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MULTI V™ System
WATER II

Outdoor Unit R410A

SERVICE MANUAL R410A **(Exploded View)**

MODEL : ARWN Series
ARWB Series

CAUTION

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

ARWN / ARWB Series

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1. Specification

1.1 Heat Pump(208/230V)

HP(Equivalent horsepower)		HP	8	16	24
Model Name		Combination Unit	ARWN072BA2	ARWN144BA2	ARWN216BA2
		Independent Unit	ARWN072BA2	ARWN144BA2	ARWN144BA2 ARWN072BA2
Capacity	Cooling	kW	21.1	42.2	63.3
		Btu/h	72,000	144,000	216,000
	Heating	kW	23.7	47.5	71.2
		Btu/h	81,000	162,000	243,000
Input Power	Cooling	kW	4.4	8.8	13.2
	Heating	kW	4.55	9.14	13.69
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	psia	640	640	640
	Head Loss	psia	(3.8)x1	(6.2)x1	(6.2)x1 + (3.8)x1
	Rated Water Flow	GPM	(21.13)x1	(42.27)x1	(42.27)x1 + (21.13)x1
Compressor	Type		Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
	Combination		(Variable)x1	(Variable + Fixed)x1	(Variable + Fixed)x1 + (Variable)x1
	Piston Displacement	cm ³ /rev	(38.3)x1	(38.3 + 59.8)x1	(38.3 + 59.8)x1 + (38.3)x1
	Number of Revolution(@60Hz)	rev/min	(3,600)x1	(3,600 + 3,500)x1	(3,600 + 3,500)x1 + (3,600)x1
	Motor Output	kW	(4.13)x1	(4.13 + 5.28)x1	(4.13 + 5.28)x1 + (4.13)x1
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Oil Charge Amount	oz	(78.8)x1	(78.8 + 78.8)x1	(78.8 + 78.8)x1 + (78.8)x1	
Refrigerant	Liquid	inch(mm)	3/8(9.52)	1/2(12.7)	3/4(19.05)
Connecting Pipes	Gas	inch(mm)	7/8(22.2)	1-1/8(28.58)	1-3/8(34.9)
Water Connecting Pipes	Inlet		PT32A (Female)	PT40A (Female)	PT40A + PT32A (Female)
	Outlet		PT32A (Female)	PT40A (Female)	PT40A + PT32A (Female)
	Drain Outlet		20mm (Female)	20mm (Female)	20mm (Female)
Dimension(WxHxD)	inch		(30-13/32x44-3/32x21-1/2)x1	(30-13/32x44-3/32x21-1/2)x1	(30-13/32x44-3/32x21-1/2)x2
	mm		(772x1,120x547)x1	(772x1,120x547)x1	(772x1,120x547)x2
Net Weight	lb		(374.8)x1	(524.7)x1	(524.7)x1 + (374.8)x1
	kg		(170)x1	(238)x1	(238)x1 + (170)x1
Transmission Cable(CVV-SB)	mm ²		1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2
Refrigerant	Name		R410A	R410A	R410A
	Charge Amount	lb(kg)	16.1(7.3)	19.4(8.8)	19.4(8.8) + 16.1(7.3)
	Control Device		EEV	EEV	EEV
Range of Operation	Cooling	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
	Heating	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
Water Temp.	Simultaneous	°F/°C	-	-	-
Maximum Connectable No. of Indoor Units			16	32	49
Power Supply		ØV/Hz	3/208, 230/60	3/208, 230/60	3/208, 230/60

Notes:

1. 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 26.4ft

* Level Difference of Zero

* Power Supply Hertz 60Hz

2. Capacities are net capacities

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

4. Recommend operation temp: Outdoor 0~40°C [32~104°F]

Specification

HP(Equivalent horsepower)		HP	32	40	48
Model Name		Combination Unit	ARWN288BA2	ARWN360BA2	ARWN432BA2
		Independent Unit	ARWN144BA2 ARWN144BA2	ARWN144BA2 ARWN144BA2 ARWN072BA2	ARWN144BA2 ARWN144BA2 ARWN144BA2
Capacity	Cooling	kW	84.4	105.5	126.6
		Btu/h	288,000	360,000	432,000
	Heating	kW	95.0	118.7	142.4
		Btu/h	324,000	405,000	486,000
Input Power	Cooling	kW	17.6	22.0	26.4
	Heating	kW	18.28	22.83	27.38
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	psia	640	640	640
	Head Loss	psia	(6.2)×2	(6.2)×2 + (3.8)×1	(6.2)×3
	Rated Water Flow	GPM	(42.27)×2	(42.27)×2 + (21.13)×1	(42.27)×3
Compressor	Type		Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
	Combination		(Variable + Fixed)×2	(Variable + Fixed)×2 + (Variable)×1	(Variable + Fixed)×3
	Piston Displacement	cm ³ /rev	(38.3 + 59.8)×2	(38.3 + 59.8)×2 + (59.8)×1	(38.3 + 59.8)×3
	Number of Revolution(@60Hz)	rev/min	(3,600 + 3,500)×2	(3,600 + 3,500)×2 + (3,600)×1	(3,600 + 3,500)×3
	Motor Output	kW	(4.13 + 5.28)×2	(4.13 + 5.28)×2 + (4.13)×1	(4.13 + 5.28)×3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	oz	(78.8 + 78.8)×2	(78.8 + 78.8)×2 + (78.8)×1	(78.8 + 78.8)×3
Refrigerant	Liquid	inch(mm)	3/4(19.05)	3/4(19.05)	3/4(19.05)
Connecting Pipes	Gas	inch(mm)	1-5/8(41.3)	1-5/8(41.3)	1-5/8(41.3)
	Water	Inlet	PT40A + PT40A (Female)	PT40A + PT40A + PT32A (Female)	PT40A + PT40A + PT40A (Female)
Connecting Pipes	Outlet		PT40A + PT40A (Female)	PT40A + PT40A + PT32A (Female)	PT40A + PT40A + PT40A (Female)
	Drain Outlet		20mm (Female)	20mm (Female)	20mm (Female)
Dimension(W×H×D)		inch	(30-13/32×44-3/32×21-1/2)×2	(30-13/32×44-3/32×21-1/2)×3	(30-13/32×44-3/32×21-1/2)×3
		mm	(772×1,120×547)×2	(772×1,120×547)×3	(772×1,120×547)×3
Net Weight		lb	(524.7)×2	(524.7)×2 + (374.8)×1	(524.7)×3
		kg	(238)×2	(238)×2 + (170)×1	(238)×3
Transmission Cable(CVV-SB)		mm ²	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2
Refrigerant	Name		R410A	R410A	R410A
	Charge Amount	lb(kg)	19.4(8.8) + 19.4(8.8)	19.4(8.8) + 19.4(8.8) + 16.1(7.3)	19.4(8.8) + 19.4(8.8) + 19.4(8.8)
	Control Device		EEV	EEV	EEV
Range of Operation	Cooling	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
	Heating	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
Water Temp.	Simultaneous	°F/°C	-	-	-
Maximum Connectable No. of Indoor Units			64	64	64
Power Supply		ØV/Hz	3/208, 230/60	3/208, 230/60	3/208, 230/60

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 26.4ft
 - * Level Difference of Zero
 - * Power Supply Hertz 60Hz
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- Recommend operation temp: Outdoor 0~40°C [32~104°F]

1.2 Heat Pump(460V)

HP(Equivalent horsepower)		HP	10	20	30
Model Name		Combination Unit	ARWN096DA2	ARWN192DA2	ARWN290DA2
		Independent Unit	ARWN096DA2	ARWN192DA2	ARWN192DA2 ARWN096DA2
Capacity	Cooling	kW	28.0	56.0	84.0
		Btu/h	95,900	191,100	286,600
	Heating	kW	31.5	63.0	94.5
		Btu/h	107,500	225,000	322,500
Input Power	Cooling	kW	5.6	11.2	16.8
	Heating	kW	5.8	11.7	17.5
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	psia	640	640	640
	Head Loss	psia	(3.8)×1	(6.2)×1	(6.2)×1 + (3.8)×1
	Rated Water Flow	GPM	(25.36)×1	(50.72)×1	(50.72)×1 + (25.36)×1
Compressor	Type		Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
	Combination		(Variable)×1	(Variable + Fixed)×1	(Variable + Fixed)×1 + (Variable)×1
	Piston Displacement	cm ³ /rev	(52.0)×1	(52.0 + 81.0)×1	(52.0 + 81.0)×1 + (52.0)×1
	Number of Revolution(@60Hz)	rev/min	(3,600)×1	(3,600 + 3,469)×1	(3,600 + 3,469)×1 + (3,600)×1
	Motor Output	kW	(5.4)×1	(5.4 + 6.4)×1	(5.4 + 6.4)×1 + (5.4)×1
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	oz	(78.8)×1	(78.8 + 78.8)×1	(78.8 + 78.8)×1 + (78.8)×1
Refrigerant	Liquid	inch(mm)	3/8(9.52)	1/2(12.7)	3/4(19.05)
Connecting Pipes	Gas	inch(mm)	7/8(22.2)	1-1/8(28.58)	1-3/8(34.9)
Water Connecting Pipes	Inlet		PT32A (Female)	PT40A (Female)	PT40A + PT32A (Female)
	Outlet		PT32A (Female)	PT40A (Female)	PT40A + PT32A (Female)
	Drain Outlet		20mm (Female)	20mm (Female)	20mm (Female)
Dimension(WxHxD)		inch	(30-13/32x44-3/32x21-1/2)×1	(30-13/32x44-3/32x21-1/2)×1	(30-13/32x44-3/32x21-1/2)×2
		mm	(772×1,120×547)×1	(772×1,120×547)×1	(772×1,120×547)×2
Net Weight		lb	(374.8)×1	(524.7)×1	(524.7)×1 + (374.8)×1
		kg	(170)×1	(238)×1	(238)×1 + (170)×1
Transmission Cable(CVV-SB)		mm ²	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2
Refrigerant	Name		R410A	R410A	R410A
	Charge Amount	lb(kg)	16.1(7.3)	19.4(8.8)	19.4(8.8) + 16.1(7.3)
	Control Device		EEV	EEV	EEV
Range of Operation	Cooling	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
	Heating	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
Water Temp.	Simultaneous	°F/°C	-	-	-
Maximum Connectable No. of Indoor Units			16	32	49
Power Supply		ØV/Hz	3/460/60	3/460/60	3/460/60

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 26.4ft
 - * Level Difference of Zero
 - * Power Supply Hertz 60Hz
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- Recommend operation temp: Outdoor 0~40°C [32~104°F]

Specification

HP(Equivalent horsepower)		HP	40	50	60
Model Name		Combination Unit	ARWN390DA2	ARWN480DA2	ARWN580DA2
		Independent Unit	ARWN192DA2 ARWN192DA2	ARWN192DA2 ARWN192DA2 ARWN096DA2	ARWN192DA2 ARWN192DA2 ARWN192DA2
Capacity	Cooling	kW	112.0	140.0	168.0
		Btu/h	382,200	477,800	573,400
	Heating	kW	126.0	157.5	189.0
		Btu/h	429,900	537,500	645,000
Input Power	Cooling	kW	22.4	28	33.6
	Heating	kW	23.4	29.2	35.0
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	psia	640	640	640
	Head Loss	psia	(6.2)×2	(6.2)×2 + (3.8)×1	(6.2)×3
	Rated Water Flow	GPM	(50.72)×2	(50.72)×2 + (25.36)×1	(50.72)×3
Compressor	Type		Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
	Combination		(Variable + Fixed)×2	(Variable + Fixed)×2 + (Variable)×1	(Variable + Fixed)×3
	Piston Displacement	cm ³ /rev	(52.0 + 81.0) × 2	(52.0 + 81.0) × 2 + (52.0)×1	(52.0 + 81.0) × 3
	Number of Revolution(@60Hz)	rev/min	(3,600 + 3,469)×2	(3,600 + 3,469)×2 + (3,600)×1	(3,600 + 3,469)×3
	Motor Output	kW	(5.4 + 6.4)×2	(5.4 + 6.4) × 2 + (5.4)×1	(5.4 + 6.4) × 3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	oz	(78.8 + 78.8)×2	(78.8 + 78.8)×2 + (78.8)×1	(78.8 + 78.8)×3
Refrigerant	Liquid	inch(mm)	3/4(19.05)	3/4(19.05)	3/4(19.05)
Connecting Pipes	Gas	inch(mm)	1-5/8(41.3)	1-5/8(41.3)	1-5/8(41.3)
Water Connecting Pipes	Inlet		PT40A + PT40A (Female)	PT40A + PT40A + PT32A (Female)	PT40A + PT40A + PT40A (Female)
	Outlet		PT40A + PT40A (Female)	PT40A + PT40A + PT32A (Female)	PT40A + PT40A + PT40A (Female)
	Drain Outlet		20mm (Female)	20mm (Female)	20mm (Female)
Dimension(W×H×D)		inch	(30-13/32×44-3/32×21-1/2)×2	(30-13/32×44-3/32×21-1/2)×3	(30-13/32×44-3/32×21-1/2)×3
		mm	(772×1,120×547)×2	(772×1,120×547)×3	(772×1,120×547)×3
Net Weight		lb	(524.7)×2	(524.7)×2 + (374.8)×1	(524.7)×3
		kg	(238)×2	(238)×2 + (170)×1	(238)×3
Transmission Cable(CVV-SB)		mm ²	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2
Refrigerant	Name		R410A	R410A	R410A
	Charge Amount	lb(kg)	19.4(8.8) + 19.4(8.8)	19.4(8.8) + 19.4(8.8) + 16.1(7.3)	19.4(8.8) + 19.4(8.8) + 19.4(8.8)
	Control Device		EEV	EEV	EEV
Range of Operation	Cooling	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
	Heating	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
Water Temp.	Simultaneous	°F/°C	-	-	-
Maximum Connectable No. of Indoor Units			64	64	64
Power Supply		∅V/Hz	3/460/60	3/460/60	3/460/60

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 26.4ft
 * Level Difference of Zero
 * Power Supply Hertz 60Hz
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- Recommend operation temp: Outdoor 0~40°C [32~104°F]

1.3 Sync.(208/230V)

HP(Equivalent horsepower)		HP	8	16	24
Model Name		Combination Unit	ARWB072BA2	ARWB144BA2	ARWB216BA2
		Independent Unit	ARWB072BA2	ARWB144BA2	ARWB144BA2 ARWB072BA2
Capacity	Cooling	kW	21.1	42.2	63.3
		Btu/h	72,000	144,000	216,000
	Heating	kW	23.7	47.5	71.2
		Btu/h	81,000	162,000	243,000
Input Power	Cooling	kW	4.4	8.8	13.2
	Heating	kW	4.55	9.14	13.69
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	psia	640	640	640
	Head Loss	psia	(3.8)×1	(6.2)×1	(6.2)×1 + (3.8)×1
	Rated Water Flow	GPM	(21.13)×1	(42.27)×1	(42.27)×1 + (21.13)×1
Compressor	Type		Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
	Combination		(Variable)×1	(Variable + Fixed)×1	(Variable + Fixed)×1 + (Variable)×1
	Piston Displacement	cm ³ /rev	(38.3)×1	(38.3 + 59.8)×1	(38.3 + 59.8)×1 + (38.3)×1
	Number of Revolution(@60Hz)	rev/min	(3,600)×1	(3,600 + 3,500)×1	(3,600 + 3,500)×1 + (3,600)×1
	Motor Output	kW	(4.13)×1	(4.13 + 5.28)×1	(4.13 + 5.28)×1 + (4.13)×1
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	oz	(78.8)×1	(78.8 + 78.8)×1	(78.8 + 78.8)×1 + (78.8)×1
Refrigerant	Liquid	inch(mm)	3/8(9.52)	1/2(12.7)	3/4(19.05)
Connecting Pipes	Low Pressure Gas	inch(mm)	7/8(22.2)	1-1/8(28.58)	1-3/8(34.9)
	High Pressure Gas	inch(mm)	3/4(19.05)	7/8(22.2)	1-1/8(28.58)
Water Connecting Pipes	Inlet		PT32A (Female)	PT40A (Female)	PT40A + PT32A (Female)
	Outlet		PT32A (Female)	PT40A (Female)	PT40A + PT32A (Female)
	Drain Outlet		20mm (Female)	20mm (Female)	20mm (Female)
Dimension(W×H×D)		inch	(30-13/32×44-3/32×21-1/2)×1	(30-13/32×44-3/32×21-1/2)×1	(30-13/32×44-3/32×21-1/2)×2
		mm	(772×1,120×547)×1	(772×1,120×547)×1	(772×1,120×547)×2
Net Weight		lb	(374.8)×1	(524.7)×1	(524.7)×1 + (374.8)×1
		kg	(170)×1	(238)×1	(238)×1 + (170)×1
Transmission Cable(CVV-SB)		mm ²	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2
Refrigerant	Name		R410A	R410A	R410A
	Charge Amount	lb(kg)	16.1(7.3)	19.4(8.8)	19.4(8.8) + 16.1(7.3)
	Control Device		EEV	EEV	EEV
Range of Operation	Cooling	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
	Heating	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
Water Temp.	Simultaneous	°F/°C	-	-	-
Maximum Connectable No. of Indoor Units			16	32	49
Power Supply		Ø/N/Hz	3/208, 230/60	3/208, 230/60	3/208, 230/60

Notes:

1. 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 26.4ft

* Level Difference of Zero

* Power Supply Hertz 60Hz

2. Capacities are net capacities

3. Further improvement our policy of innovation some specifications may be changed without notification

4. Recommend operation temp: Outdoor 0~40°C [32~104°F]

Specification

HP(Equivalent horsepower)		HP	32	40	48
Model Name		Combination Unit	ARWB288BA2	ARWB360BA2	ARWB432BA2
		Independent Unit	ARWB144BA2 ARWB144BA2	ARWB144BA2 ARWB144BA2 ARWB072BA2	ARWB144BA2 ARWB144BA2 ARWB144BA2
Capacity	Cooling	kW	84.4	105.5	126.6
		Btu/h	288,000	360,000	432,000
	Heating	kW	95.0	118.7	142.4
		Btu/h	324,000	405,000	486,000
Input Power	Cooling	kW	17.6	22.0	26.4
	Heating	kW	18.28	22.83	27.38
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	psia	640	640	640
	Head Loss	psia	(6.2)×2	(6.2)×2 + (3.8)×1	(6.2)×3
	Rated Water Flow	GPM	(42.27)×2	(42.27)×2 + (21.13)×1	(42.27)×3
Compressor	Type		Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
	Combination		(Variable + Fixed)×2	(Variable + Fixed)×2 + (Variable)×1	(Variable + Fixed)×3
	Piston Displacement	cm ³ /rev	(38.3 + 59.8)×2	(38.3 + 59.8)×2 + (59.8)×1	(38.3 + 59.8)×3
	Number of Revolution(@60Hz)	rev/min	(3,600 + 3,500)×2	(3,600 + 3,500)×2 + (3,600)×1	(3,600 + 3,500)×3
	Motor Output	kW	(4.13 + 5.28)×2	(4.13 + 5.28)×2 + (4.13)×1	(4.13 + 5.28)×3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	oz	(78.8 + 78.8)×2	(78.8 + 78.8)×2 + (78.8)×1	(78.8 + 78.8)×3
Refrigerant	Liquid	inch(mm)	3/4(19.05)	3/4(19.05)	3/4(19.05)
Connecting Pipes	Low Pressure Gas	inch(mm)	1-5/8(41.3)	1-5/8(41.3)	1-5/8(41.3)
	High Pressure Gas	inch(mm)	1-3/8(34.9)	1-3/8(34.9)	1-3/8(34.9)
Water Connecting Pipes	Inlet		PT40A + PT40A (Female)	PT40A + PT40A + PT32A (Female)	PT40A + PT40A + PT40A (Female)
	Outlet		PT40A + PT40A (Female)	PT40A + PT40A + PT32A (Female)	PT40A + PT40A + PT40A (Female)
	Drain Outlet		20mm (internal thread)	20mm (Female)	20mm (Female)
Dimension(WxHxD)		inch	(30-13/32x44-3/32x21-1/2)×2	(30-13/32x44-3/32x21-1/2)×3	(30-13/32x44-3/32x21-1/2)×3
		mm	(772×1,120×547)×2	(772×1,120×547)×3	(772×1,120×547)×3
Net Weight		lb	(524.7)×2	(524.7)×2 + (374.8)×1	(524.7)×3
		kg	(238)×2	(238)×2 + (170)×1	(238)×3
Transmission Cable(CVV-SB)		mm ²	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2
Refrigerant	Name		R410A	R410A	R410A
	Charge Amount	lb(kg)	19.4(8.8) + 19.4(8.8)	19.4(8.8) + 19.4(8.8) + 16.1(7.3)	19.4(8.8) + 19.4(8.8) + 19.4(8.8)
	Control Device		EEV	EEV	EEV
Range of Operation	Cooling	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
	Heating	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
Water Temp.	Simultaneous	°F/°C	-	-	-
Maximum Connectable No. of Indoor Units			64	64	64
Power Supply		ØV/Hz	3/208, 230/60	3/208, 230/60	3/208, 230/60

Notes:

1. 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 26.4ft

* Level Difference of Zero

* Power Supply Hertz 60Hz

2. Capacities are net capacities

3. Further improvement our policy of innovation some specifications may be changed without notification

4. Recommend operation temp: Outdoor 0~40°C [32~104°F]

1.4 Sync.(460V)

HP(Equivalent horsepower)		HP	10	20	30
Model Name		Combination Unit	ARWB096DA2	ARWB192DA2	ARWB290DA2
		Independent Unit	ARWB096DA2	ARWB192DA2	ARWB192DA2 ARWB096DA2
Capacity	Cooling	kW	28.0	56.0	84.0
		Btu/h	95,900	191,100	286,600
	Heating	kW	31.5	63.0	94.5
		Btu/h	107,500	225,000	322,500
Input Power	Cooling	kW	5.6	11.2	16.8
	Heating	kW	5.8	11.7	17.5
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	psia	640	640	640
	Head Loss	psia	(3.8)×1	(6.2)×1	(6.2)×1 + (3.8)×1
	Rated Water Flow	GPM	(25.36)×1	(50.72)×1	(50.72)×1 + (25.36)×1
Compressor	Type		Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
	Combination		(Variable)×1	(Variable + Fixed)×1	(Variable + Fixed)×1 + (Variable)×1
	Piston Displacement	cm ³ /rev	(52.0)×1	(52.0+81.0)×1	(52.0+81.0)×1 + (52.0)×1
	Number of Revolution(@60Hz)	rev/min	(3,600)×1	(3,600 + 3,469)×1	(3,600 + 3,469)×1 + (3,600)×1
	Motor Output	kW	(5.4)×1	(5.4 + 6.4)×1	(5.4 + 6.4)×1 + (5.4)×1
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	oz	(78.8)×1	(78.8 + 78.8)×1	(78.8 + 78.8)×1 + (78.8)×1
Refrigerant	Liquid	inch(mm)	3/8(9.52)	1/2(12.7)	3/4(19.05)
Connecting Pipes	Low Pressure Gas	inch(mm)	7/8(22.2)	1-1/8(28.58)	1-3/8(34.9)
	High Pressure Gas	inch(mm)	3/4(19.05)	7/8(22.2)	1-1/8(28.58)
Water Connecting Pipes	Inlet		PT32A (Female)	PT40A (Female)	PT40A + PT32A (Female)
	Outlet		PT32A (Female)	PT40A (Female)	PT40A + PT32A (Female)
	Drain Outlet		20mm (Female)	20mm (Female)	20mm (Female)
Dimension(W×H×D)	inch		(30-13/32×44-3/32×21-1/2)×1	(30-13/32×44-3/32×21-1/2)×1	(30-13/32×44-3/32×21-1/2)×2
	mm		(772×1,120×547)×1	(772×1,120×547)×1	(772×1,120×547)×2
Net Weight	lb		(374.8)×1	(524.7)×1	(524.7)×1 + (374.8)×1
	kg		(170)×1	(238)×1	(238)×1 + (170)×1
Transmission Cable(CVV-SB)		mm ²	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2
Refrigerant	Name		R410A	R410A	R410A
	Charge Amount	lb(kg)	16.1(7.3)	19.4(8.8)	19.4(8.8) + 16.1(7.3)
	Control Device		EEV	EEV	EEV
Range of Operation	Cooling	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
	Heating	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
Water Temp.	Simultaneous	°F/°C	-	-	-
Maximum Connectable No. of Indoor Units			16	32	49
Power Supply		ØV/Hz	3/460/60	3/460/60	3/460/60

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 26.4ft

* Level Difference of Zero

* Power Supply Hertz 60Hz

- Capacities are net capacities
- Further improvement our policy of innovation some specifications may be changed without notification
- Recommend operation temp: Outdoor 0~40°C [32~104°F]

