
Liebert CRV Parts Manual



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Table of Contents

Liebert CRV Parts Manual	ii
1. Product Description	3
2. Model Number Definition	4
3. Fan Section	5
4. Coil Section	5
5. Compressor Section	7
6. Humidifier Section	8
6.1. Humidifier Assembly	8
6.2. Humidifier Drain	9
6.2.1. With Pump and Humidifier	9
6.2.2. With Pump without Humidifier	10
6.3. Humidifier Drain Option CRV019	11
6.4. Humidifier Nortec Assembly	12
6.5. Vapor Distributor Assembly	13
7. Electrical Section	14
7.1. EP Back Panel	14
7.2. EP Compressor	15
7.2.1. EP Compressor 208V	15
7.2.2. EP Compressor 460V	16
7.2.3. CRV019	17
7.3. EP Disconnect	18
7.4. EP Fan	20
7.4.1. EP Fan 208V	20
7.4.2. EP Fan 460V	21
7.5. EP Fan Alarm	23
7.6. EP Display	24
7.7. EP Sensors	25
7.7.1. CRV020 – CRV035	25
7.7.2. CRV019/CRV032	26
7.8. Miscellaneous Reheat/Humidifier Lockout	27
7.9. Miscellaneous Optional Alarm Contact	27
7.10. Crankcase Heater	28
7.11. Intellislot	29
7.12. EP Condensate Pump	30
7.13. EP Humidifier SGH	31
7.13.1. EP Humidifier SGH 208V	31
7.13.2. EP Humidifier SGH 460V	32
7.14. EP Humidifier & Reheat	33
7.15. EP Reheat	34
8. Piping Section	35
8.1. Piping CW	35
8.2. Mechanical Refrigerant	37
8.2.1. View 1	37
8.2.2. View 2	38
8.2.3. View 3	39
8.2.4. View 4 – CRV019	40
8.2.5. View 5 – CRV019	41
8.3. Piping Assemblies	42
8.3.1. Discharge Assembly CR035W	42
8.3.2. Discharge Assembly CR020W	42
8.3.3. Expansion Assembly CR020/CR035	43
8.3.4. Suction Assembly CR020/CR035	43
8.3.5. COND-LR Assembly CR020/CR035	44
8.3.6. Discharge Bottom Assembly CR020/CR035	44

8.3.7.	Water Cond Out BTM CR020/CR035	45
8.3.8.	CRV019 Sub Assemblies	45
9.	Reheat Section.....	46
10.	Exterior Section	47
10.1.	CRV019/CRV032.....	47
10.2.	CRV020 – CRV035	48
11.	Filter Section	49
12.	Miscellaneous Section.....	51
12.1.	Sensor.....	51
12.2.	Crankcase Heater	51
13.	Parts Gallery.....	52
14.	Revision Page	56

1. Product Description

Liebert CRV installs within a row of data center equipment racks, providing precision cooling close to the server heat source for the most efficient and effective operation. The combination of Liebert iCOM controls, digital scroll compressor and EC plug fans ensure reliability and energy efficiency.

Flexibility

- Horizontal airflow cooling design is suitable for non-raised or raised floors.
- Adjustable airflow baffles maximize cooling to rack equipment, allowing the system to be positioned within the row or at the end of the row.
- Air, water, glycol, and chilled water systems available.
- Caster mounted for easy placement.
- Multiple units communicate with each other to improve system performance and reduce energy consumption.
- Can be used with Liebert SmartAisle™ containment system.

Lowest Total Cost of Ownership

- Designed for higher return air temperature to maximize cooling capacity and increase efficiency.
- Only front and back access required, resulting in minimized installation and service time.
- Digital Scroll compressor and variable speed EC fans operate efficiently to reduce energy consumption and provide longer component life.
- Compact cabinet minimizes floor space requirements.

High Availability

- Self-adapts to changing conditions to provide 24/7 precision environmental control: cooling, humidity control and air filtration.
- Liebert iCOM control provides alerts for preventive maintenance before issues occur.
- Variable capacity Digital Scroll compressor adapts to load and eliminates compressor cycling, greatly increasing compressor life.

Ideal Applications

- Small to medium-sized data centers
 - From 2 to 24 racks
 - Optimal for cold/hot aisle configurations
- Heat density up to 10 kW/rack without containment.
- Raised and non-raised floors.
- Rooms with a low ceiling where air cannot be ducted.
- SmartAisle™ containment system.
- Spot cooling in large data centers.

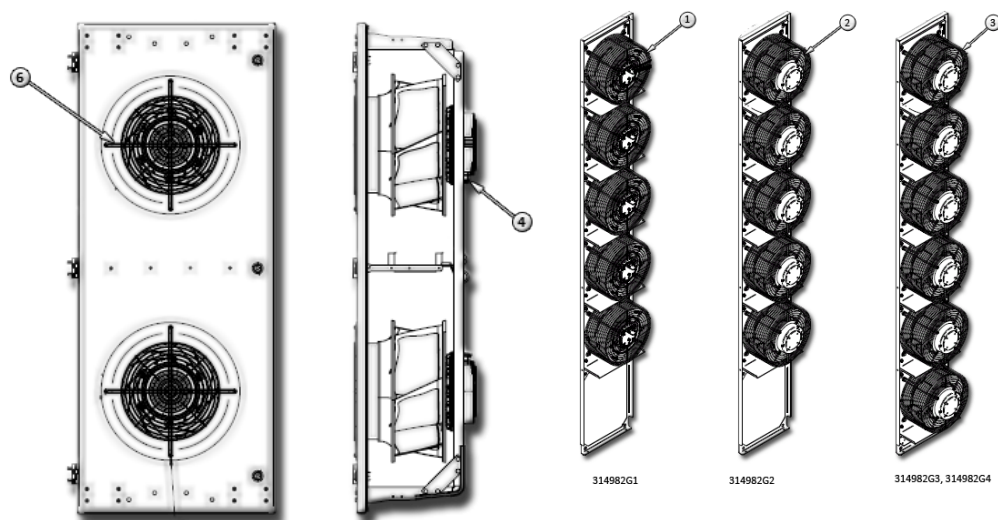
2. Model Number Definition

Model # Part 1 *										Model Details											Model # Part 2 *			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
C	R	0	2	0	R	A	1	C	7	S	D	1	8	1	1	E	L	1	0	P	A	*	*	*
Digits 1-2 - Unit Family Liebert® CRV™ = CR										Digit 17 - High-Voltage Options L or A = NO dual-float condensate pump (for units without humidifier), 5kA SCCR** 5 or E = Dual-float condensate pump (for units with or without humidifier), 5kA SCCR** M = No dual-float condensate pump (for units without humidifier), 65kA SCCR, 600 series only P = Dual-float condensate Pump (for units with or without humidifier), 65kA SCCR, 600 series only														
Digits 3-5 - Nominal Capacity, kW DX = 020, 035 CW = 040																								
Digit 6 R = Row-Based, 1100mm unit depth																								
Digit 7 - System Type A = Air Cooled W = Water/Glycol Cooled C = Chilled Water Cooled										Digit 18 - Option Package 0 = None H = Reheat and Humidifier Lockout C = Reheat and Humidifier Lockout Additional Alarm Contact D = Low Sound Package (20kW and 35kW only) L = Low Sound Package & Reheat and Humidifier Lockout and Additional Alarm Contact (20kW and 35kW only)														
Digit 8 - Fan Type Variable Speed EC Plug Fans = 1																								
Digit 9 - Power Supply A = 460V / 3ph / 60Hz C = 208V / 3ph / 60Hz																								
Digit 10 - Cooling System 2 = Two-Way Valve (CW Only) 3 = Three-Way Valve (CW Only) 7 = R-410A Digital Scroll Single Circuit (DX Only)										Digit 19 - Liebert IntelliSlot® Housing 0 = No Cards 1 = (1) Web Card 2 = (2) Web Cards 3 = (1) 485 Card 4 = (2) 485 Cards 5 = (1) Web Card and (1) 485 Card C = (1) Liebert SiteLink-E Card D = (1) Liebert SiteLink-E Card and (1) Web Card E = (1) Liebert SiteLink-E Card and (1) IS-485 Card F = (1) Building Management Card G = (2) Building Management Cards H = (1) Building Management Card and (1) Web Card J = (1) Building Management Card and (1) IS-485 Card K = (1) Building Management Card and (1) Liebert SiteLink-E Card														
Digit 11 - Humidifier 0 = None S = Steam Generating Canister																								
Digit 12 - Display Type D = Liebert iCOM Control with Large Graphic Display																								
Digit 13 - Reheat 0 = None 1 = Electric Reheat																								
Digit 14 - Air Filter 8 = 4" MERV 8 + Clogged Filter Alarm 9 = 4" MERV 11 + Clogged Filter Alarm																								
Digit 15 - Water/Glycol Valve Type 1 = Two-Way Valve (W/G only) OR Default Air-Cooled Selection 7 = Three-Way Valve (W/G only) H = Default CW Selection										Digit 20 - Future Options 0 = None														
Digit 16 - Unit Color 1 = Standard Color (Z-7021 Black) 2 = Non-Standard Color										Digit 21 - Packaging P = Domestic S = Export (Seaworthy)														
										Digit 22 - Special Features A = No SFAs, Standard Unit X = SFA Included														
										Digits 23-25 - Factory Configuration Number														

* The 14-digit model number consists of the first 10 digits and last four digits of the Configuration Number.

** L and 5 for CW models; A and E for DX models.

3. Fan Section



CRV020-035

CRV019/CRV032

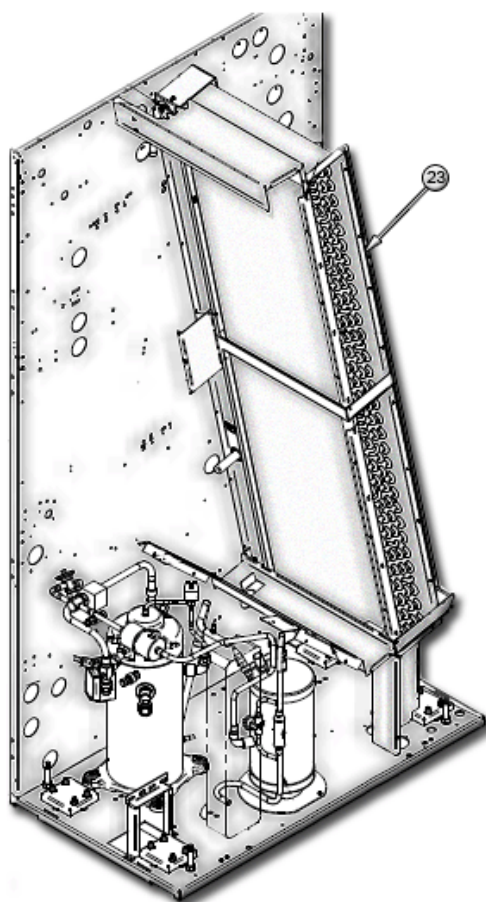
CRV020-035

Item	Part Number	Description	Voltage	CR019	CR020	CR035/40
4	191881P1S	IMPELLER R3G310 200//277V	208/460V		2	
	257240P1S	IMPELLER R3G355 AI56-01 380V	460V			2
	257241P1S	IMPELLER R3G355 AI62-06 230V	208V			2
6	191871G1	GUARD FINGER ASSY PAINT BLACK	208/460V		2	
			208V			2
	191871G2	GUARD FINGER ASSY PAINT BLACK	460V			2
	315020P1	GUARD FINGER EBM R3G225RE0703	-	1		

