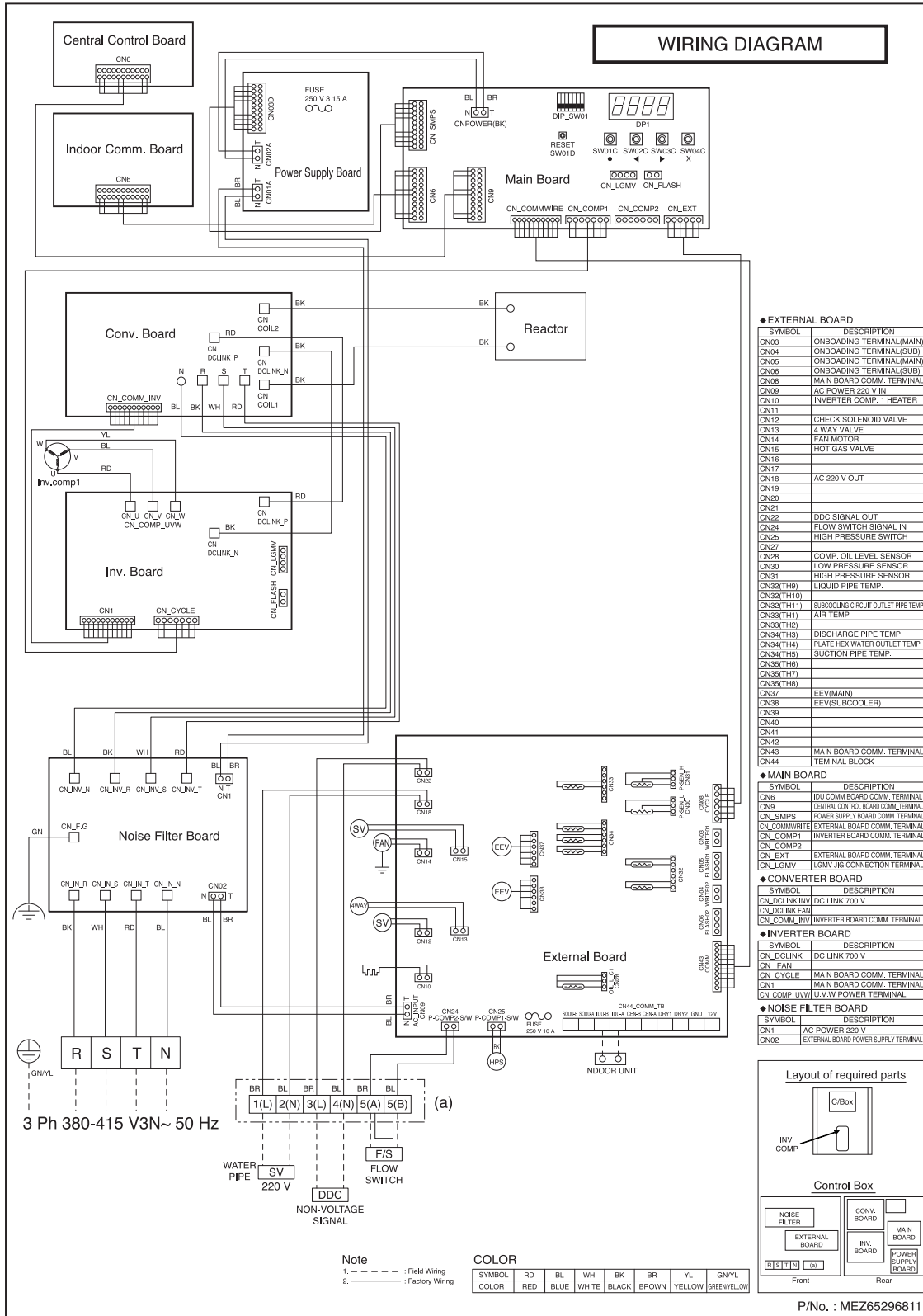


5. Wiring Diagrams

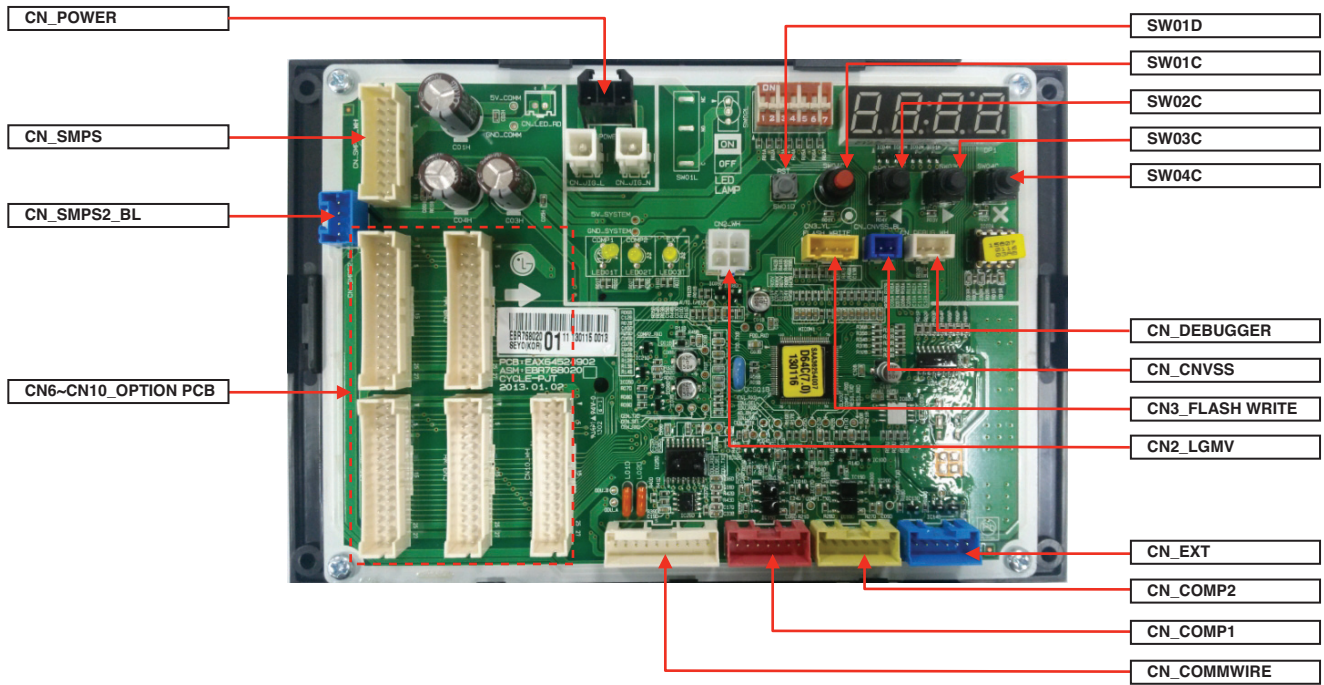
ARWB080LAS4, ARWB100LAS4, ARWB120LAS4, ARWB140LAS4