Specification

HP(Equivalent horsepower)		HP	40	50	60
Model Name		Combination Unit	ARWB390DA2	ARWB480DA2	ARWB580DA2
		Independent Unit	ARWB192DA2 ARWB192DA2	ARWB192DA2 ARWB192DA2 ARWB096DA2	ARWB192DA2 ARWB192DA2 ARWB192DA2
Capacity	Cooling	kW	112.0	140.0	168.0
		Btu/h	382,200	477,800	573,400
	Heating	kW	126.0	157.5	189.0
		Btu/h	429,900	537,500	645,000
Input Power	Cooling	kW	22.4	28	33.6
	Heating	kW	23.4	29.2	35.0
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	psia	640	640	640
	Head Loss	psia	(6.2)×2	(6.2)×2 + (3.8)×1	(6.2)×3
	Rated Water Flow	GPM	(50.72)×2	(50.72)×2 + (25.36)×1	(50.72)×3
Compressor	Type		Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
	Combination		(Variable + Fixed)×2	(Variable + Fixed)×2 + (Variable)×1	(Variable + Fixed)×3
	Piston Displacement	cm ³ /rev	(52.0+81.0)×2	(52.0 + 81.0) × 2 + (52.0)×1	(52.0+81.0)×3
	Number of Revolution(@60Hz)	rev/min	(3,600 + 3,469)×2	(3,600 + 3,469)×2 + (3,600)×1	(3,600 + 3,469)×3
	Motor Output	kW	(5.4 + 6.4)×2	(5.4 + 6.4)×2 + (5.4)×1	(5.4 + 6.4)×3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge Amount	oz	(78.8 + 78.8)×2	(78.8 + 78.8)×2 + (78.8)×1	(78.8 + 78.8)×3
Refrigerant	Liquid	inch(mm)	3/4(19.05)	3/4(19.05)	3/4(19.05)
Connecting Pipes	Low Pressure Gas	inch(mm)	1-5/8(41.3)	1-5/8(41.3)	1-5/8(41.3)
	High Pressure Gas	inch(mm)	1-3/8(34.9)	1-3/8(34.9)	1-3/8(34.9)
Water Connecting Pipes	Inlet		PT40A + PT40A (Female)	PT40A + PT40A + PT32A (Female)	PT40A + PT40A + PT40A (Female)
	Outlet		PT40A + PT40A (Female)	PT40A + PT40A + PT32A (Female)	PT40A + PT40A + PT40A (Female)
	Drain Outlet		20mm (Female)	20mm (Female)	20mm (Female)
Dimension(W×H×D)		inch	(30-13/32×44-3/32×21-1/2)×2	(30-13/32×44-3/32×21-1/2)×3	(30-13/32×44-3/32×21-1/2)×3
		mm	(772×1,120×547)×2	(772×1,120×547)×3	(772×1,120×547)×3
Net Weight		lb	(524.7)×2	(524.7)×2 + (374.8)×1	(524.7)×3
		kg	(238)×2	(238)×2 + (170)×1	(238)×3
Transmission Cable(CVV-SB)		mm ²	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2	1.0 ~ 1.5 × 2
Refrigerant	Name		R410A	R410A	R410A
	Charge Amount	lb(kg)	19.4(8.8) + 19.4(8.8)	19.4(8.8) + 19.4(8.8) + 16.1(7.3)	19.4(8.8) + 19.4(8.8) + 19.4(8.8)
	Control Device		EEV	EEV	EEV
Range of Operation	Cooling	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
	Heating	°F/°C	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45	50 ~ 113 / 10 ~ 45
Water Temp.	Simultaneous	°F/°C	-	-	-
Maximum Connectable No. of Indoor Units			64	64	64
Power Supply		ØV/Hz	3/460/60	3/460/60	3/460/60

Notes:

1. 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 26.4ft

* Level Difference of Zero

* Power Supply Hertz 60Hz

2. Capacities are net capacities

3. Further improvement our policy of innovation some specifications may be changed without notification

4. Recommend operation temp: Outdoor 0~40°C [32~104°F]

2. Functions

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

O : Applied X : Not applied - : No reaction

Option : Model name & price are different according to options, and assembled in factory with main unit

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

Category	Device	Water II
CAC Network	Simple Central Controller	PQCSB101S0
	Power Distribution Indicator(PDI)	PQNUD1S00
	Cool/Heat Selector(Outdoor Unit)	PRDSBM
	Dry contact(Indoor Unit)	PQDSB
	New outdoor dry contact	PQDSBCDVM0
	AC Smart II	PQCSW320A1E
	ACP	PQCPA11A1E/PQCPB11A1E
	AC Manager	PQCSS520A0E
	LONWORKS Gateway (BNU-LW)	PQNFB16A1
	Remote controller	PQRCVSL0/ PQRCVSL0QW (Wired remote) PQWRHDF0 (Remote)
	BACnet Gateway (BNU-BAC)	PQNFB17B0
Program	LG MV	Option
Other	Y branch	Accessory
	Header branch	Accessory

O : Applied X : Not applied - : No reaction

Option : Model name & price are different according to options, and assembled in factory with main unit

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

3. Dimensions

Outside Unit ARWN096DA2 ARWN192DA2 ARWN072BA2 ARWN144BA2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">W</td> <td style="width: 10%;">mm(inch)</td> <td style="width: 80%;">772(30-13/32)</td> </tr> <tr> <td>H</td> <td>mm(inch)</td> <td>1,120(44-3/32)</td> </tr> <tr> <td>D</td> <td>mm(inch)</td> <td>547(21-17/32)</td> </tr> <tr> <td>L1</td> <td>mm(inch)</td> <td>1,027(40-7/16)</td> </tr> <tr> <td>L2</td> <td>mm(inch)</td> <td>1,057(41-5/8)</td> </tr> <tr> <td>L3</td> <td>mm(inch)</td> <td>597(23-1/2)</td> </tr> <tr> <td>L4</td> <td>mm(inch)</td> <td>445(17-17/32)</td> </tr> <tr> <td>L5</td> <td>mm(inch)</td> <td>325(12-13/16)</td> </tr> <tr> <td>L6</td> <td>mm(inch)</td> <td>235(9-1/4)</td> </tr> <tr> <td>L7</td> <td>mm(inch)</td> <td>599(23-19/32)</td> </tr> <tr> <td>L8</td> <td>mm(inch)</td> <td>682(32-27/32)</td> </tr> </table>	W	mm(inch)	772(30-13/32)	H	mm(inch)	1,120(44-3/32)	D	mm(inch)	547(21-17/32)	L1	mm(inch)	1,027(40-7/16)	L2	mm(inch)	1,057(41-5/8)	L3	mm(inch)	597(23-1/2)	L4	mm(inch)	445(17-17/32)	L5	mm(inch)	325(12-13/16)	L6	mm(inch)	235(9-1/4)	L7	mm(inch)	599(23-19/32)	L8	mm(inch)	682(32-27/32)	CHASSIS CODE: UWB
W	mm(inch)	772(30-13/32)																																	
H	mm(inch)	1,120(44-3/32)																																	
D	mm(inch)	547(21-17/32)																																	
L1	mm(inch)	1,027(40-7/16)																																	
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L6	mm(inch)	235(9-1/4)																																	
L7	mm(inch)	599(23-19/32)																																	
L8	mm(inch)	682(32-27/32)																																	

Front view showing dimensions L1, L2, L3, L4, L5, L6, L7, L8, H, D, W and pipe locations: Water Outlet, Water Inlet (77(3-1/32)), Liquid Pipe (63(2-15/32)), Gas Pipe (92(3-5/8)), High/Low Pressure Common (70(2-3/4)).

Top view showing dimensions L1, L2, L3, L4, L5, L6, L7, L8, H, D, W.

Side view showing dimensions L1, L2, L3, L4, L5, L6, L7, L8, H, D, W.

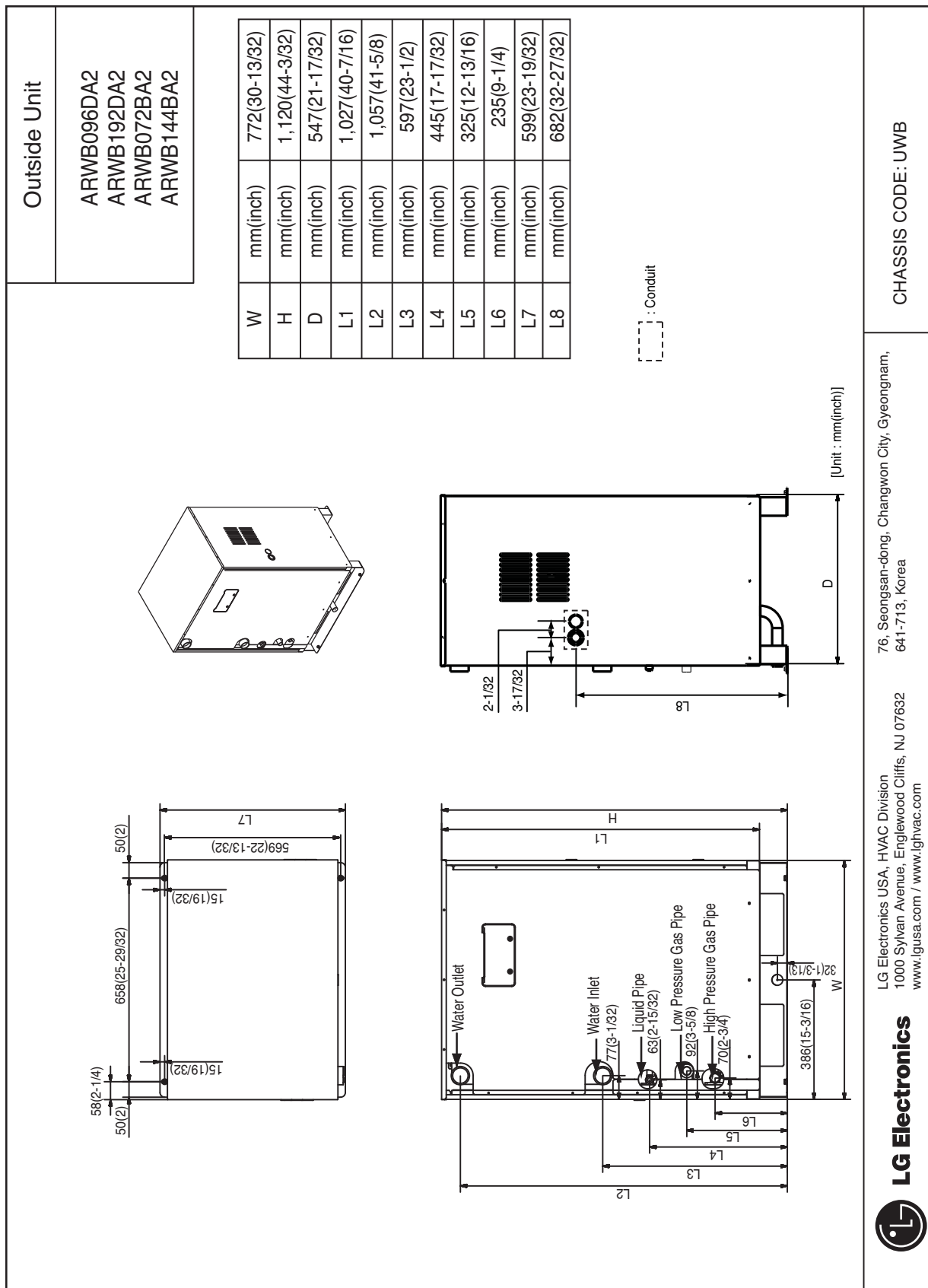
⋯ : Conduit

[Unit : mm(inch)]

LG Electronics

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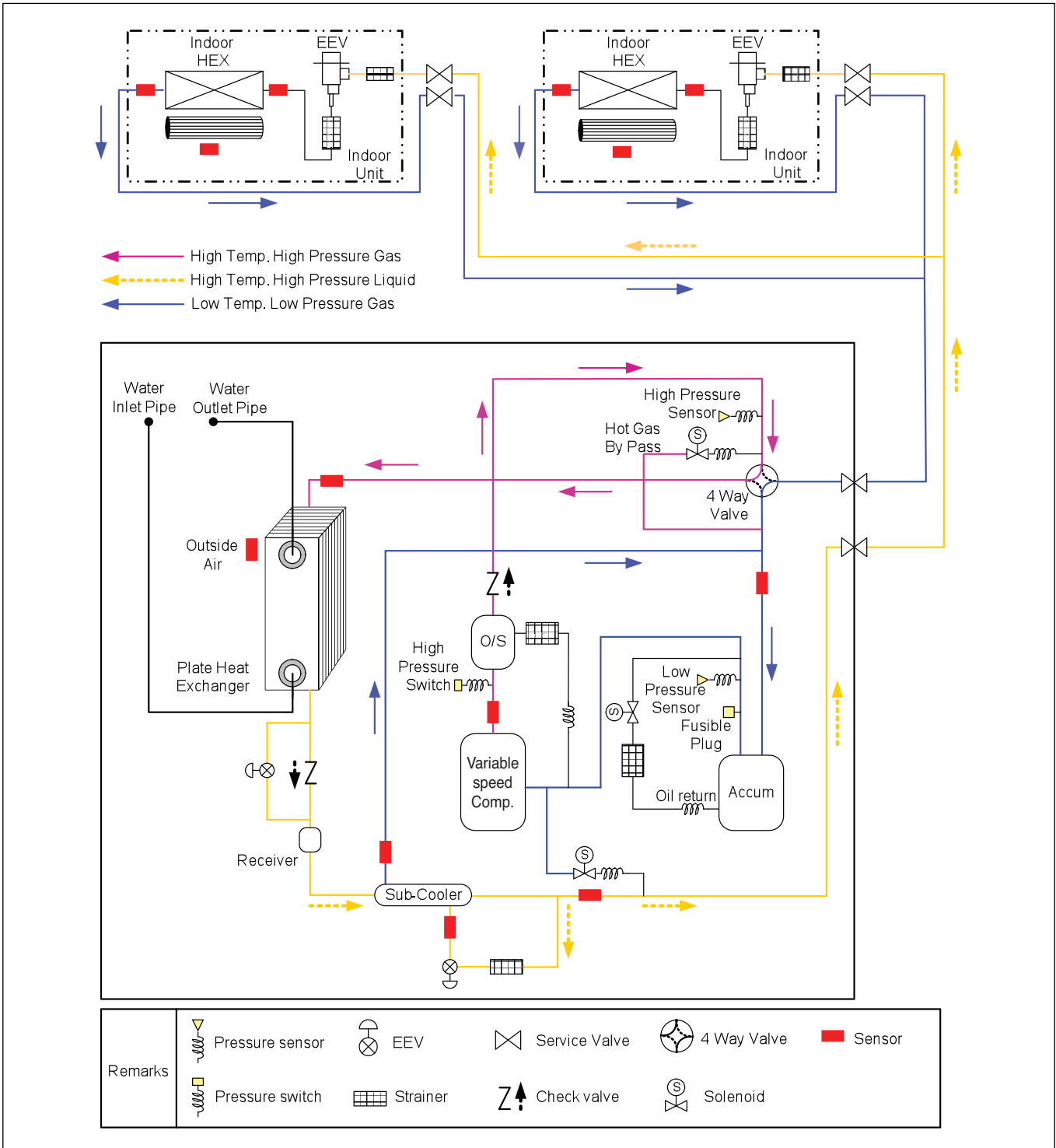
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4. Piping Diagrams

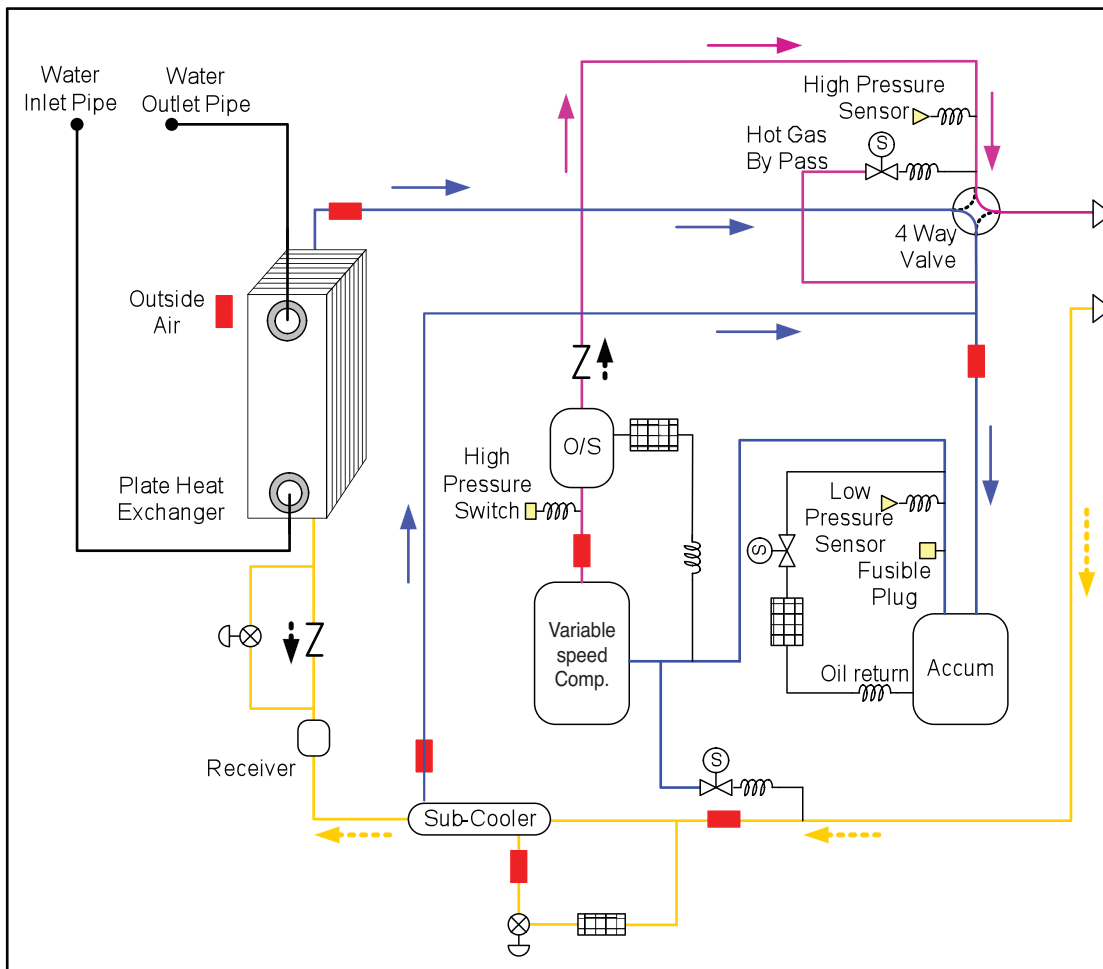
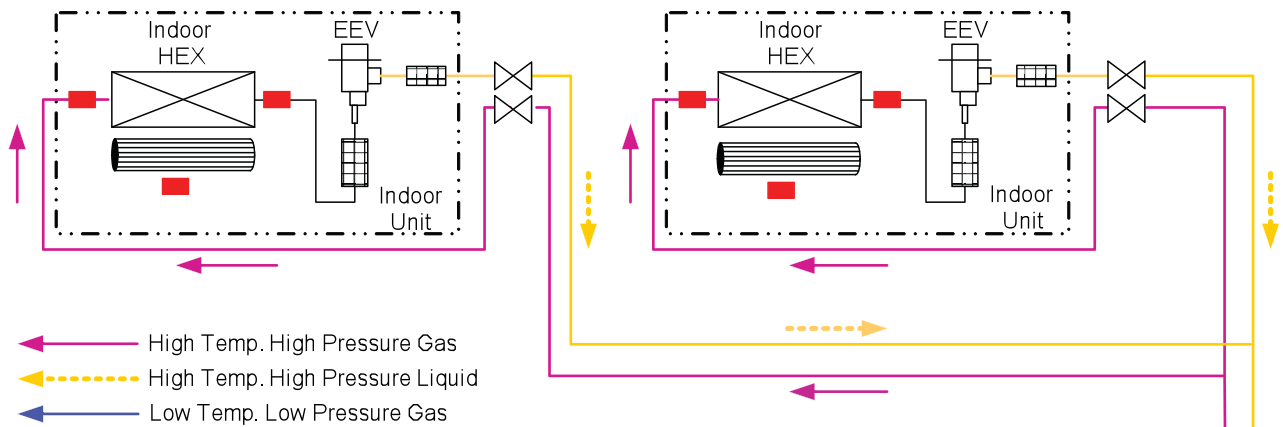
4.1 Heat Pump Model

4.1.1 ARWN072BA2 / ARWN096DA2

■ Cooling Operation

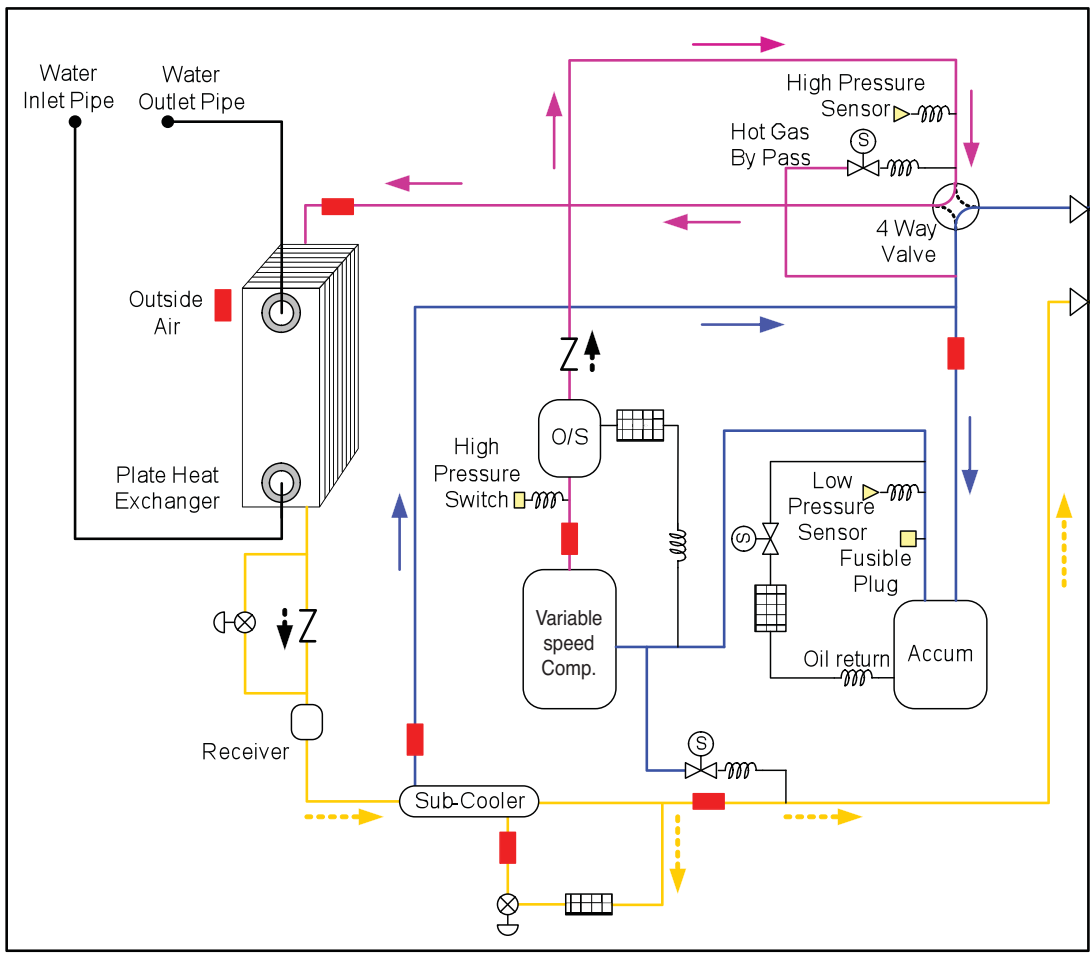
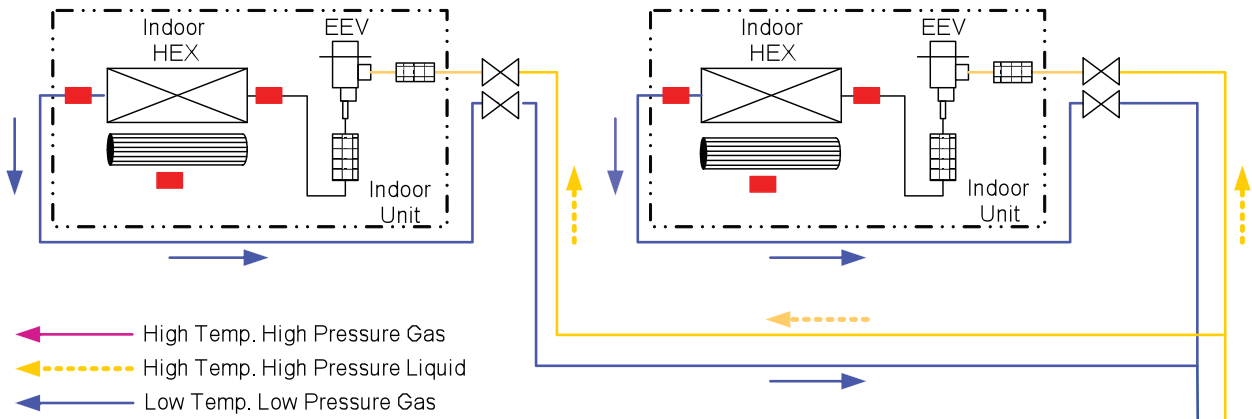