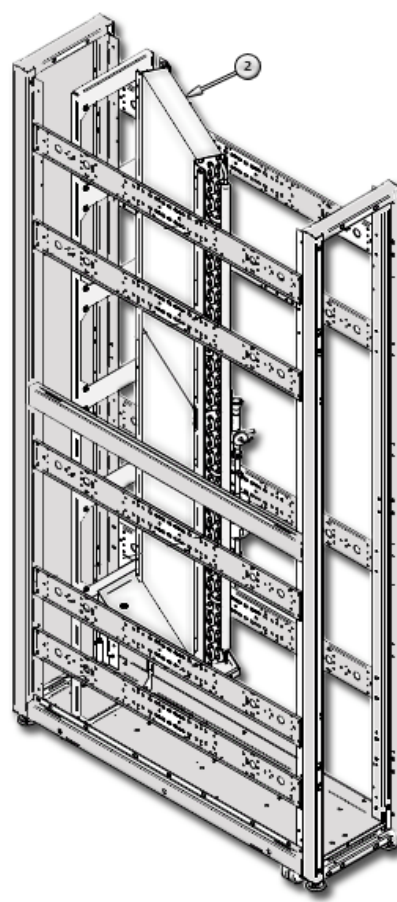
CRV019/CRV032

Item	Part Number	Description	CR019
1	314991G1A	FAN ASSY EBM CRV300	5
2	314991G2A	FAN ASSY EBM CRV300	5
3	314991G2A	FAN ASSY EBM CRV300	6

4. Coil Section



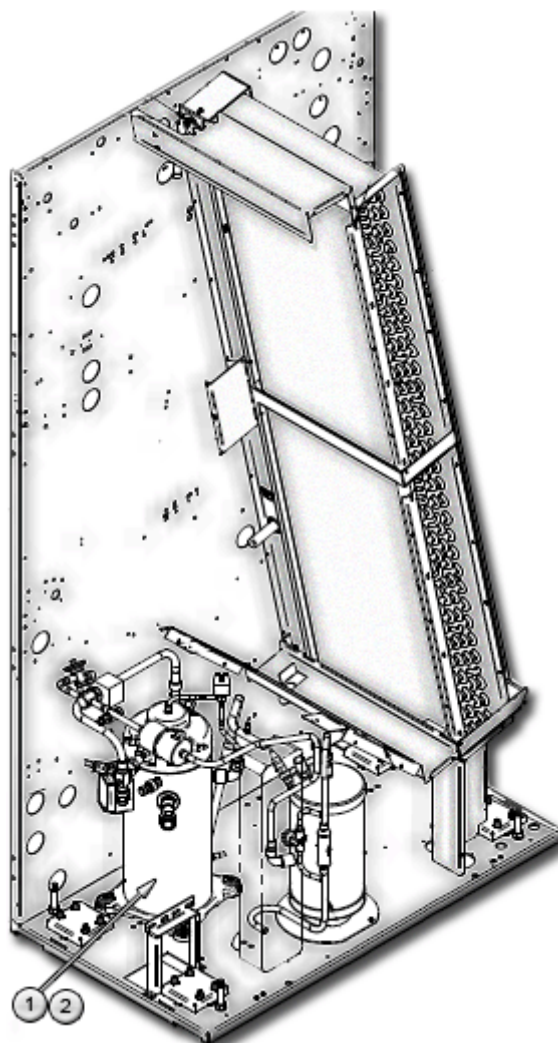
CRV020-035



CRV019/CRV032

Item	Part Number	Description	CR020-035	CR019	CR032
CR020-035					
23	306706G1	COIL EVAP CRV 35KW DX	1		
	306706G2	COIL EVAP CRV 20KW DX	1		
	306706G3	CRV CW COIL 40KW CW	1		
CRV019/CRV032					
2	315050G3A	COIL EVAP 2 SLAB CMPLT CRV300 WG		1	
	315050G2A	COIL EVAP 2 SLAB CMPLT CRV30		1	
	316671G1	COIL ASSY CW CRV300			1

5. Compressor Section

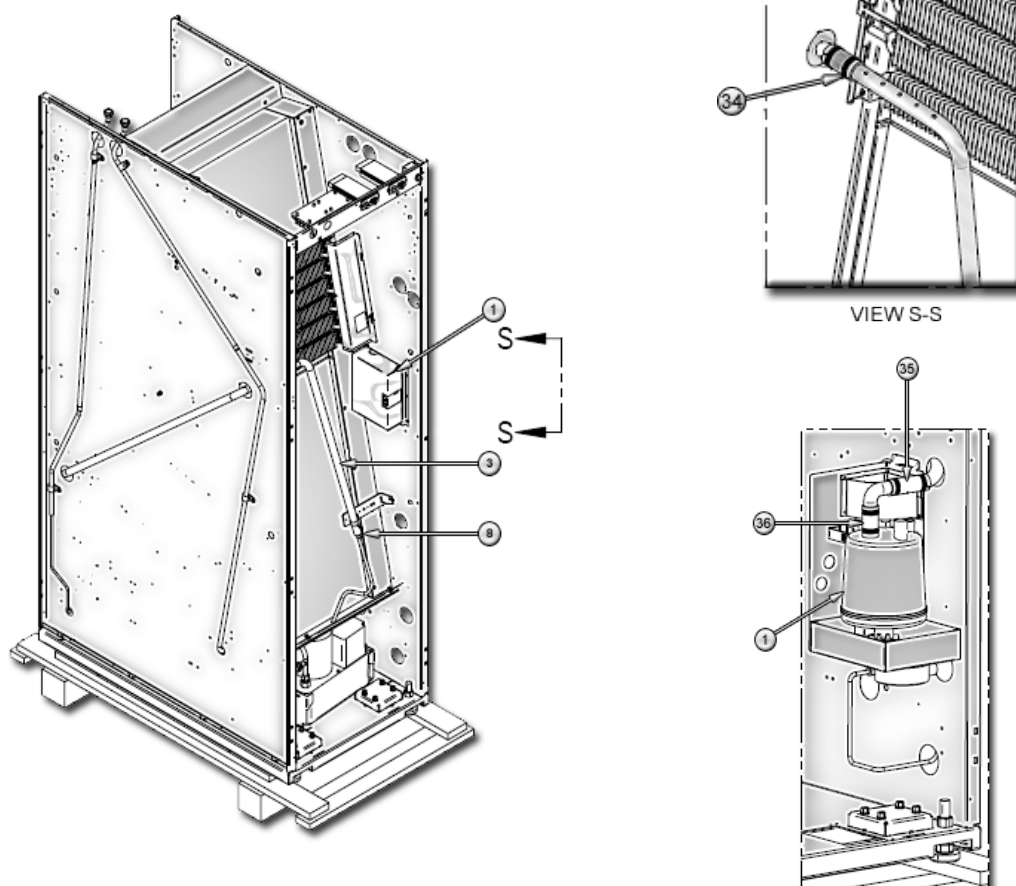


Item	Part Number	Description	Voltage	CR019	CR020	CR035
1	257220P1S	COMP SCRL ZPD72KCE-TF5 422	208V		1	
	257220P2S	COMP SCRL ZPD72KCE-TFD 422	460V		1	
	257223P1S	COMP SCRL ZPD120KCE-TF5 465	208V			1
	257223P2S	COMP SCRL ZPD120KCE-TFD 465	460V			1
	315631P1S	COMP SCRL ZPD72KCE-TF5 130	200-230V	1		
	315631P2S	COMP SCRL ZPD72KCE-TFD 130	-	1		

Item	Part Number	Description	KW	301303G2L	301303G1L
2	300299P1	SOUND JACKET SCROLL Z120-137	35KW	1	
	300388P1	SOUND JACKET SCROLL Z61-Z83	20KW		1
	315095P1	JACKET SOUND COMP ZPD72KCE			

6. Humidifier Section

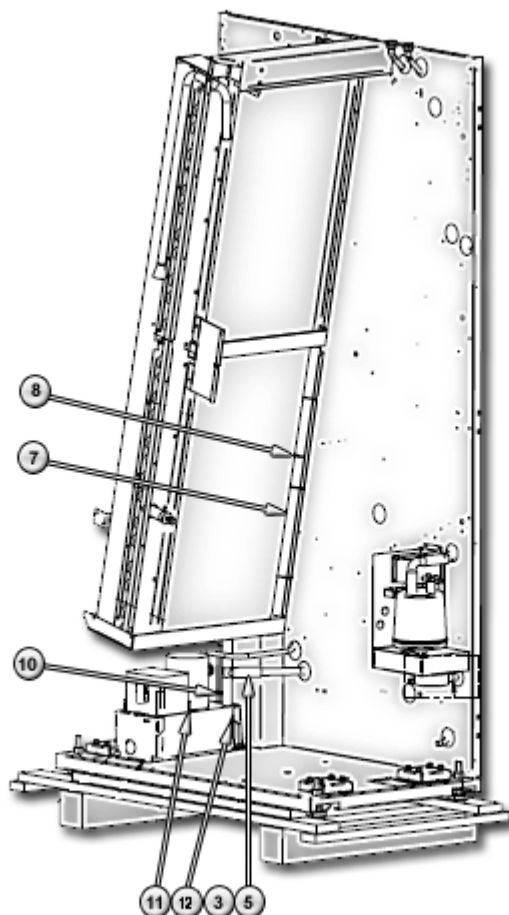
6.1. Humidifier Assembly



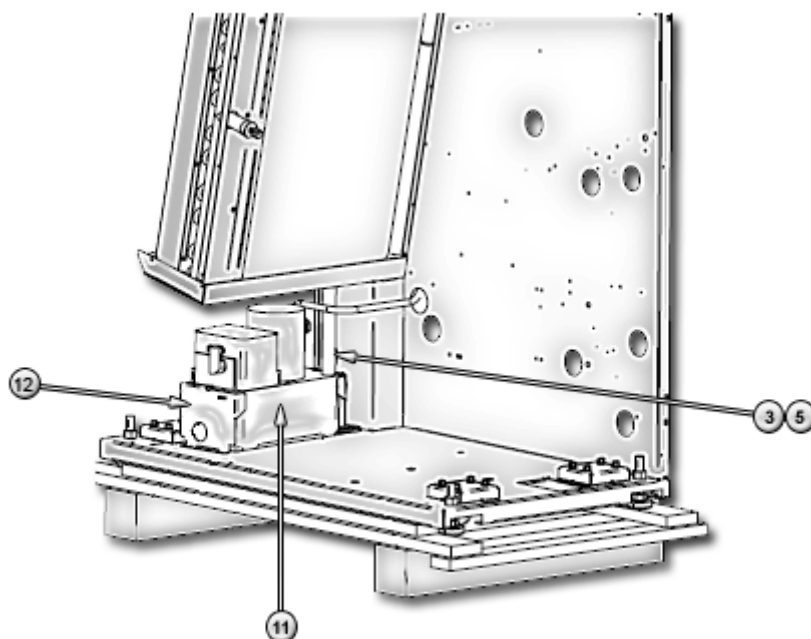
Item	Part Number	Description	Quantity
1	-	Humidifier Nortec Assembly on Page 11	-
3	257831G2	Vapor Distributor Assembly on Page 13	-
8	130916P1	CLAMP NON-INSULATED 7/8 DIA	1
34	124216P2	CLAMP HOSE WORM DRIVE .31X1.25	6
35	124220P1S	HOSE STEAM 0.88ID 10PSI	1
36	124220P1S	HOSE STEAM 0.88ID 10PSI	1