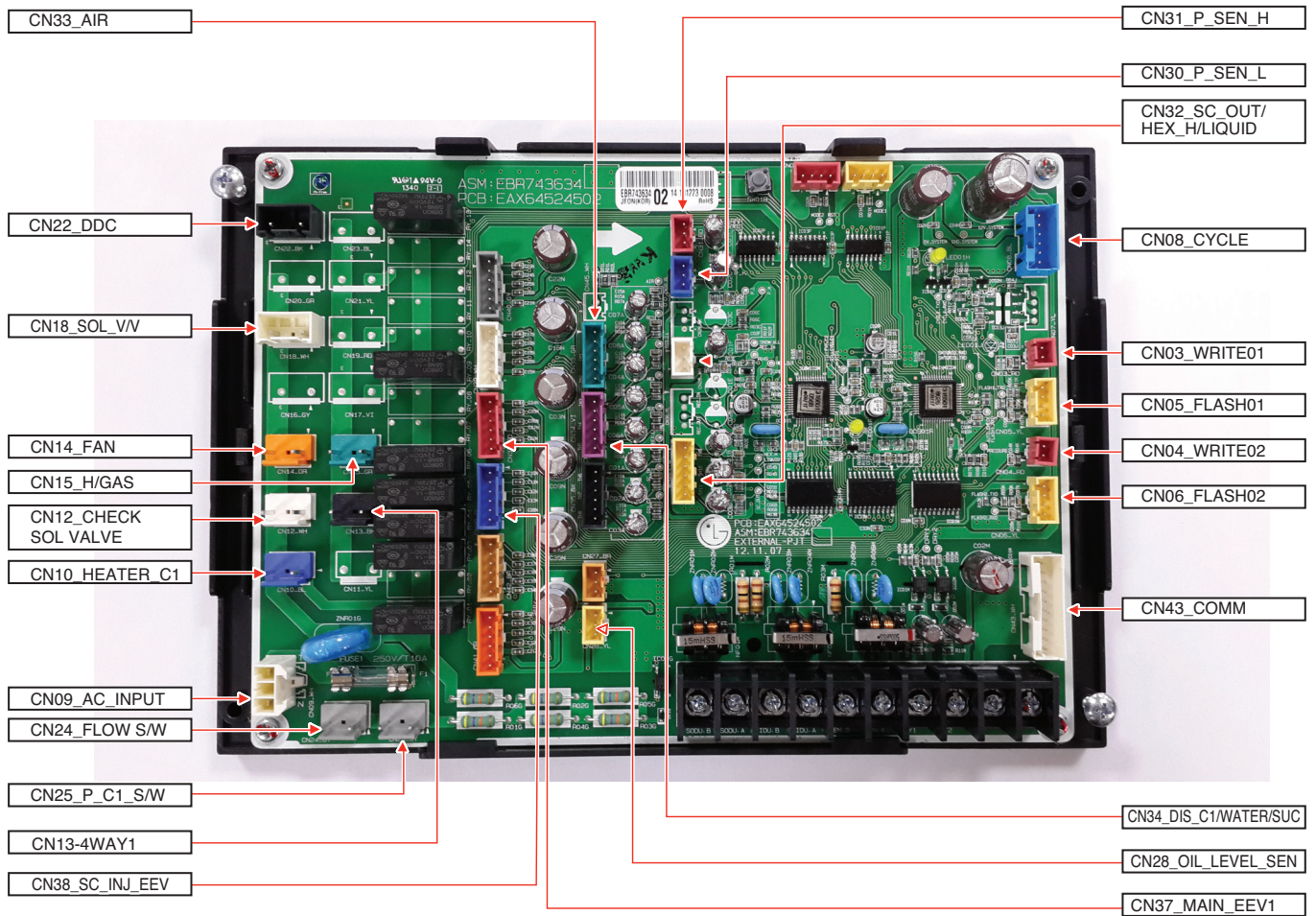
ARWB160LAS4, ARWB180LAS4, ARWB200LAS4



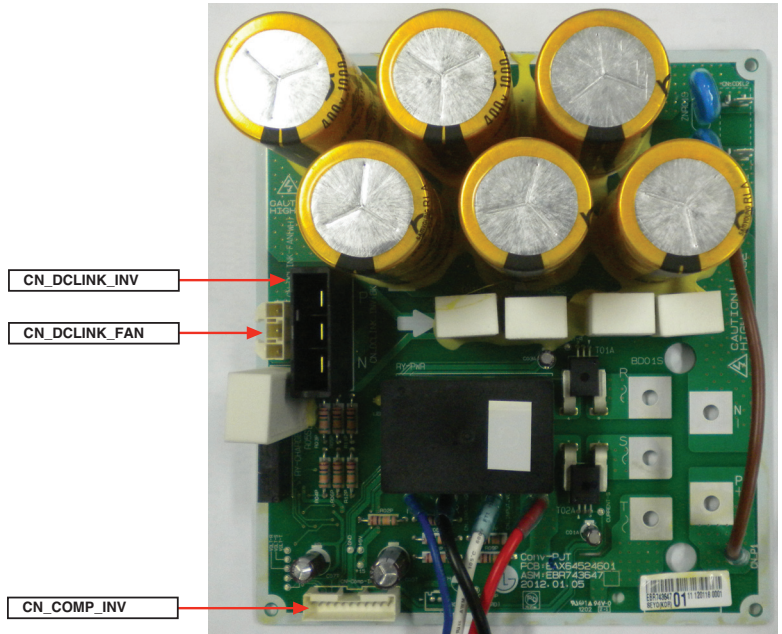