■ Heating Operation



Remarks	Pressure sensor	EEV	Service Valve	4 Way Valve	Sensor
	Pressure switch	Strainer	Check valve	Solenoid	

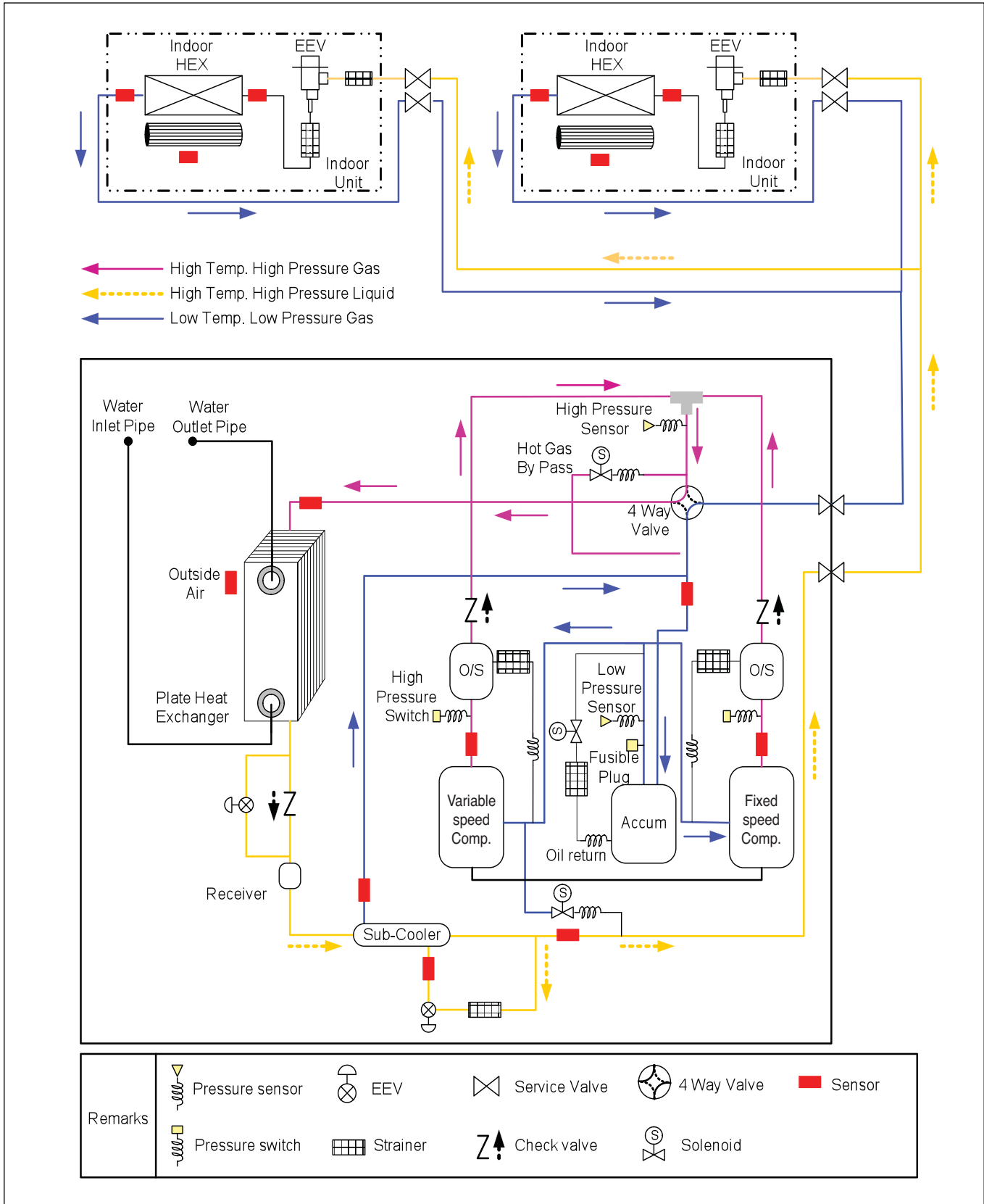
Oil Return Operation



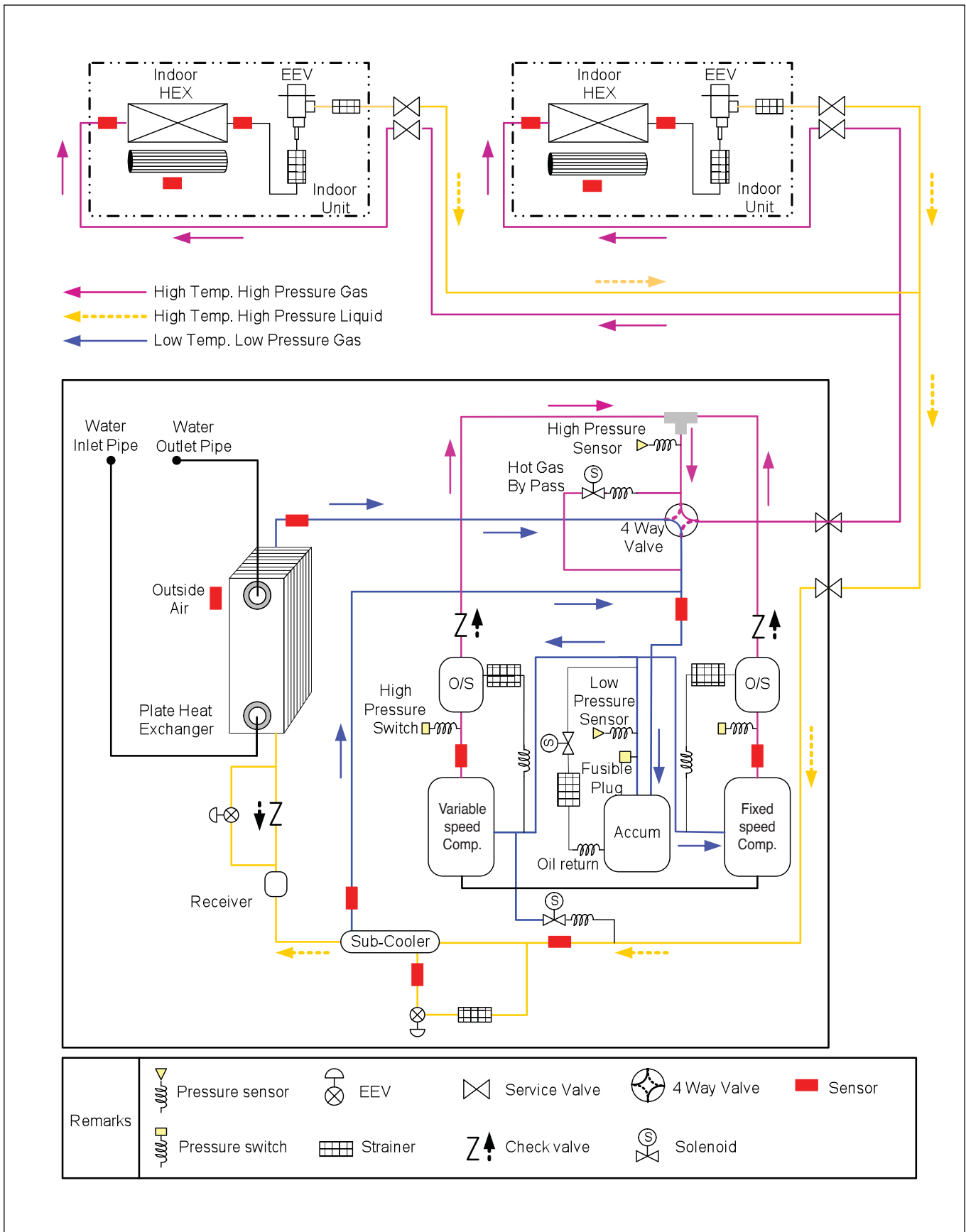
Remarks		Pressure sensor		EEV		Service Valve		4 Way Valve		Sensor
		Pressure switch		Strainer		Check valve		Solenoid		

4.1.2 ARWN144BA2 / ARWN192DA2

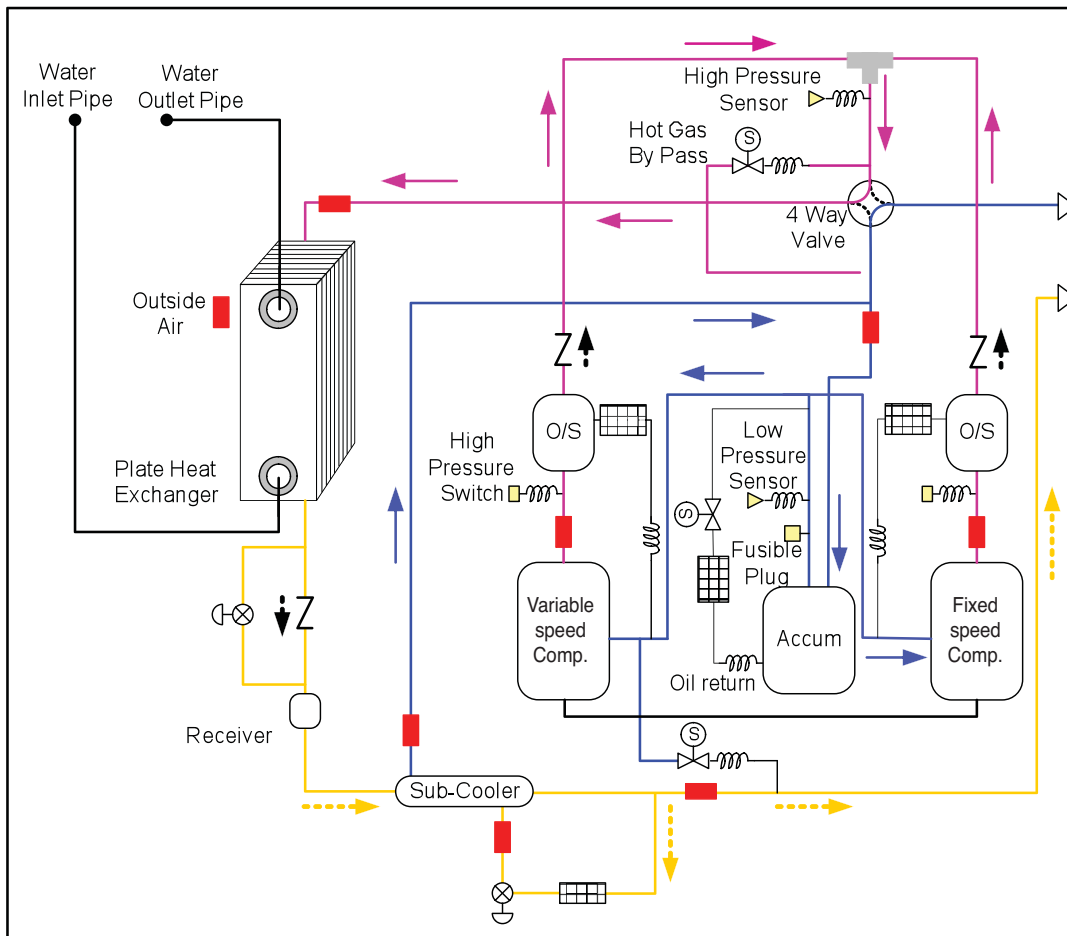
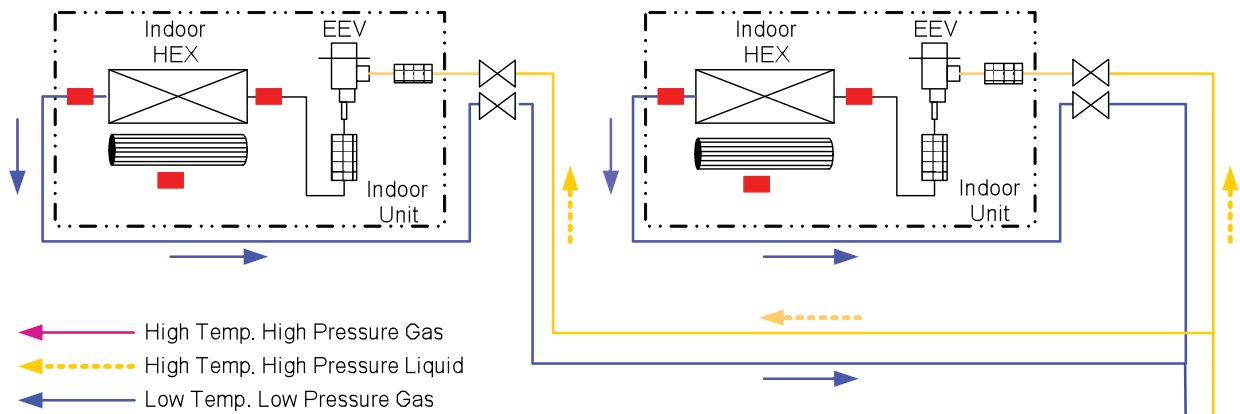
■ Cooling Operation



■ Heating Operation



Oil Return Operation

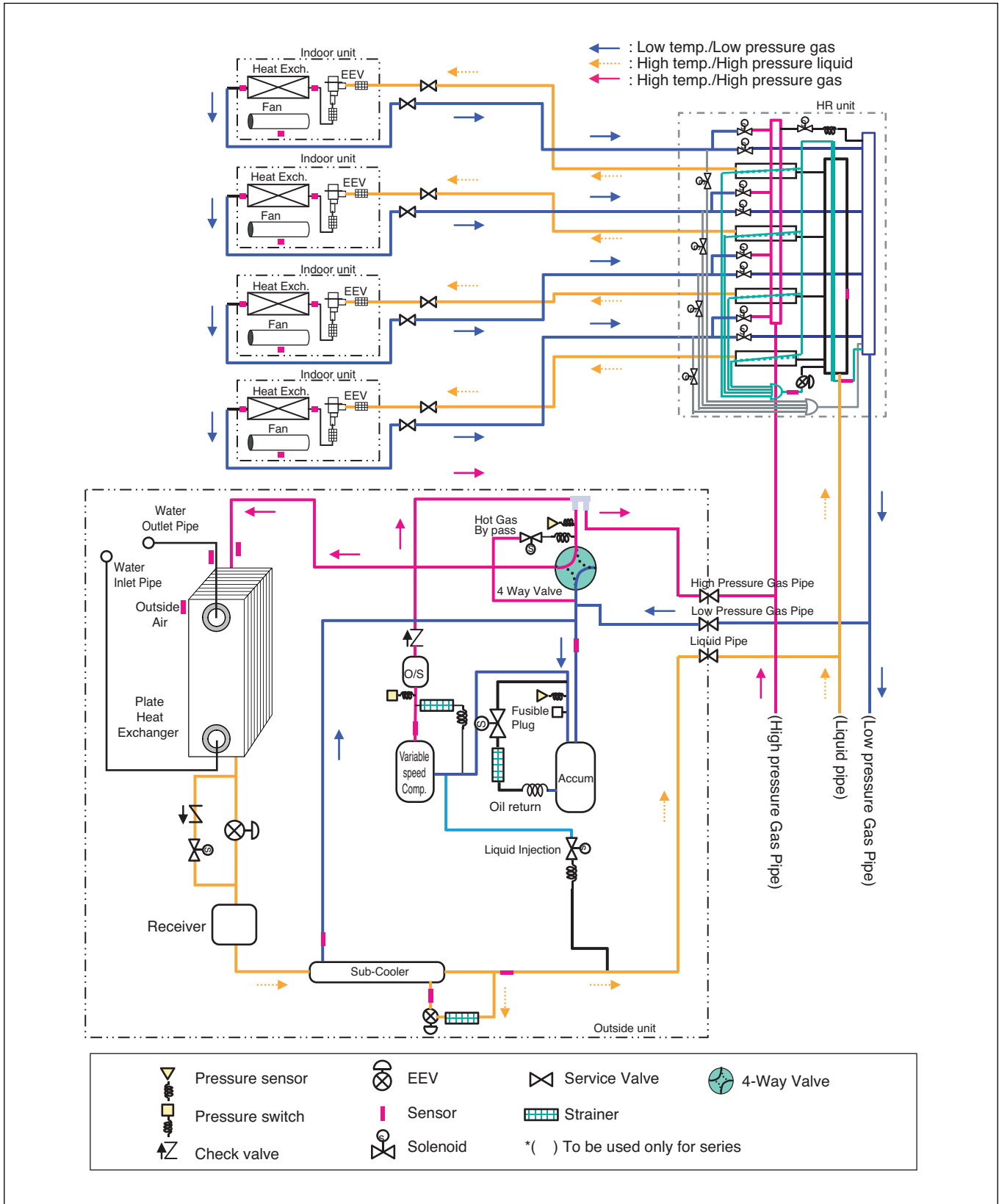


Remarks	Pressure sensor	EEV	Service Valve	4 Way Valve	Sensor
	Pressure switch	Strainer	Check valve	Solenoid	

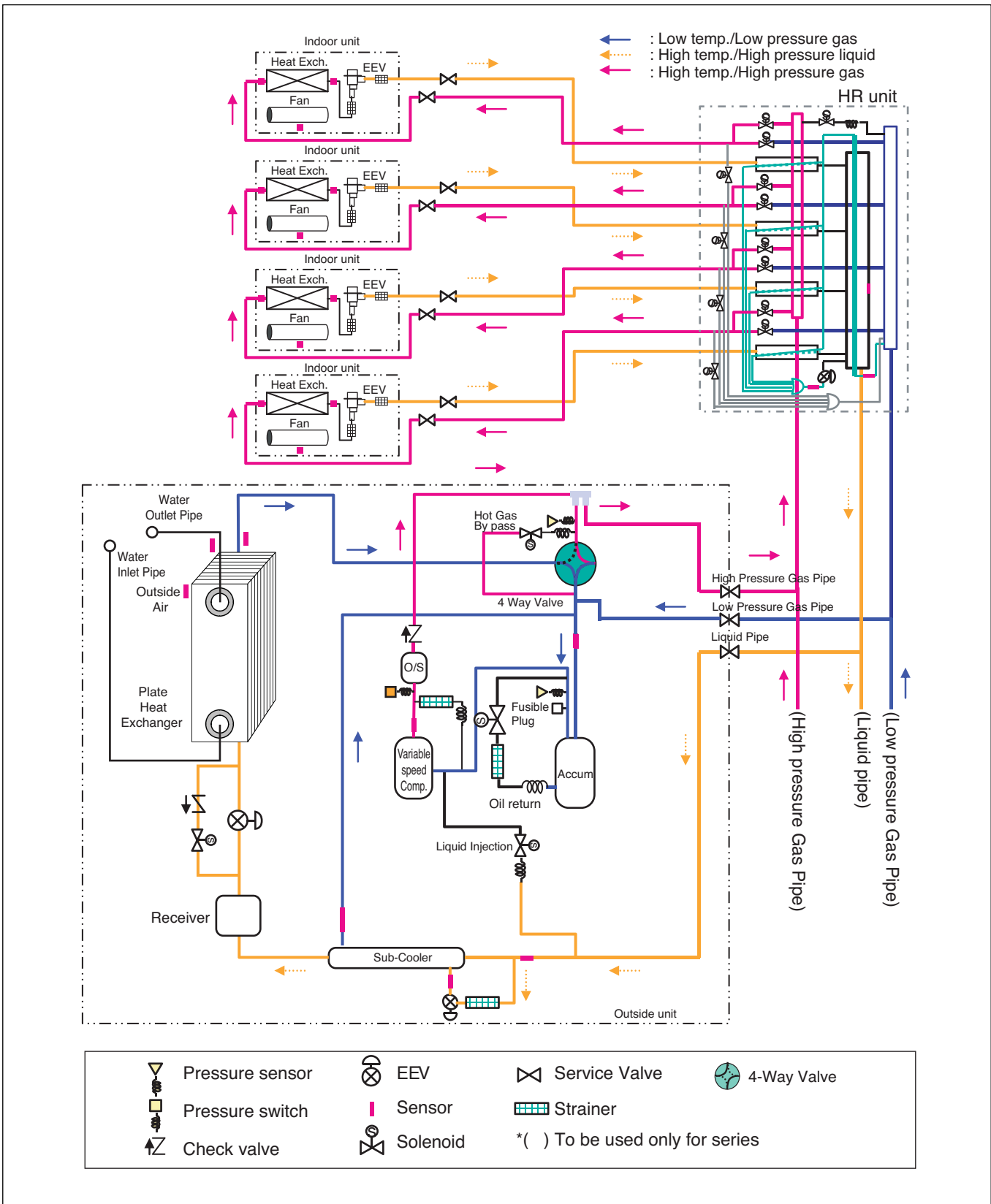
4.2 Sync.