6.2. Humidifier Drain

6.2.1. With Pump and Humidifier

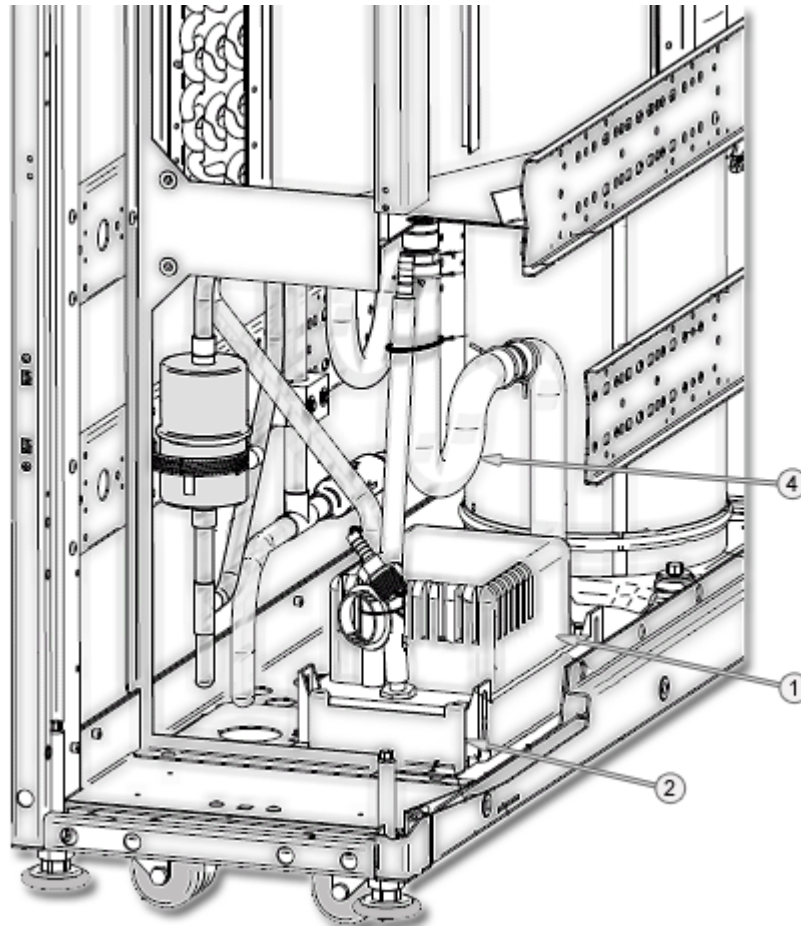


Item	Part Number	Description	Voltage	Quantity
3	P02-0020	CLAMP HOSE WORM DRIVE .75-1.75	-	11
5	P15-0170	HOSE DRAIN .75 ID STRAIGHT	-	3
7	1C11305P1	HOSE DRAIN .75 ID FORMED	-	1
8	P15-0140	UNION NYLON 3/4BARBX3/4BARB	-	1
10	1A16207P1	TEE BARB 3/4X3/4X3/4	-	1
11	1A19271P1S	PUMP CONDENSATE 208/230/1/60DF	208V	1
	1A19271P2S	PUMP CONDENSATE 460/1/60DF	460V	1
12	178339P1	BRKT PUMP CONDENSATE DS	-	2
	315009P1	BRKT COND PUMP HARTELL	-	2

6.2.2. With Pump without Humidifier

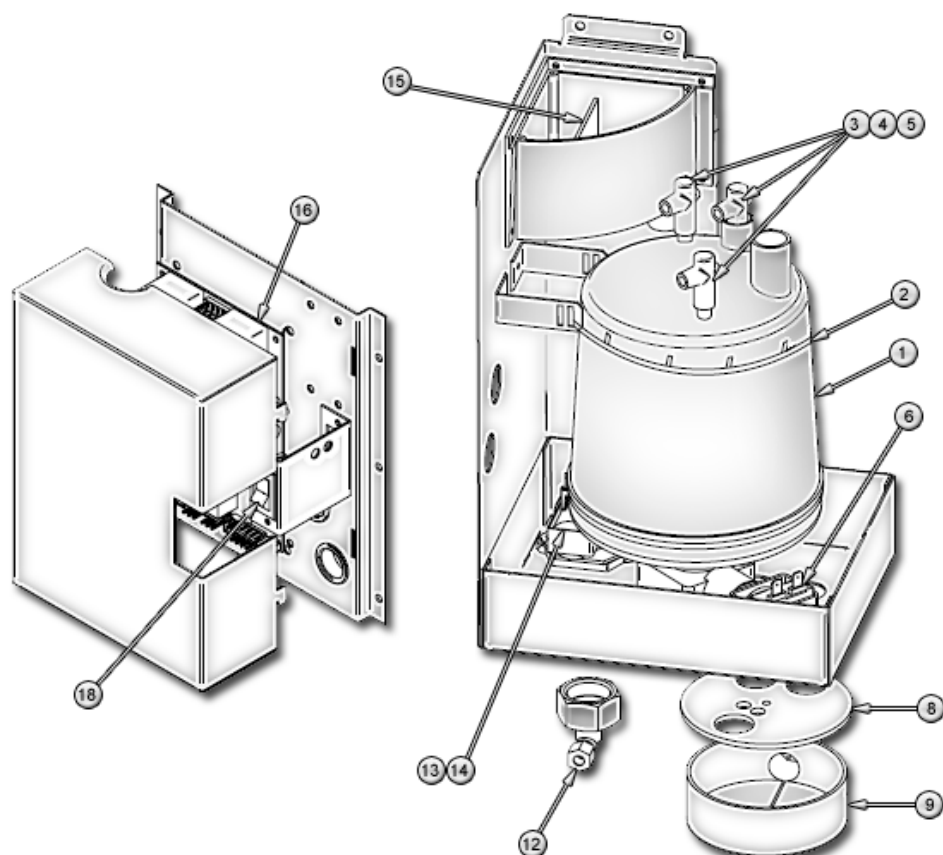
Item	Part Number	Description	Voltage	Quantity
3	P02-0020	CLAMP HOSE WORM DRIVE .75-1.75	-	5
5	P15-0170	HOSE DRAIN .75 ID STRAIGHT	-	3
11	1A19271P1	PUMP CONDENSATE 208/230/1/60DF	208V	1
	1A19271P2	PUMP CONDENSATE 460/1/60DF	460V	1
	132477G1S	KIT COND PMP DM	-	1
12	178339P1	BRKT PUMP CONDENSATE DS	-	2
	315009P1	BRKT COND PUMP HARTELL	-	2

6.3. Humidifier Drain Option CRV019



Item	Part Number	Description	Voltage	Quantity
1	132477G1S	KIT COND PMP DM	-	1
2	315009P1	BRKT COND PUMP HARTELL	-	2
	317797P1	BRKT CONDENSATE PUMP	-	1
4	199835P1	HOSE DRAIN .75 ID FORMED CW	-	1

6.4. Humidifier Nortec Assembly



Item	Part Number	Description	Voltage	Quantity
1	191861P1	CYLNR 102 200-277V CRV	200V//277V	1
	191861P2	CYLNR 102 200-277V CRV	380V//575V	1
2	196561P1	TIE WRAP STEAM HUM CYLINDER	-	1
3	191862P1	SGH CYLDR PLUG BLK CRV	-	1
	191862P2	SGH CYLDR PLUG RED CRV	-	1
	191862P3	SGH CYLDR PLUG WHT CRV	-	1
4	191862P1	SGH CYLDR PLUG BLK CRV	-	1
	191862P2	SGH CYLDR PLUG RED CRV	-	1
	191862P3	SGH CYLDR PLUG WHT CRV	-	1
5	191862P1	SGH CYLDR PLUG BLK CRV	-	1
	191862P2	SGH CYLDR PLUG RED CRV	-	1
	191862P3	SGH CYLDR PLUG WHT CRV	-	1
6	163843P1S	SGH DRAIN VALVE W/COIL KIT	-	1
8	172134P1S	HUM GSKT RND DRN CANAL	-	1
9	191865P1S	CUP SGH DRAIN CRV	-	1
12	196501P1	ELBOW FITTING ASSEMBLY	-	1
13/14	163842P1	SGH FILL VALVE GASKET	-	1
	191863P1S	SGH FILL VALVE W/COIL ASSY CRV	-	1
15	191864P1	FILL CUP ASSEMBLY CRV	-	1
16	191866G1	KIT PCB MES-L 005-010 5.0	-	1
	191866G2	KIT PCB MES-L 005-010 3.5 460V	-	1
	191866G3	KIT PCB MES-L 005-010 3.5 208V	-	1
18	163836P1	SGH SWITCH 2P2T ON/OFF/DRAIN	-	1

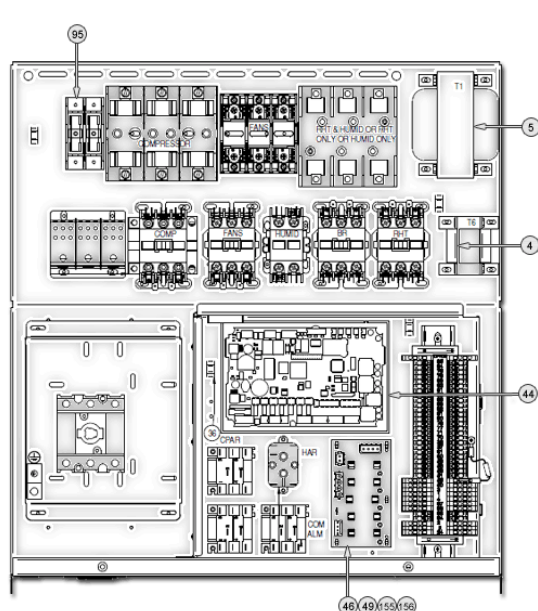
6.5. Vapor Distributor Assembly



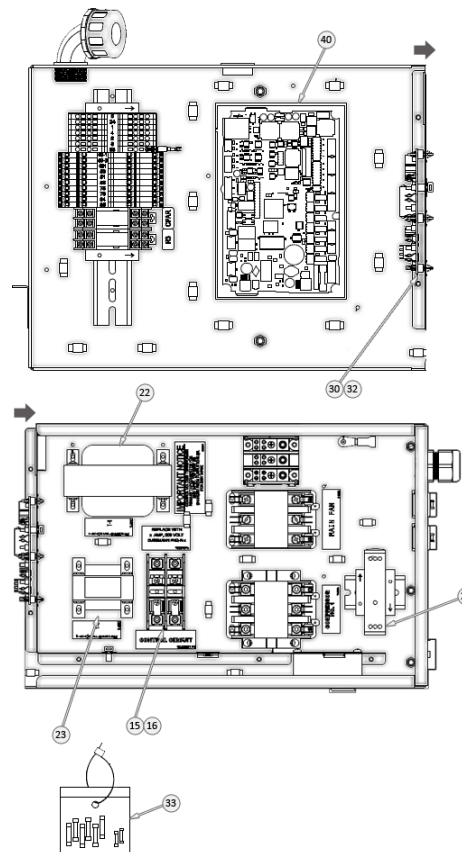
Item	Part Number	Description	Quantity
12	257831P12	TUBE FORM 3/8 VAP DIST CRV LNA	1
13	257831P13	TUBE FORM 7/8 VA DIST CRV LNA	1