■ MAIN PCB



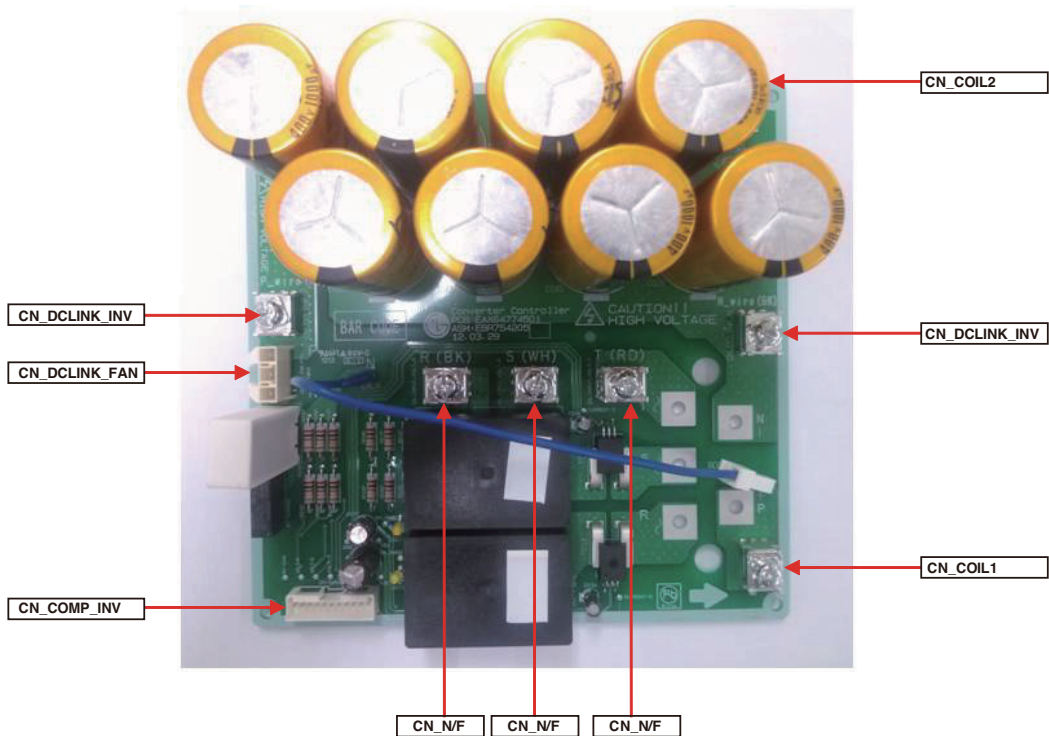
■ External PCB



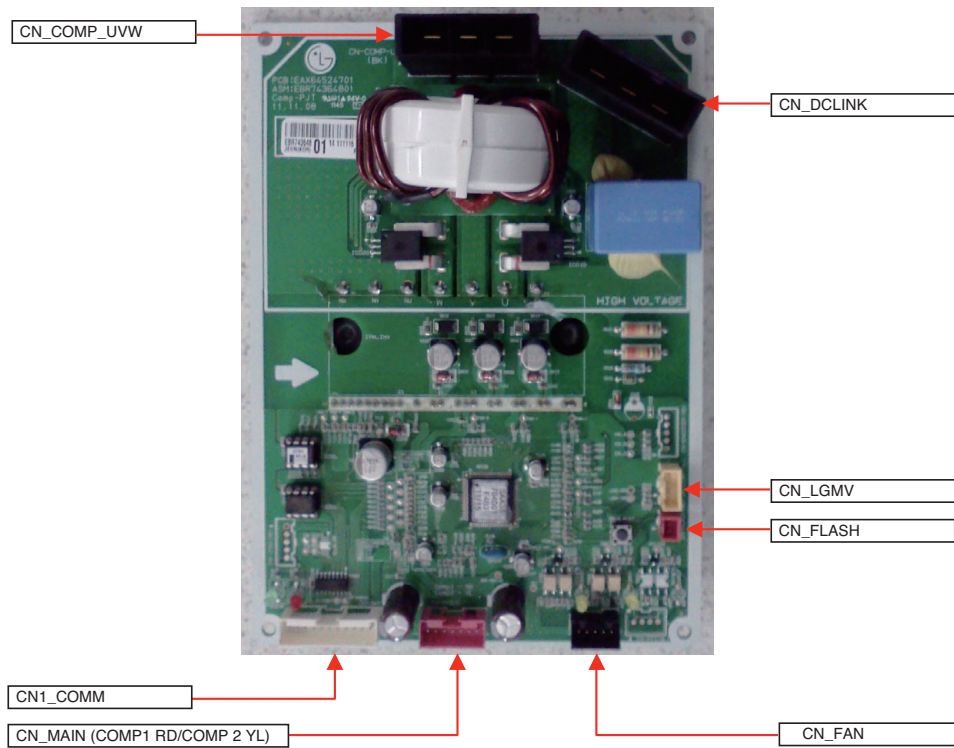
