Internal Use Only

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MULTI V™ PLUS II System Outdoor Unit R410A

SERVICE MANUAL R410A (Exploded View)

MODEL : ARUN Series

CAUTION

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

ARUN Series

1. Specification

1.1 Heat Pump(460V)

Heat Pump(460V/60Hz)

HP(Equivalent horsepower)			8	10	12	14
Model Name		Combination Unit	**ARUN076DT2**	**ARUN096DT2**	**ARUN115DT2**	**ARUN134DT2**
		Independent Unit	**ARUN076DT2**	**ARUN096DT2**	**ARUN115DT2**	**ARUN134DT2**
Capacity	Cooling	kW	22.4	28.0	33.6	39.2
		kcal/h	19,300	24,100	28,900	33,700
		Btu/h	76,400	95,500	114,700	133,800
	Heating	kW	25.2	31.5	37.8	44.1
		kcal/h	21,700	27,100	32,500	37,900
		Btu/h	86,000	107,500	129,000	150,500
Input	Cooling	kW	5.28	7.16	9.08	11.85
	Heating	kW	5.73	7.33	9.05	10.60
Casing Color			Warm Gray	Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Piston Displacement	cm^3/rev	52	52+73.4	52+73.4	52+81.6
	Number of Revolution	R.P.M	3,600	3,600+3,495	3,600+3,495	3,600+3,481
	Motor Output x Number	W	5,356x1	(5,356+5,800)x1	(5,356+5,800)x1	(5,356+6,400)x1
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	3,300	5,600	5,600	5,600
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	350 x 2	350 x 2	350 x 2	350 x 2
	Air Flow Rate(High)	CMM	190	190	190	190
		cfm	6,700	6,700	6,700	6,700
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
	Gas Pipes	mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1 1/8)	28.58(1 1/8)
Dimensions (WxHxD)		mm	1,280x1,607x730	1,280x1,607x730	1,280x1,607x730	1,280x1,607x730
		inch	(50-3/8 x 63-5/16 x 28-11/16)	(50-3/8 x 63-5/16 x 28-11/16)	(50-3/8 x 63-5/16 x 28-11/16)	(50-3/8 x 63-5/16 x 28-11/16)
Net Weight		kg	240	285	285	285
		lbs	529	628	628	628
Transmission Cable		mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A	R410A	R410A	R410A
	Control		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 460, 60	3, 460, 60	3, 460, 60	3, 460, 60

Notes:

1. Capacities are based on the following conditions:
   - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
     * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
   - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
     * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

Heat Pump(460V/60Hz)

HP(Equivalent horsepower)			16	18	20	22
Model Name		Combination Unit	**ARUN154DT2**	**ARUN173DT2**	**ARUN192DT2**	**ARUN211DT2**
		Independent Unit	**ARUN154DT2**	**ARUN096DT2**	**ARUN115DT2**	**ARUN134DT2**
				ARUN076DT2	**ARUN076DT2**	**ARUN076DT2**
Capacity	Cooling	kW	44.8	50.4	56.0	61.6
		kcal/h	38,500	43,300	48,200	53,000
		Btu/h	152,900	172,000	191,100	210,200
	Heating	kW	50.4	56.7	63.0	69.3
		kcal/h	43,300	48,800	54,200	59,600
		Btu/h	172,000	193,500	225,000	236,500
Input	Cooling	kW	14.00	12.44	14.36	17.13
	Heating	kW	12.40	12.61	14.33	15.88
Casing Color			Warm Gray	Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Piston Displacement	cm^3/rev	52+81.6	(52+73.4)+52	(52+73.4)+52	(52+81.6)+52
	Number of Revolution	R.P.M	3,600+3,481	(3,600+3,495)+3,600	(3,600+3,495)+3,600	(3,600+3,481)+3,600
	Motor Output x Number	W	(5,356+6,400)x1	(5,356+5,800)x1+5,356	(5,356+5,800)x1+5,356	(5,356+6,400)x1+5,356
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	5,600	5,600+3,300	5,600+3,300	5,600+3,300
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	350 x 2	350 x 4	350 x 4	350 x 4
	Air Flow Rate(High)	CMM	190	380	380	380
		cfm	6,700	13,400	13,400	13,400
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Gas Pipes	mm(inch)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)
Dimensions (WxHxD)		mm	1,280x1,607x730	(1,280x1,607x730)x2	(1,280x1,607x730)x2	(1,280x1,607x730)x2
		inch	(50-3/8 x 63-5/16 x 28-11/16)	((50-3/8 x 63-5/16 x 28-11/16) x 2)	((50-3/8 x 63-5/16 x 28-11/16) x 2)	((50-3/8 x 63-5/16 x 28-11/16) x 2)
Net Weight		kg	285	285+240	285+240	285+240
		lbs	628	628+529	628+529	628+529
Transmission Cable		mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A	R410A	R410A	R410A
	Control		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 460, 60	3, 460, 60	3, 460, 60	3, 460, 60

Notes:

1. Capacities are based on the following conditions:
   Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
   * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
   * Interconnecting Piping Length 7.5m(24.6ft)
   * Level Difference of Zero
   Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
   * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
   * Interconnecting Piping Length 7.5m(24.6ft)
   * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

Heat Pump(460V/60Hz)

HP(Equivalent horsepower)				24	26	28	30
Model Name			Combination Unit	**ARUN230DT2**	**ARUN250DT2**	**ARUN270DT2**	**ARUN290DT2**
			Independent Unit	**ARUN154DT2**	**ARUN134DT2**	**ARUN134DT2**	**ARUN154DT2**
				ARUN076DT2	**ARUN115DT2**	**ARUN134DT2**	**ARUN134DT2**
Capacity	Cooling		kW	67.2	72.8	78.4	84.0
			kcal/h	57,800	62,600	67,400	72,200
			Btu/h	229,300	248,400	267,500	286,600
	Heating		kW	75.6	81.9	88.2	94.5
			kcal/h	65,000	70,400	75,900	81,300
			Btu/h	258,000	279,500	301,000	322,500
Input	Cooling		kW	19.28	21.16	23.08	25.85
	Heating		kW	17.68	19.73	21.45	23.00
Casing Color				Warm Gray	Warm Gray	Warm Gray	Warm Gray
Heat Exchanger				Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type			DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Piston Displacement		cm^3/rev	(52+81.6)+52	(52+81.6)+(52+73.4)	(52+81.6)x2	(52+81.6)x2
	Number of Revolution		R.P.M	(3,600+3,481)+3,600	(3,600+3,481+3,600+3,495)	(3,600+3,481)x2	(3,600+3,481)x2
	Motor Output x Number		W	(5,356+6,400)x1+5,356	(5,356+6,400)+(5,356+5,800)	(5,356+6,400)x2	(5,356+6,400)x2
	Starting Method			Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge		cc	5,600+3,300	5,600+5,600	5,600+5,600	5,600+5,600
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number		W	350 x 4	350 x 4	350 x 4	350 x 4
	Air Flow Rate(High)		CMM	380	380	380	380
			cfm	13,400	13,400	13,400	13,400
	Drive			DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipes		mm(inch)	15.88(5/8)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipes		mm(inch)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)
Dimensions (WxHxD)			mm	(1,280x1,607x730)x2	(1,280x1,607x730)x2	(1,280x1,607x730)x2	(1,280x1,607x730)x2
			inch	((50-3/8 x 63-5/16 x 28-11/16) x 2)	((50-3/8 x 63-5/16 x 28-11/16) x 2)	((50-3/8 x 63-5/16 x 28-11/16) x 2)	((50-3/8 x 63-5/16 x 28-11/16) x 2)
Net Weight			kg	285+240	285x2	285x2	285x2
			lbs	628+529	628x2	628x2	628x2
Transmission Cable			mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name			R410A	R410A	R410A	R410A
	Control			EEV	EEV	EEV	EEV
Power Supply			Ø, V, Hz	3, 460, 60	3, 460, 60	3, 460, 60	3, 460, 60

Notes:

1. Capacities are based on the following conditions:
   - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
     * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
   - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
     * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

Heat Pump(460V/60Hz)

HP(Equivalent horsepower)			32	34	36	38
Model Name		Combination Unit	**ARUN310DT2**	**ARUN330DT2**	**ARUN350DT2**	**ARUN370DT2**
		Independent Unit	**ARUN154DT2**	**ARUN134DT2**	**ARUN134DT2**	**ARUN154DT2**
			ARUN154DT2	**ARUN115DT2**	**ARUN134DT2**	**ARUN134DT2**
				ARUN076DT2	**ARUN076DT2**	**ARUN076DT2**
Capacity	Cooling	kW	89.6	95.2	100.8	106.4
		kcal/h	77,100	81,900	86,700	91,500
		Btu/h	305,700	324,800	343,900	363,100
	Heating	kW	100.8	107.1	113.4	119.7
		kcal/h	86,700	92,100	97,500	102,900
		Btu/h	343,900	365,400	386,900	408,400
Input	Cooling	kW	28	26.21	28.98	33.01
	Heating	kW	24.8	25.38	26.93	30.33
Casing Color			Warm Gray	Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Piston Displacement	cm^3/rev	(52+81.6)x2	(52+81.6)*2+52	(52+81.6)*2+52	(52+81.6)*2+52
	Number of Revolution	R.P.M	(3,600+3,481)x2	(3,600+3,481)*2+3,600	(3,600+3,481)*2+3,600	(3,600+3,481)*2+3,600
	Motor Output x Number	W	(5,356+6,400)x2	(5,356+6,400)x2+5,356	(5,356+6,400)x2+5,356	(5,356+6,400)x2+5,356
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	5,600+5,600	3300+5600*2	3300+5600*2	3300+5600*2
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	350 x 4	350 x 6	350 x 6	350 x 6
	Air Flow Rate(High)	CMM	380	570	570	570
		cfm	13400	20,100	20,100	20,100
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipes	mm(inch)	34.9(1 3/8)	34.9(1 3/8)	41.3(1 5/8)	41.3(1 5/8)
Dimensions (WxHxD)		mm	(1,280x1,607x730)x2	(1280x1607x730)*3	(1280x1607x730)*3	(1280x1607x730)*3
		inch	((50-3/8 x 63-5/16 x 28-11/16) x 2)	(50.4x63.3x28.7)*3	(50.4x63.3x28.7)*3	(50.4x63.3x28.7)*3
Net Weight		kg	285x2	285*2+240	285*2+240	285*2+240
		lbs	628x2	628*2 + 529	628*2 + 529	628*2 + 529
Transmission Cable		mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A	R410A	R410A	R410A
	Control		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 460, 60	3, 460, 60	3, 460, 60	3, 460, 60

Notes:

1. Capacities are based on the following conditions:
   - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
     * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
   - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
     * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

Heat Pump(460V/60Hz)

HP(Equivalent horsepower)			40	42	44	46
Model Name		Combination Unit	**ARUN390DT2**	**ARUN410DT2**	**ARUN430DT2**	**ARUN450DT2**
		Independent Unit	**ARUN154DT2**	**ARUN154DT2**	**ARUN154DT2**	**ARUN154DT2**
			ARUN154DT2	**ARUN154DT2**	**ARUN154DT2**	**ARUN154DT2**
			ARUN076DT2	**ARUN096DT2**	**ARUN115DT2**	**ARUN134DT2**
Capacity	Cooling	kW	112.0	117.6	123.2	128.8
		kcal/h	96,300	101,100	105,900	110,700
		Btu/h	382,200	401,700	420,500	439,600
	Heating	kW	126	132.3	138.6	144.9
		kcal/h	108,400	113,700	119,100	124,500
		Btu/h	429,900	451,500	473,000	494,500
Input	Cooling	kW	33.28	35.16	37.08	39.85
	Heating	kW	30.53	32.13	33.85	35.4
Casing Color			Warm Gray	Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Piston Displacement	cm^3/rev	(52+81.6)*2+52	(52+81.6)*3	(52+81.6)*3	(52+81.6)*3
	Number of Revolution	R.P.M	(3,600+3,481)*2+3,600	(3,600+3,481)*3	(3,600+3,481)*3	(3,600+3,481)*3
	Motor Output x Number	W	(5,356+6,400)x2+5,356	(5,356+6,400)x3	(5,356+6,400)x3	(5,356+6,400)x3
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	3300+5600*2	5600*3	5600*3	5600*3
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	350 x 6	350 x 6	350 x 6	350 x 6
	Air Flow Rate(High)	CMM	570	570	570	570
		cfm	20,100	20,100	20,100	20,100
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipes	mm(inch)	41.3(1 5/8)	41.3(1 5/8)	41.3(1 5/8)	41.3(1 5/8)
Dimensions (WxHxD)		mm	(1280x1607x730)*3	(1280x1607x730)*3	(1280x1607x730)*3	(1280x1607x730)*3
		inch	(50.4x63.3x28.7)*3	(50.4x63.3x28.7)*3	(50.4x63.3x28.7)*3	(50.4x63.3x28.7)*3
Net Weight		kg	285*2+240	285*3	285*3	285*3
		lbs	628*2 + 529	628*3	628*3	628*3
Transmission Cable		mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A	R410A	R410A	R410A
	Control		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 460, 60	3, 460, 60	3, 460, 60	3, 460, 60

Notes:

1. Capacities are based on the following conditions:
   - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
     * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
   - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
     * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

Heat Pump(460V/60Hz)

HP(Equivalent horsepower)			48
Model Name		Combination Unit	ARUN470DT2
		Independent Unit	ARUN154DT2
			ARUN154DT2
			ARUN154DT2
Capacity	Cooling	kW	134.4
		kcal/h	115,500
		Btu/h	458,700
	Heating	kW	151.2
		kcal/h	129,900
		Btu/h	516,000
Input	Cooling	kW	42.00
	Heating	kW	37.20
Casing Color			Warm Gray
Heat Exchanger			Gold fin
Compressor	Type		DC Scroll
	Piston Displacement	cm^3/rev	(52+81.6)*3
	Number of Revolution	R.P.M	(3,600+3,481)*3
	Motor Output x Number	W	(5,356+6,400)x3
	Starting Method		Direct On Line
	Oil Type		FVC68D(PVE)
	Oil Charge	cc	5600*3
Fan	Type		Propeller fan
	Motor Output x Number	W	350 x 6
	Air Flow Rate(High)	CMM	570
		cfm	20,100
	Drive		DC INVERTER
	Discharge	Side / Top	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	19.05(3/4)
	Gas Pipes	mm(inch)	41.3(1 5/8)
Dimensions (WxHxD)		mm	(1280x1607x730)*3
		inch	(50.4x63.3x28.7)*3
Net Weight		kg	285*3
		lbs	628*3
Transmission Cable		mm^2	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A
	Control		EEV
Power Supply		Ø, V, Hz	3, 460, 60

Notes:

1. Capacities are based on the following conditions:
   - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
     * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
   - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
     * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

1.2 Heat Pump(208/230V)

Heat Pump(208/230V, 60Hz)