7. Electrical Section

7.1. EP Back Panel



CRV020-035



CRV019/CRV032

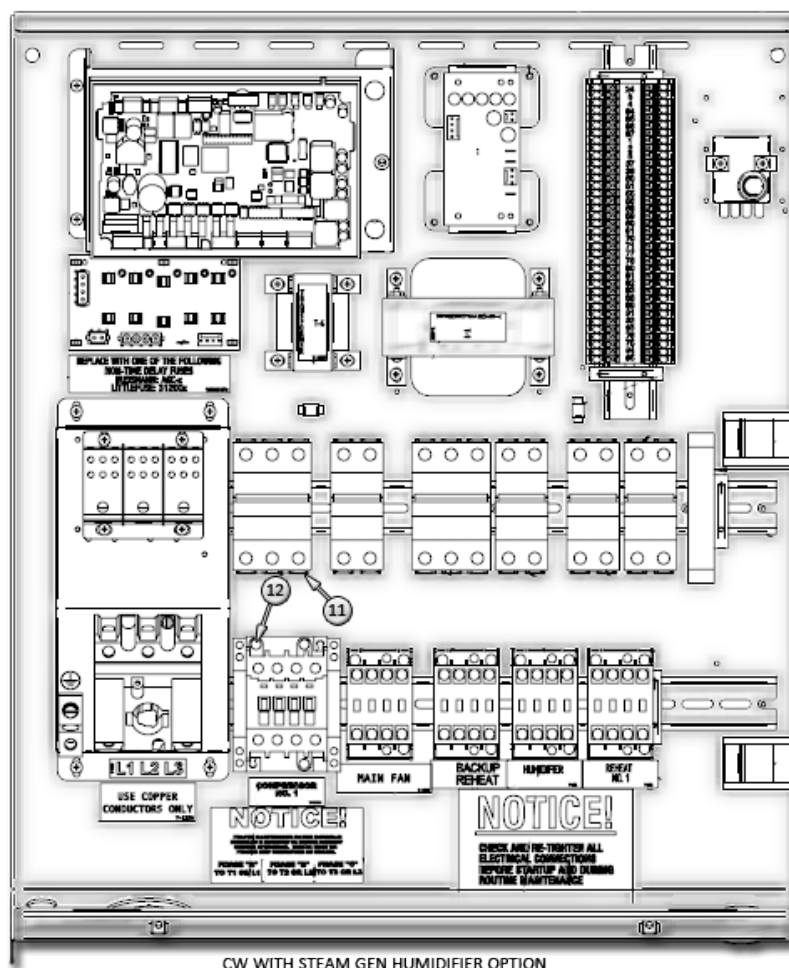
Item	Part Number	Description	208V	460V
CRV020-035				
4	318359P1	XMFR ISOLATION 100VA 24:22VAC (TOUCH SCREEN DISPLAY)	1	1
	180792P1S	TRANSFORMER ISOLATION 24A TO 22V 45VA	1	
5	136202P2S	XFMR 300VA 200-240/24V50/60	1	
	136202P1S	XFMR 300VA 460-615/2460		1
44	416751G3S	PWA ENV ICOM CTRL MEDIUM	1	1
46	1A18608P1	STANDOFF .250 W/LKGTAB CKT BD	5	5
49	417341G1S	PWA ENV GLOBAL FUSE BOARD	1	1
	417341G3	TOUCH SCREEN PWA ENV GLOBAL FUSE BOARD		1
95	127977P3S	FUSE FNQ-R-4	2	2
	127977P9	FUSE TIME DELAY 2AMP		2
155	135637P5	FUSE KIT QTY 6-4A/2-3A NON-TD	1	1
156	135409P2S	FUSE GLASS 250V 4AMP .25X1.25	5	5

Item	Part Number	Description	CR019/CR032
CRV019/CRV032			
15	313080P1S	FUSEBLOCK 2P CLASS CC BOX LUG	1

Item	Part Number	Description	CR019/CR032
16	127977P11S	FUSE TIME DELAY FNQ-R 2.25AMP	2
	127977P10S	FUSE TIME DELAY FNQ-R 3.5AMP	2
22	136201P1	XFMR 200VA 200-240/2450	1
	317835G1	XFMR ASSY (K) CW CRV300	1
	136201P3	XFMR 200VA 460-615/24V60	1
23	180792P1S	TRANSFORMER ISOLATION	1
28	300872P2	PWR SPLY 85-264AC IN 24DC OUT	1
30	417341G3	TOUCH SCREEN PWA ENV GLOBAL FUSE BOARD	1
32	135409P2S	FUSE GLASS 250V 4AMP .25X1.25	5
33	135637P5	FUSE KIT QTY 6-4A/2-3A NON-TD	1
40	416751G3S	PWA ENV ICOM CTRL MEDIUM	1

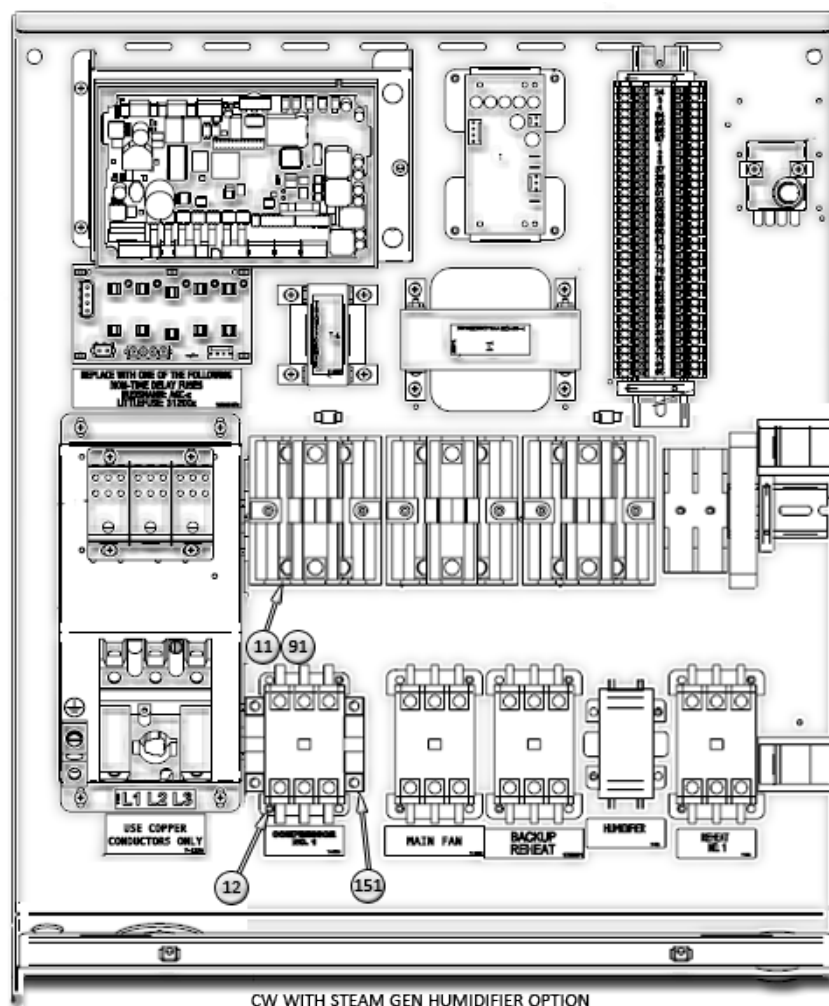
7.2. EP Compressor

7.2.1. EP Compressor 208V



Item	Part Number	Description	Quantity
11	191785P13	CB MCCB 3P 240V 32A K CURVE	1
	191785P15	CB MCCB 3P 240V 50A K CURVE	1
12	312242P1	CONTACTOR 3PL 40/50 NO/NC 2AUX	1
	E-0110S	CONTACTOR 3PL 24VCOIL 25/30AMP	1

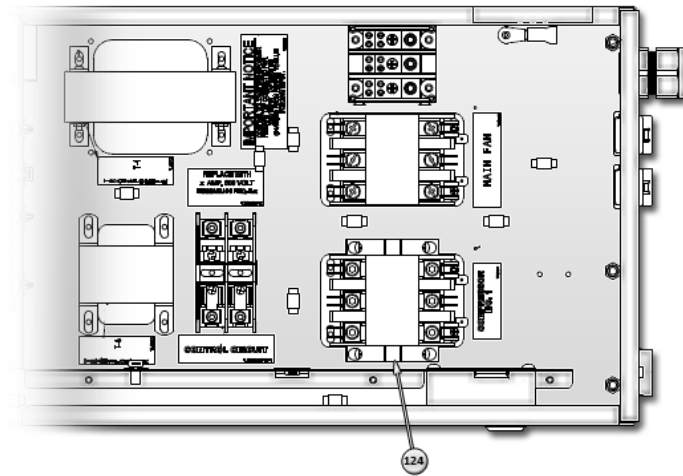
7.2.2. EP Compressor 460V



CW WITH STEAM GEN HUMIDIFIER OPTION

Item	Part Number	Description	Quantity
11	136811P1	FUSEBLOCK BUSS JP600V 30A 3P	1
12	123281P1S	CONTACTOR 3PL 40/50 NO/NC AUX	1
91	136821P16S	FUSE DUAL ELMNT "J" 600V 30.0A	3
151	149117P1S	CONTACTS AUX NO/NC 49ACR6 FRNS	1

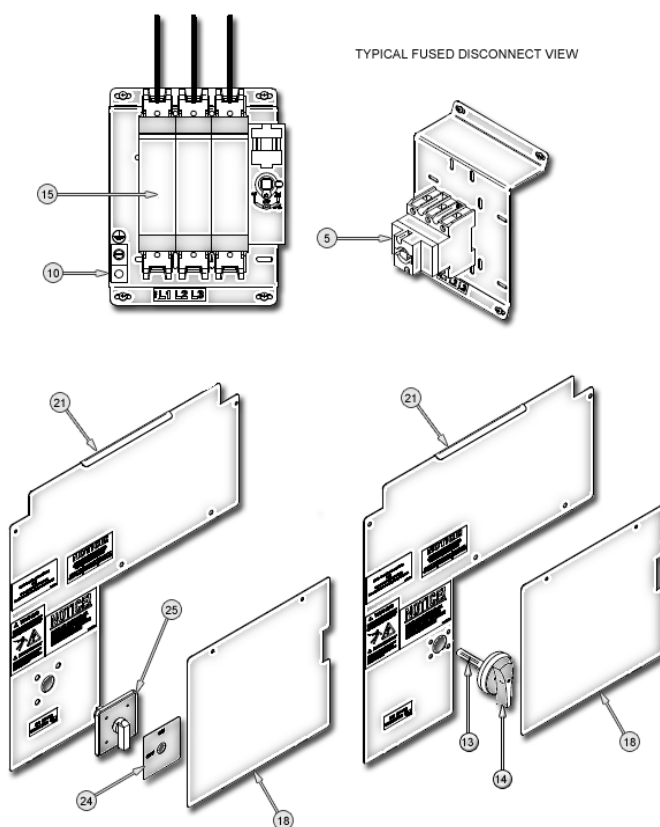
7.2.3. CRV019



Item	Part Number	Description	Quantity
124	312242P1	CONTACTOR 3PL 40/50 NO/NC 2AUX	1