■ Converter PCB (8~14HP)



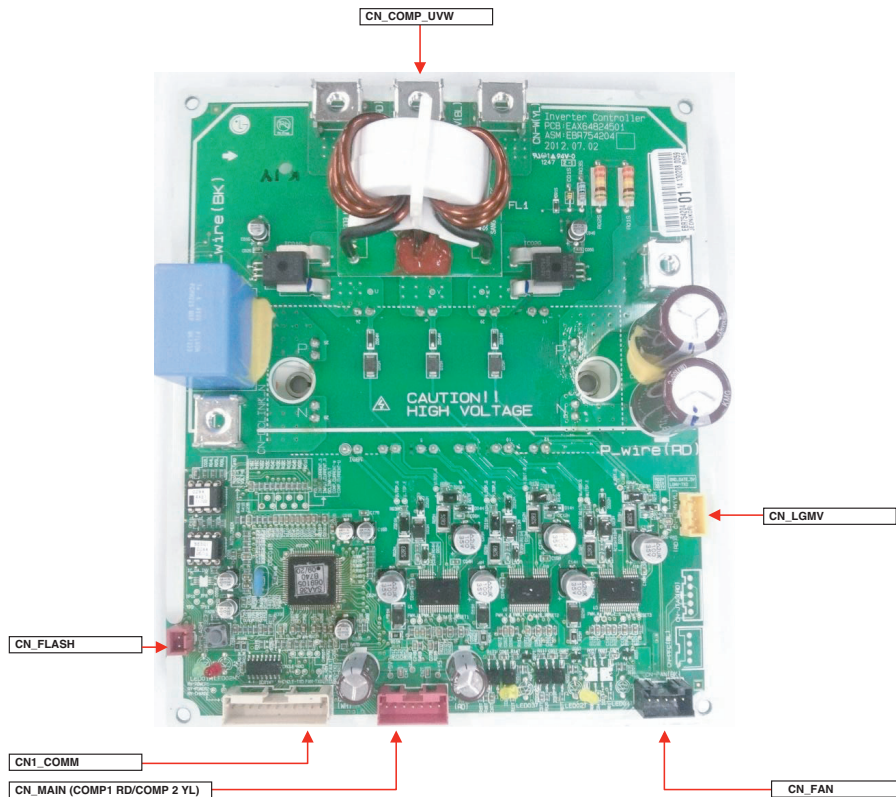
■ Converter PCB (16~20HP)