HP(Equivalent horsepower)			8	10	12	16
Model Name		Combination Unit	ARUN076BT2	ARUN096BT2	ARUN115BT2	ARUN154BT2
		Independent Unit	ARUN076BT2	ARUN096BT2	ARUN115BT2	ARUN076BT2 ARUN076BT2
Capacity	Cooling	kW	22.4	28.0	33.6	44.8
		kcal/h	19,300	24,100	28,900	38,500
		Btu/h	76,400	95,500	114,700	152,900
	Heating	kW	25.2	31.5	37.8	50.4
		kcal/h	21,700	27,100	32,500	43,300
		Btu/h	86,000	107,500	129,000	172,000
Input	Cooling	kW	6.20	7.80	10.80	12.40
	Heating	kW	7.00	8.80	11.10	14.00
Casing Color			Warm Gray	Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Piston Displacement	cm^3/rev	38.3 + 59.8	38.3 + 59.8	38.3 + 59.8	(38.3 + 59.8)x2
	Number of Revolution	R.P.M	3,600 + 3,500	3,600 + 3,500	3,600 + 3,500	(3,600 + 3,500)x2
	Motor Output x Number	W	(4,130 + 5,280)x1	(4,130 + 5,280)x1	(4,130 + 5,280)x1	(4,130 + 5,280)x2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	5,600	5,600	5,600	5,600x2
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	350 x 2	350 x 2	350 x 2	350 x 4
	Air Flow Rate(High)	CMM	190	190	190	380
		cfm	6,700	6,700	6,700	13,400
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
	Gas Pipes	mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1 1/8)	28.58(1 1/8)
Dimensions (WxHxD)		mm	1,280x1,607x730	1,280x1,607x730	1,280x1,607x730	(1,280x1,607x730)x2
		inch	(50-3/8 x 63-5/16 x 28-11/16)	50-3/8 x 63-5/16 x 28-11/16)	50-3/8 x 63-5/16 x 28-11/16)	((50-3/8 x 63-5/16 x 28-11/16) x 2)
Net Weight		kg	285	285	285	285+285
		lbs	628	628	628	628+628
Transmission Cable		mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A	R410A	R410A	R410A
	Control		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 208/230, 60	3, 208/230, 60	3, 208/230, 60	3, 208/230, 60

Notes:

1. Capacities are based on the following conditions:
   - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
     * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
   - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
     * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

Heat Pump(208/230V, 60Hz)

HP(Equivalent horsepower)			18	20	22	24
Model Name		Combination Unit	**ARUN173BT2**	**ARUN192BT2**	**ARUN211BT2**	**ARUN230BT2**
		Independent Unit	**ARUN096BT2 ARUN076BT2**	**ARUN096BT2 ARUN096BT2**	**ARUN115BT2 ARUN096BT2**	**ARUN115BT2 ARUN115BT2**
Capacity	Cooling	kW	50.4	56.0	61.6	67.2
		kcal/h	43,300	48,200	53,000	57,800
		Btu/h	172,000	191,100	210,200	229,300
	Heating	kW	56.7	63.0	69.3	75.6
		kcal/h	48,800	54,200	59,600	65,000
		Btu/h	193,500	225,000	236,500	258,000
Input	Cooling	kW	14.00	15.60	18.60	21.60
	Heating	kW	15.80	17.60	19.90	22.20
Casing Color			Warm Gray	Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Piston Displacement	cm^3/rev	(38.3+59.8)*2	(38.3+59.8)*2	(38.3+59.8)*2	(38.3+59.8)*2
	Number of Revolution	R.P.M	(3,600+3,500)x2	(3,600+3,500)x2	(3,600+3,500)x2	(3,600+3,500)x2
	Motor Output x Number	W	(4,130+5,280)x2	(4,130+5,280)x2	(4,130+5,280)x2	(4,130+5,280)x2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	5600*2	5600*2	5600*2	5600*2
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	350 x 4	350 x 4	350 x 4	350 x 4
	Air Flow Rate(High)	CMM	380	380	380	380
		cfm	13,400	13,400	13,400	13,400
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Gas Pipes	mm(inch)	28.58(1 1/8)	28.58(1 1/8)	28.58(1 1/8)	34.9(1 3/8)
Dimensions (WxHxD)		mm	(1280x1607x730)*2	(1280x1607x730)*2	(1280x1607x730)*2	(1280x1607x730)*2
		inch	(50.4x63.3x28.7)*2	(50.4x63.3x28.7)*2	(50.4x63.3x28.7)*2	(50.4x63.3x28.7)*2
Net Weight		kg	285+285	285+285	285+285	285+285
		lbs	628+628	628+628	628+628	628+628
Transmission Cable		mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A	R410A	R410A	R410A
	Control		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3,208/230,60	3,208/230,60	3,208/230,60	3,208/230,60

Notes:

1. Capacities are based on the following conditions:
   Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
   * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
   * Interconnecting Piping Length 7.5m(24.6ft)
   * Level Difference of Zero
   Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
   * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
   * Interconnecting Piping Length 7.5m(24.6ft)
   * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

Heat Pump(208/230V, 60Hz)

HP(Equivalent horsepower)			26	28	30	32
Model Name		Combination Unit	**ARUN250BT2**	**ARUN270BT2**	**ARUN290BT2**	**ARUN310BT2**
		Independent Unit	**ARUN096BT2 ARUN076BT2 ARUN076BT2**	**ARUN096BT2 ARUN096BT2 ARUN076BT2**	**ARUN096BT2 ARUN096BT2 ARUN096BT2**	**ARUN115BT2 ARUN096BT2 ARUN096BT2**
Capacity	Cooling	kW	72.8	78.4	84.0	89.6
		kcal/h	62,600	67,400	72,200	77,100
		Btu/h	248,400	267,500	286,600	305,700
	Heating	kW	81.9	88.2	94.5	100.8
		kcal/h	70,400	75,900	81,300	86,700
		Btu/h	279,500	301,000	322,500	343,900
Input	Cooling	kW	20.20	29.40	23.40	26.40
	Heating	kW	22.80	31.00	26.40	28.70
Casing Color			Warm Gray	Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Piston Displacement	cm^3/rev	(38.3+59.8)*3	(38.3+59.8)*3	(38.3+59.8)*3	(38.3+59.8)*3
	Number of Revolution	R.P.M	(3,600+3,500)x3	(3,600+3,500)x3	(3,600+3,500)x3	(3,600+3,500)x3
	Motor Output x Number	W	(4,130+5,280)x3	(4,130+5,280)x3	(4,130+5,280)x3	(4,130+5,280)x3
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	5600*3	5600*3	5600*3	5600*3
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	350 x 6	350 x 6	350 x 6	350 x 6
	Air Flow Rate(High)	CMM	570	570	570	570
		cfm	20,100	20,100	20,100	20,100
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipes	mm(inch)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)	34.9(1 3/8)
Dimensions (WxHxD)		mm	(1280x1607x730)*3	(1280x1607x730)*3	(1280x1607x730)*2	(1280x1607x730)*2
		inch	(50.4x63.3x28.7)*3	(50.4x63.3x28.7)*3	(50.4x63.3x28.7)*2	(50.4x63.3x28.7)*2
Net Weight		kg	285+285+285	285+285+285	285+285+285	285+285+285
		lbs	628+628+628	628+628+628	628+628+628	628+628+628
Transmission Cable		mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A	R410A	R410A	R410A
	Control		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 208/230, 60	3, 208/230, 60	3, 208/230, 60	3, 208/230, 60

Notes:

1. Capacities are based on the following conditions:
   - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
     * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
   - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
     * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

Heat Pump(208/230V, 60Hz)

HP(Equivalent horsepower)			34	36
Model Name		Combination Unit	**ARUN330BT2**	**ARUN350BT2**
		Independent Unit	**ARUN115BT2** **ARUN115BT2** **ARUN096BT2**	**ARUN115BT2** **ARUN115BT2** **ARUN115BT2**
Capacity	Cooling	kW	95.2	100.8
		kcal/h	81,900	86,700
		Btu/h	324,800	343,900
	Heating	kW	107.1	113.4
		kcal/h	92,100	97,500
		Btu/h	365,400	386,900
Input	Cooling	kW	29.40	32.40
	Heating	kW	31.00	33.30
Casing Color			Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin
Compressor	Type		DC Scroll	DC Scroll
	Piston Displacement	cm^3/rev	(38.3+59.8)*3	(38.3+59.8)*3
	Number of Revolution	R.P.M	(3,600+3,500)x3	(3,600+3,500)x3
	Motor Output x Number	W	(4,130+5,280)x3	(4,130+5,280)x3
	Starting Method		Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	5600*3	5600*3
Fan	Type		Propeller fan	Propeller fan
	Motor Output x Number	W	350 x 6	350 x 6
	Air Flow Rate(High)	CMM	570	570
		cfm	20,100	20,100
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP
Pipe Connctions	Liquid Pipes	mm(inch)	19.05(3/4)	19.05(3/4)
	Gas Pipes	mm(inch)	34.9(1 3/8)	41.3(1 5/8)
Dimensions (WxHxD)		mm	(1280x1607x730)*2	(1280x1607x730)*2
		inch	(50.4x63.3x28.7)*2	(50.4x63.3x28.7)*2
Net Weight		kg	285+285+285	285+285+285
		lbs	628+628+628	628+628+628
Transmission Cable		mm^2	CVV-SB 1.25x2C	CVV-SB 1.25x2C
Refigerant	Refigerant name		R410A	R410A
	Control		EEV	EEV
Power Supply		Ø, V, Hz	3, 208/230, 60	3, 208/230, 60

Notes:

1. Capacities are based on the following conditions:
   - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
     * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
   - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
     * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
     * Interconnecting Piping Length 7.5m(24.6ft)
     * Level Difference of Zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without prior notification
4. EEV : Electronic Expansion Valve

Conversion Formula
kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m^3/min x 35.3
l/s = CMM x 1000/60

2. Functions

Category	Function	Single Unit	Series Unit
Reliability	Defrost/ Deicing	O	O
	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	O	O
Convenience	Auto operation(Artificial intelligence)	O	O
	Auto restart operation	O	O
CAC network Function	Network Solution(LGAP)	O	O
	Power Distribution Indicator(PQNUD1S00)	O	O
Other	Thermistor	-	-

O : Applied X : Not applied - : No reation
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.

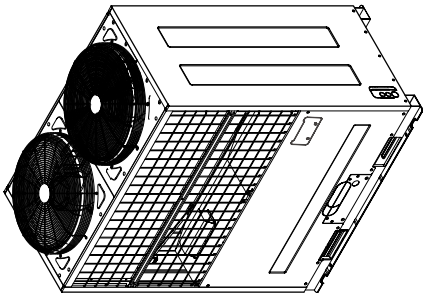
Category	Device	PLUS II
CAC Network	Network Solution(LGAP)	O
	Simple Central Controller	PQCSB101S0
	Function Controller	PQCSC101S0
	PC Central control Software	PQCSS513A0
	Deluxe Central Controller	PQCSW502A2
	Power Distribution Indicator(PDI)	PQNUD1S00
	CNU2(I-Gataway)	PQNFG14B0
	Dry contact(Outdoor Unit)	PRDSBM
	Dry contact(Indoor Unit)	PQDSB
	AC Smart	PQCSW320A0E
	ACP	PQCPA11A0E/B11A0E
	AC Manager	PQCSS520A0E
	LONWORKS Gateway (BNU-LW)	PQNFB16A1
	BACnet Gateway (BNU-BAC)	PQNFB17B0
Program	LG MV	Option
Other	Y branch	Accessory
	Header branch	Accessory
	Air Guide	PQAGA
	Refrigerant Charging Kit	PRAC1

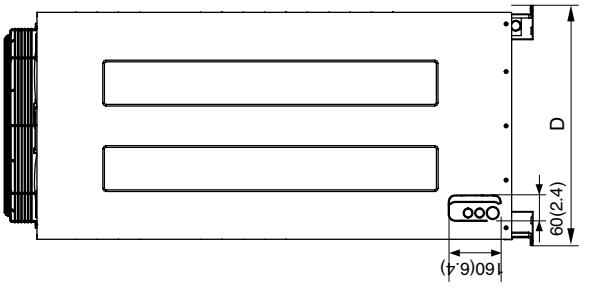
O : Applied X : Not applied - : No reation
Option : Model name & price are different according to options, and assembled in factory with main unit
Accessory : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separated package.

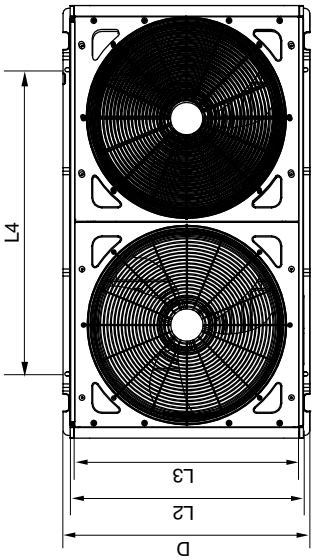
3. Dimensions

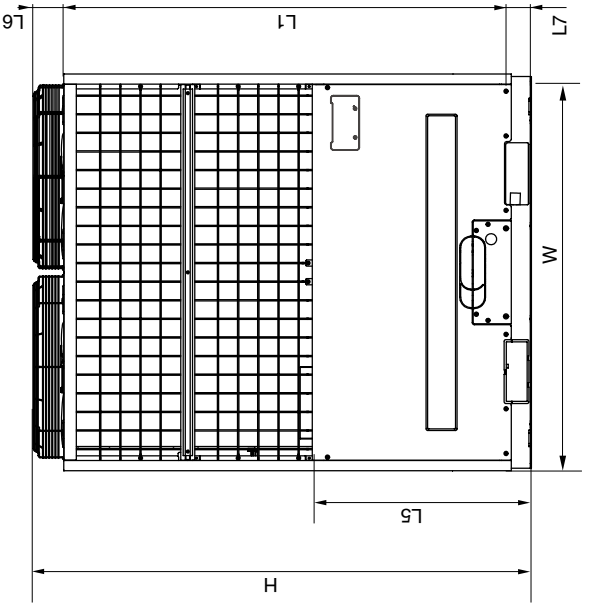
Outdoor Unit(460V)
ARUN076DT2 ARUN096DT2 ARUN115DT2 ARUN134DT2 ARUN154DT2

W	mm(inch)	1280(50.4)
H	mm(inch)	1607(63.3)
D	mm(inch)	730(28.7)
L1	mm(inch)	1427(56.1)
L2	mm(inch)	692(27.2)
L3	mm(inch)	670(26.3)
L4	mm(inch)	900(35.4)
L5	mm(inch)	704(27.7)
L6	mm(inch)	99(3.9)
L7	mm(inch)	82(3.2)









LG Electronics

76, Seongsan-dong, Changwon City, Gyeongnam,
641-713, Korea
www.lge.com/airconditioner