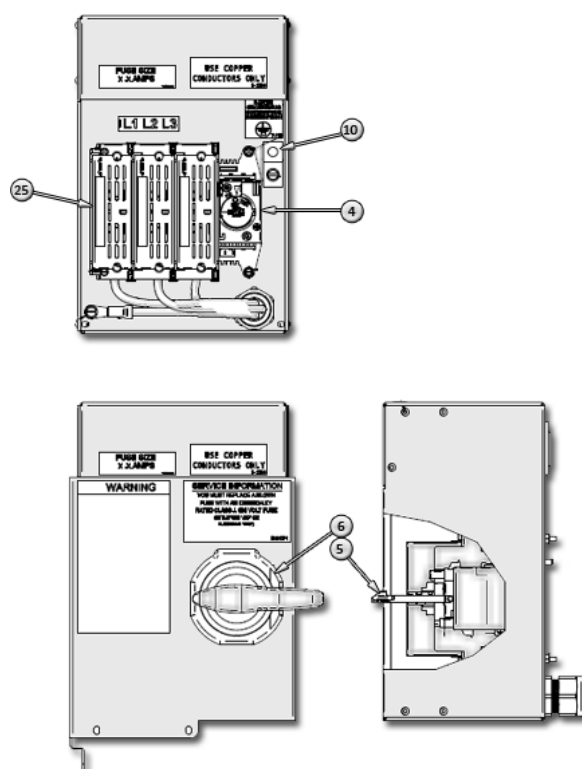
7.3. EP Disconnect

CRV020-035



Item	Part Number	Description	Quantity
5	1C18354P1	COLLAR LKG DISC W/2 SCREWS KM	1
10	E-362B	TERM LUG MECH #14-2/0 1/4"	1
13	303396P22	SHAFT DISC SOC 30A S1 144MM	1
	303396P42	SHAFT DISC SOC 60A+ S1 113MM	1
14	303393P2	HANDLE DISC SOC TYPE S1 MED	1
	303391P2S	HANDLE DISC AB	1
15	136821P12	FUSE DUAL ELMNT "J" 600V 15.0A	3
	136821P15	FUSE DUAL ELMNT "J" 600V 25.0A	3
	136821P16	FUSE DUAL ELMNT "J" 600V 30.0A	3
	136821P17	FUSE DUAL ELMNT "J" 600V 35A	3
	136821P19	FUSE DUAL ELMNT "J" 600V 45A	3
	136821P20	FUSE DUAL ELMNT "J" 600V 50A	3
	136821P21	FUSE DUAL ELMNT "J" 600V 60A	3
	136821P22	FUSE DUAL ELMNT "J" 600V 70A	3
	136821P23	FUSE DUAL ELMNT "J" 600V 80A	3
	136821P24	FUSE DUAL ELMNT "J" 600V 90A	3
	136821P25	FUSE DUAL ELMNT "J" 600V 100A	3
18	191936P1	PANEL DEADFRONT LV EP CRV LNA	1
21	191932P1	PANEL DEADFRONT MOLLER CRV LNA	1
24	180917P3	LABEL DISCONNECT K/M	1
25	1C18352P1	HANDLE DISC SWT/FACEPLATE K/M	1

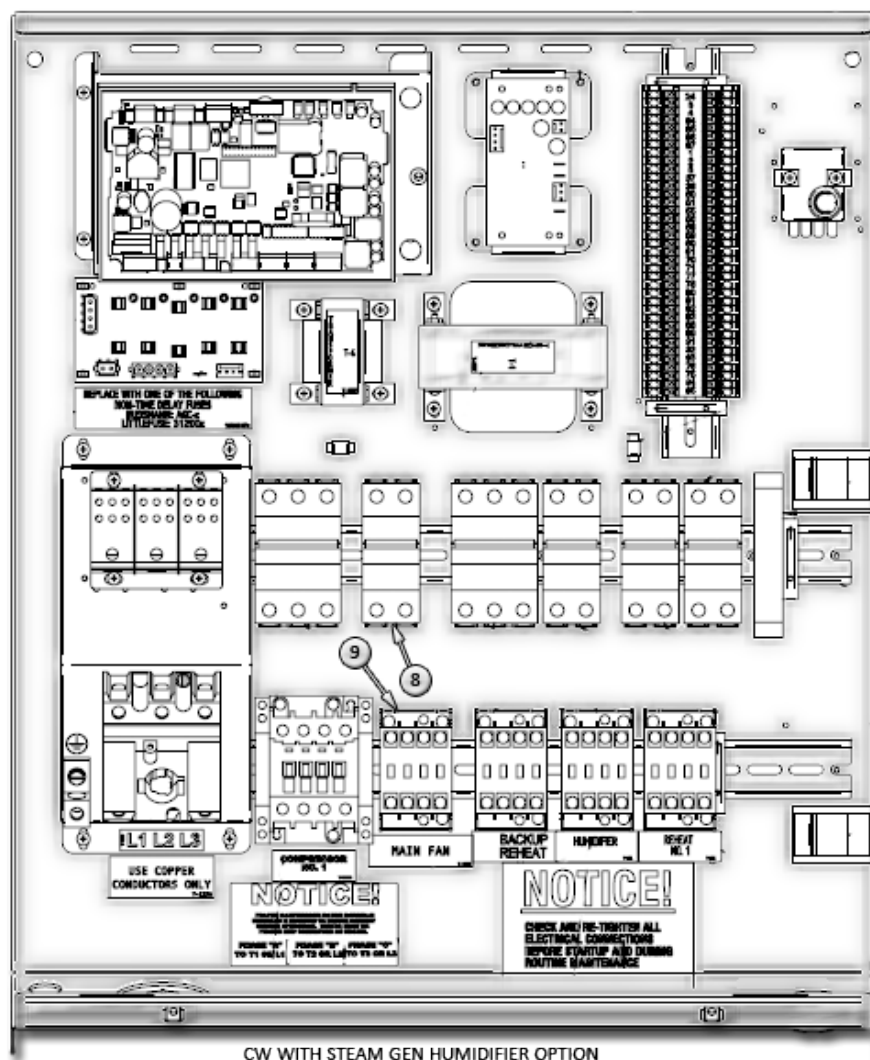
CRV019/CRV032



Item	Part Number	Description	CR019	CR032
4	303397P2S	DISC FUSED 600V AB 60A	1	
	320064P1S	DISC 600V 40A IEC		1
	303397P1S	DISC FUSED 600V AB 30A		1
	303397P1A	DISC FUSED 600V AB 30A 4P NF		1
5	303394P15S	SHAFT DISC AB 143MM	1	1
	303395P07	SHAFT DISC ABB 108MM		1
6	303391P2S	HANDLE DISC AB	1	1
	303392P1	HANDLE DISC ABB 45MM		1
10	E-362B	TERM LUG MECH #14-2/0 1/4"	1	1
25	136821P1	FUSE DUAL ELMNT "J" 600V 60A	3	3

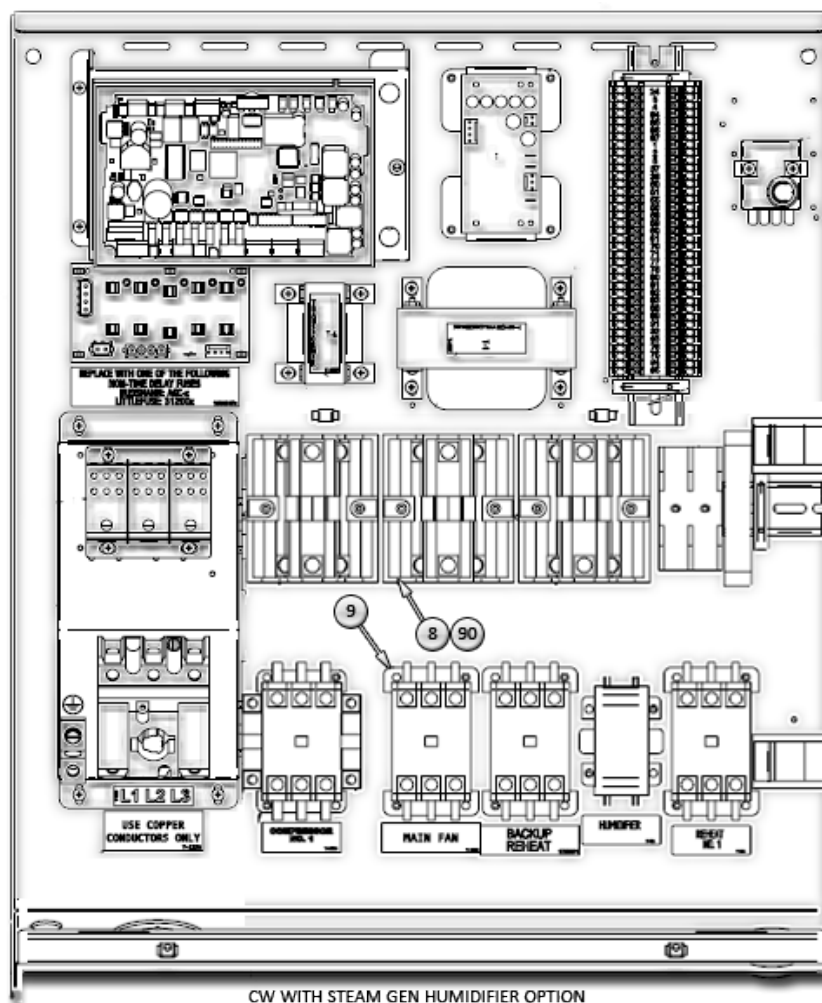
7.4. EP Fan

7.4.1. EP Fan 208V



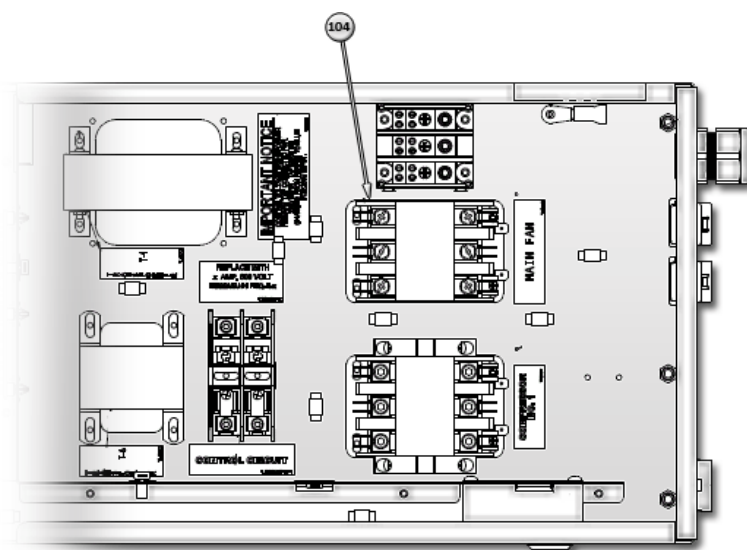
Item	Part Number	Description	Quantity
8	191786P10	CB MCCB 2P 240V 16A K CURVE	1
9	136221P1	CONTACTOR 3P16IND/21RES24/50	1
	E-0110S	CONTACTOR 3PL 24VCOIL 25/30AMP	1

7.4.2. EP Fan 460V



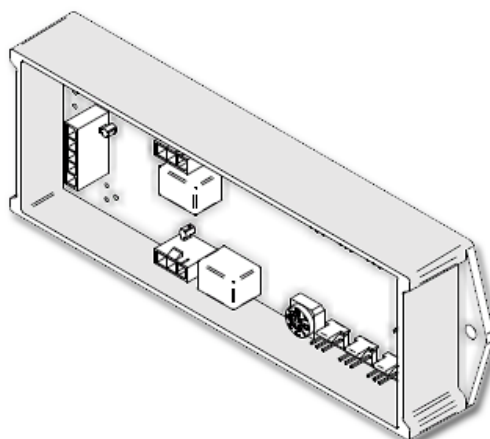
Item	Part Number	Description	Quantity
8	136811P1	FUSEBLOCK BUSS JP600V 30A 3P	1
9	124503P1	CONTACTOR 3PL 24V 15/20 1NO1NC	1
90	136821P12S	FUSE DUAL ELMNT "J" 600V 15.0A	3