4.2.1 ARWB072BA2 / ARWB096DA2

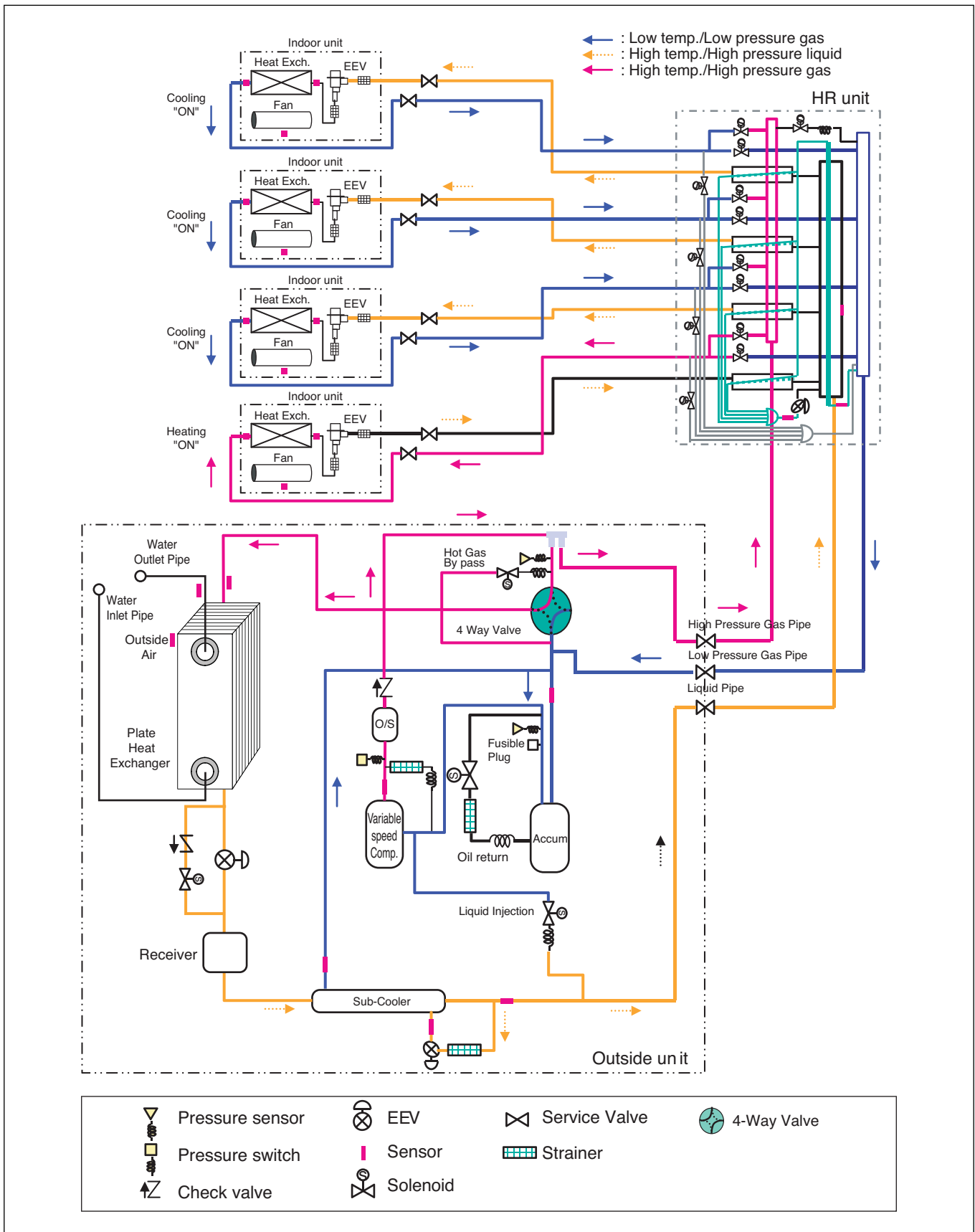
■ Cooling Mode



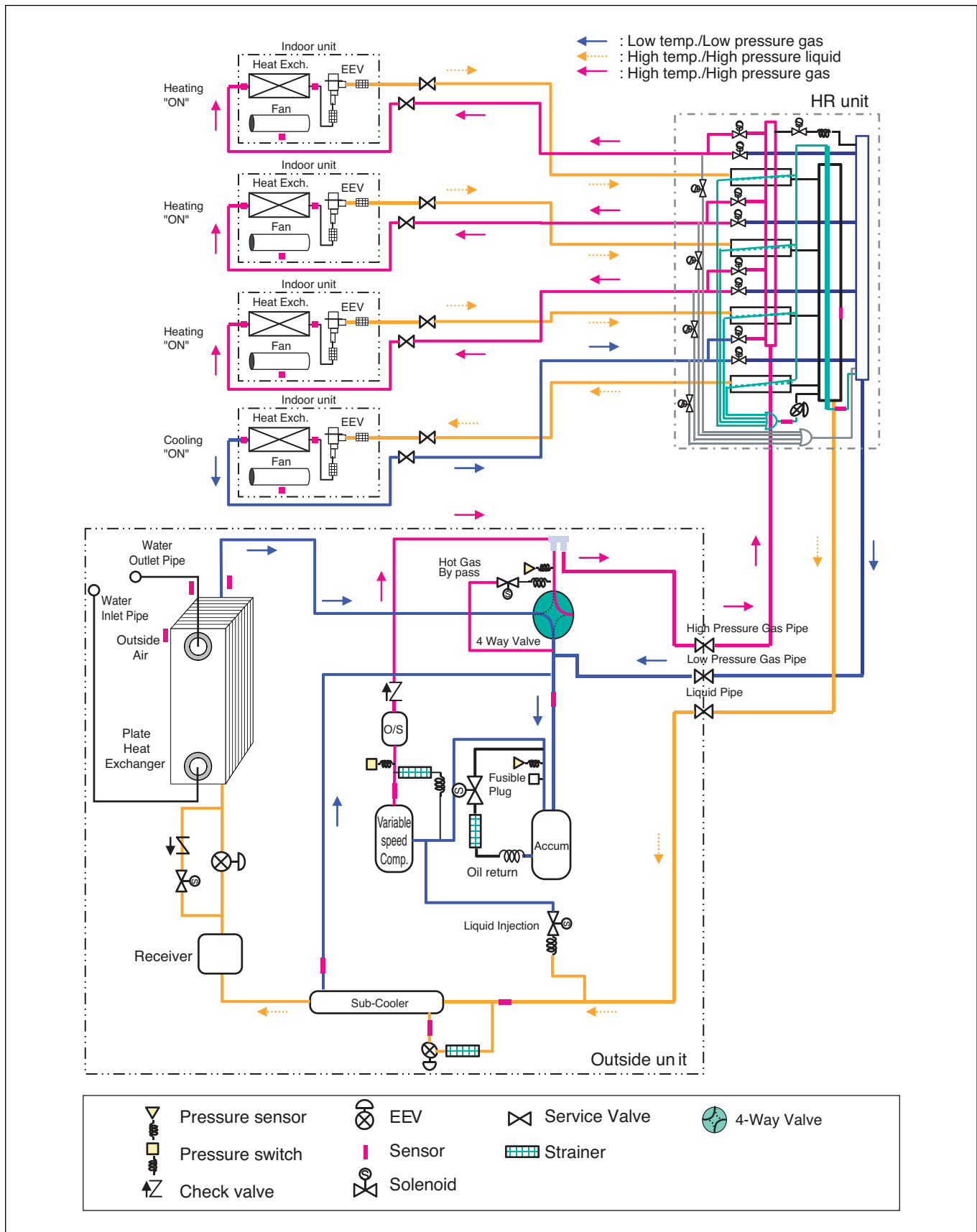
■ Heating Mode



■ Simultaneous Operation Mode 1 (Cooling Based operation)

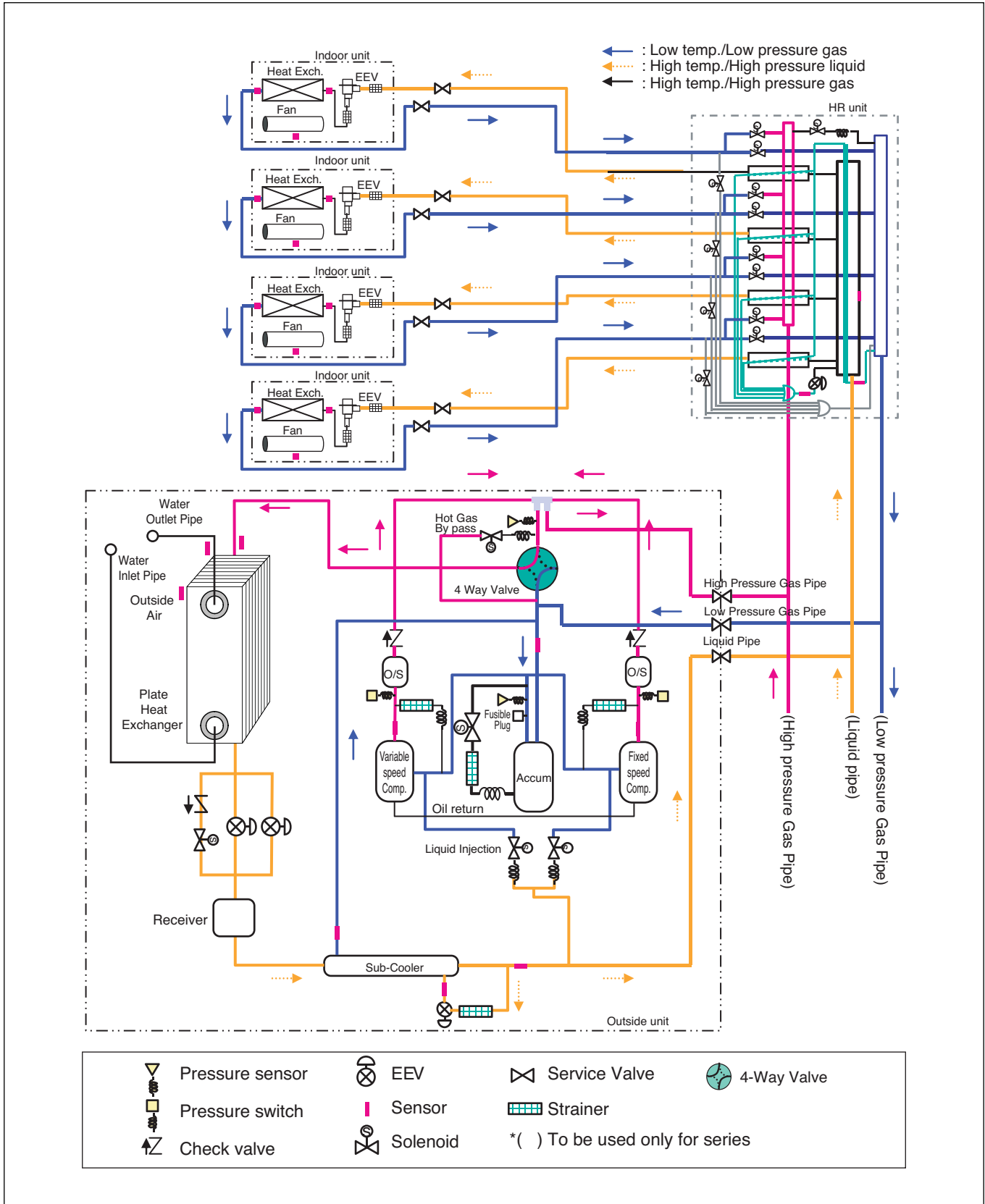


■ Simultaneous Operation Mode 2 (Heating Based operation)

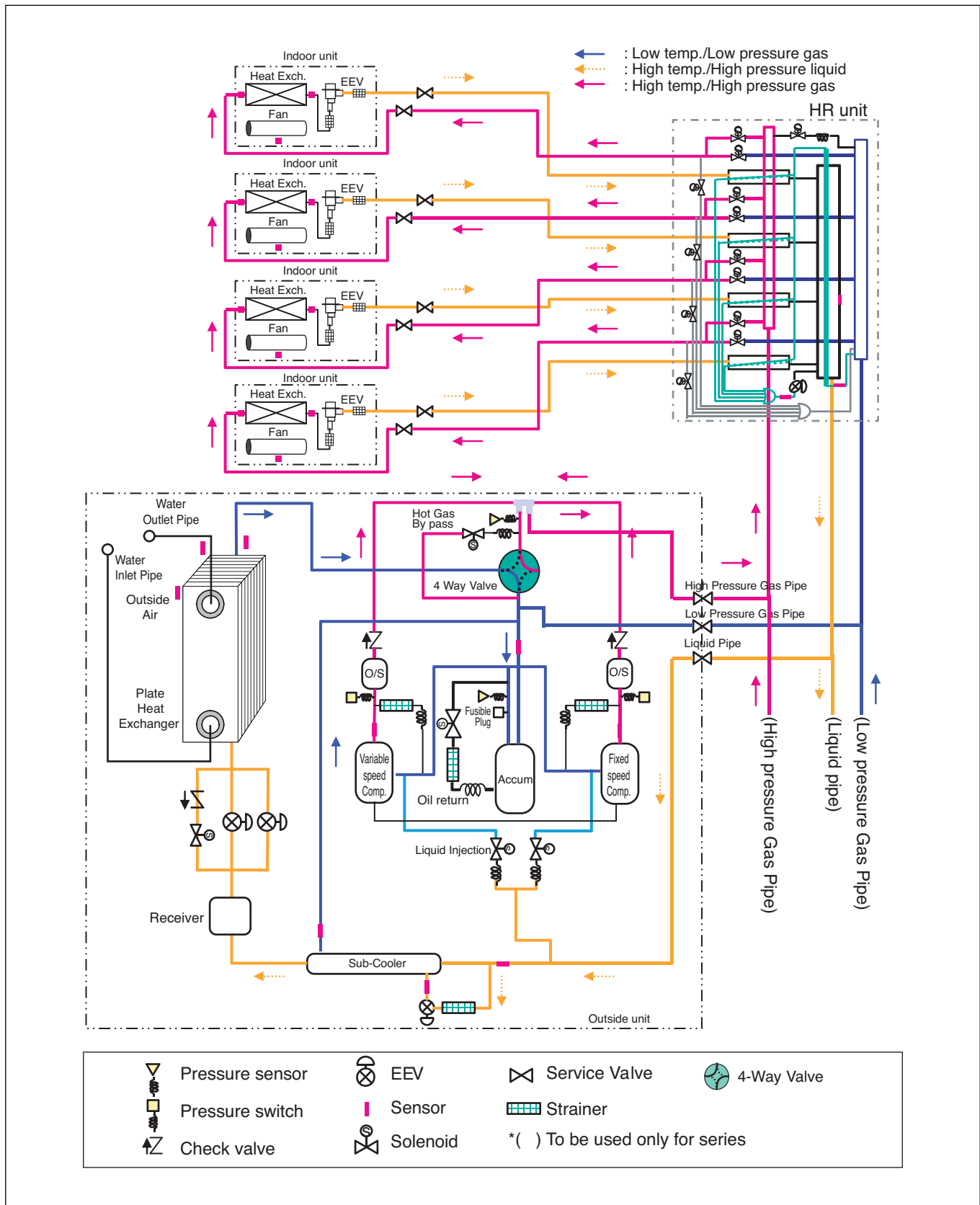


4.2.2 ARWB144BA2, ARWB192DA2

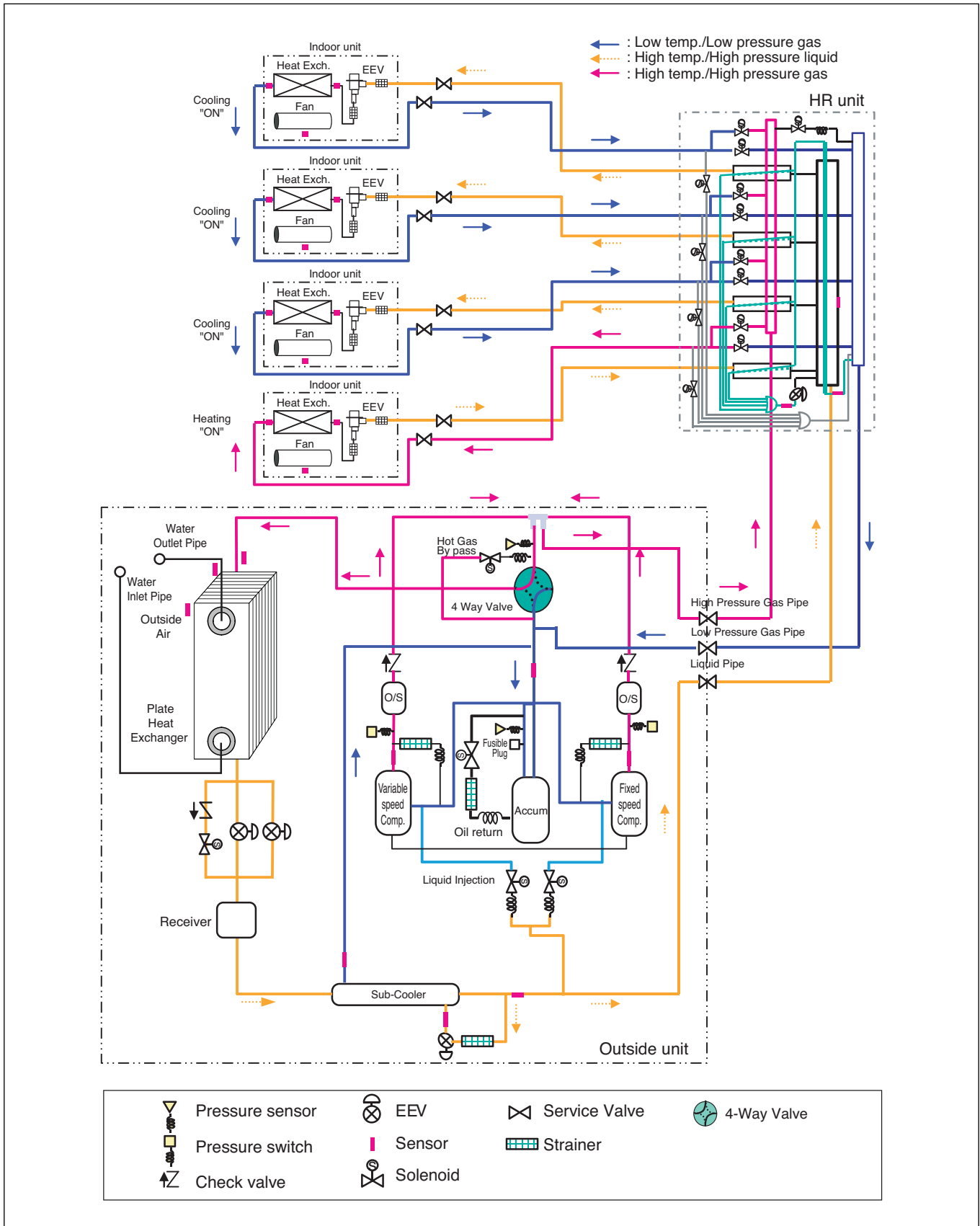
■ Cooling Mode



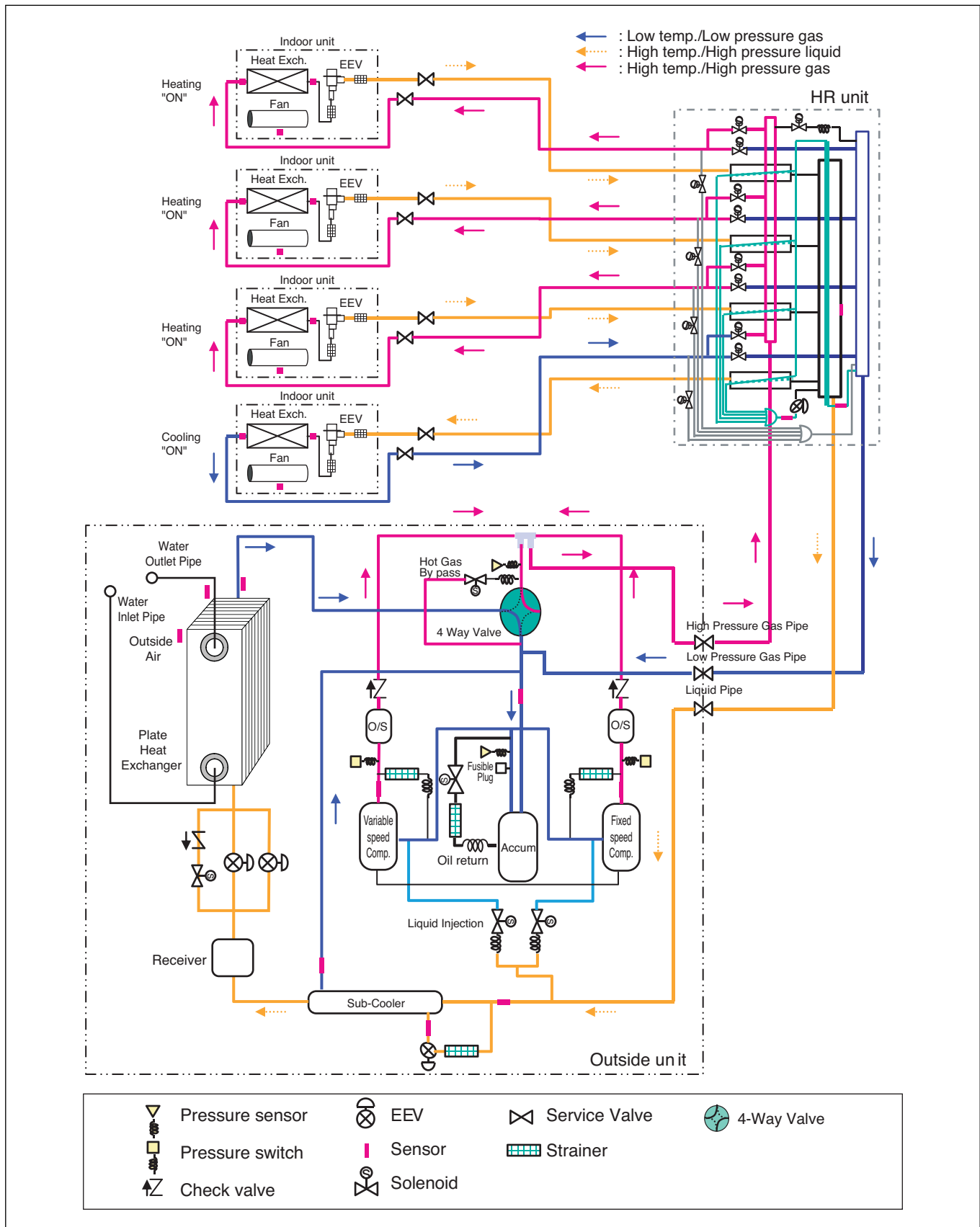
■ Heating Mode



■ Simultaneous Operation Mode 1 (Cooling Based operation)



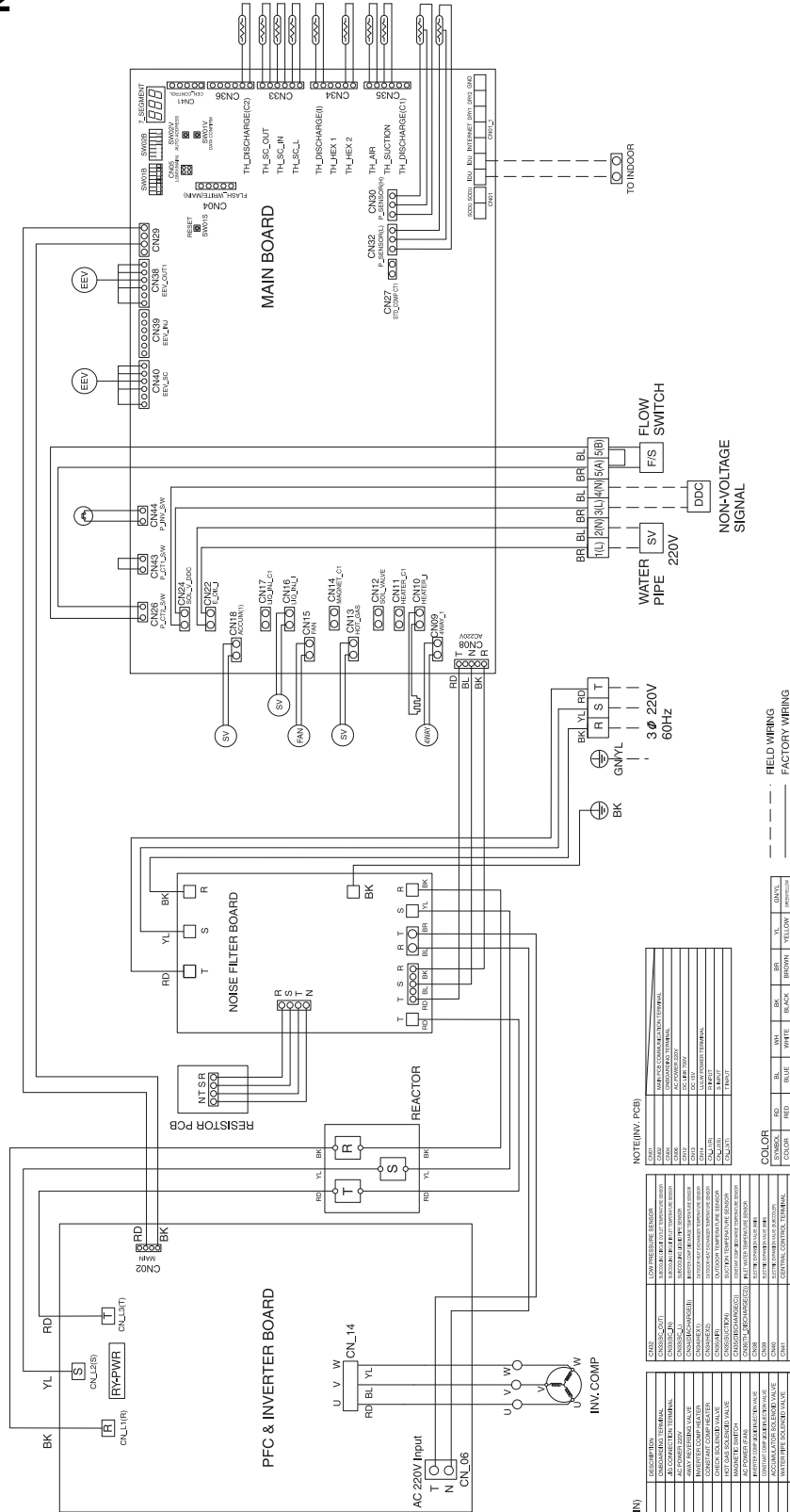
■ Simultaneous Operation Mode 2 (Heating Based operation)