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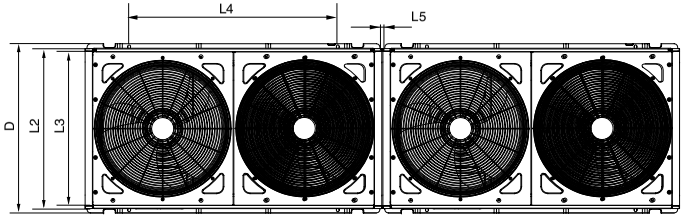
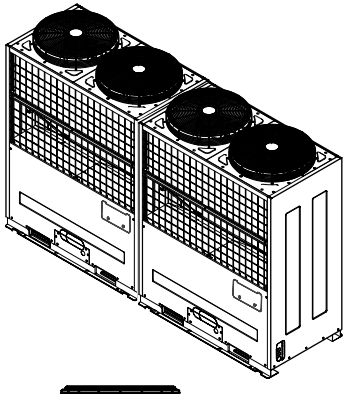
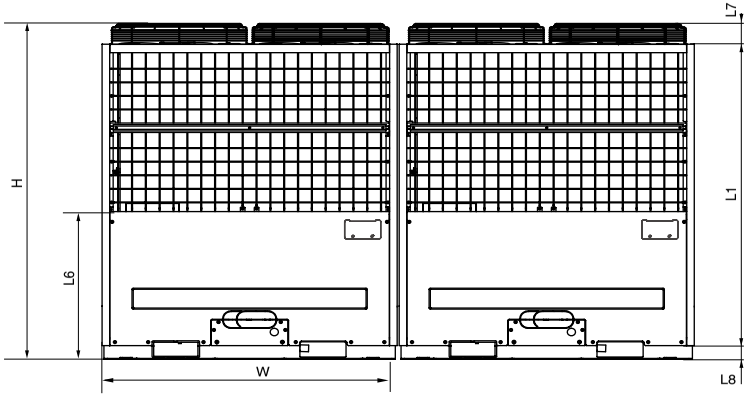
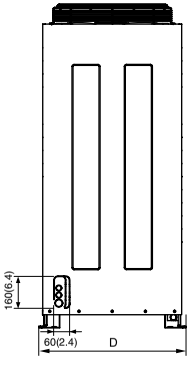








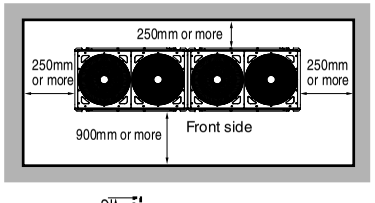
Outdoor Unit(460V)

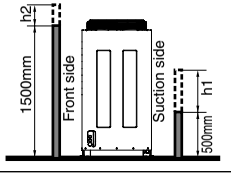
ARUN173DT2
ARUN192DT2
ARUN211DT2
ARUN230DT2
ARUN250DT2
ARUN270DT2
ARUN290DT2
ARUN310DT2

W	mm(inch)	1280(50.4)
H	mm(inch)	1607(63.3)
D	mm(inch)	730(28.7)
L1	mm(inch)	1427(56.1)
L2	mm(inch)	692(27.2)
L3	mm(inch)	670(26.3)
L4	mm(inch)	900(35.4)
L5	mm(inch)	10(0.4)
L6	mm(inch)	704(27.7)
L7	mm(inch)	99(3.9)
L8	mm(inch)	82(3.2)

Notes:

1. Height of walls in case of pattern1:
   Front side:1500mm, Suction side:500mm
2. If the above wall heights are exceeded, then h1/2 and h2/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units, the most appropriate pattern should be selected from those shown. In order to obtain the best fit in the space available, always bear in mind the need to leave enough room for a person to pass between units and wall and for the air to circulate freely. Your layout should take into account the possibility of short circuits.
4. The Units should be installed to leave sufficient space in front for the on site refrigerant piping work to be carried out comfortably.





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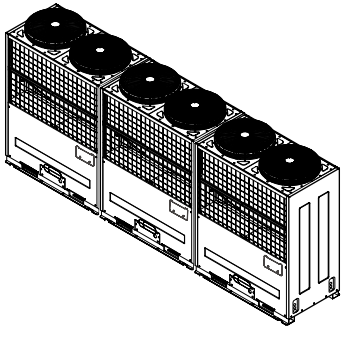
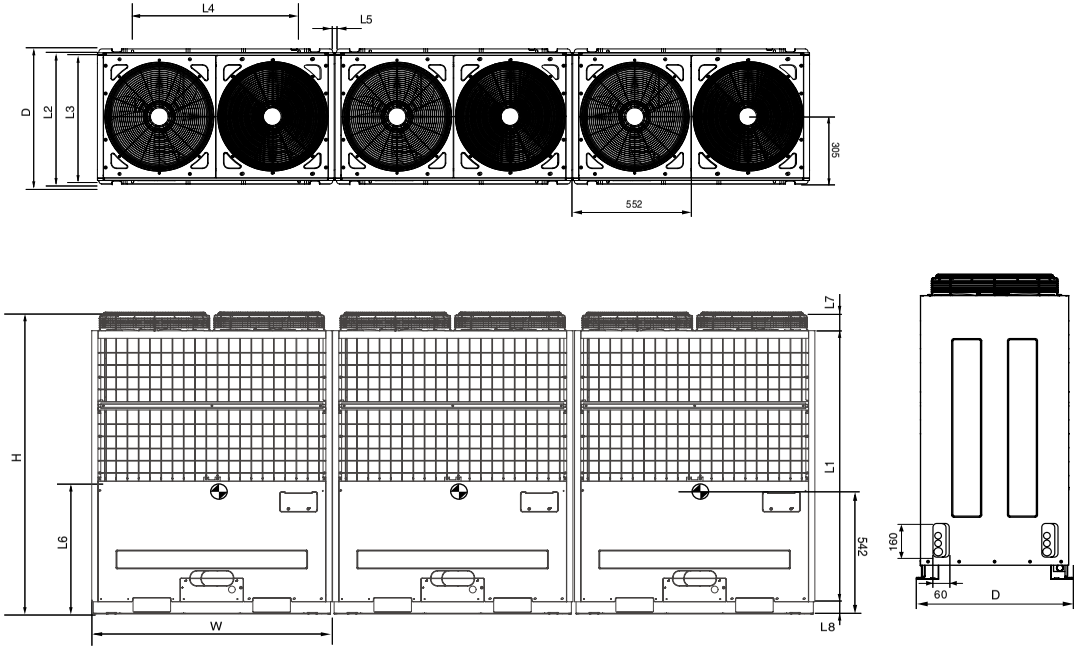


Outdoor Unit(460V)
ARUN330DT2 ARUN350DT2 ARUN370DT2 ARUN390DT2 ARUN410DT2 ARUN430DT2 ARUN450DT2 ARUN470DT2

[Unit: mm]

W	mm(inch)	1280(50.4)
H	mm(inch)	1607(63.3)
D	mm(inch)	730(28.7)
L1	mm(inch)	1427(56.1)
L2	mm(inch)	692(27.2)
L3	mm(inch)	670(26.3)
L4	mm(inch)	900(35.4)
L5	mm(inch)	10(0.4)
L6	mm(inch)	704(27.7)
L7	mm(inch)	99(3.9)
L8	mm(inch)	82 (3.2)



Gravity point

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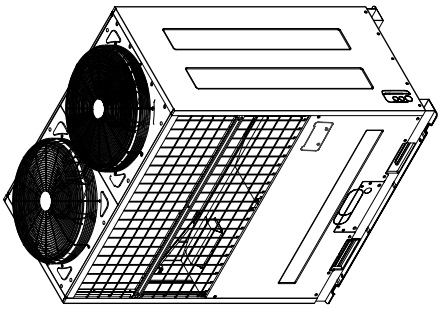
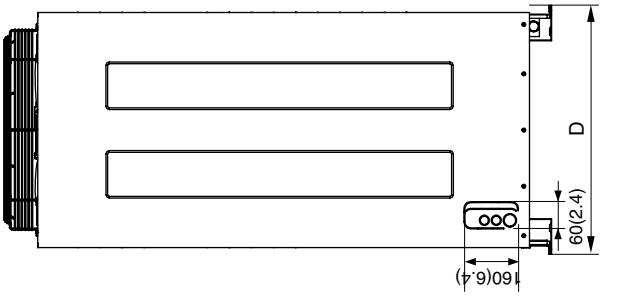
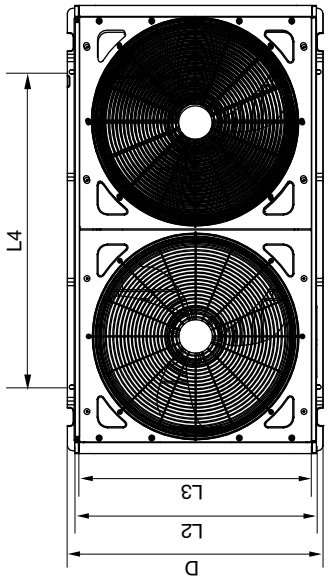
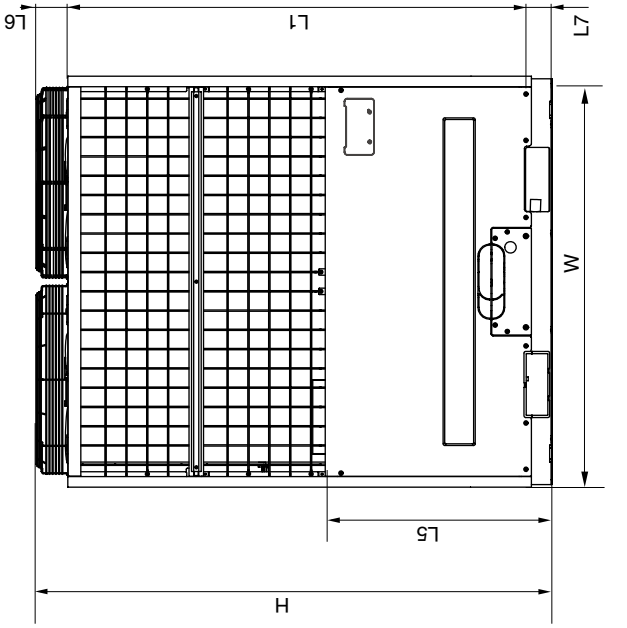
Outdoor Unit(208/230V)
ARUN076BT2 ARUN096BT2 ARUN115BT2

W	mm(inch)	1280(50.4)
H	mm(inch)	1607(63.3)
D	mm(inch)	730(28.7)
L1	mm(inch)	1427(56.1)
L2	mm(inch)	692(27.2)
L3	mm(inch)	670(26.3)
L4	mm(inch)	900(35.4)
L5	mm(inch)	704(27.7)
L6	mm(inch)	99(3.9)
L7	mm(inch)	82(3.2)









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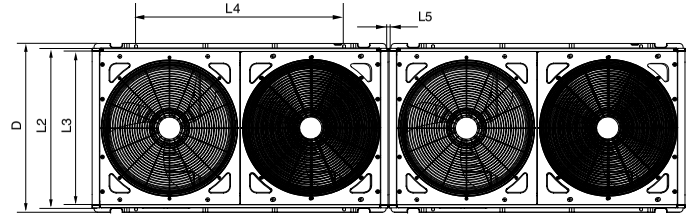
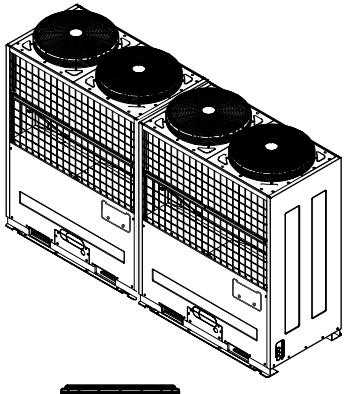
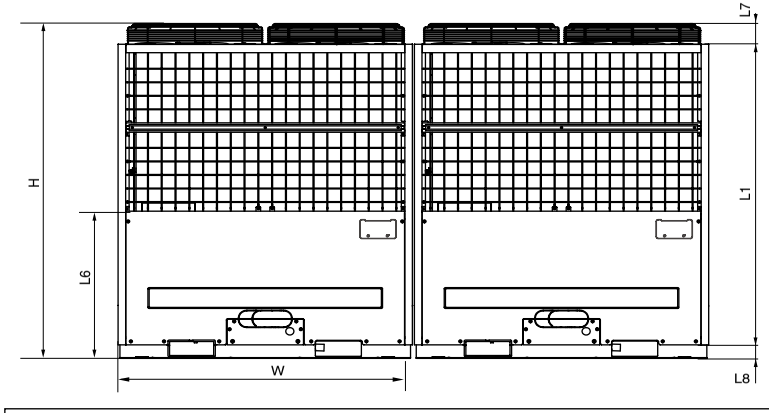
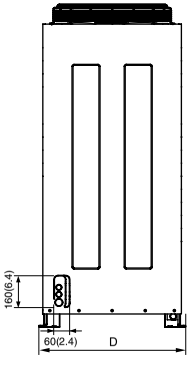
Outdoor Unit(208/230V)

ARUN154BT2
ARUN173BT2
ARUN192BT2
ARUN211BT2
ARUN230BT2





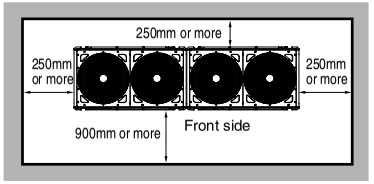


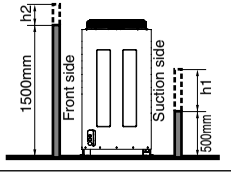


W	mm(inch)	1280(50.4)
H	mm(inch)	1607(63.3)
D	mm(inch)	730(28.7)
L1	mm(inch)	1427(56.1)
L2	mm(inch)	692(27.2)
L3	mm(inch)	670(26.3)
L4	mm(inch)	900(35.4)
L5	mm(inch)	10(0.4)
L6	mm(inch)	704(27.7)
L7	mm(inch)	99(3.9)
L8	mm(inch)	82(3.2)

Notes:

1. Height of walls in case of pattern1:
   Front side:1500mm, Suction side:500mm
2. If the above wall heights are exceeded, then h1/2 and h2/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units, the most appropriate pattern should be selected from those shown. In order to obtain the best fit in the space available, always bear in mind the need to leave enough room for a person to pass between units and wall and for the air to circulate freely. Your layout should take into account the possibility of short circuits.
4. The Units should be installed to leave sufficient space in front for the on site refrigerant piping work to be carried out comfortably.