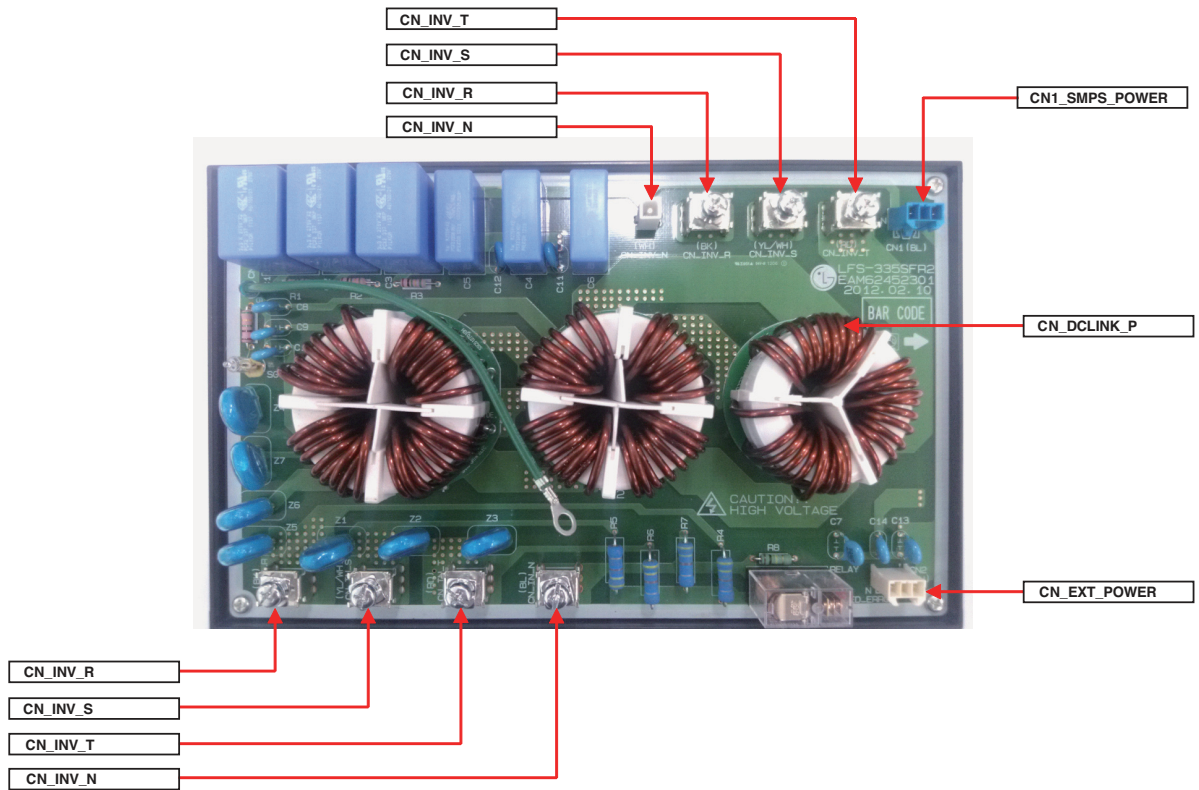
■ Inverter PCB (8~14HP)



■ Inverter PCB (16~20HP)