5. Wiring Diagrams

ARWN80BA2

OUTDOOR WIRING DIAGRAM



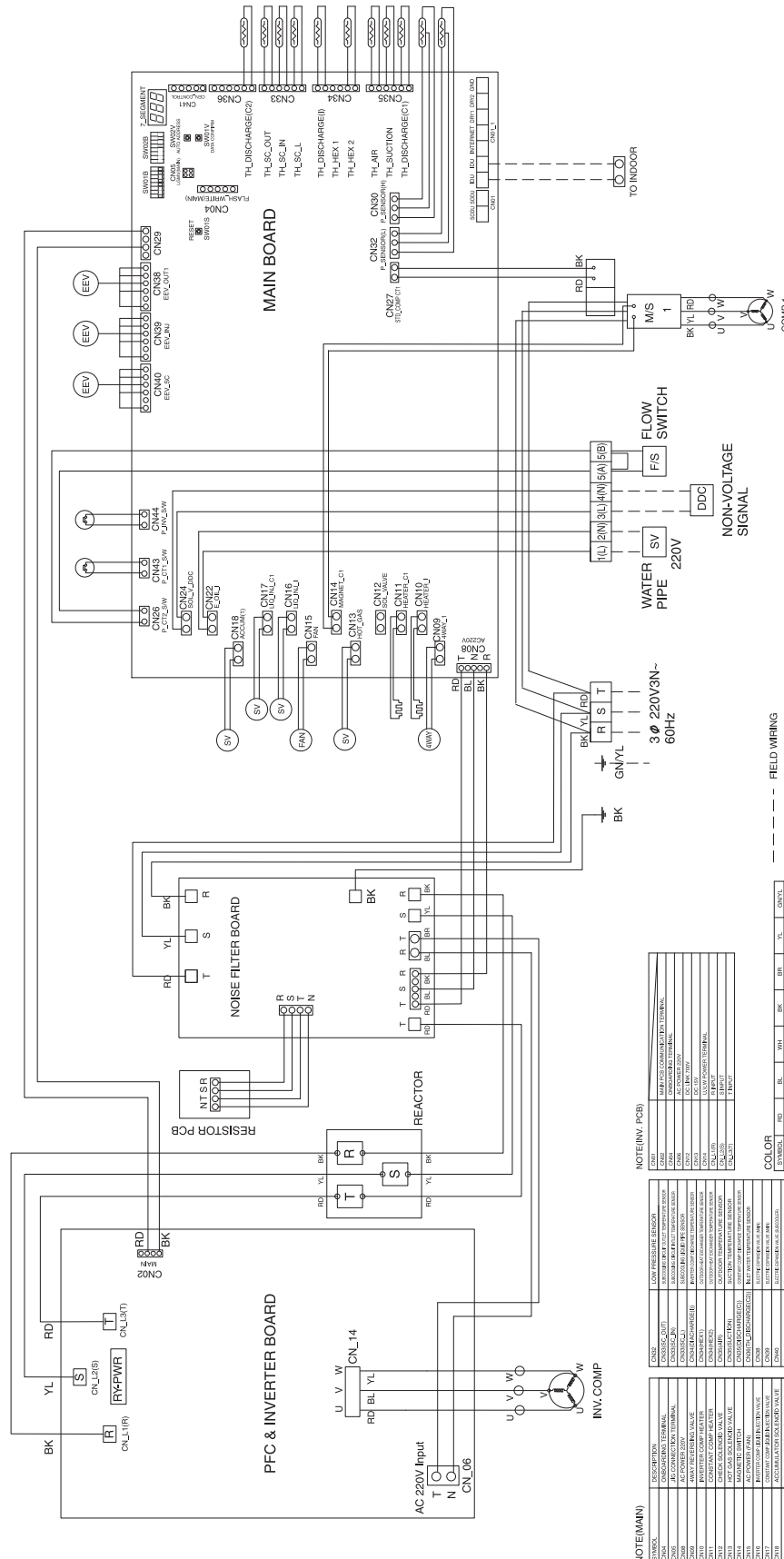
NOTE(MAN)

SYMBOL	DESCRIPTION
CN01	COMMUNICATION TERMINAL
CN02	COMMUNICATION TERMINAL
CN03	COMMUNICATION TERMINAL
CN04	COMMUNICATION TERMINAL
CN05	COMMUNICATION TERMINAL
CN06	AC 220V INPUT
CN07	AC 220V INPUT
CN08	AC 220V INPUT
CN09	AC 220V INPUT
CN10	AC 220V INPUT
CN11	AC 220V INPUT
CN12	AC 220V INPUT
CN13	AC 220V INPUT
CN14	AC 220V INPUT
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CN94	AC 220V INPUT
CN95	AC 220V INPUT
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CN97	AC 220V INPUT
CN98	AC 220V INPUT
CN99	AC 220V INPUT
CN100	AC 220V INPUT

P/No. : MEZ62315002

ARWN160BA2

OUTDOOR WIRING DIAGRAM



P/No. : MEZ62315001

NOTE(MAIN)

SYMBOL	DESCRIPTION
CN01	LOW PRESSURE SENSOR
CN02	CONDENSER TEMPERATURE
CN03	EVAPORATOR TEMPERATURE
CN04	AC POWER SW
CN05	WATER PIPE TEMPERATURE
CN06	AC 220V POWER INLET
CN07	INVERTER COMP RELAY
CN08	RESISTOR PCB
CN09	CONSTANT COMP RELAY
CN10	DC 24V POWER INLET
CN11	TEMPERATURE SENSOR
CN12	TEMPERATURE SENSOR
CN13	TEMPERATURE SENSOR
CN14	TEMPERATURE SENSOR
CN15	TEMPERATURE SENSOR
CN16	TEMPERATURE SENSOR
CN17	TEMPERATURE SENSOR
CN18	TEMPERATURE SENSOR
CN19	TEMPERATURE SENSOR
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CN44	TEMPERATURE SENSOR
CN45	TEMPERATURE SENSOR
CN46	TEMPERATURE SENSOR
CN47	TEMPERATURE SENSOR
CN48	TEMPERATURE SENSOR
CN49	TEMPERATURE SENSOR
CN50	TEMPERATURE SENSOR

NOTE(INV. PCB)

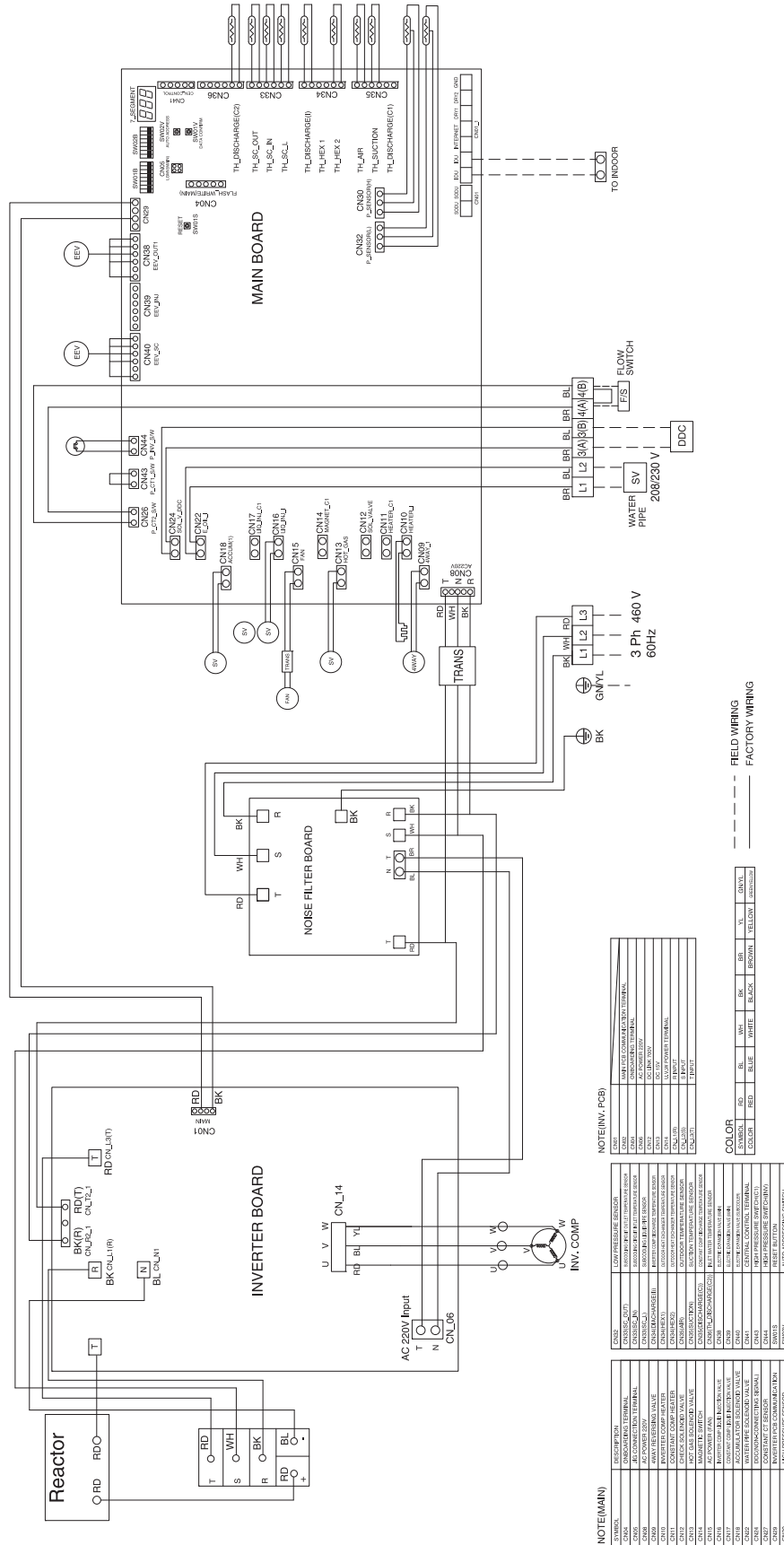
SYMBOL	DESCRIPTION
CS01	TEMPERATURE SENSOR
CS02	TEMPERATURE SENSOR
CS03	TEMPERATURE SENSOR
CS04	TEMPERATURE SENSOR
CS05	TEMPERATURE SENSOR
CS06	TEMPERATURE SENSOR
CS07	TEMPERATURE SENSOR
CS08	TEMPERATURE SENSOR
CS09	TEMPERATURE SENSOR
CS10	TEMPERATURE SENSOR
CS11	TEMPERATURE SENSOR
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CS41	TEMPERATURE SENSOR
CS42	TEMPERATURE SENSOR
CS43	TEMPERATURE SENSOR
CS44	TEMPERATURE SENSOR
CS45	TEMPERATURE SENSOR
CS46	TEMPERATURE SENSOR
CS47	TEMPERATURE SENSOR
CS48	TEMPERATURE SENSOR
CS49	TEMPERATURE SENSOR
CS50	TEMPERATURE SENSOR

COLOR

SYMBOL	DESCRIPTION	FIELD WIRING	FACTORY WIRING
BK	BLACK	---	---
YL	YELLOW	---	---
RD	RED	---	---
BL	BLUE	---	---
GR	GREEN	---	---
WH	WHITE	---	---
BR	BROWN	---	---
OR	ORANGE	---	---
PK	PINK	---	---
SL	SILVER	---	---
GD	GOLD	---	---
LV	LOW VOLTAGE SIGNAL	---	---
DD	DDC	---	---

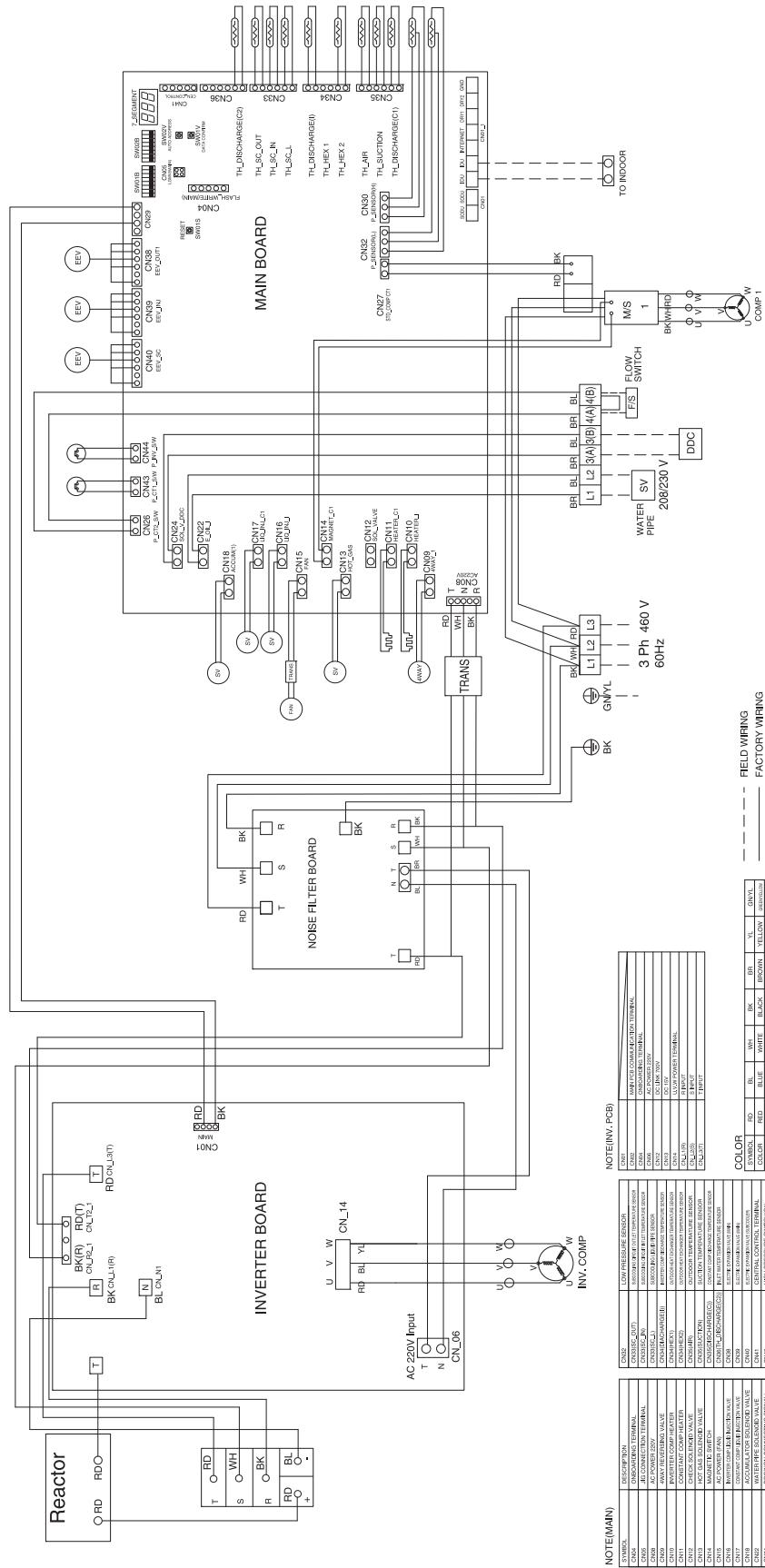
ARWN096DA2

OUTDOOR WIRING DIAGRAM



ARWN192DA2

OUTDOOR WIRING DIAGRAM



NOTE(INV. PCB)

CN01	AC 220V INPUT TERMINAL
CN02	WATER PIPE CONNECTION TERMINAL
CN03	FLOW SWITCH TERMINAL
CN04	DDC TERMINAL
CN05	RELAY TERMINAL
CN06	RELAY TERMINAL
CN07	RELAY TERMINAL
CN08	RELAY TERMINAL
CN09	RELAY TERMINAL
CN10	RELAY TERMINAL
CN11	RELAY TERMINAL
CN12	RELAY TERMINAL
CN13	RELAY TERMINAL
CN14	RELAY TERMINAL
CN15	RELAY TERMINAL
CN16	RELAY TERMINAL
CN17	RELAY TERMINAL
CN18	RELAY TERMINAL
CN19	RELAY TERMINAL
CN20	RELAY TERMINAL
CN21	RELAY TERMINAL
CN22	RELAY TERMINAL
CN23	RELAY TERMINAL
CN24	RELAY TERMINAL
CN25	RELAY TERMINAL
CN26	RELAY TERMINAL
CN27	RELAY TERMINAL

NOTE(MAIN)

CN01	AC 220V INPUT TERMINAL
CN02	WATER PIPE CONNECTION TERMINAL
CN03	FLOW SWITCH TERMINAL
CN04	DDC TERMINAL
CN05	RELAY TERMINAL
CN06	RELAY TERMINAL
CN07	RELAY TERMINAL
CN08	RELAY TERMINAL
CN09	RELAY TERMINAL
CN10	RELAY TERMINAL
CN11	RELAY TERMINAL
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CN21	RELAY TERMINAL
CN22	RELAY TERMINAL
CN23	RELAY TERMINAL
CN24	RELAY TERMINAL
CN25	RELAY TERMINAL
CN26	RELAY TERMINAL
CN27	RELAY TERMINAL

NOTE(MAIN)

CN01	AC 220V INPUT TERMINAL
CN02	WATER PIPE CONNECTION TERMINAL
CN03	FLOW SWITCH TERMINAL
CN04	DDC TERMINAL
CN05	RELAY TERMINAL
CN06	RELAY TERMINAL
CN07	RELAY TERMINAL
CN08	RELAY TERMINAL
CN09	RELAY TERMINAL
CN10	RELAY TERMINAL
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CN21	RELAY TERMINAL
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CN24	RELAY TERMINAL
CN25	RELAY TERMINAL
CN26	RELAY TERMINAL
CN27	RELAY TERMINAL

COLOR

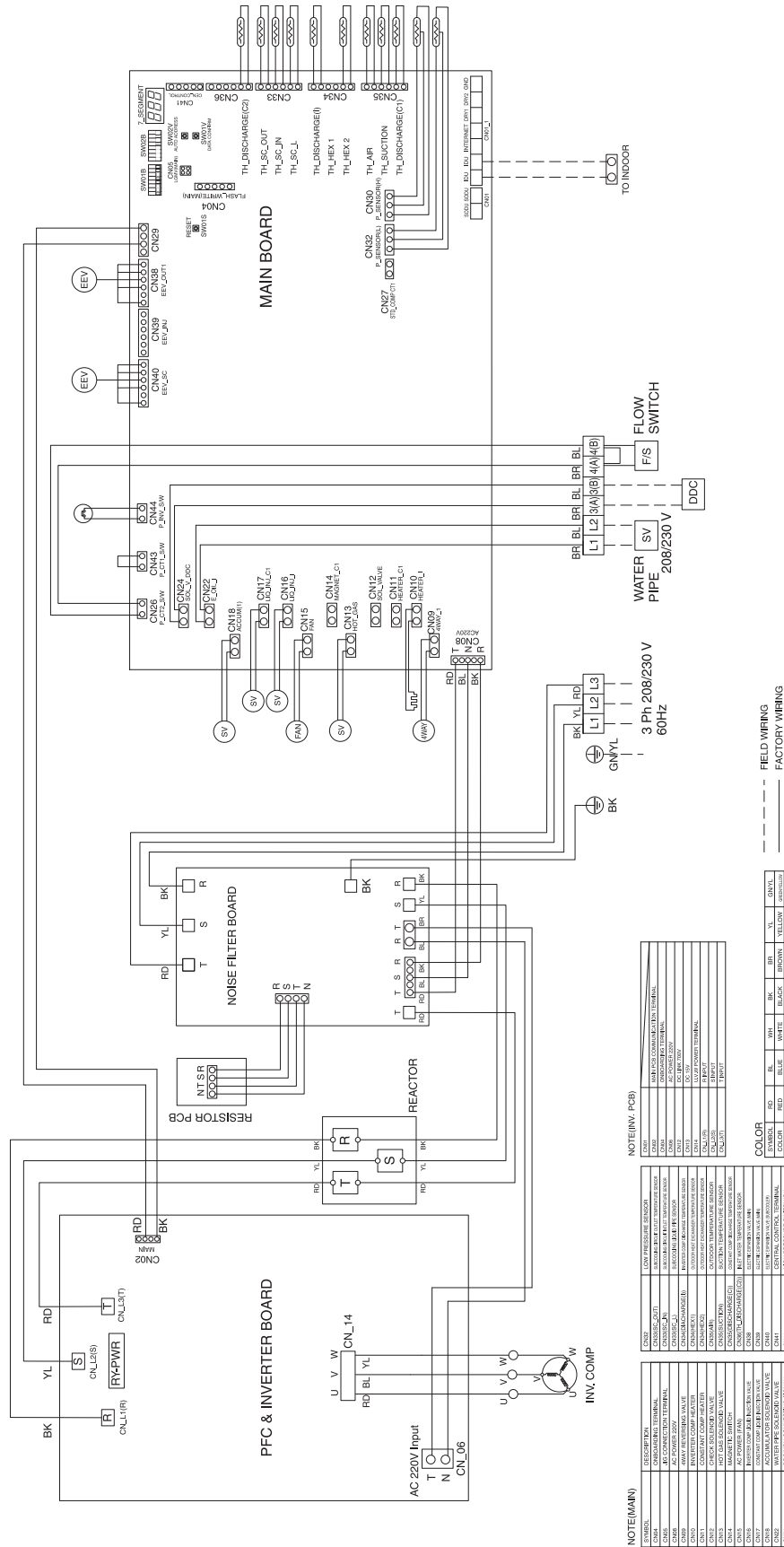
RD	RED
BL	BLUE
WH	WHITE
GR	GRAY
BR	BROWN
BLK	BLACK
YL	YELLOW
GN	GREEN
OR	ORANGE
PK	PINK
VT	VIOLET
SL	SILVER
GD	GOLD

FIELD WIRING

FACTORY WIRING

ARWN072BA2

OUTDOOR WIRING DIAGRAM

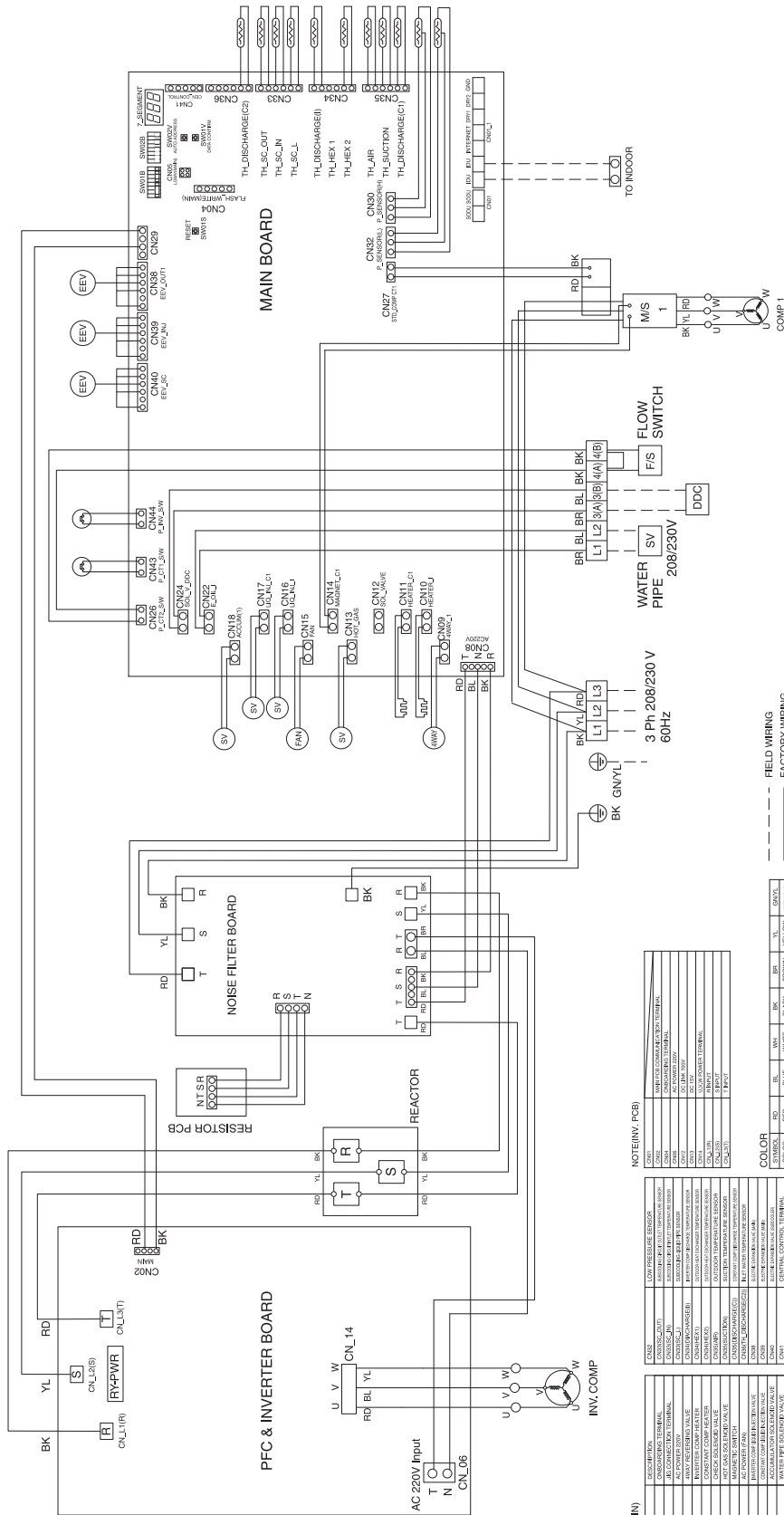


P/No. : MEZ62315006

SYMBOL	DESCRIPTION
CH01	CONDENSATOR
CH02	CONDENSATOR
CH03	CONDENSATOR
CH04	CONDENSATOR
CH05	CONDENSATOR
CH06	CONDENSATOR
CH07	CONDENSATOR
CH08	CONDENSATOR
CH09	CONDENSATOR
CH10	CONDENSATOR
CH11	CONDENSATOR
CH12	CONDENSATOR
CH13	CONDENSATOR
CH14	CONDENSATOR
CH15	CONDENSATOR
CH16	CONDENSATOR
CH17	CONDENSATOR
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CH23	CONDENSATOR
CH24	CONDENSATOR
CH25	CONDENSATOR
CH26	CONDENSATOR
CH27	CONDENSATOR
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CH35	CONDENSATOR
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CH81	CONDENSATOR
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CH83	CONDENSATOR
CH84	CONDENSATOR
CH85	CONDENSATOR
CH86	CONDENSATOR
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CH88	CONDENSATOR
CH89	CONDENSATOR
CH90	CONDENSATOR
CH91	CONDENSATOR
CH92	CONDENSATOR
CH93	CONDENSATOR
CH94	CONDENSATOR
CH95	CONDENSATOR
CH96	CONDENSATOR
CH97	CONDENSATOR
CH98	CONDENSATOR
CH99	CONDENSATOR
CH100	CONDENSATOR