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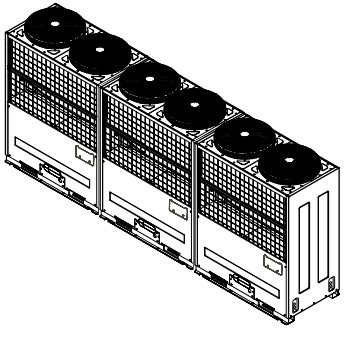
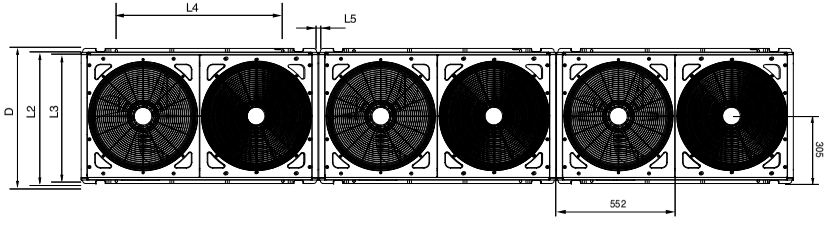
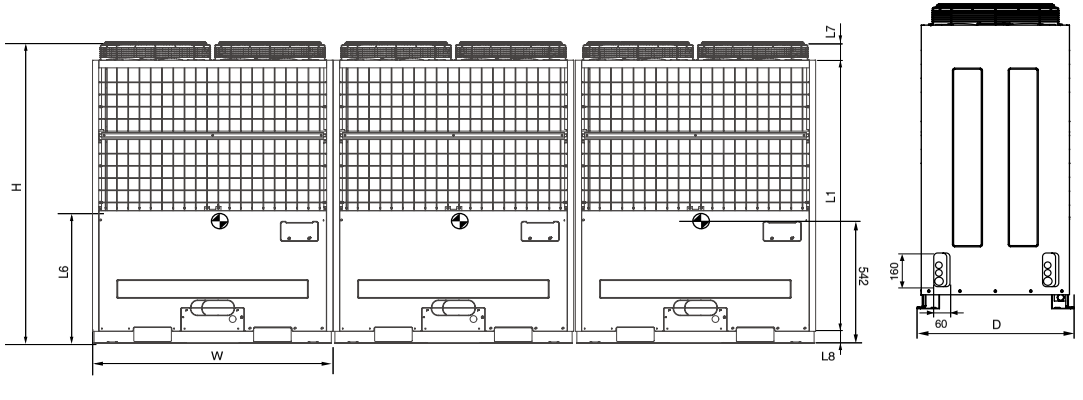
Outdoor Unit(460V)
ARUN250BT2 ARUN270BT2 ARUN290BT2 ARUN310BT2 ARUN330BT2 ARUN350BT2







[Unit: mm]

W	mm(inch)	1280(50.4)
H	mm(inch)	1607(63.3)
D	mm(inch)	730(28.7)
L1	mm(inch)	1427(56.1)
L2	mm(inch)	692(27.2)
L3	mm(inch)	670(26.3)
L4	mm(inch)	900(35.4)
L5	mm(inch)	10(0.4)
L6	mm(inch)	704(27.7)
L7	mm(inch)	99(3.9)
L8	mm(inch)	82 (3.2)

⊕ Gravity point

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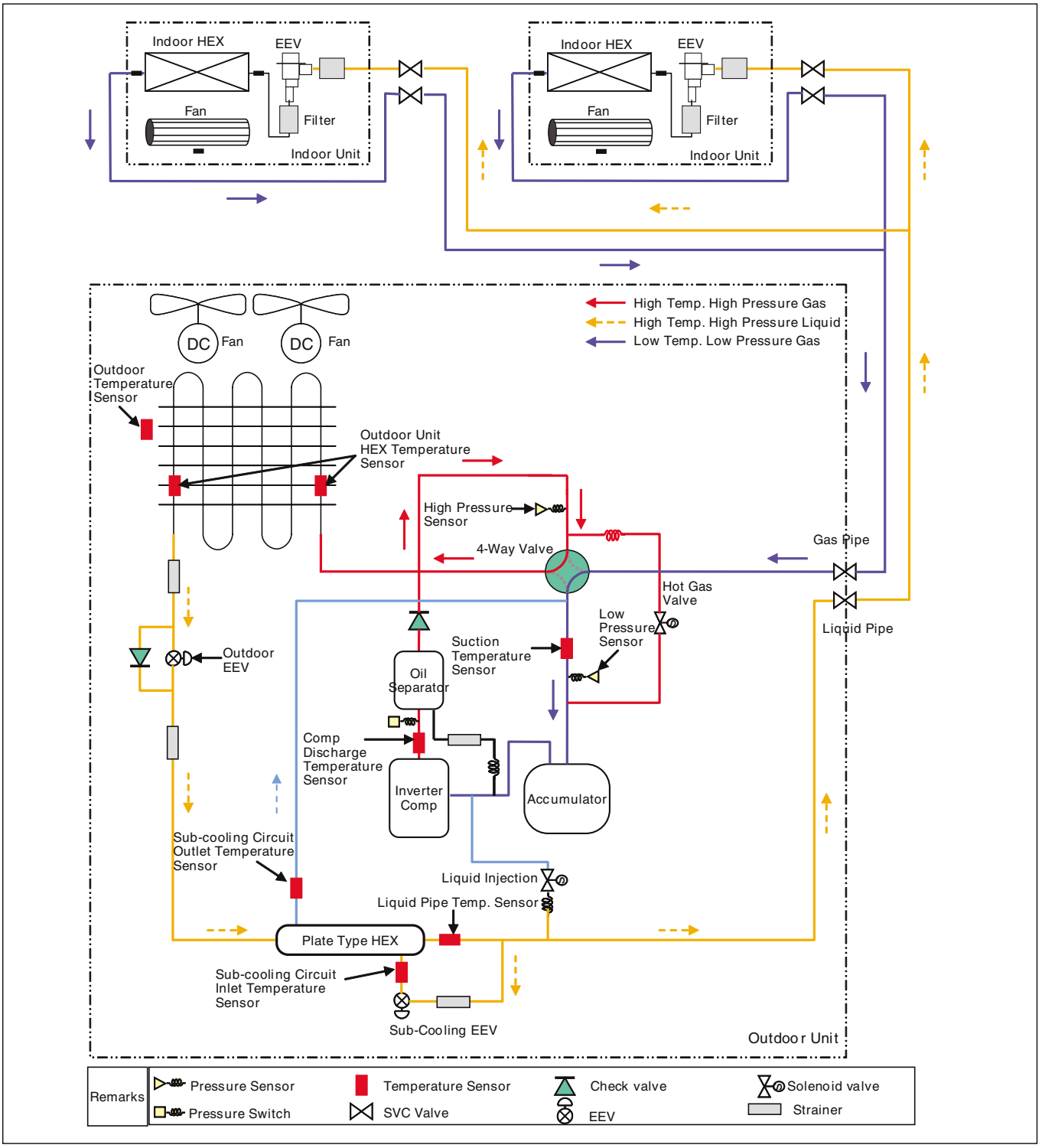
CHASSIS CODE: UW1

4. Piping Diagrams

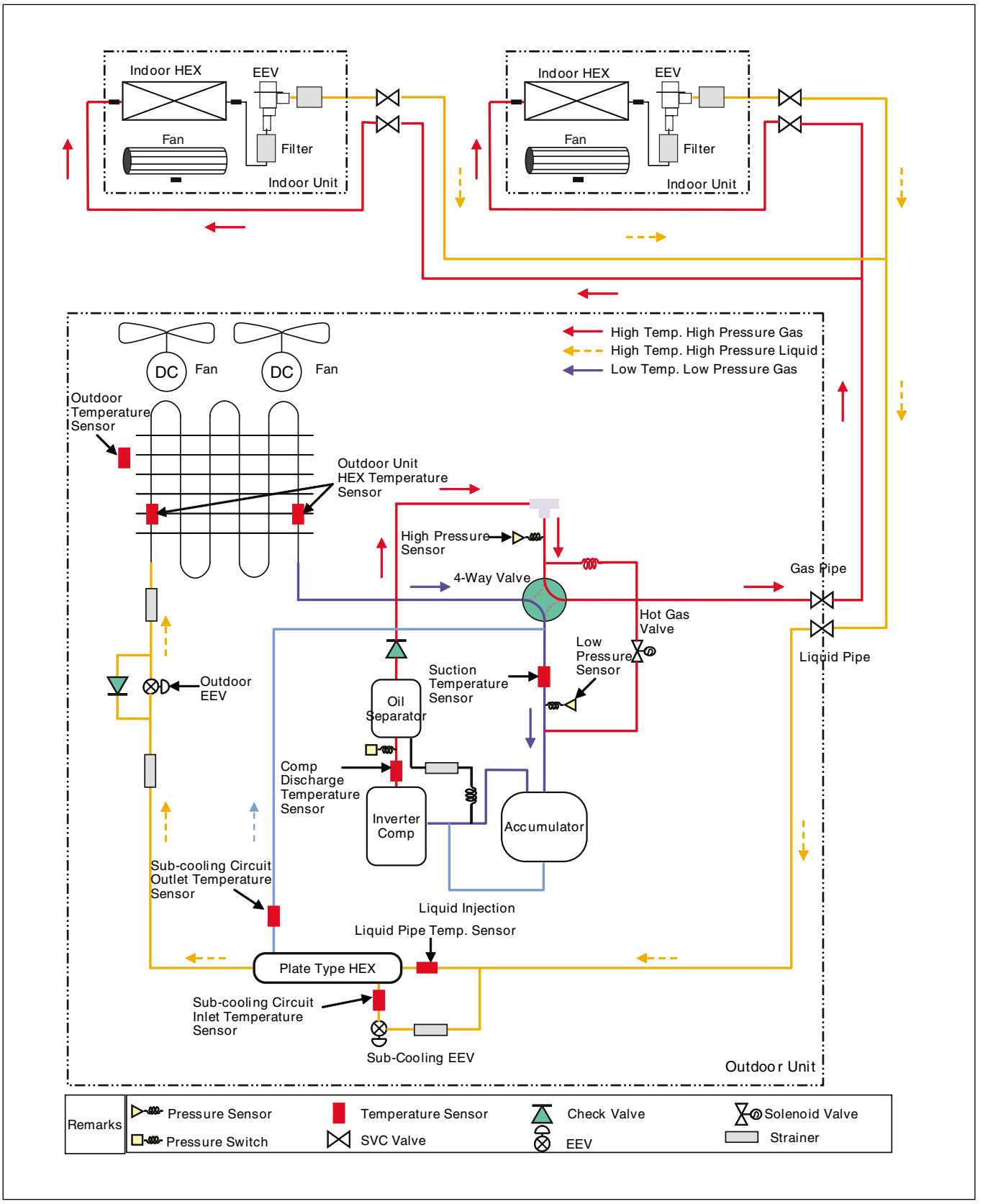
4.1 Heat Pump Model

4.1.1 3Ø 460V (ARUN076DT2)