CRV019



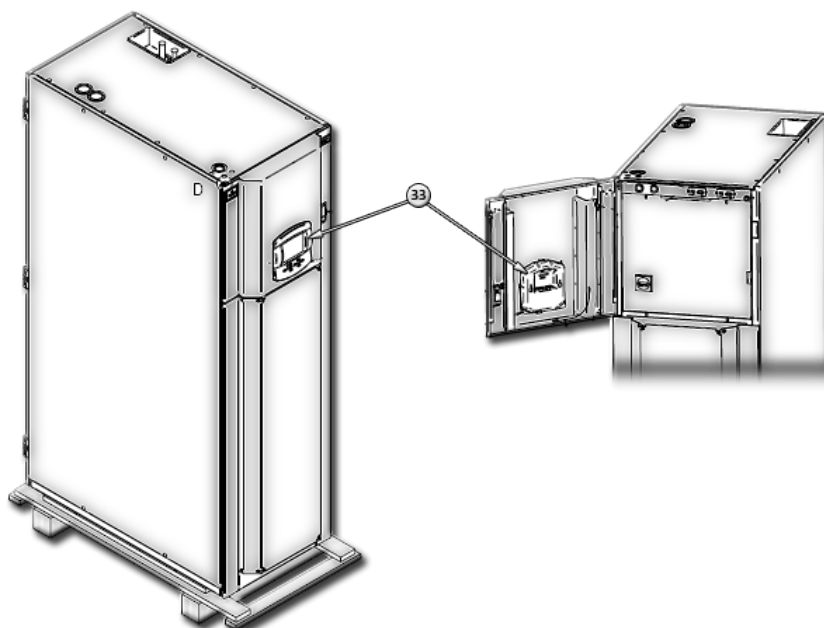
Item	Part Number	Description	Quantity
104	E-0110S	CONTACTOR 3PL 24VCOIL 25/30AMP	1

7.5. EP Fan Alarm



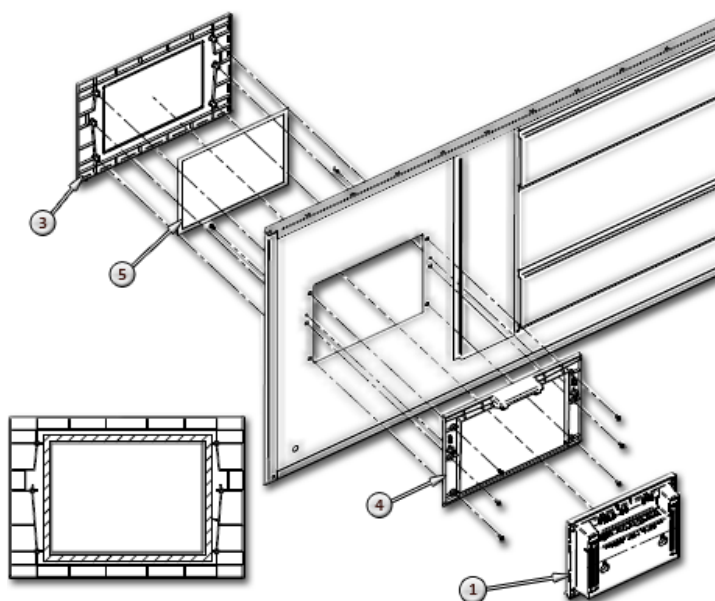
Part Number	Description	CR032
315041P1S	PWA FAN ALARM CRV300	1

7.6. EP Display



Standard

Item	Part Number	Description	Quantity
33	180632G6S	DISPLAY ASSY LRG GR ICOM LED	1

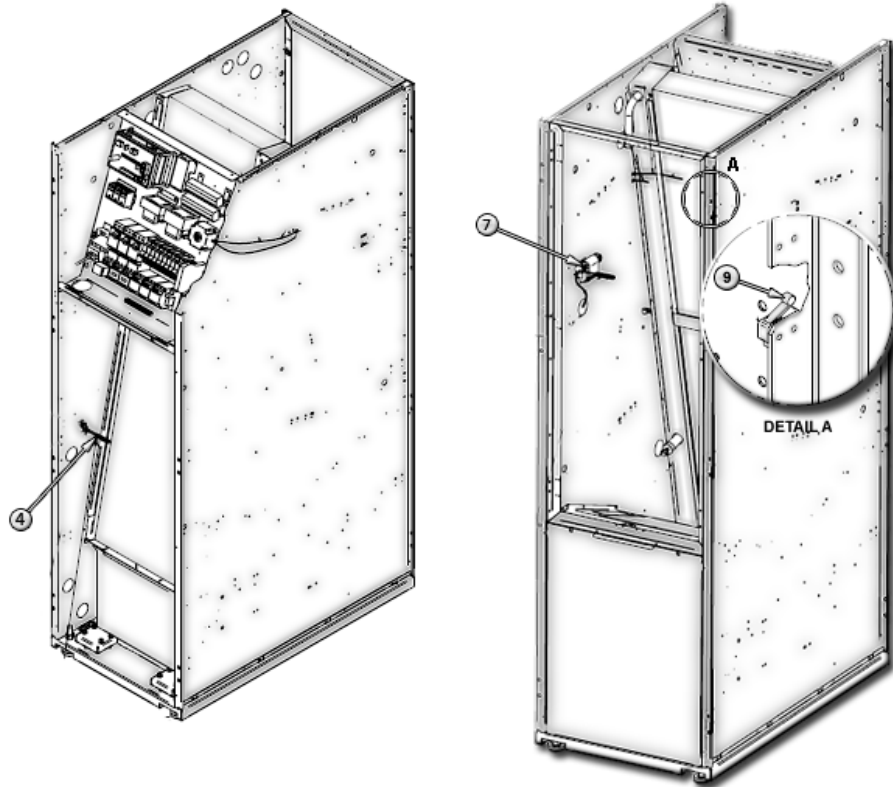


Color Touch Display

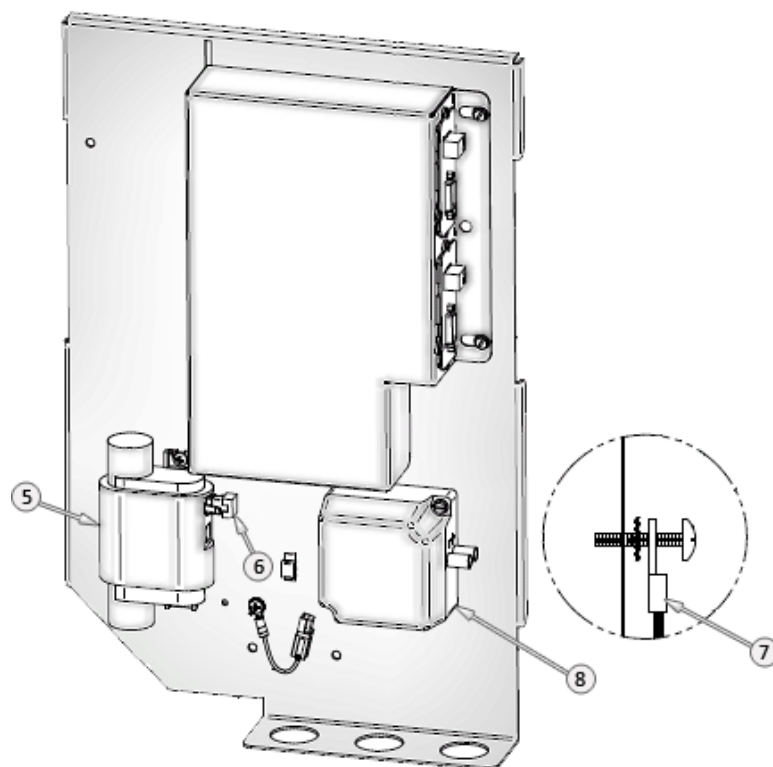
Item	Part #	Description	Quantity
1	318386G1S	DISPLAY HMI GLOBAL	1
3	318364P1	BEZEL FRONT LARGE HMI GLOBAL	1
4	318365P1S	CRADLE HMI GLOBAL	1
5	318371P1	GASKET HMI GLOBAL	1

8. EP Sensors

8.1.1. CRV020 – CRV035

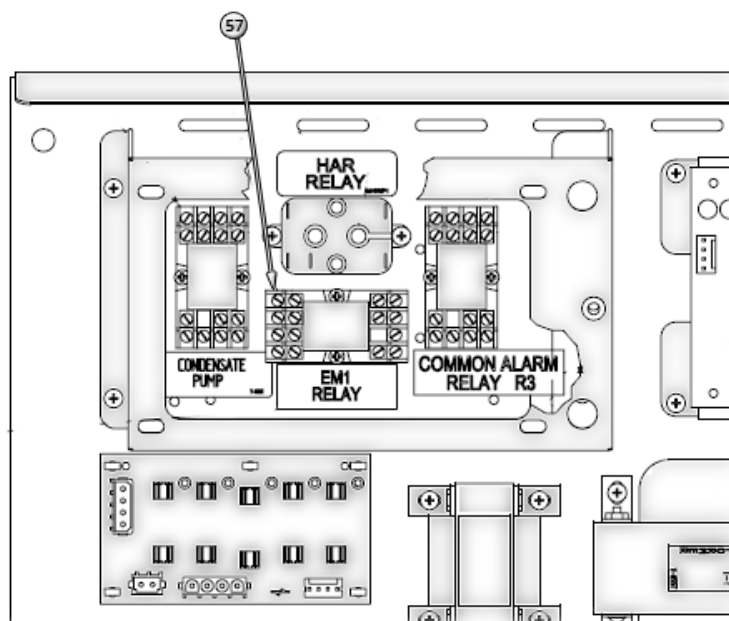


Item	Part Number	Description	Quantity
4	148039P1S	SENSOR GLYCOL W/PLUG	1
7	181464G1S	SENSOR T/H ASSY INTERNAL ICOM	1
	181464G6	SENSOR T/H ASSY INTR 2%RH 0.3C	1
9	300784P1	SWITCH MOM SPDT PLUNGER 10A	3

8.1.2. CRV019/CRV032

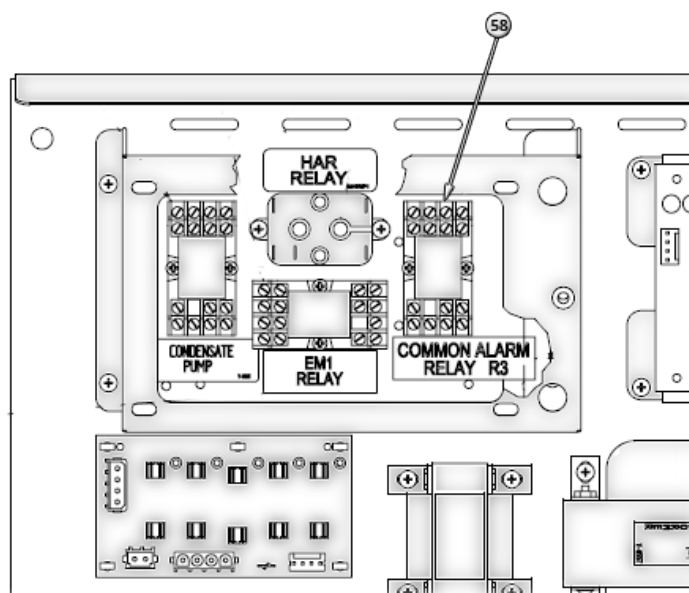
Item	Part Number	Description	CR019	CR032
5	181464G6	SENSOR T/H ASSY INTR 2%RH 0.3C	1	1
6	199336P1	CAN BUS TERMINATOR 6P LONG	1	1
7	300245G1	CONNECTOR GROUND 2T SENSOR 6"	1	1
8	257338P1	PRESS SW AIR 0 5-4 MBAR	1	1