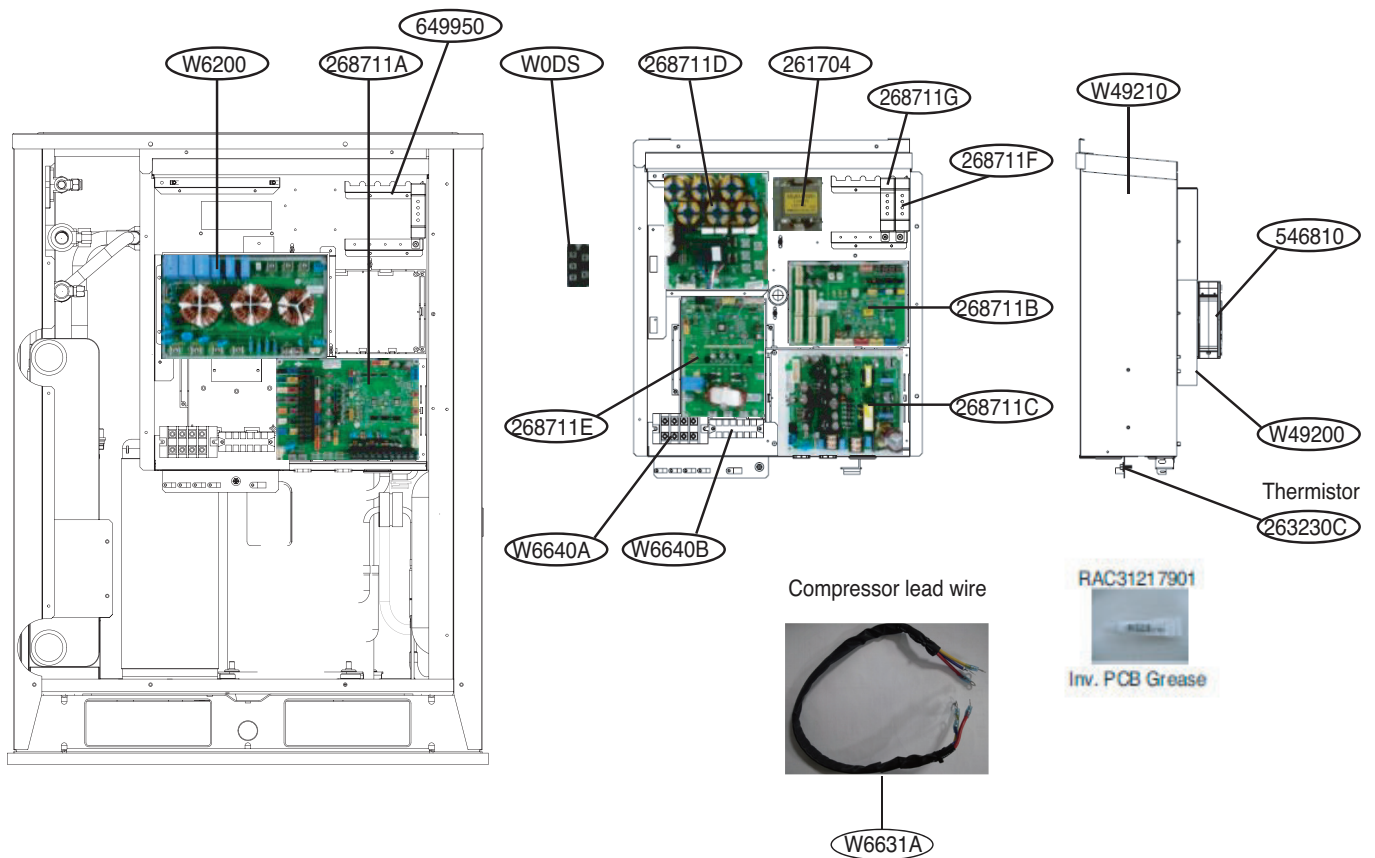
■ Noise filter (8~20HP)