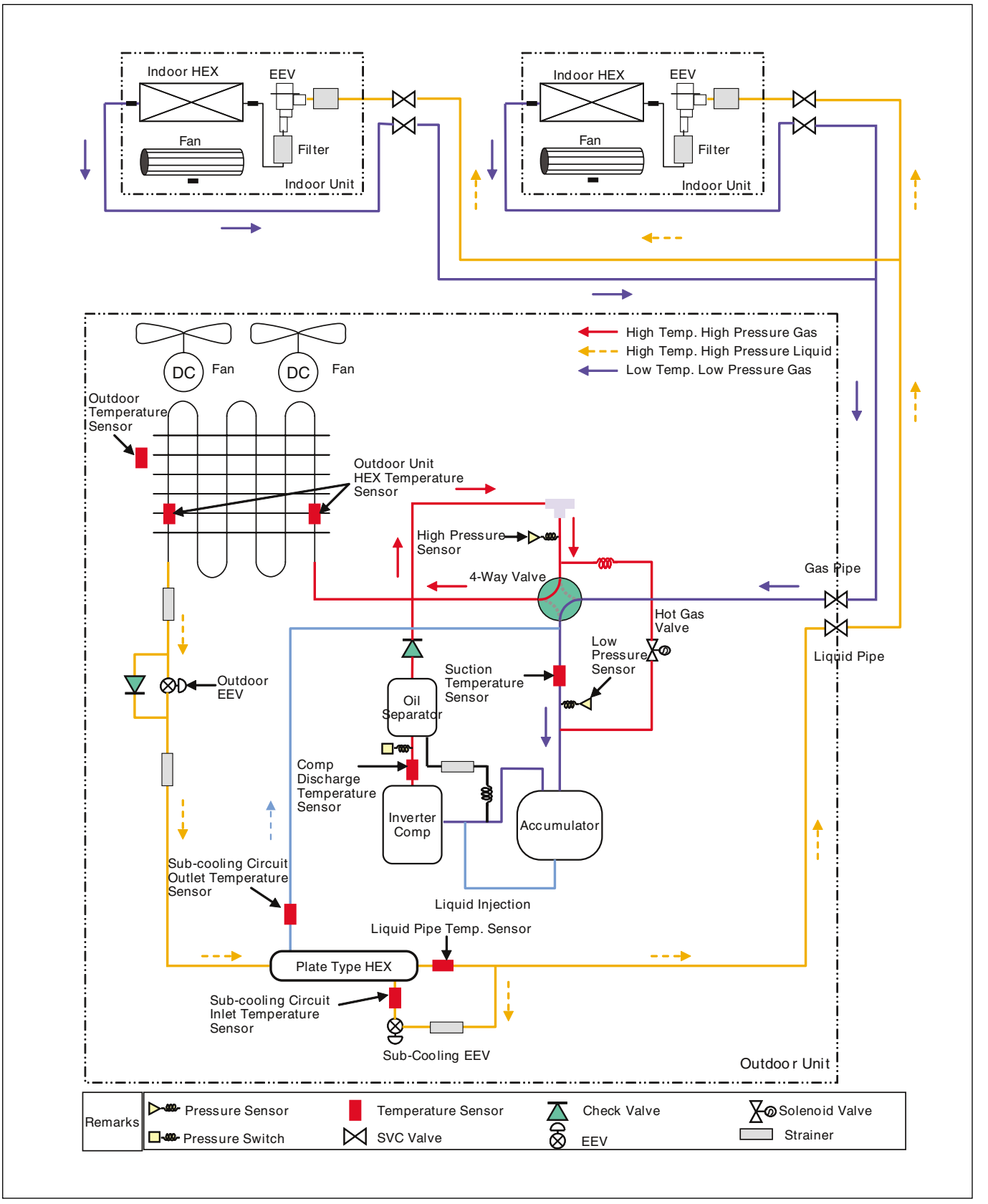
Cooling Operation



Heating Operation

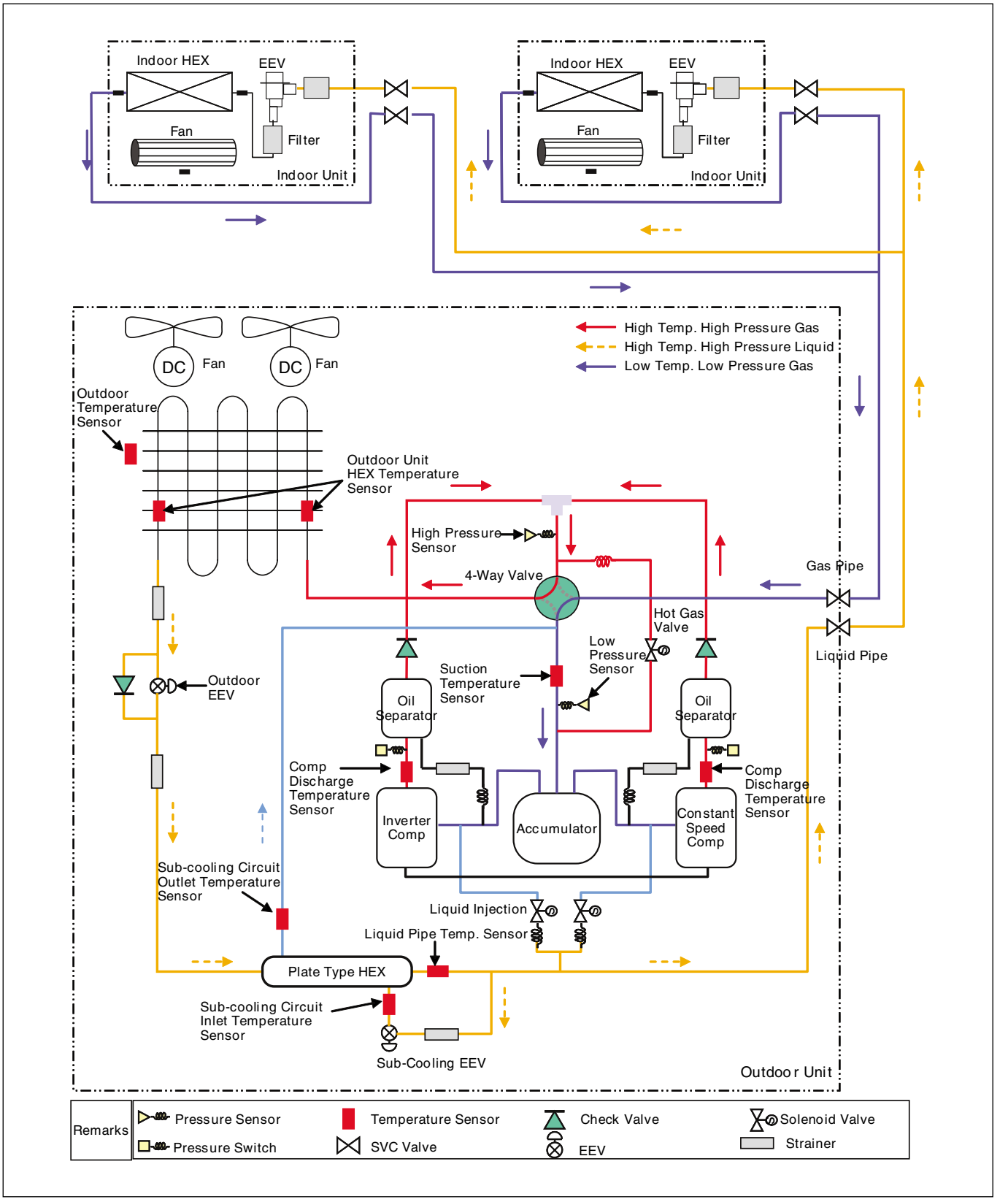


Oil Return/ Defrost Operation

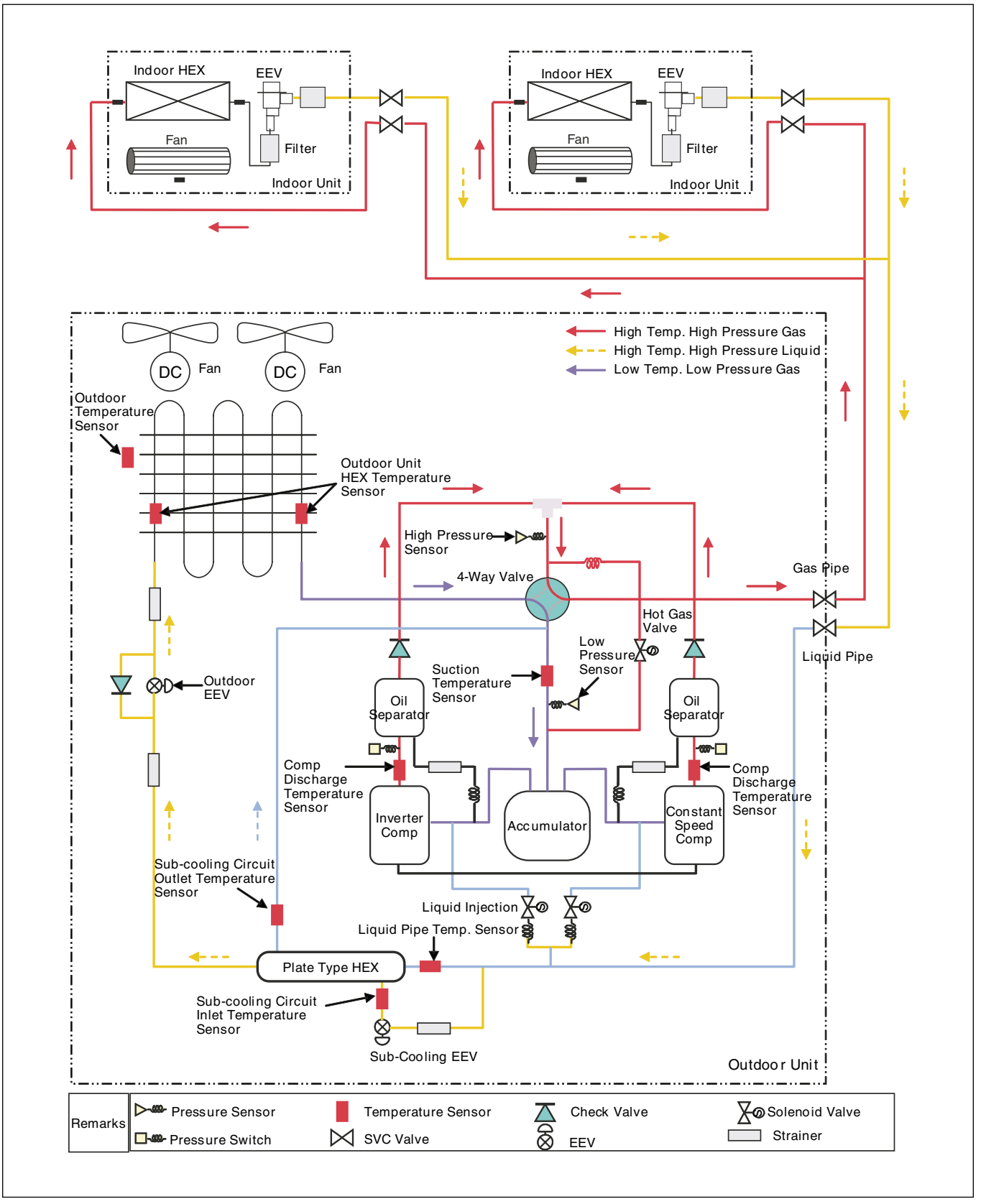


4.1.2 3Ø 460V, 3Ø 208/230V (UW1 Chassis)