8.2. Miscellaneous Reheat / Humidifier Lockout



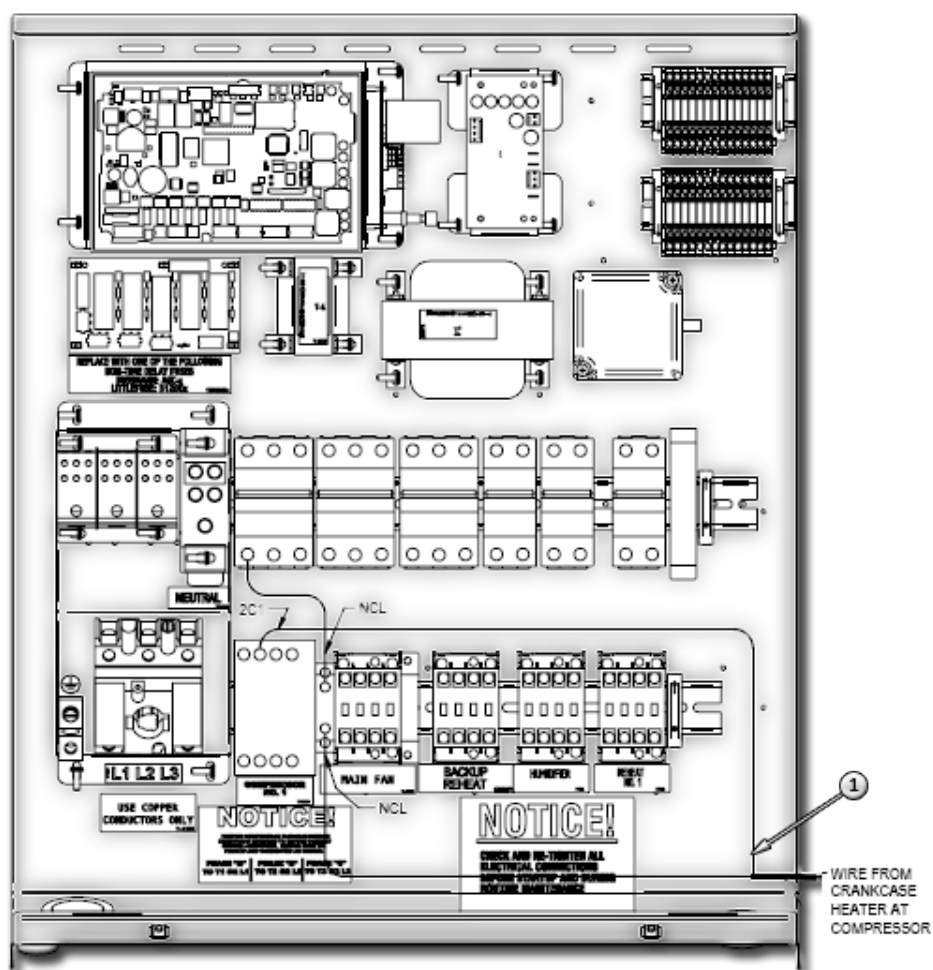
Item	Part Number	Description	Quantity
57	E-2440S	RELAY 4P2T 24VAC 125V MAXLOAD	1
	E-0130S	RELAY 2P2T 24VAC COIL	1
	304098P1	RELAY 2PDT 250VAC 5AR 2AI WSKT	1

8.3. Miscellaneous Optional Alarm Contact



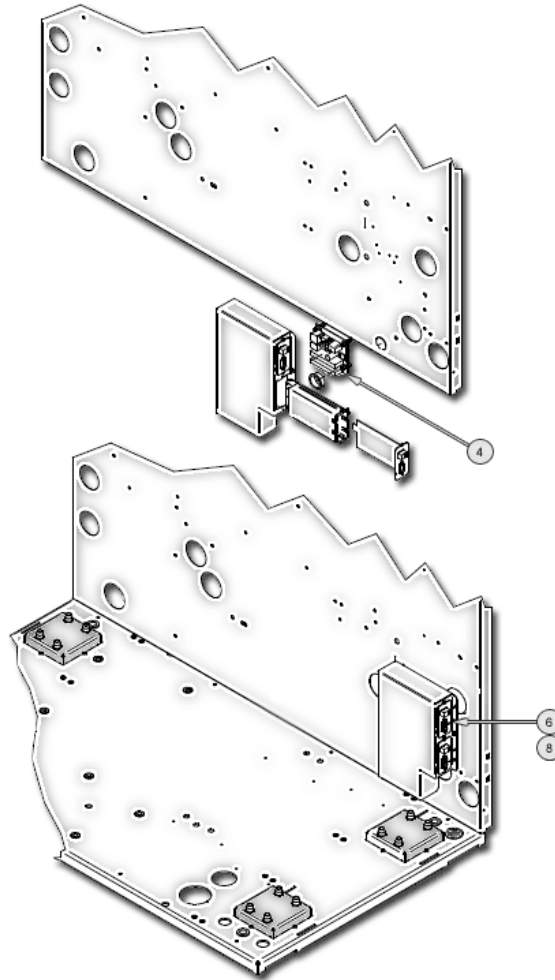
Item	Part Number	Description	Quantity
58	E-2440S	RELAY 4P2T 24VAC 125V MAXLOAD	1
	E-0130S	RELAY 2P2T 24VAC COIL	1
	304098P1	RELAY 2PDT 250VAC 5AR 2AI WSKT	1

8.4. Crankcase Heater



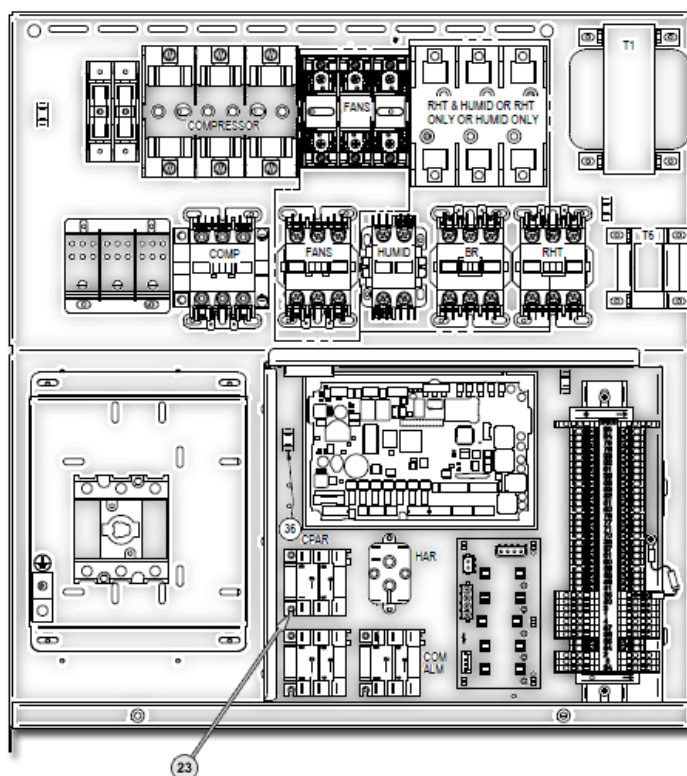
Item	Part Number	Description	Quantity
1	172147P1	HEATER C/CASE 240V 90W SMT SCR	1
	172147P2S	HEATER C/CASE 480V 90W SMT SCR	1
	134142P1S	HEATER C/CASE 240V 70W SCROLL	1
	134142P2S	HEATER C/CASE 480V 70W SCROLL	1

8.5. Intellislot



Item	Part Number	Description	Type	Quantity
4	416911G2S	PWA INTELLISLOT PWR SPLY DC IN	-	1
6	200509P1	ENCLOSURE INTELLISLOT 34 PIN	-	2
8	IS-485L	KIT IS-485L	1 Slot	1
			2 Slots	2
	IS-IPBML	KIT IS-IPBML	1 Slot	1
			2 Slots	2
	IS-UNITY-DP	KIT IS-UNITY DP	1 Slot	1
			2 Slots	2

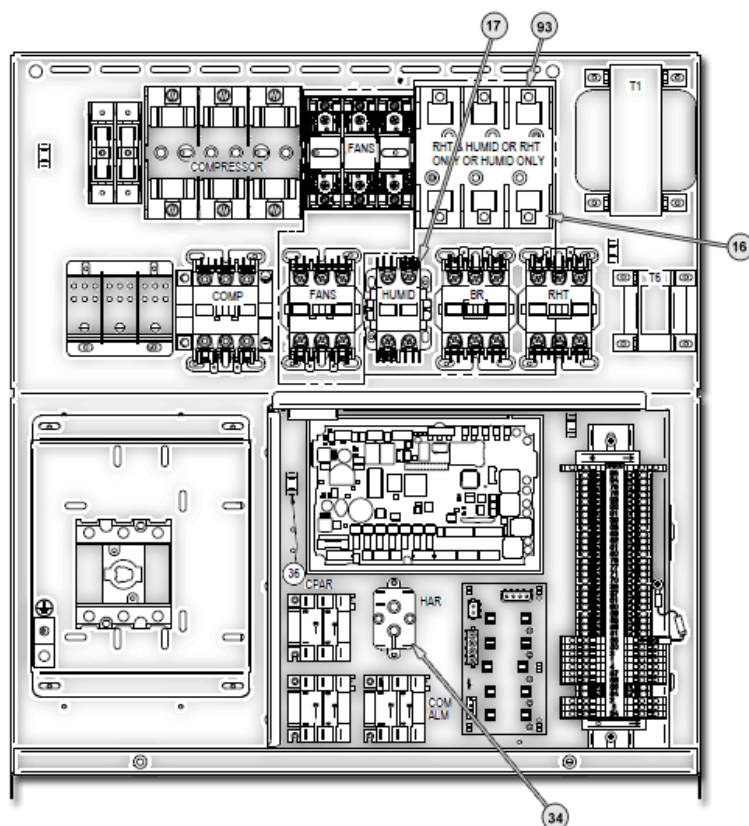
8.6. EP Condensate Pump



Item	Part Number	Description	CR020-035	CR032
23	E-0130S	RELAY 2P2T 24VAC COIL	1	
	304098P1	RELAY 2PDT 250VAC 5AR 2AI WSKT		1