ARWN144BA2

OUTDOOR WIRING DIAGRAM

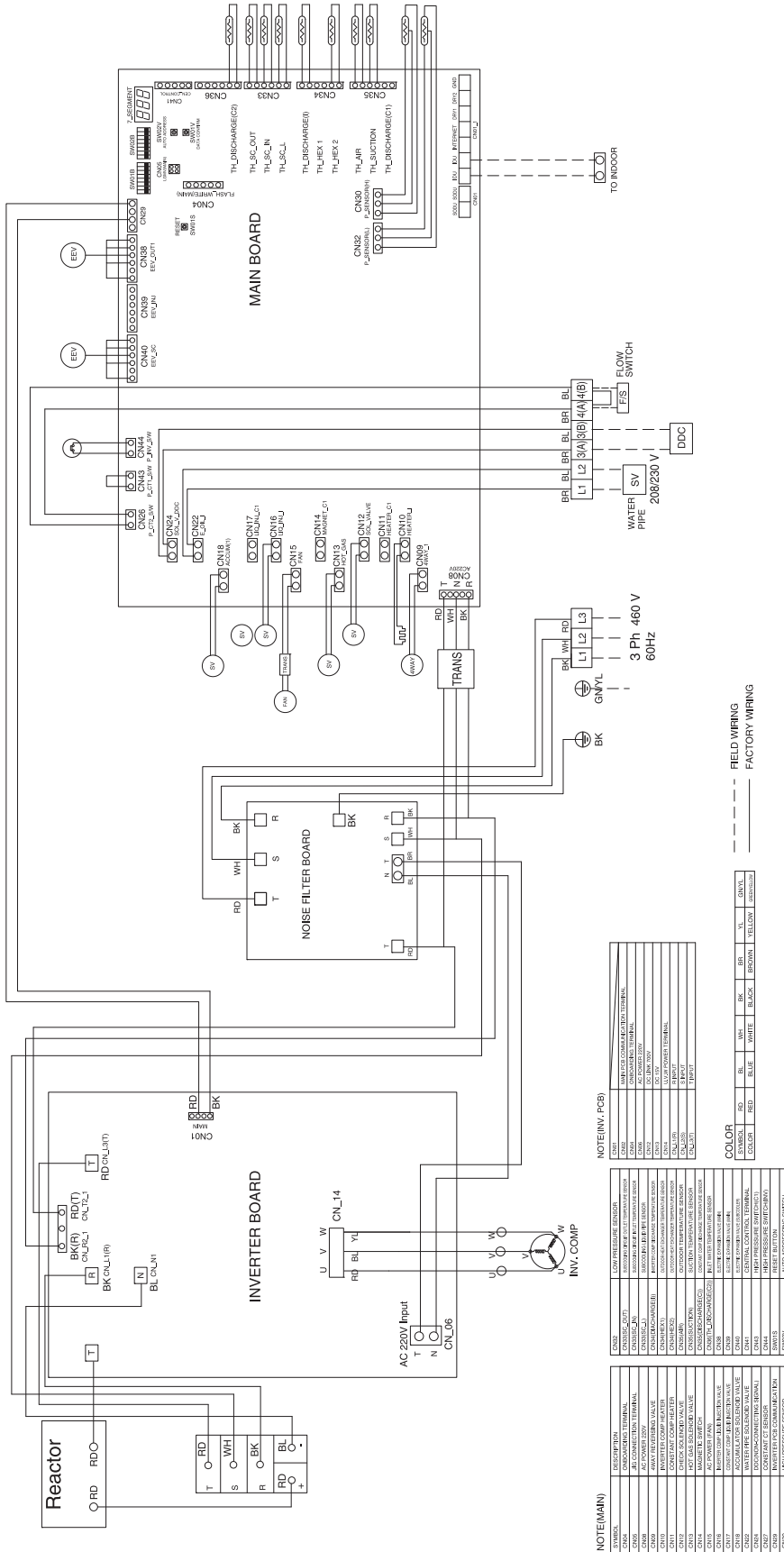


TERMINAL	DESCRIPTION	WIRING COLOR
CN_01	AC POWER INPUT	BK, GN/YL, RD
CN_02	AC POWER INPUT	BK, GN/YL, RD
CN_03	AC POWER INPUT	BK, GN/YL, RD
CN_04	AC POWER INPUT	BK, GN/YL, RD
CN_05	AC POWER INPUT	BK, GN/YL, RD
CN_06	AC POWER INPUT	BK, GN/YL, RD
CN_07	AC POWER INPUT	BK, GN/YL, RD
CN_08	AC POWER INPUT	BK, GN/YL, RD
CN_09	AC POWER INPUT	BK, GN/YL, RD
CN_10	AC POWER INPUT	BK, GN/YL, RD
CN_11	AC POWER INPUT	BK, GN/YL, RD
CN_12	AC POWER INPUT	BK, GN/YL, RD
CN_13	AC POWER INPUT	BK, GN/YL, RD
CN_14	AC POWER INPUT	BK, GN/YL, RD
CN_15	AC POWER INPUT	BK, GN/YL, RD
CN_16	AC POWER INPUT	BK, GN/YL, RD
CN_17	AC POWER INPUT	BK, GN/YL, RD
CN_18	AC POWER INPUT	BK, GN/YL, RD
CN_19	AC POWER INPUT	BK, GN/YL, RD
CN_20	AC POWER INPUT	BK, GN/YL, RD
CN_21	AC POWER INPUT	BK, GN/YL, RD
CN_22	AC POWER INPUT	BK, GN/YL, RD
CN_23	AC POWER INPUT	BK, GN/YL, RD
CN_24	AC POWER INPUT	BK, GN/YL, RD
CN_25	AC POWER INPUT	BK, GN/YL, RD
CN_26	AC POWER INPUT	BK, GN/YL, RD
CN_27	AC POWER INPUT	BK, GN/YL, RD
CN_28	AC POWER INPUT	BK, GN/YL, RD
CN_29	AC POWER INPUT	BK, GN/YL, RD
CN_30	AC POWER INPUT	BK, GN/YL, RD
CN_31	AC POWER INPUT	BK, GN/YL, RD
CN_32	AC POWER INPUT	BK, GN/YL, RD
CN_33	AC POWER INPUT	BK, GN/YL, RD
CN_34	AC POWER INPUT	BK, GN/YL, RD
CN_35	AC POWER INPUT	BK, GN/YL, RD
CN_36	AC POWER INPUT	BK, GN/YL, RD

TERMINAL	DESCRIPTION	WIRING COLOR
CN_01	AC POWER INPUT	BK, GN/YL, RD
CN_02	AC POWER INPUT	BK, GN/YL, RD
CN_03	AC POWER INPUT	BK, GN/YL, RD
CN_04	AC POWER INPUT	BK, GN/YL, RD
CN_05	AC POWER INPUT	BK, GN/YL, RD
CN_06	AC POWER INPUT	BK, GN/YL, RD
CN_07	AC POWER INPUT	BK, GN/YL, RD
CN_08	AC POWER INPUT	BK, GN/YL, RD
CN_09	AC POWER INPUT	BK, GN/YL, RD
CN_10	AC POWER INPUT	BK, GN/YL, RD
CN_11	AC POWER INPUT	BK, GN/YL, RD
CN_12	AC POWER INPUT	BK, GN/YL, RD
CN_13	AC POWER INPUT	BK, GN/YL, RD
CN_14	AC POWER INPUT	BK, GN/YL, RD
CN_15	AC POWER INPUT	BK, GN/YL, RD
CN_16	AC POWER INPUT	BK, GN/YL, RD
CN_17	AC POWER INPUT	BK, GN/YL, RD
CN_18	AC POWER INPUT	BK, GN/YL, RD
CN_19	AC POWER INPUT	BK, GN/YL, RD
CN_20	AC POWER INPUT	BK, GN/YL, RD
CN_21	AC POWER INPUT	BK, GN/YL, RD
CN_22	AC POWER INPUT	BK, GN/YL, RD
CN_23	AC POWER INPUT	BK, GN/YL, RD
CN_24	AC POWER INPUT	BK, GN/YL, RD
CN_25	AC POWER INPUT	BK, GN/YL, RD
CN_26	AC POWER INPUT	BK, GN/YL, RD
CN_27	AC POWER INPUT	BK, GN/YL, RD
CN_28	AC POWER INPUT	BK, GN/YL, RD
CN_29	AC POWER INPUT	BK, GN/YL, RD
CN_30	AC POWER INPUT	BK, GN/YL, RD
CN_31	AC POWER INPUT	BK, GN/YL, RD
CN_32	AC POWER INPUT	BK, GN/YL, RD
CN_33	AC POWER INPUT	BK, GN/YL, RD
CN_34	AC POWER INPUT	BK, GN/YL, RD
CN_35	AC POWER INPUT	BK, GN/YL, RD
CN_36	AC POWER INPUT	BK, GN/YL, RD

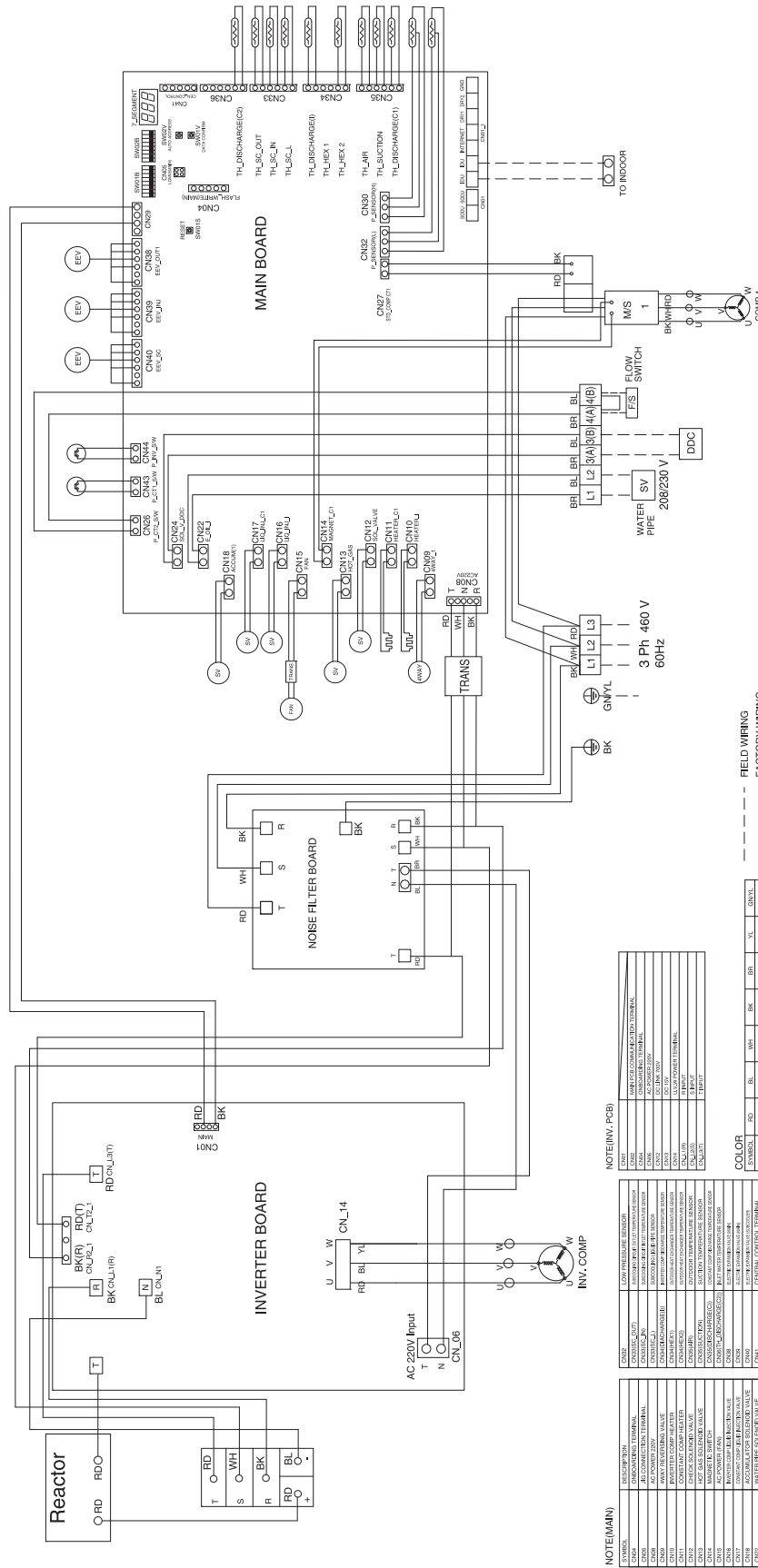
ARWB096DA2

OUTDOOR WIRING DIAGRAM



ARWB192DA2

OUTDOOR WIRING DIAGRAM



TERMINAL	DESCRIPTION	TERMINAL	DESCRIPTION
CN02	LOW PRESSURE SENSOR	CN15	R
CN03	HIGH PRESSURE SENSOR	CN16	S
CN04	DISCHARGE SENSOR	CN17	T
CN05	SUCTION SENSOR	CN18	R
CN06	EVAPORATOR SENSOR	CN19	S
CN07	CONDENSER SENSOR	CN20	T
CN08	DISCHARGE SENSOR	CN21	RESET
CN09	SUCTION SENSOR	CN22	SWITCH
CN10	EVAPORATOR SENSOR		
CN11	CONDENSER SENSOR		
CN12	FLOW SWITCH		
CN13	WATER PIPE		
CN14	DDC		

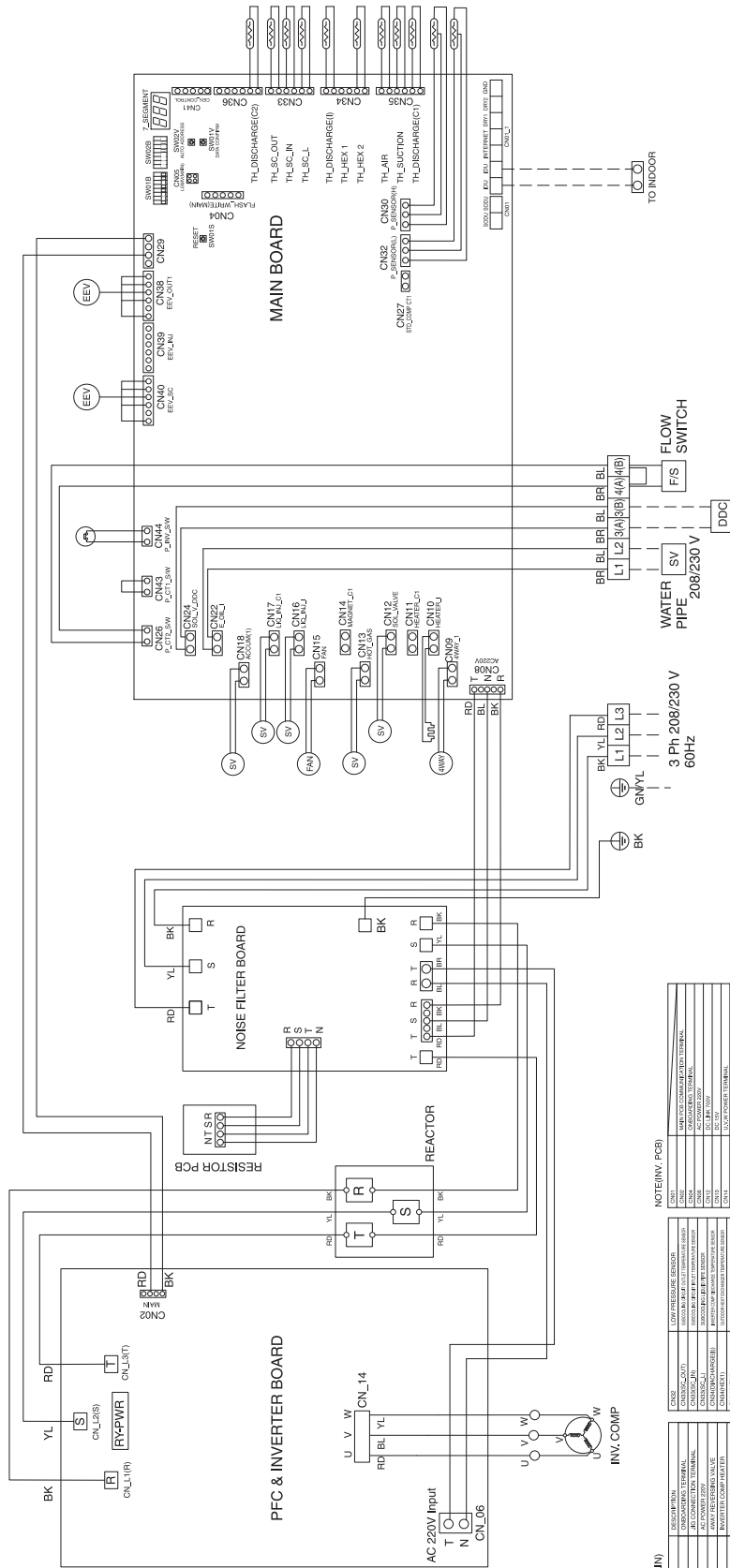
TERMINAL	DESCRIPTION	TERMINAL	DESCRIPTION
CN_L1	AC POWER L1	U	U
CN_L2	AC POWER L2	V	V
CN_L3	AC POWER L3	W	W
CN_N	AC POWER N		
CN_BK	AC POWER BK		
CN_WH	AC POWER WH		
CN_RD	AC POWER RD		
CN_BL	AC POWER BL		
CN_YL	AC POWER YL		
CN_GN	AC POWER GN		
CN_BK	AC POWER BK		
CN_WH	AC POWER WH		
CN_RD	AC POWER RD		
CN_BL	AC POWER BL		
CN_YL	AC POWER YL		
CN_GN	AC POWER GN		

TERMINAL	DESCRIPTION	TERMINAL	DESCRIPTION
CN02	LOW PRESSURE SENSOR	CN15	R
CN03	HIGH PRESSURE SENSOR	CN16	S
CN04	DISCHARGE SENSOR	CN17	T
CN05	SUCTION SENSOR	CN18	R
CN06	EVAPORATOR SENSOR	CN19	S
CN07	CONDENSER SENSOR	CN20	T
CN08	DISCHARGE SENSOR	CN21	RESET
CN09	SUCTION SENSOR	CN22	SWITCH
CN10	EVAPORATOR SENSOR		
CN11	CONDENSER SENSOR		
CN12	FLOW SWITCH		
CN13	WATER PIPE		
CN14	DDC		

TERMINAL	DESCRIPTION	TERMINAL	DESCRIPTION
CN_L1	AC POWER L1	U	U
CN_L2	AC POWER L2	V	V
CN_L3	AC POWER L3	W	W
CN_N	AC POWER N		
CN_BK	AC POWER BK		
CN_WH	AC POWER WH		
CN_RD	AC POWER RD		
CN_BL	AC POWER BL		
CN_YL	AC POWER YL		
CN_GN	AC POWER GN		

ARWB072BA2

OUTDOOR WIRING DIAGRAM



NOTE(INV. PCB)

CN01	SWITCH	SWITCH
CN02	LOW PRESSURE SENSOR	LOW PRESSURE SENSOR
CN03	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN04	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN05	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN06	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN07	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN08	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN09	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN10	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN11	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN12	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN13	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN14	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN15	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN16	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN17	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN18	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN19	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN20	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN21	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN22	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN23	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN24	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN25	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN26	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN27	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN28	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN29	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN30	TEMPERATURE SENSOR	TEMPERATURE SENSOR
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CN35	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN36	TEMPERATURE SENSOR	TEMPERATURE SENSOR
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CN41	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN42	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN43	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN44	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN45	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN46	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN47	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN48	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN49	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN50	TEMPERATURE SENSOR	TEMPERATURE SENSOR

NOTE(MAIN)

CN01	SWITCH	SWITCH
CN02	LOW PRESSURE SENSOR	LOW PRESSURE SENSOR
CN03	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN04	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN05	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN06	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN07	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN08	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN09	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN10	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN11	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN12	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN13	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN14	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN15	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN16	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN17	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN18	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN19	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN20	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN21	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN22	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN23	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN24	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN25	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN26	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN27	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN28	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN29	TEMPERATURE SENSOR	TEMPERATURE SENSOR
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CN32	TEMPERATURE SENSOR	TEMPERATURE SENSOR
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CN43	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN44	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN45	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN46	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN47	TEMPERATURE SENSOR	TEMPERATURE SENSOR
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CN49	TEMPERATURE SENSOR	TEMPERATURE SENSOR
CN50	TEMPERATURE SENSOR	TEMPERATURE SENSOR

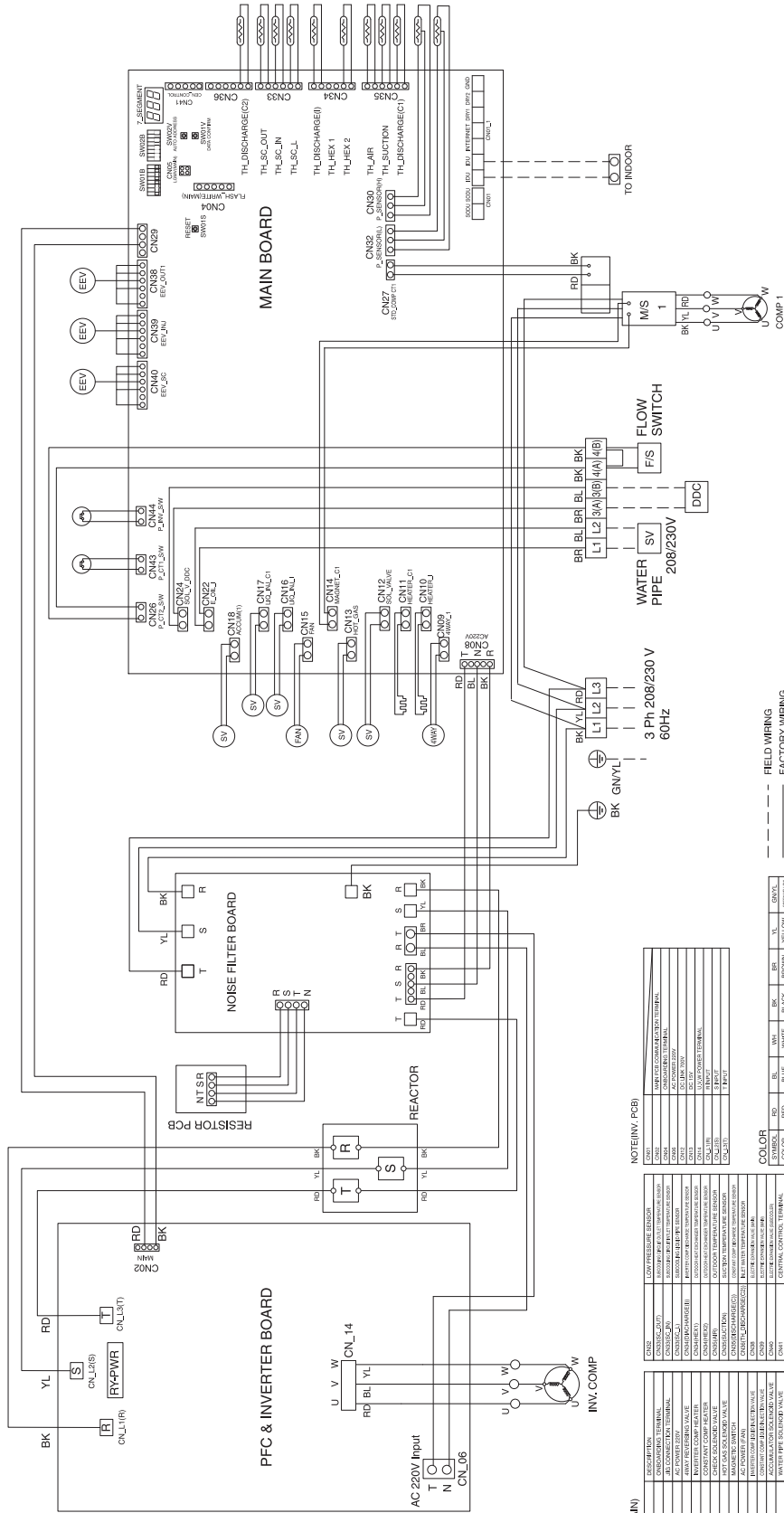
COLOR

BLACK	BK
RED	RD
WHITE	WH
GREEN	GN
YELLOW	YL
BLUE	BL
BROWN	BR
GRAY	GY
ORANGE	OR
PINK	PK
PURPLE	PL
SILVER	SL
GOLD	GD
IRIS	IR
TEAL	TL
NAVY	NY
SLATE	SL
INDIGO	IN
VIOLET	VI
PURPLE	PL
PINK	PK
ORANGE	OR
YELLOW	YL
GREEN	GN
WHITE	WH
RED	RD
BLACK	BK