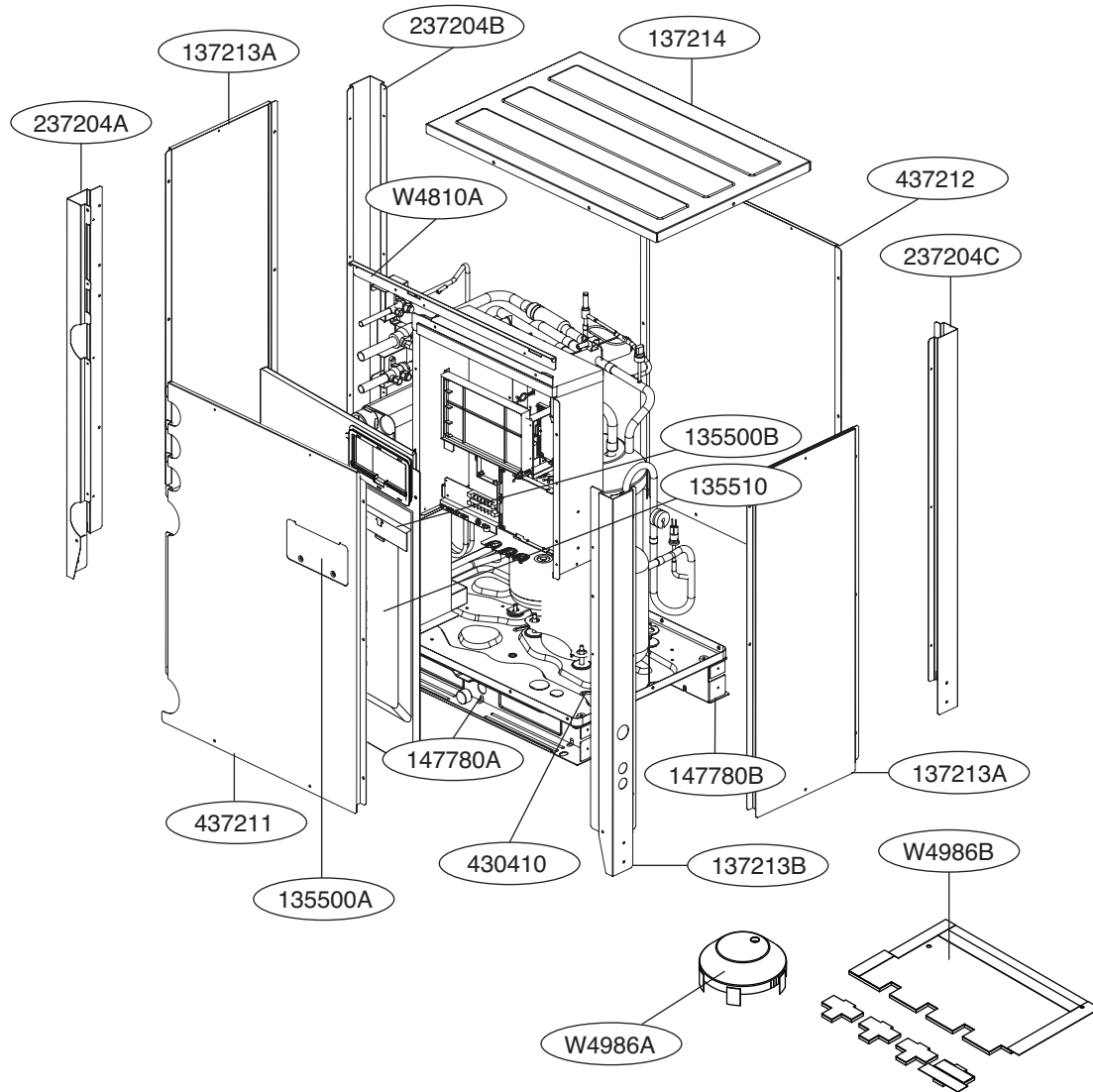
6. Exploded View

Outside Unit

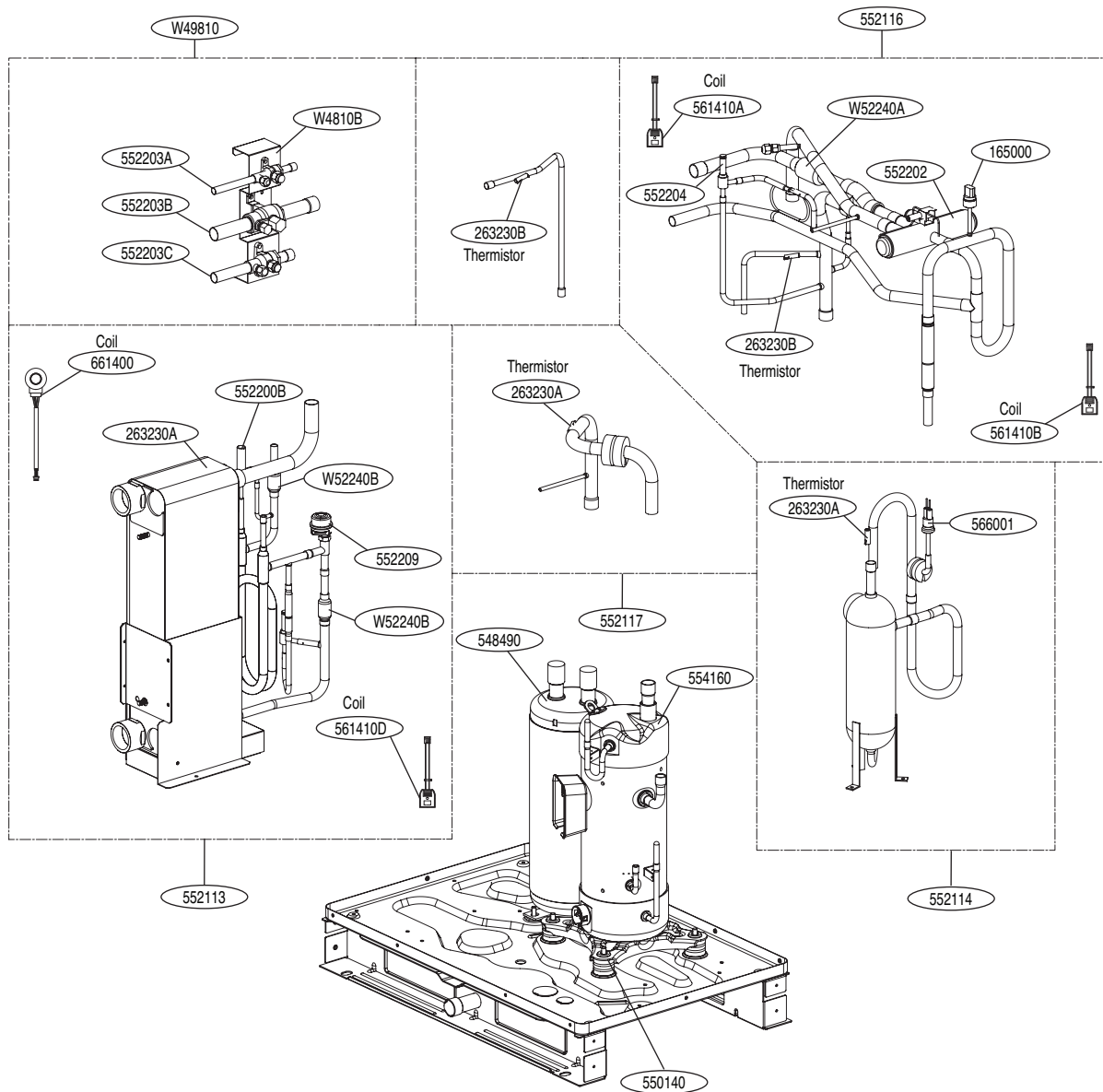
8~20HP (Control part)