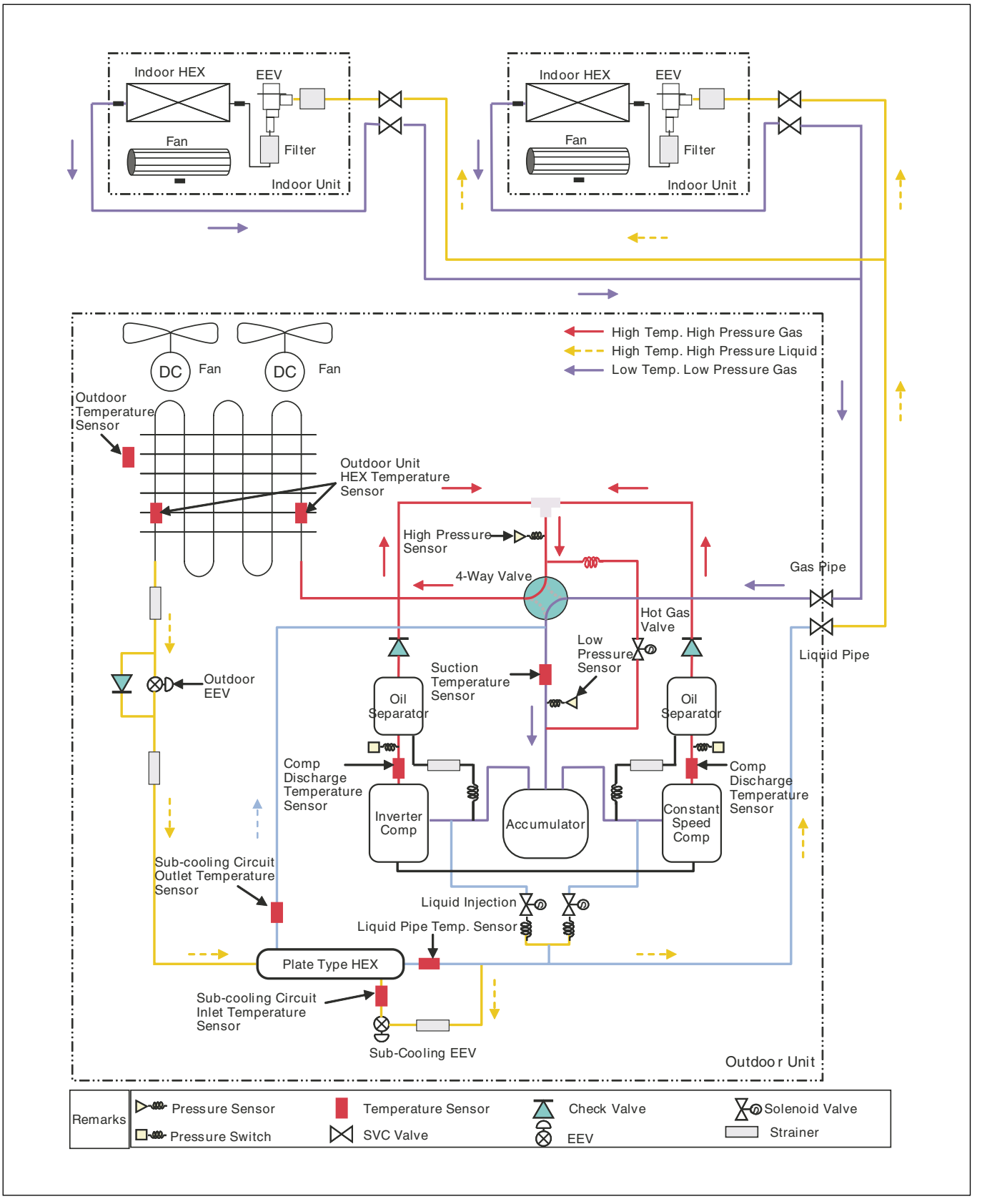
Cooling Operation



Heating Operation



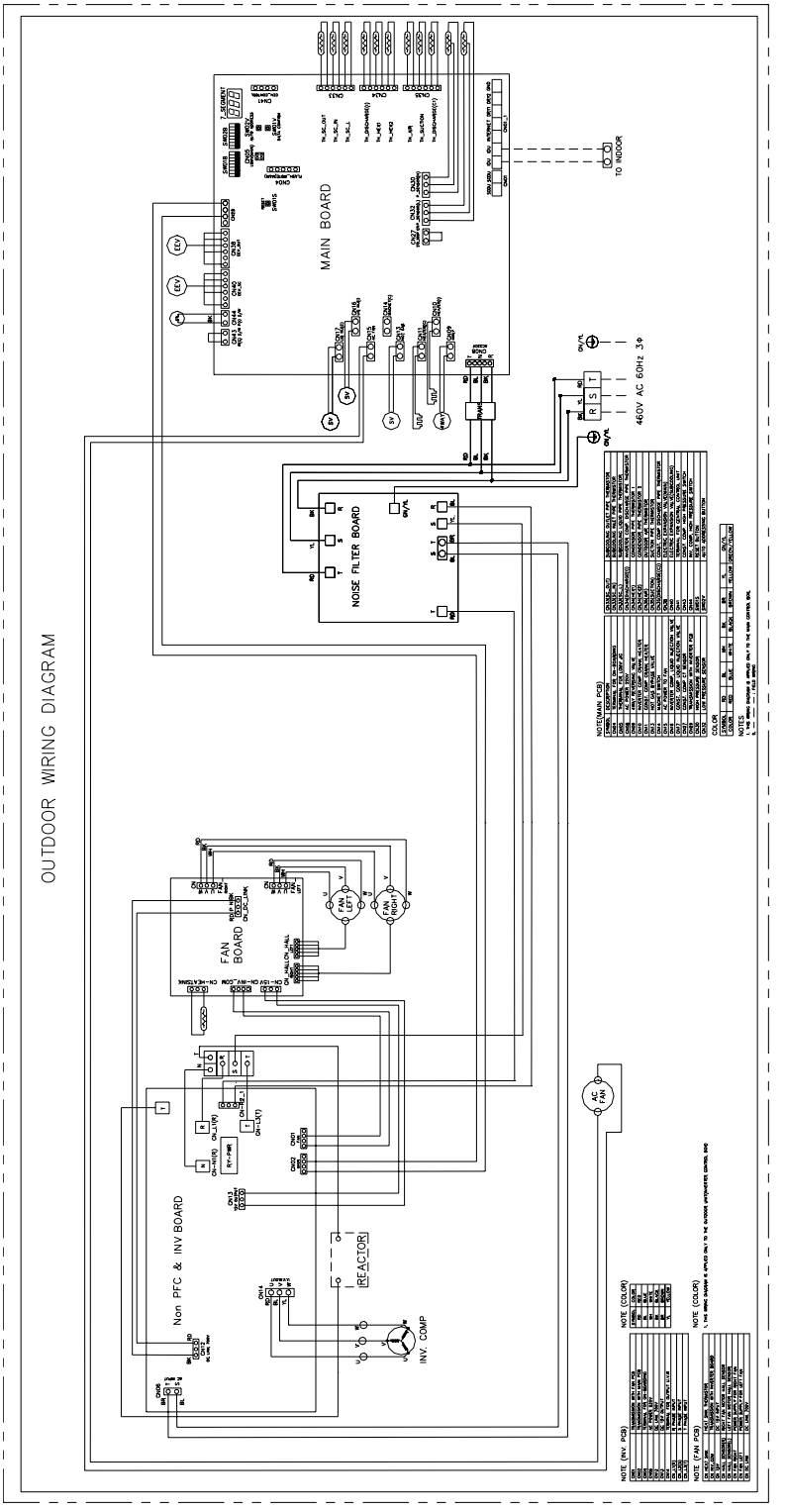
Oil Return/ Defrost Operation



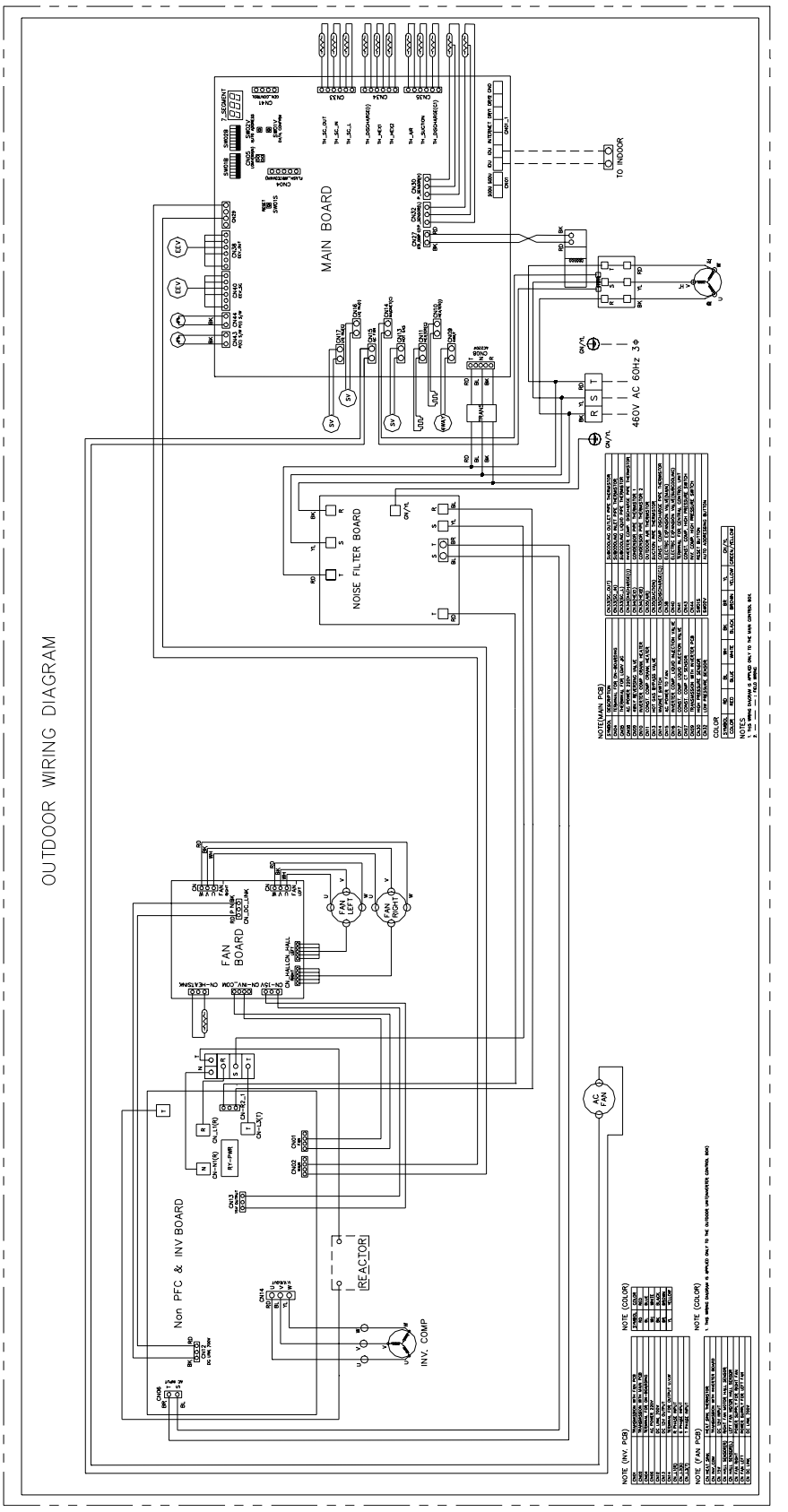
5. Wiring Diagrams

5.1 Heat Pump Model

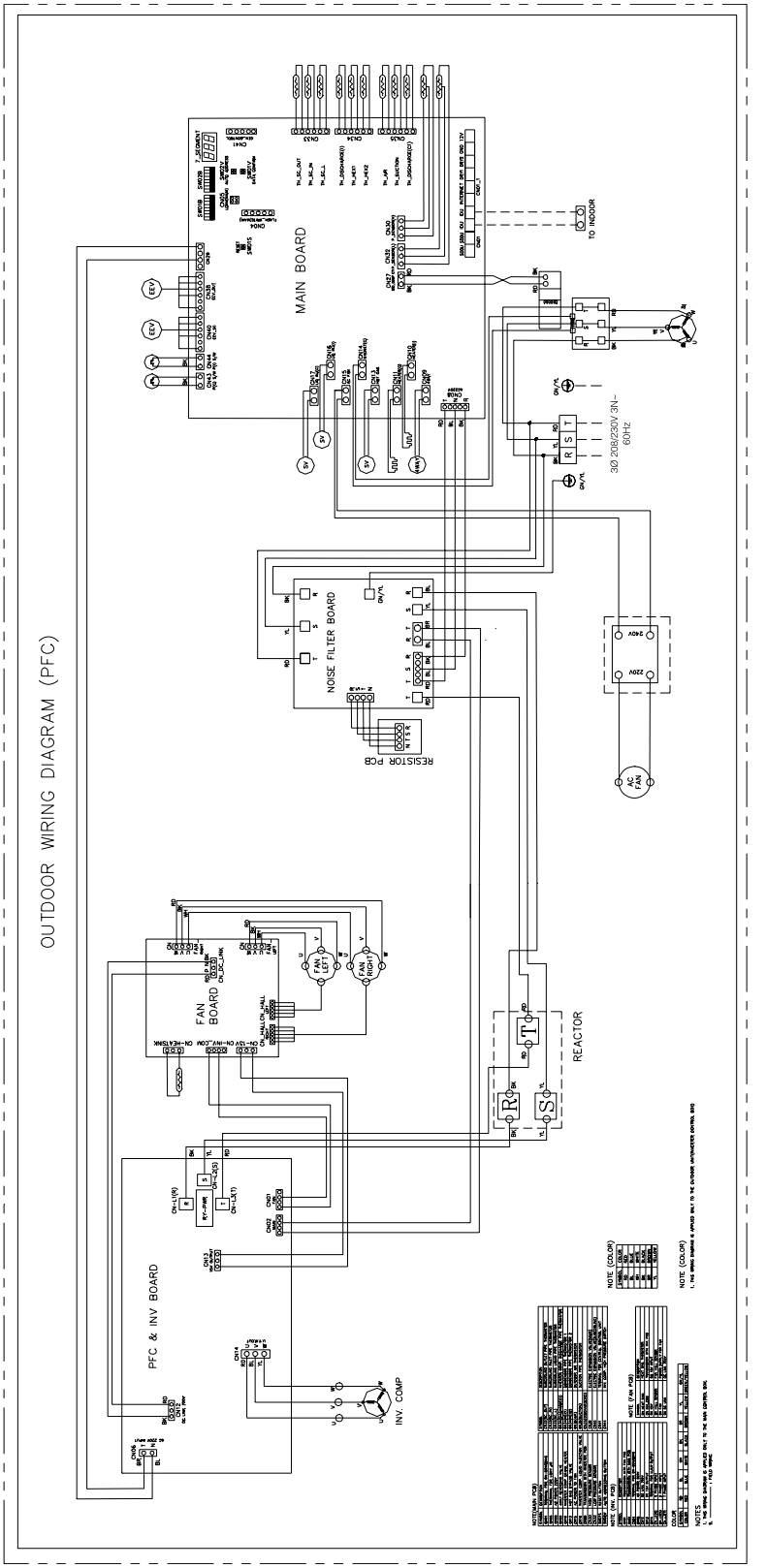
5.1.1 3Ø 460V(ARUN076DT2)



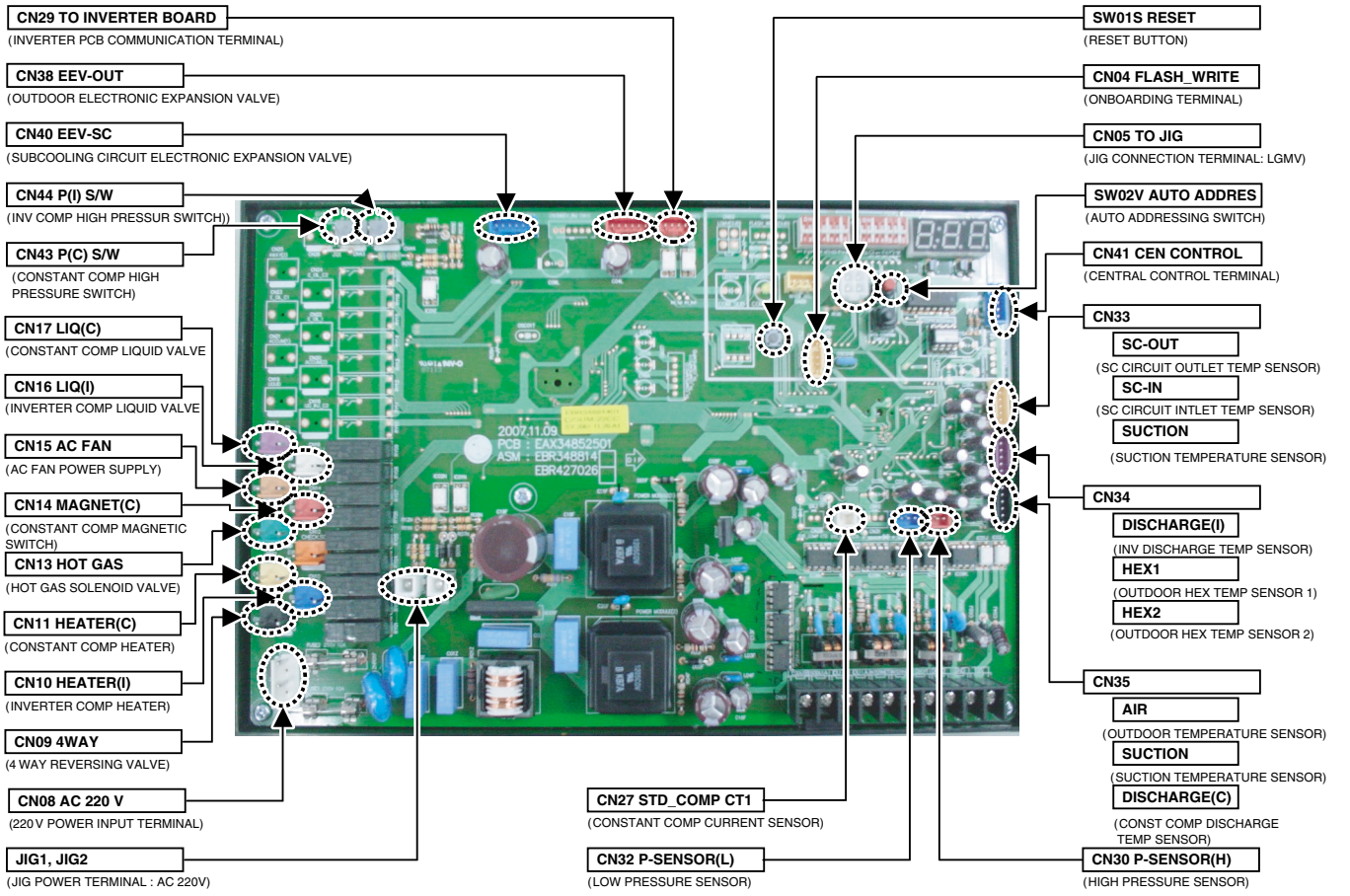
5.1.2 3Ø 460V(ARUN096DT2, ARUN115DT2, ARUN134DT2, ARUN154DT2)



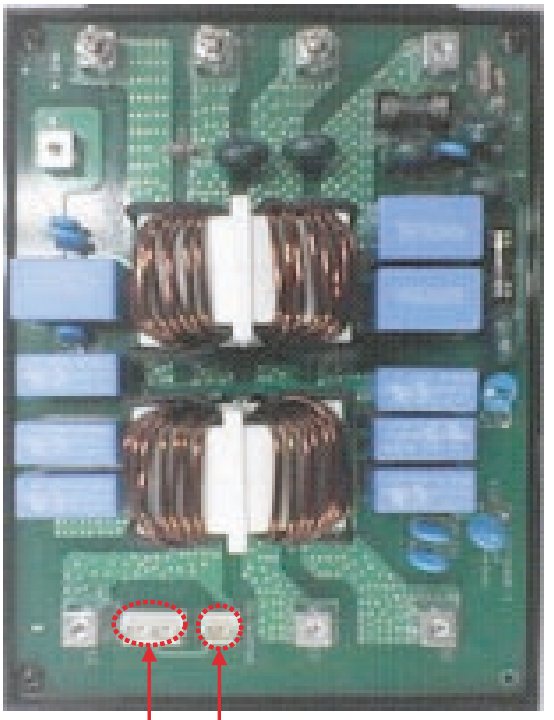
5.1.3 3Ø 208/230V (ARUN076BT2, ARUN096BT2, ARUN115BT2)