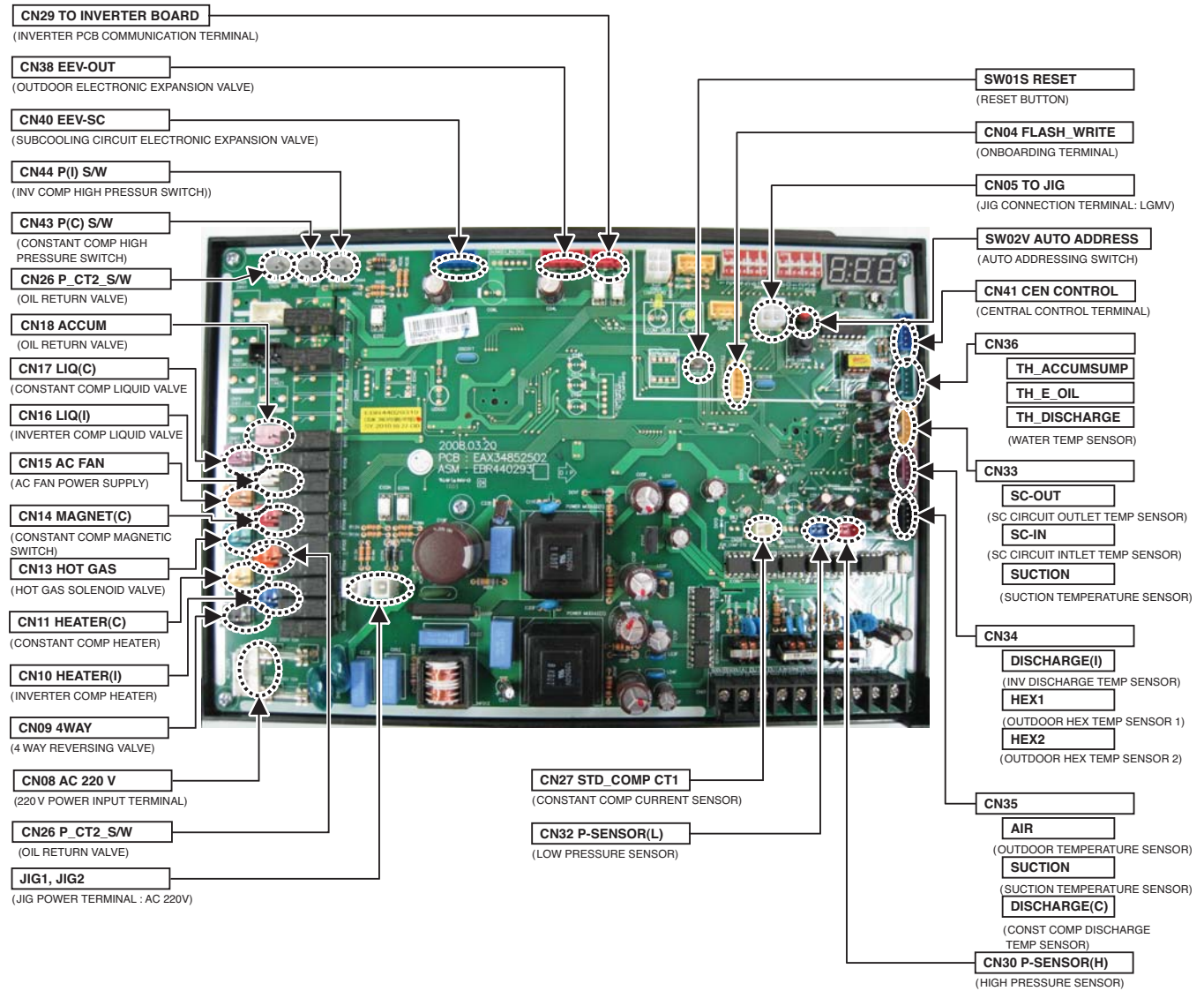
P/No. : MEZ62315005

ARWB144BA2

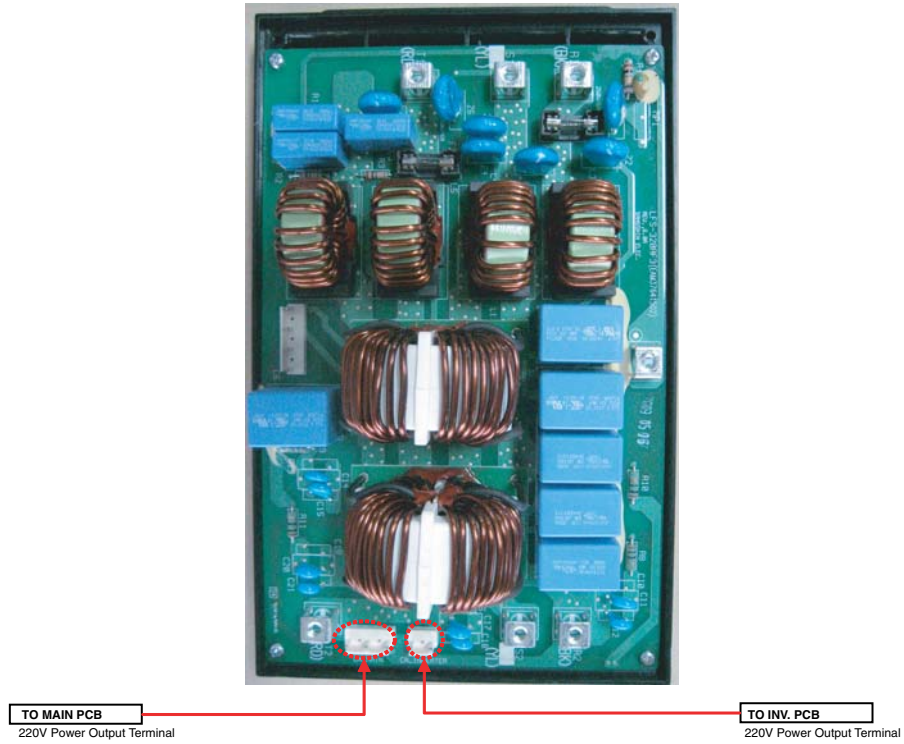
OUTDOOR WIRING DIAGRAM



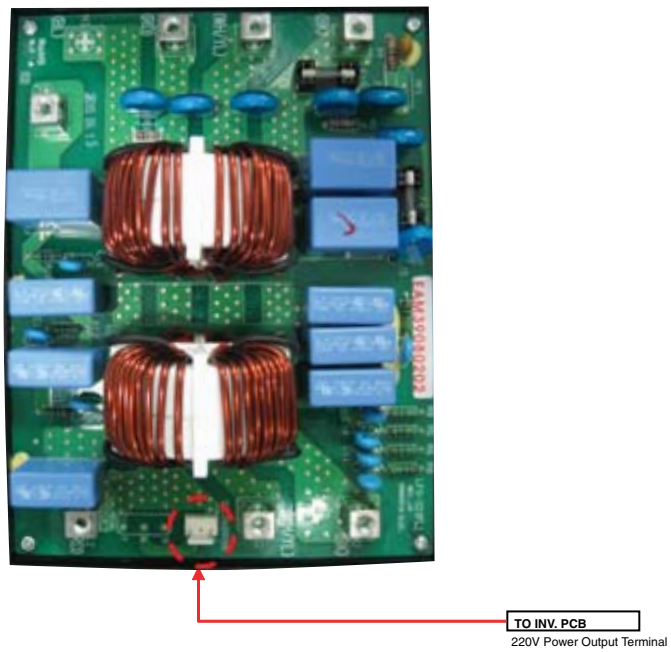
■ Main PCB



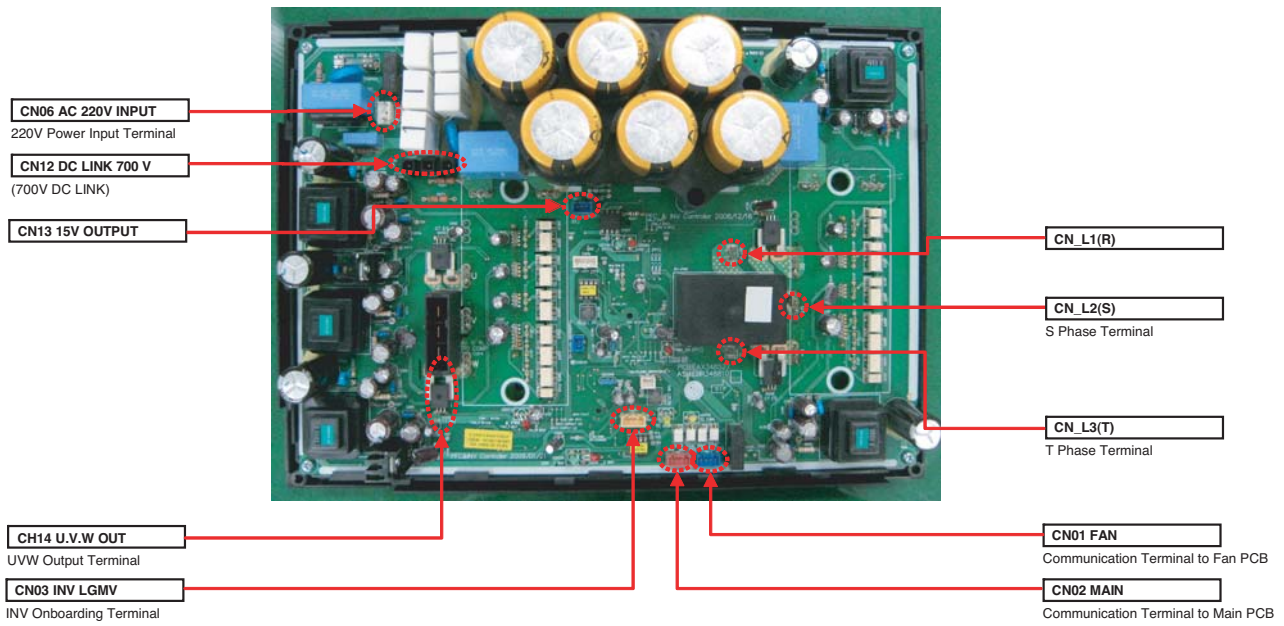
■ Noise Filter(208/230V)



■ Noise Filter(460V)

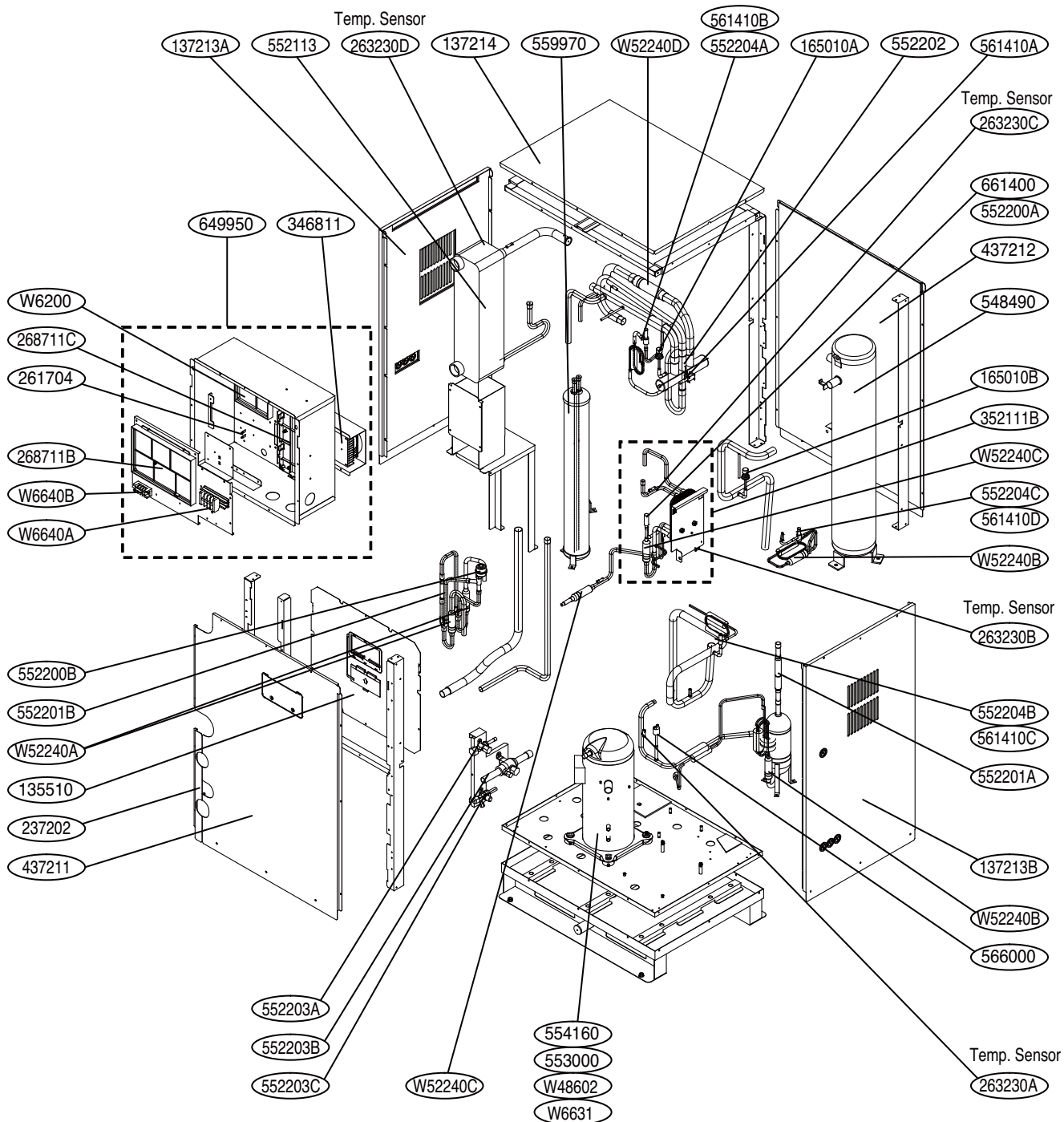


■ Inverter PCB(208/230V, 460V)



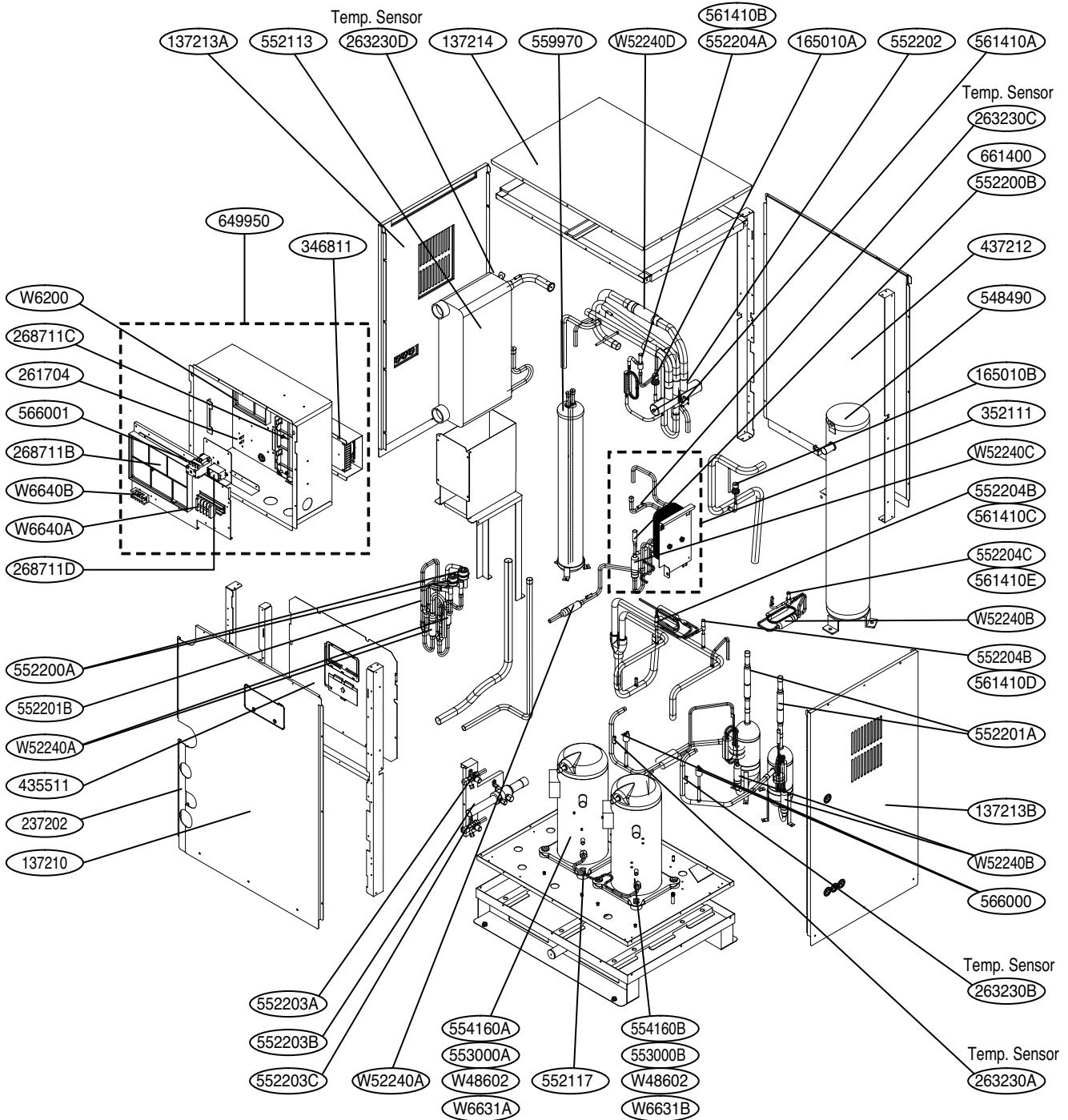
6. Exploded View

ARWN80BA2 / ARWN100DA2



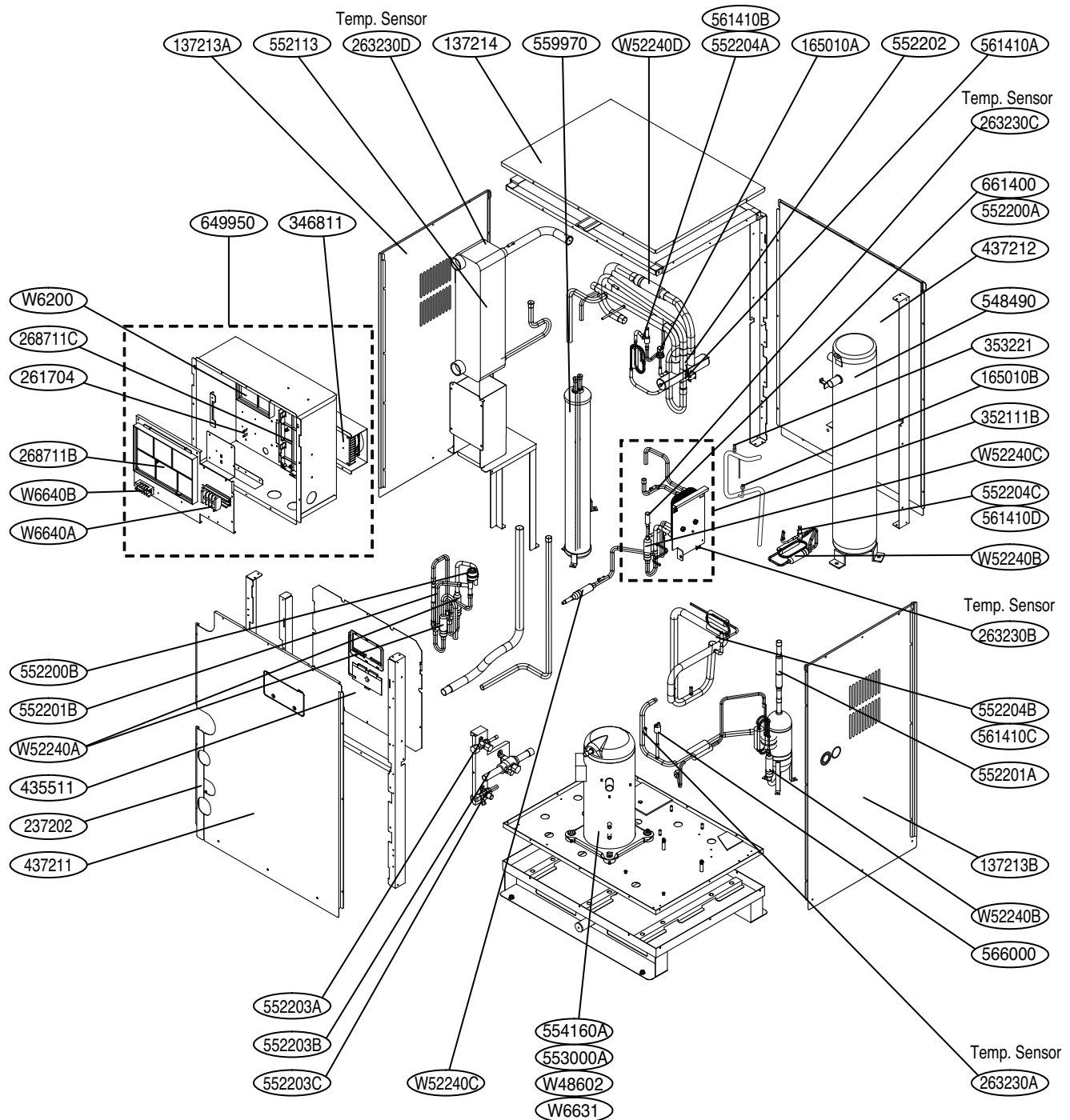
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Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWN160BA2 / ARWN200DA2



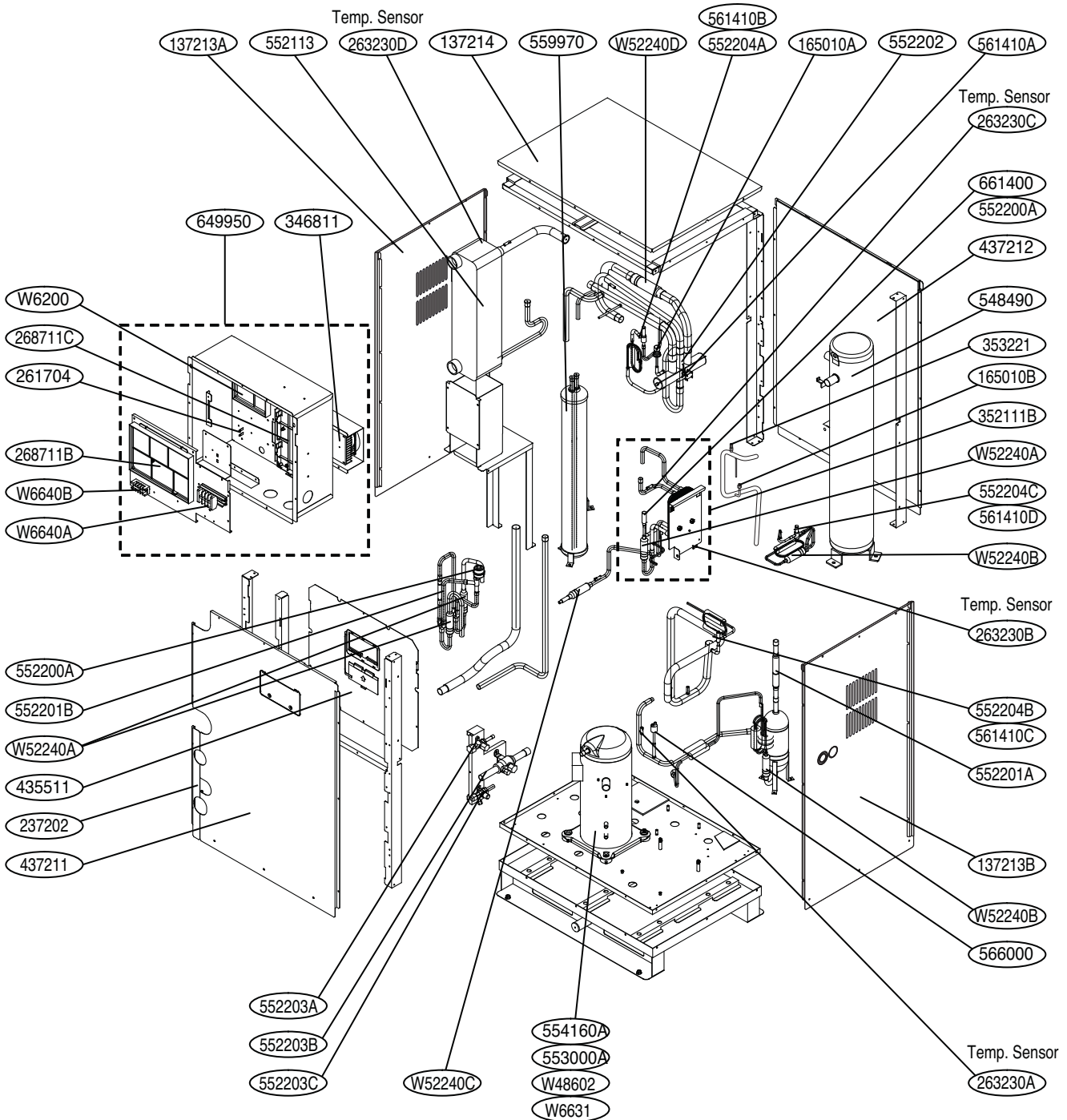
Temp. Sensor 1	263230A	Inv,Discharge + HEX	Housing Color : Violet
Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWN072BA2