8~20HP (Pannel part)

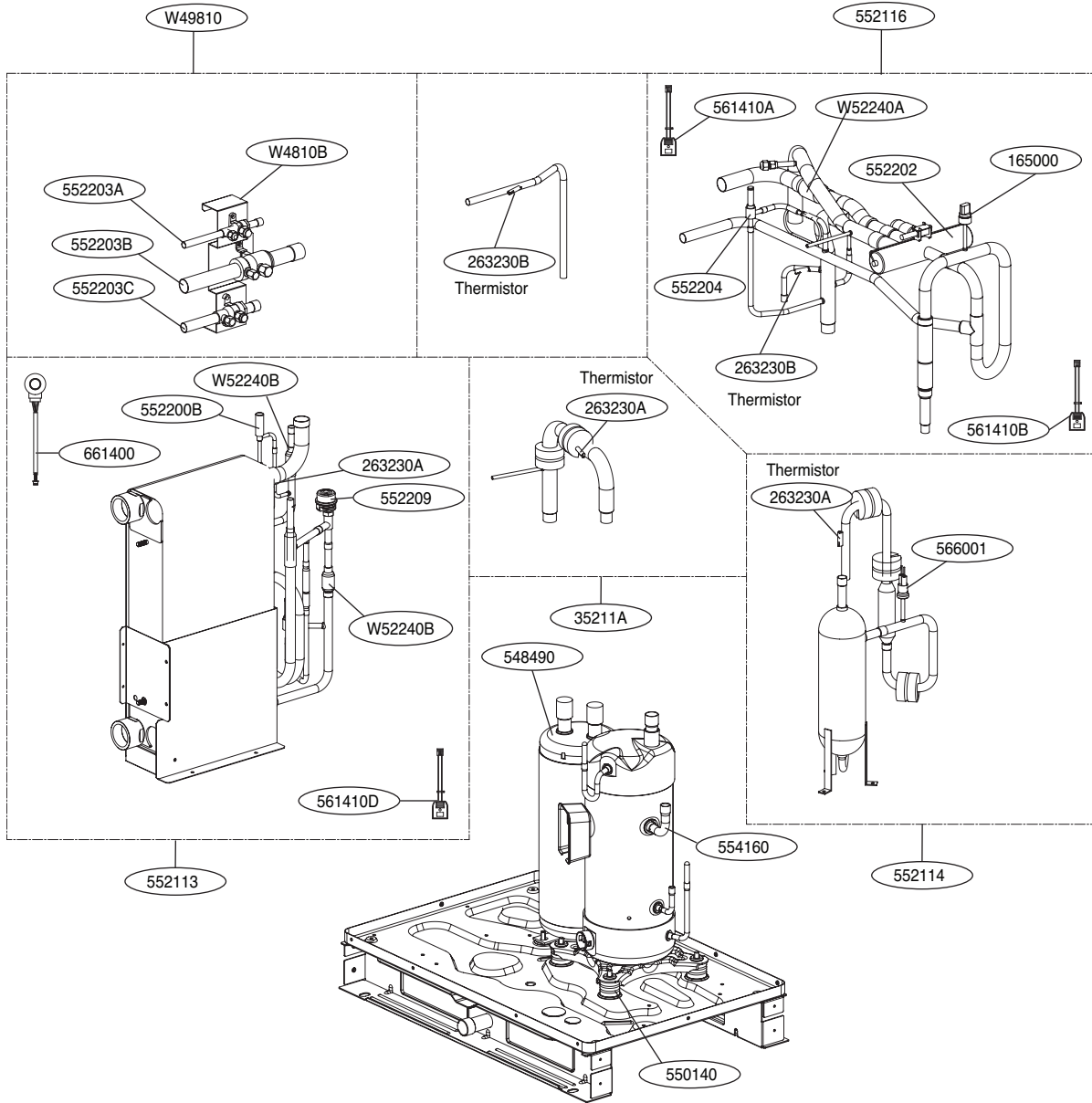


8~14HP (Cycle part)



Part	L/No	Sensor location	Housing color
Temp. Sensor 1	263230A	Inv. Discharge + Suction + Water	purple
Temp. Sensor 2	263230B	Liquid Pipe + Sub-cooler Out	yellow
Temp. Sensor 3	263230C	Air	green

16~20HP (Cycle part)



Part	L/No	Sensor location	Housing color
Temp. Sensor 1	263230A	Inv. Discharge + Suction + Water	purple
Temp. Sensor 2	263230B	Liquid Pipe + Sub-cooler Out	yellow
Temp. Sensor 3	263230C	Air	green



P/NO : MFL67103705

November, 2014