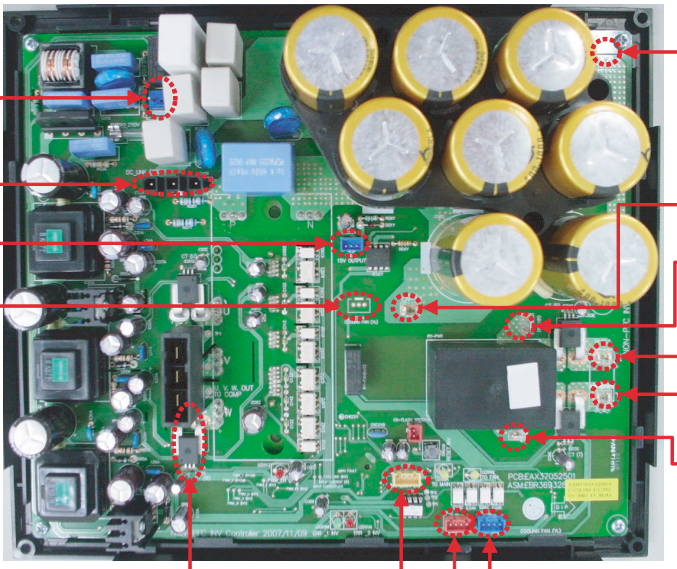
■ Main PCB



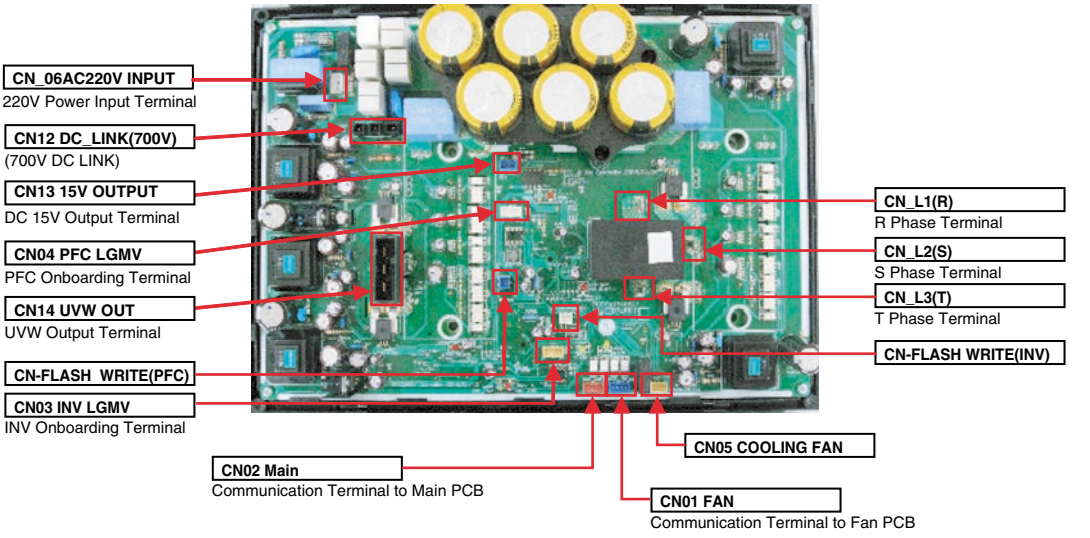
■ Noize Filter



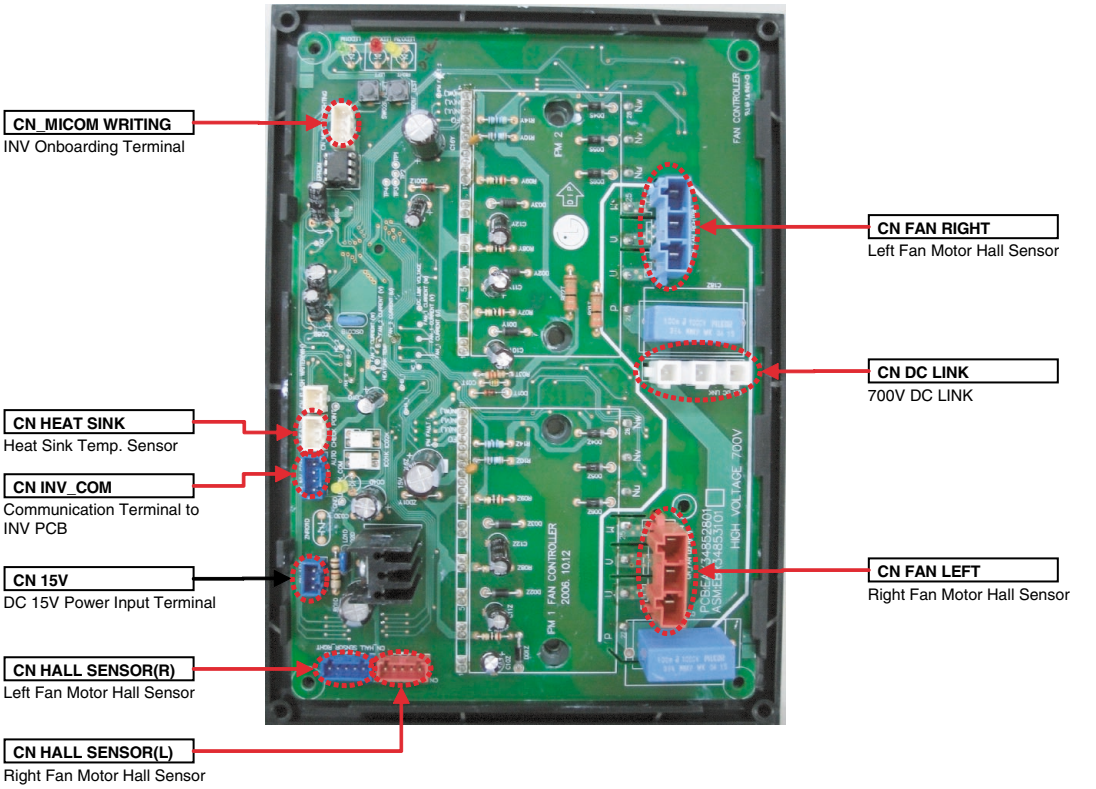
■ Inverter PCB (3Ø 460V)



■ Inveter PCB (3Ø 208/230V)



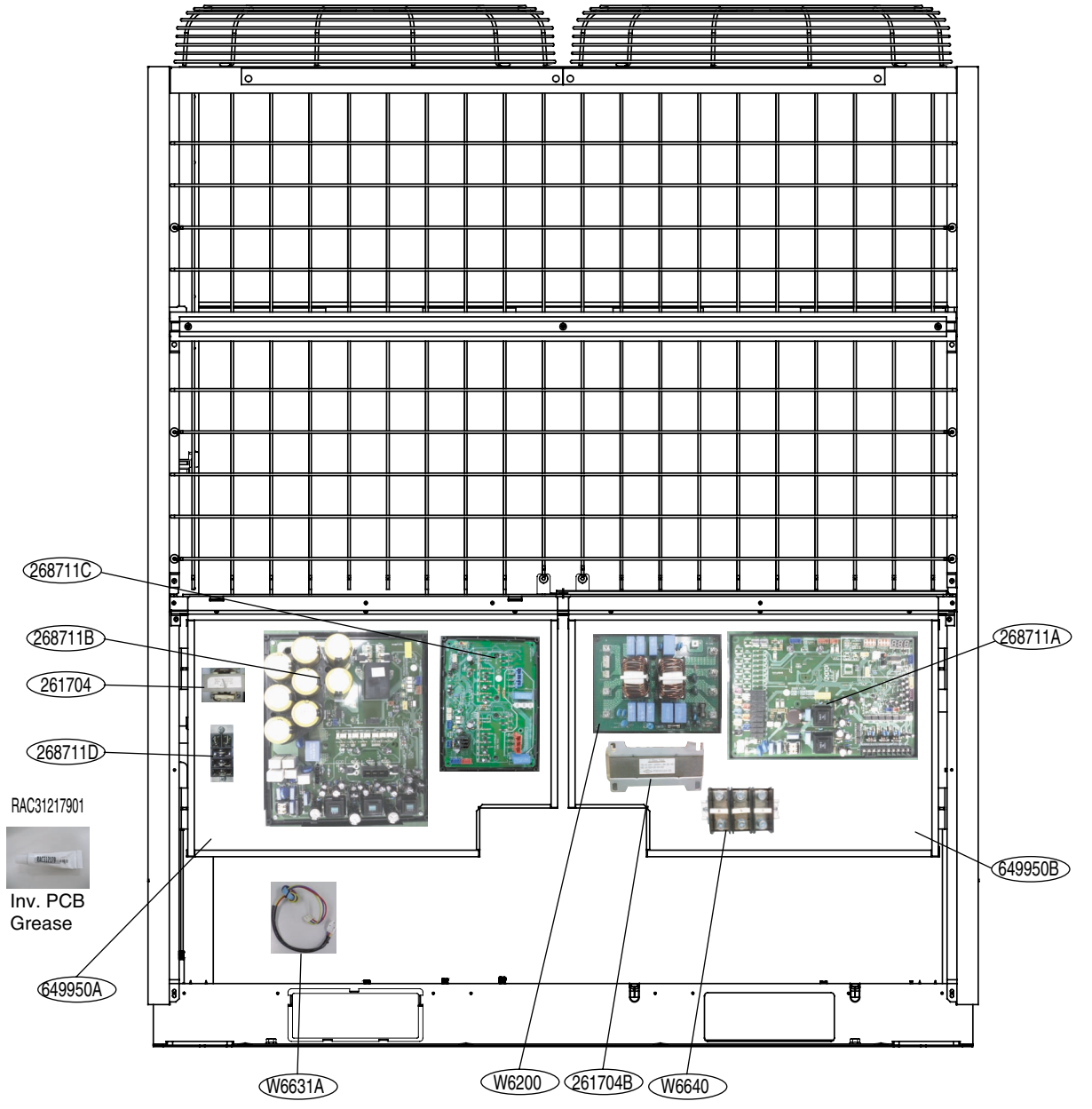
■ FAN PCB(UW1)



6. Exploded View

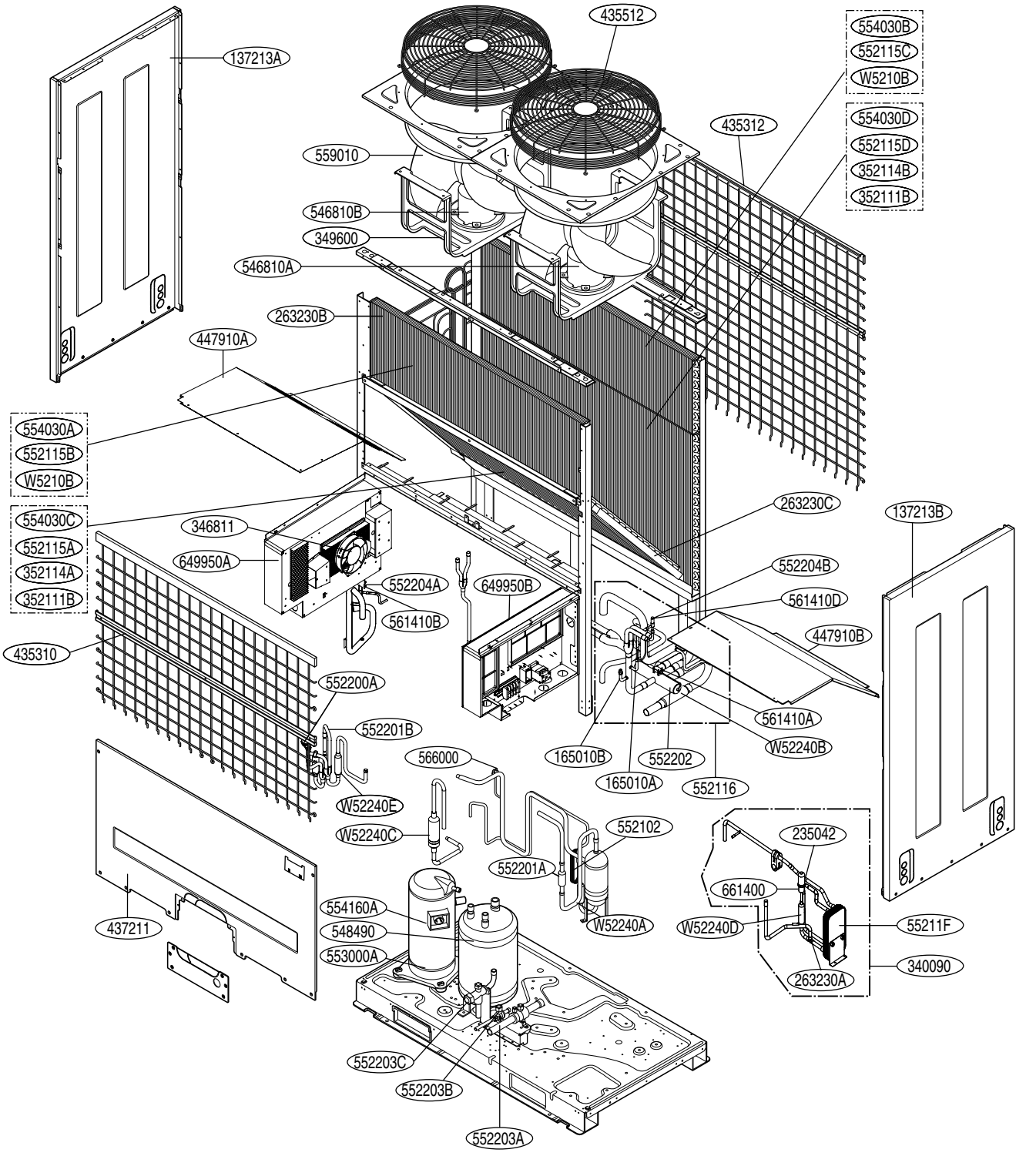
Outdoor Unit

3Ø 460V(ARUN076DT2)



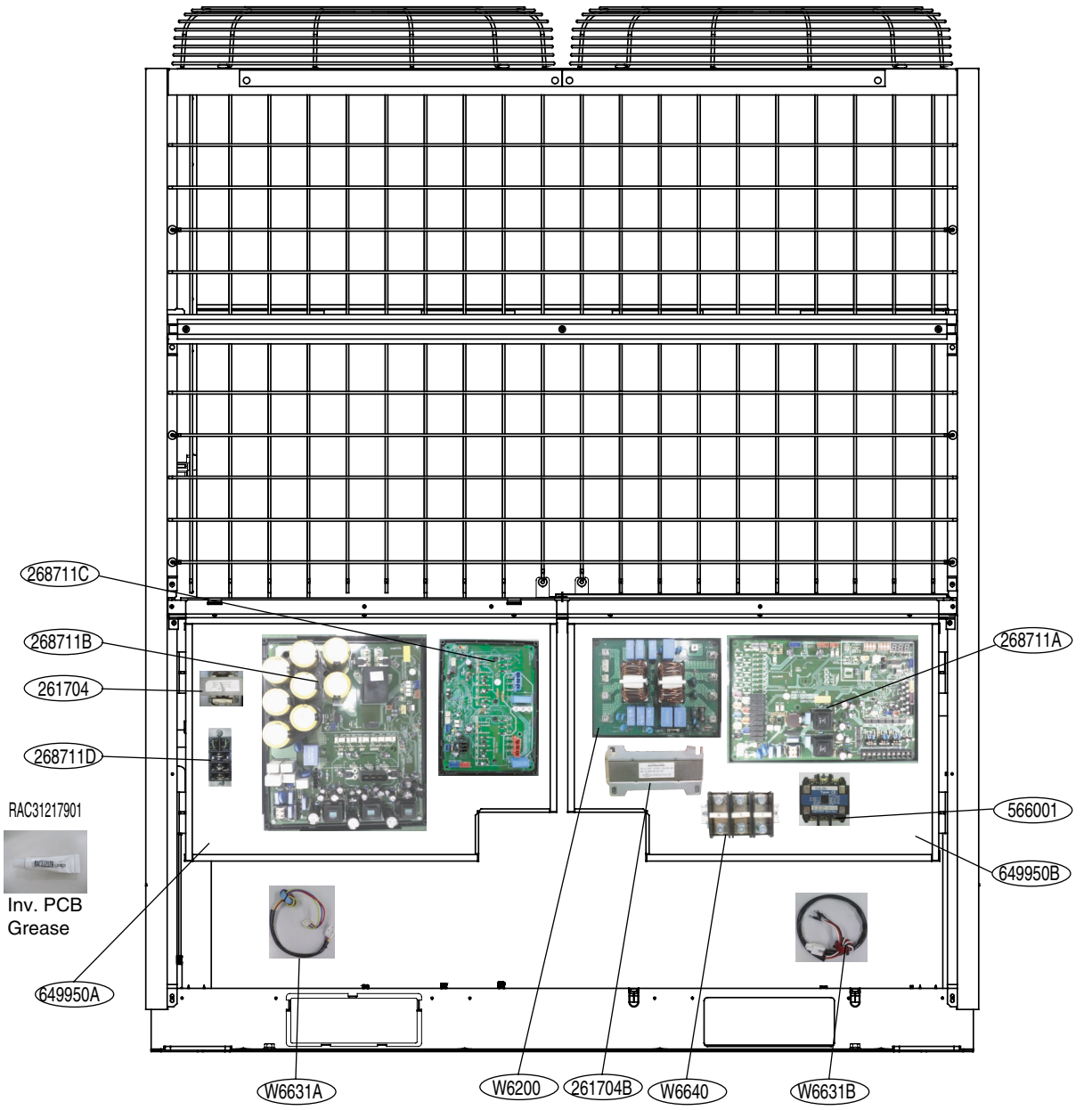
Model	Classification	Description	Part Number	Location Number	Remark
ARUN076DT2	AC Inverter Heating	Compressor	TBZ30983001	554160A	Barrier Side
		Harness,Multi	EAD37680315	W6631A	