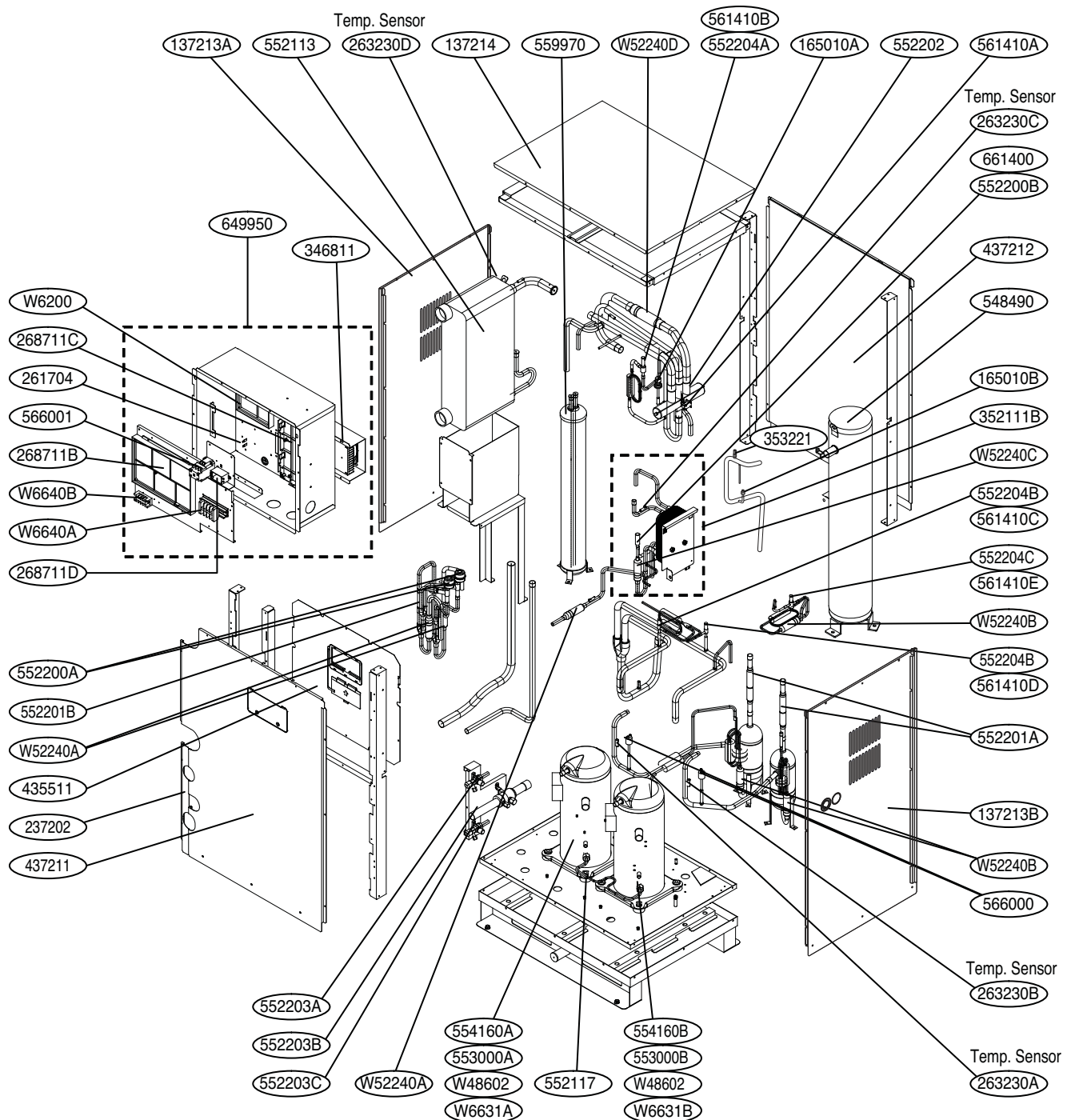
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Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWN096DA2



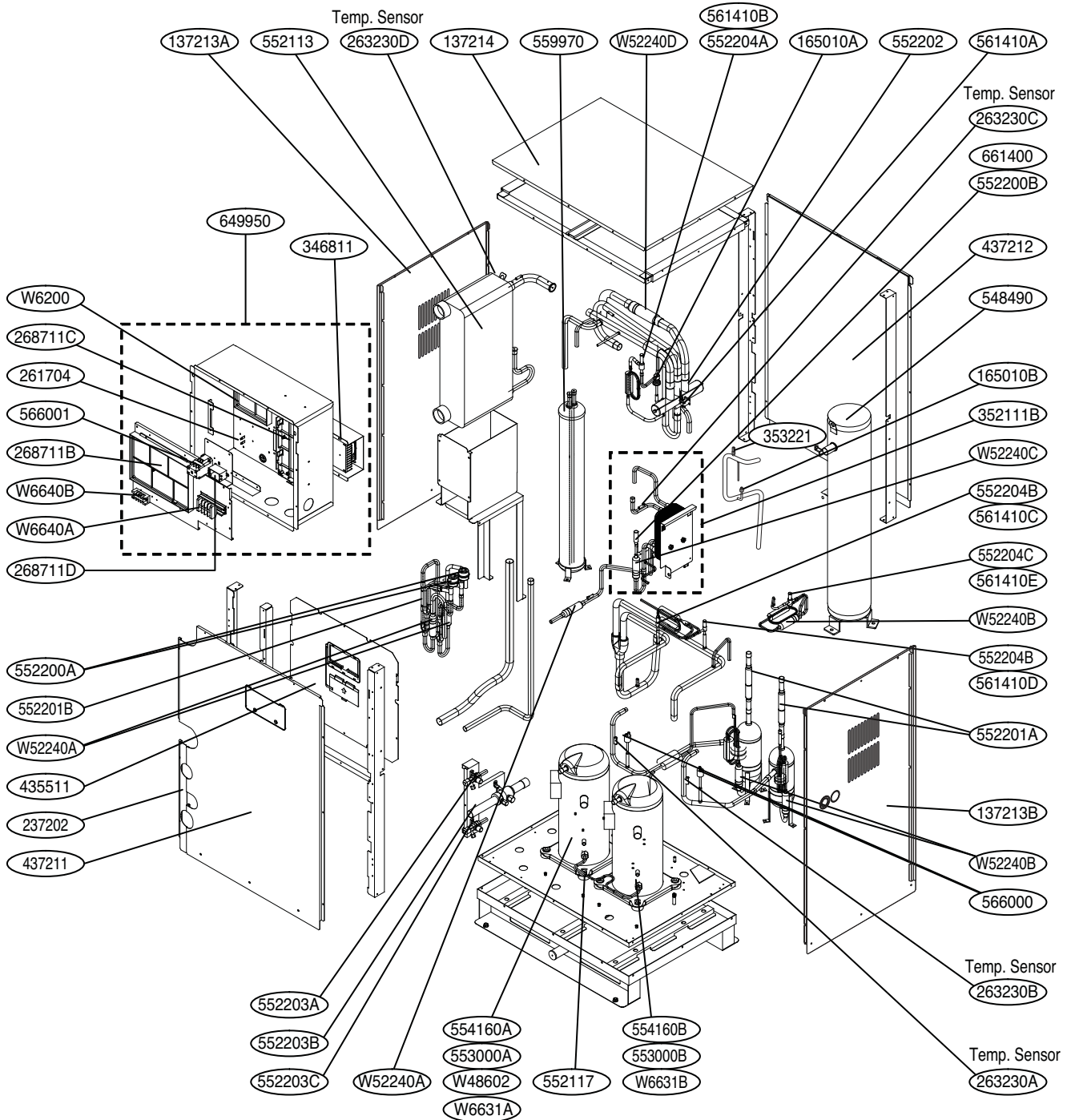
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Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWN144BA2



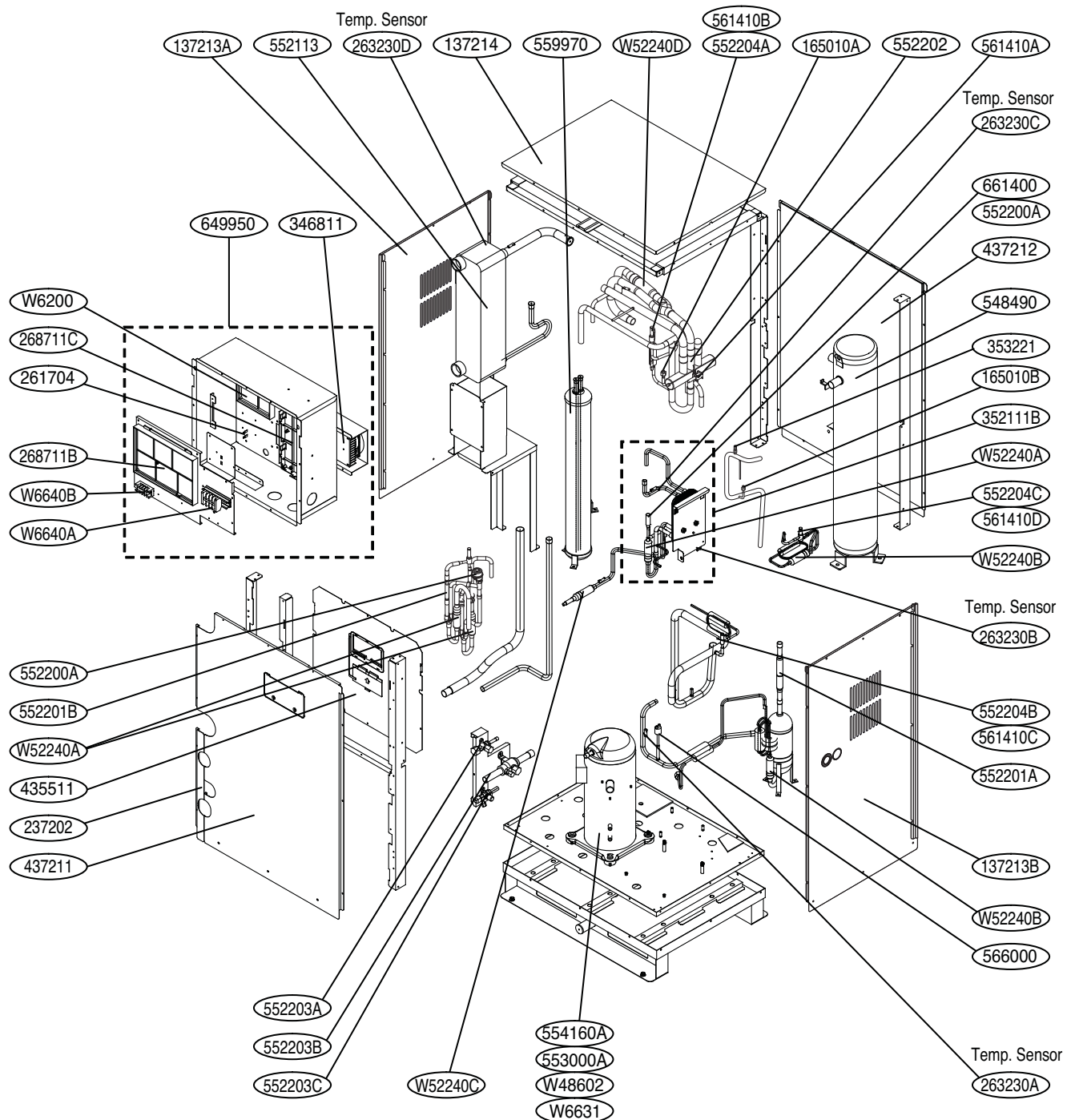
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Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWN192DA2



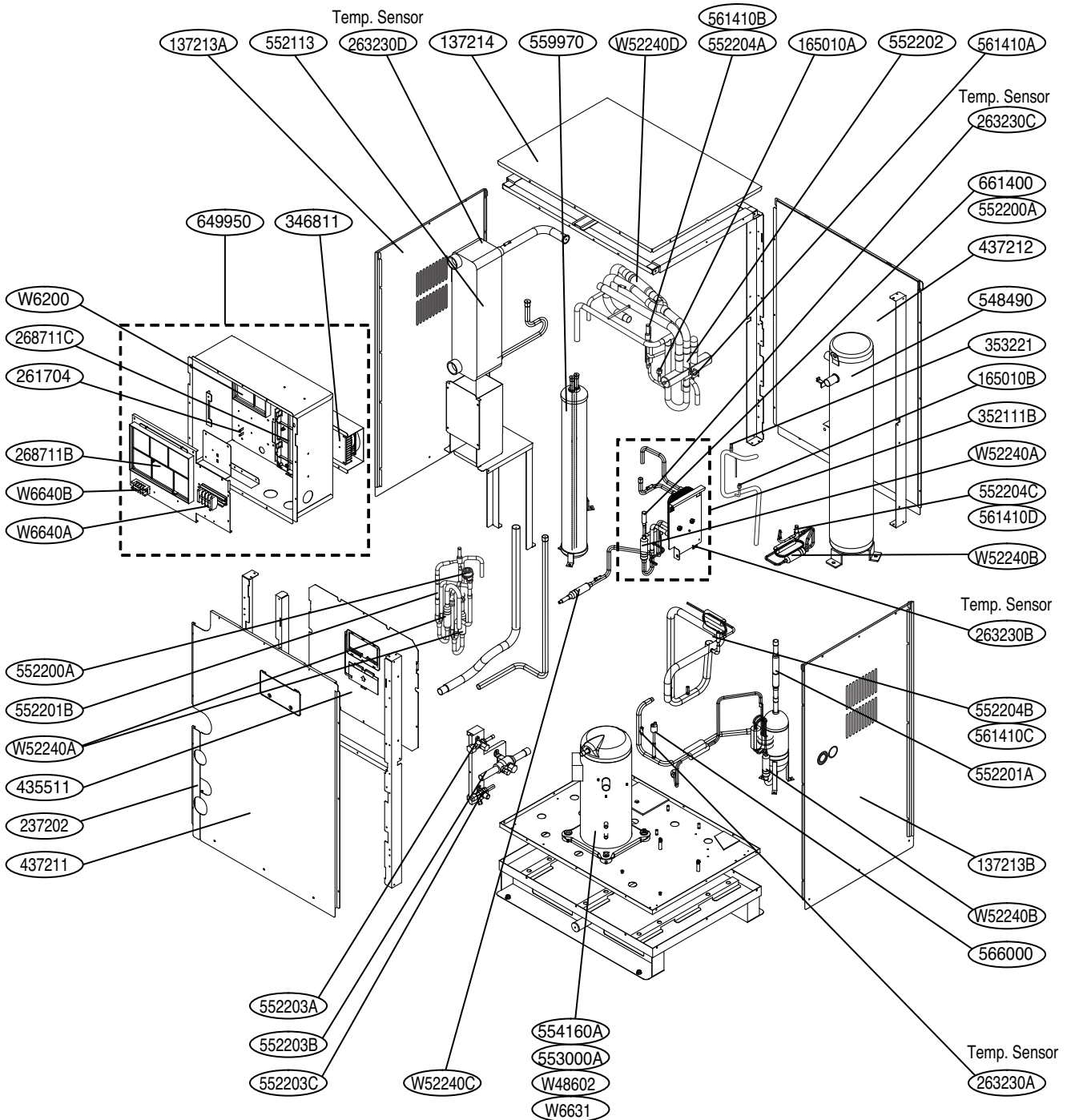
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Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWB072BA2



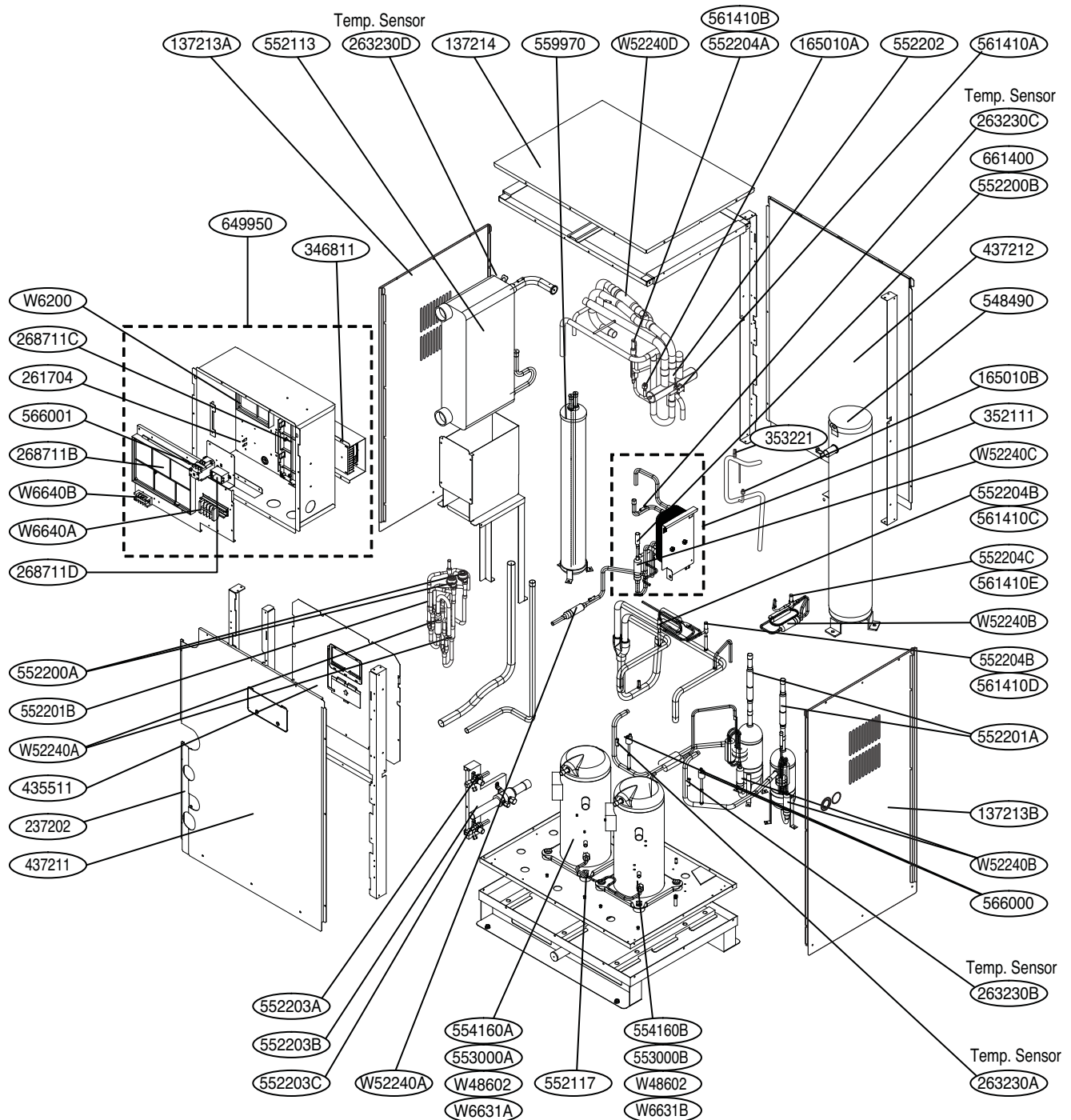
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Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWB096DA2



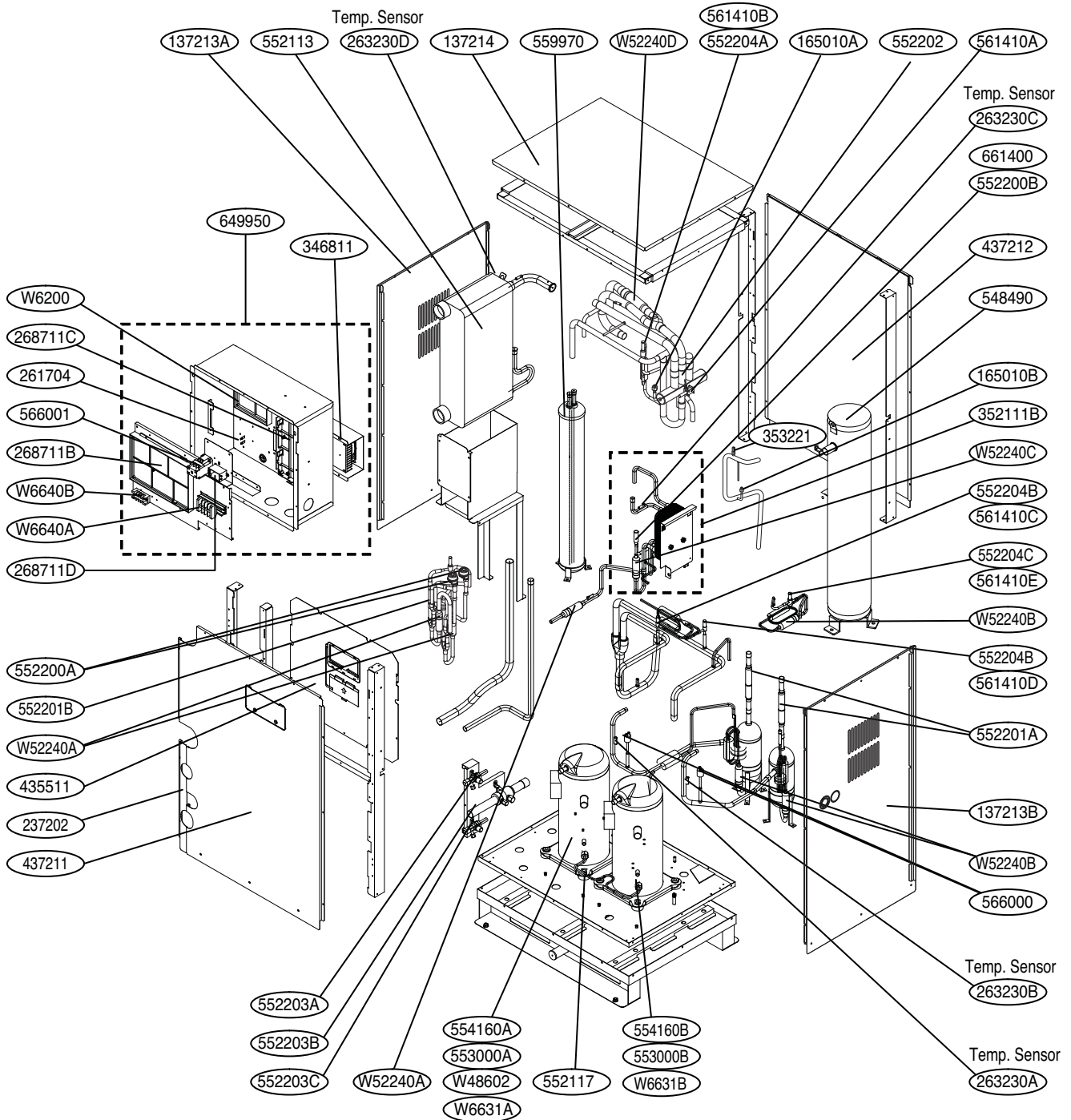
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Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWB144BA2



Temp. Sensor 1	263230A	Inv, Discharge + HEX	Housing Color : Violet
Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green

ARWB192DA2



Temp. Sensor 1	263230A	Inv,Discharge + HEX	Housing Color : Violet
Temp. Sensor 2	263230B	Air + Suction Pipe + Const. Discharge	Housing Color : Black
Temp. Sensor 3	263230C	Liquid Pipe + Subcooler IN + Subcooler OUT	Housing Color : Yellow
Temp. Sensor 4	263230D	Condenser Water OUT	Housing Color : Green



P/NO :MFL67101201

NOVEMBER, 2010