• Heat Pump(ARUN076DT2_1 Comp)



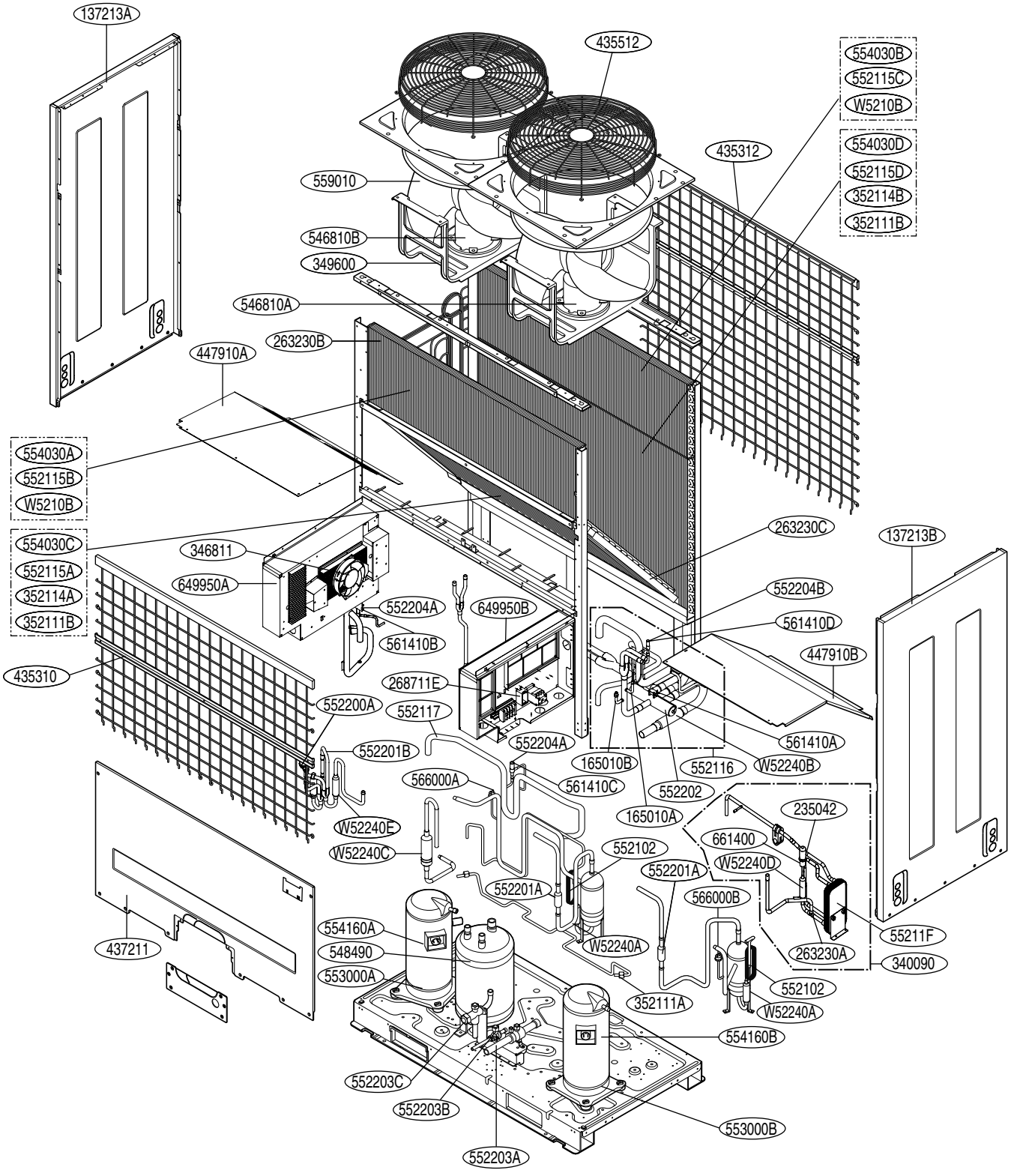
THERMISTOR 1	263230A	Liquid Pipe + sub Cooler IN + Sub Cooler OUT	Housing color : yellow
THERMISTOR 2	263230B	Inv. discharge + HEX(Front) + HEX (back)	Housing color : purple
THERMISTOR 3	263230C	Air + suction Pipe	Housing color : black

3Ø 460V



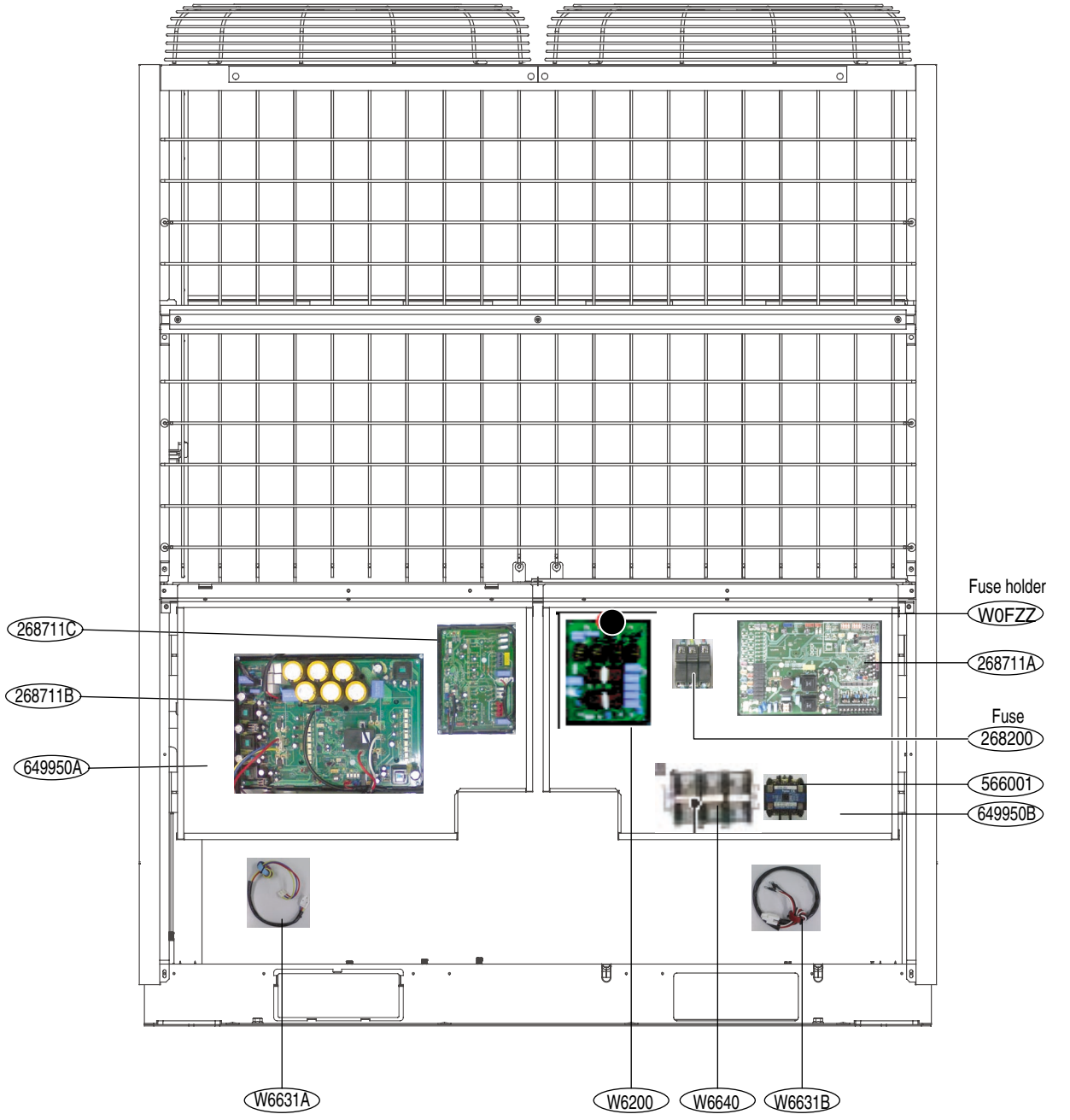
Model	Classification	Description	Part Number	Location Number	Remark
ARUN096DT2 ARUN115DT2	AC Inverter Heating	Compressor	TBZ30983001	554160A	Barrier Side
		Harness,Multi	EAD37680315	W6631A	
		Compressor	TBZ31726801	554160B	Service Valve
		Harness,Multi	EAD37680302	W6631B	
ARUN134DT2 ARUN154DT2	AC Inverter Heating	Compressor	TBZ30983001	554160A	Barrier Side
		Harness,Multi	EAD37680315	W6631A	
		Compressor	TBZ31726401	554160B	Service Valve
		Harness,Multi	EAD37680302	W6631B	

• Heat Pump(ARUN096DT2, ARUN115DT2, ARUN134DT2, ARUN154DT2 _ 2 Comp)



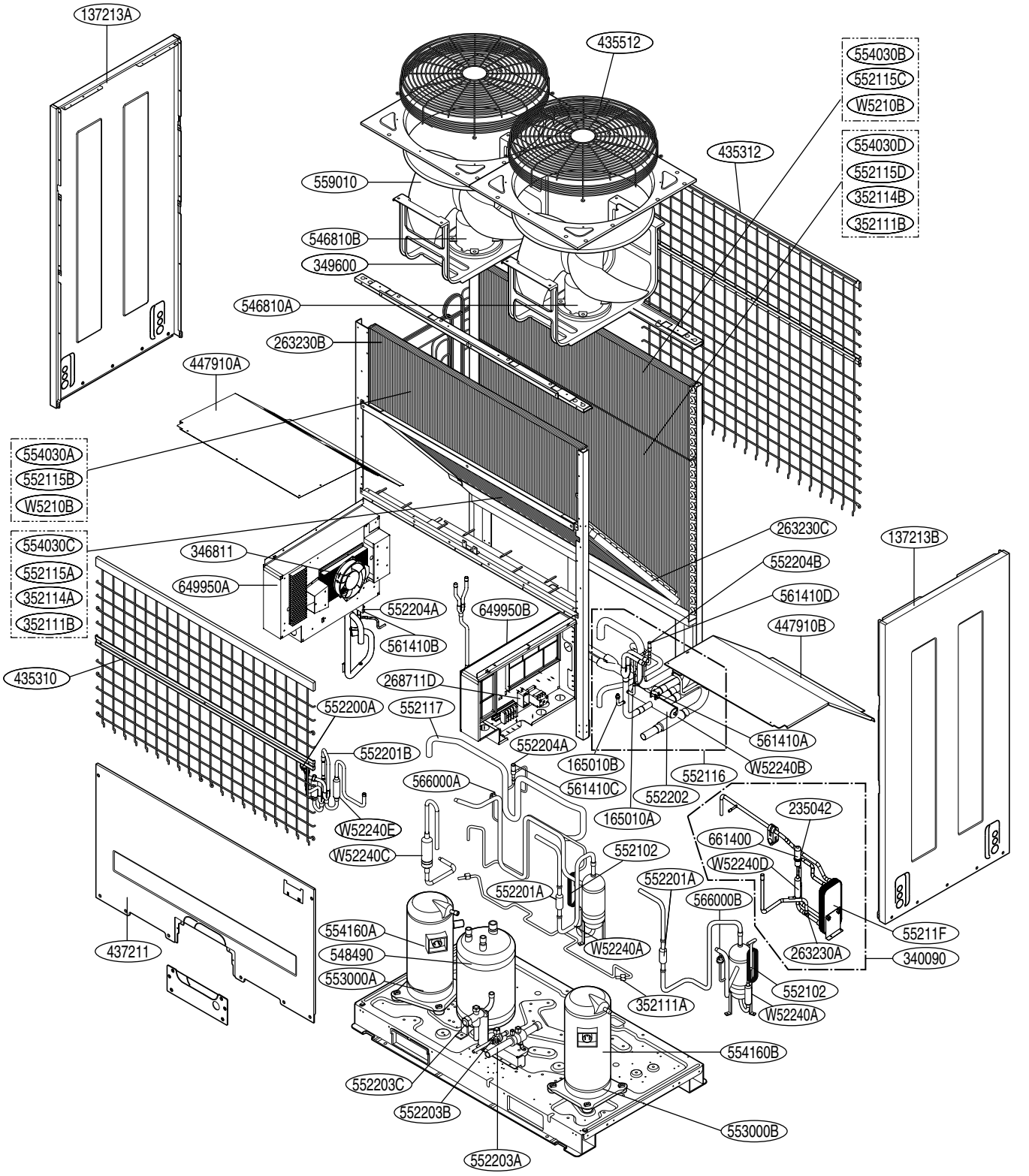
THERMISTOR 1	263230A	Liquid Pipe + sub Cooler IN + Sub Cooler OUT	Housing color : yellow
THERMISTOR 2	263230B	Inv. discharge + HEX(Front) + HEX (back)	Housing color : purple
THERMISTOR 3	263230C	Air + suction Pipe + const. Discharge Pipe	Housing color : black

3Ø 208/230V



Model	Classification	Description	Part Number	Location Number	Remark
ARUN076BT2 ARUN096BT2 ARUN115BT2	AC Inverter Heating	Compressor	TBZ31726701	554160A	Barrier Side
		Harness,Multi	EAD37680315	W6631A	
		Compressor	TBZ31726601	554160B	Service Valve
		Harness,Multi	EAD37680302	W6631B	

• Heat Pump(ARUN076BT2, ARUN096BT2, ARUN115BT2 _ 2 Comp)



THERMISTOR 1	263230A	Liquid Pipe + sub Cooler IN + Sub Cooler OUT	Housing color : yellow
THERMISTOR 2	263230B	Inv. discharge + HEX(Front) + HEX (back)	Housing color : purple
THERMISTOR 3	263230C	Air + suction Pipe + const. Discharge Pipe	Housing color : black

P/NO : MFL54555501

OCTOBER, 2009