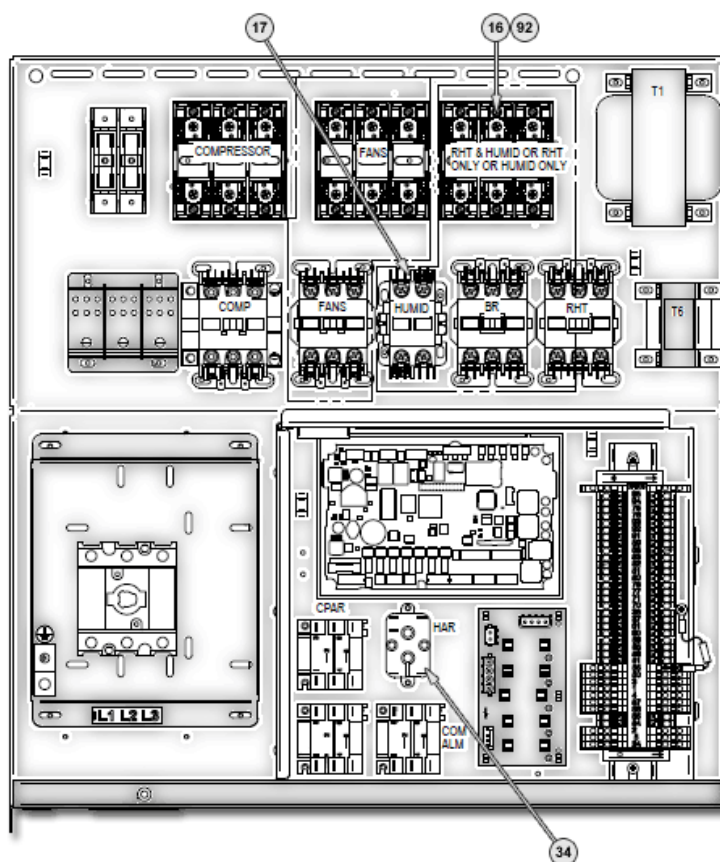
8.7. EP Humidifier SGH

8.7.1. EP Humidifier SGH 208V



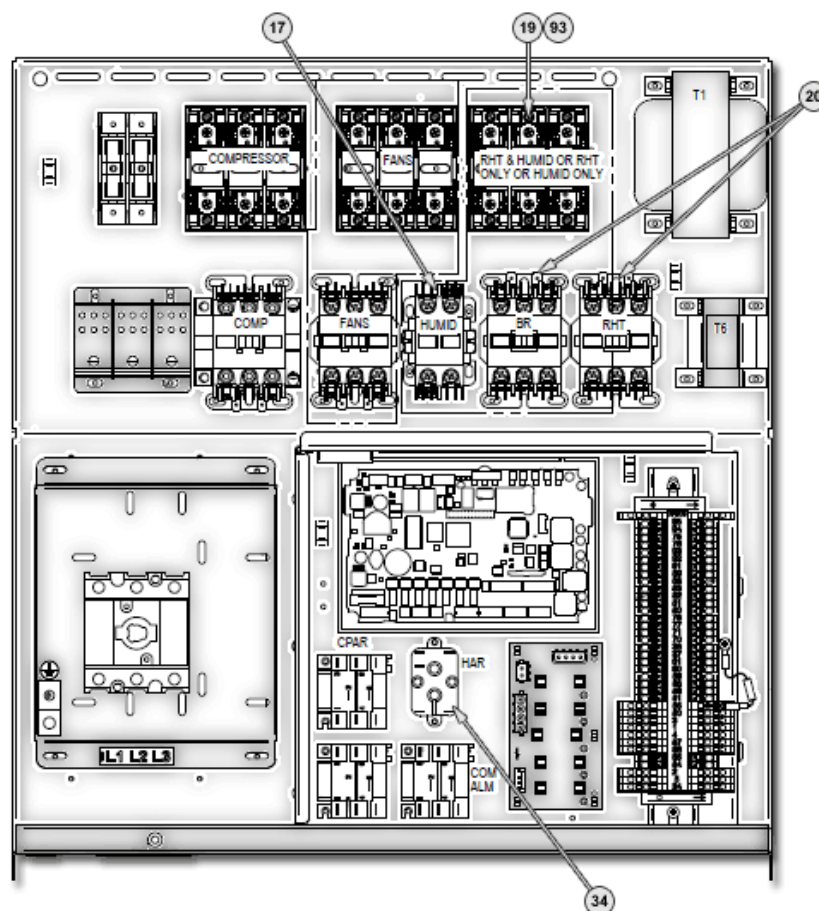
Item	Part Number	Description	Quantity
16	136810P1S	FUSEBLOCK CLASS J 600V 30A 2P	1
	E-011AS	CONTACTOR 2PL 24VCOIL 20/30AMP	1
17	E-011BS	CONTACTOR 2PL 24VCOIL 25/35AMP	1
	E03-0170S	RELAY 1P2T 24V 50/60HZ	1
34	E03-0170S	RELAY 1P2T 24V 50/60HZ	1
93	136821P12S	FUSE DUAL ELMNT "J" 600V 15.0A	2

8.7.2. EP Humidifier SGH 460V



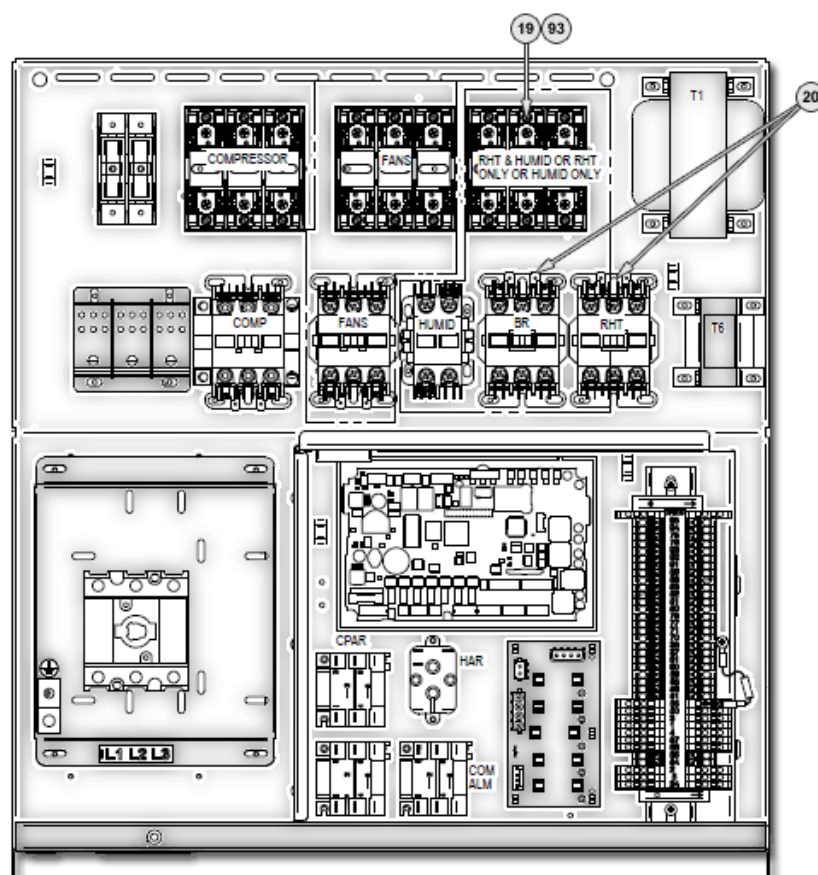
Item	Part Number	Description	Quantity
16	136810P1S	FUSEBLOCK CLASS J 600V 30A 2P	1
17	E-011BS	CONTACTOR 2PL 24VCOIL 25/35AMP	1
34	E03-0170S	RELAY 1P2T 24V 50/60HZ	1
92	136821P12S	FUSE DUAL ELMNT "J" 600V 15.0A	2

8.8. EP Humidifier & Reheat



Item	Part Number	Description	208V	460V
17	E-011BS	CONTACTOR 2PL 24VCOIL 25/35AMP	1	1
19	136811P1	FUSEBLOCK BUSS JP600V 30A 3P	1	1
20	E-0110S	CONTACTOR 3PL 24VCOIL 25/30AMP	2	
	124501P1S	CONTACTOR 3PL 24VCOIL 15/20AMP		2
34	E03-0170S	RELAY 1P2T 24V 50/60HZ	1	1
93	136821P12S	FUSE DUAL ELMNT "J" 600V 15.0A	3	3
	136821P16S	FUSE DUAL ELMNT "J" 600V 30.0A	3	3

8.9. EP Reheat

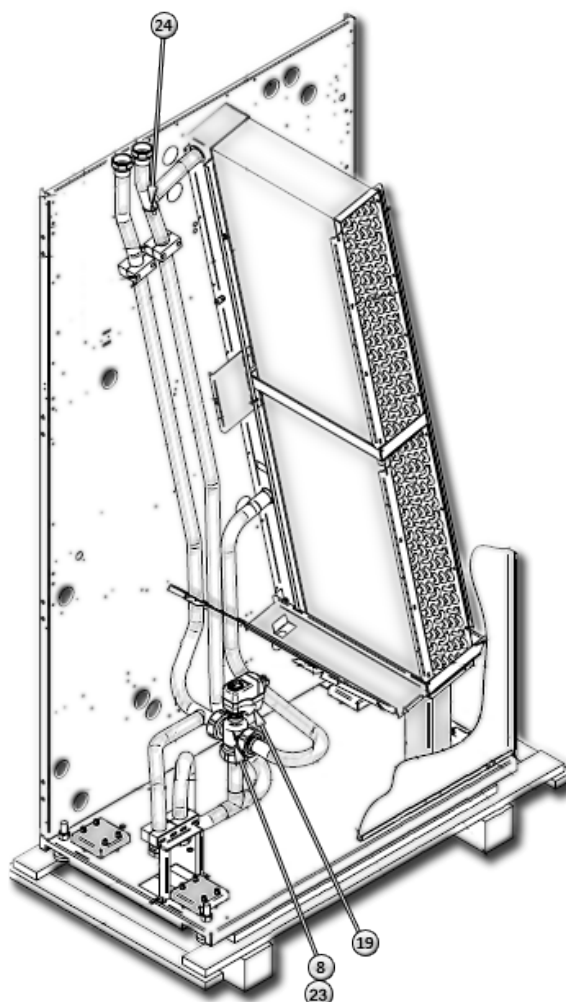


Item	Part Number	Description	460V
19	136811P1	FUSEBLOCK BUSS JP600V 30A 3P	1
20	124501P1S	CONTACTOR 3PL 24VCOIL 15/20AMP	2
93	136821P12S	FUSE DUAL ELMNT "J" 600V 15.0A	3

9. Piping Section

9.1. Piping CW

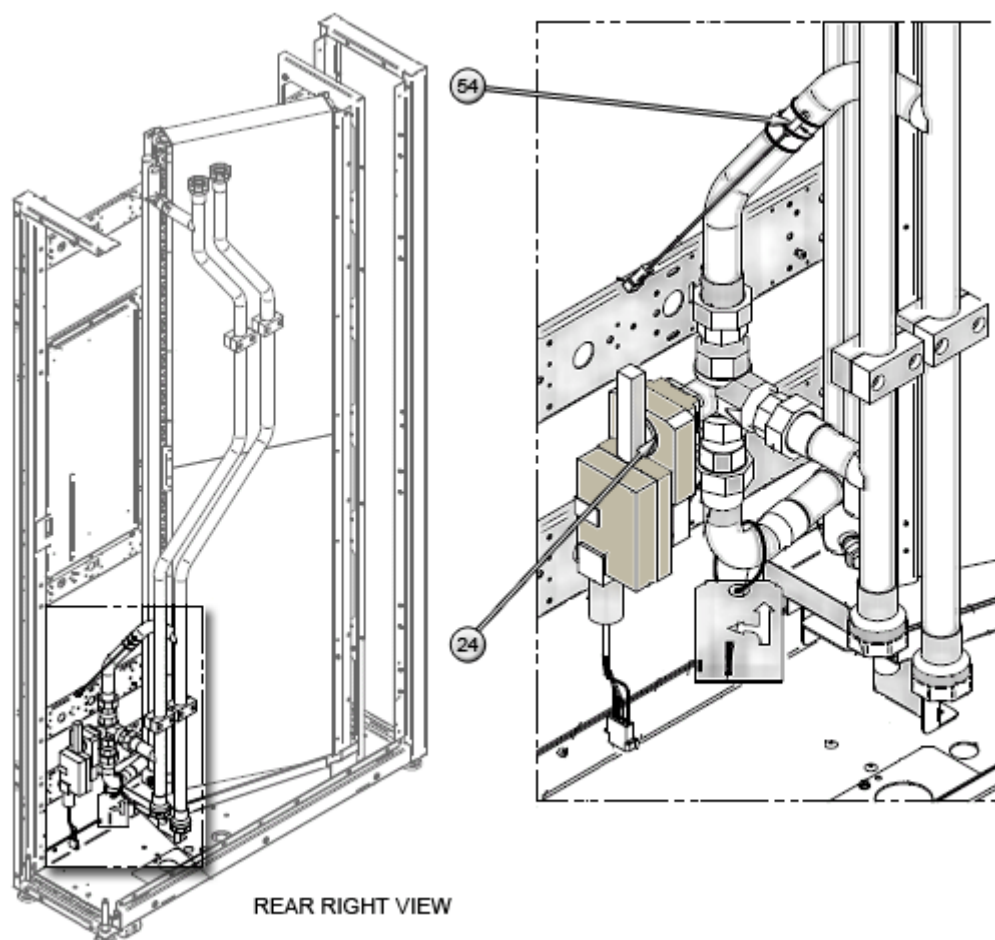
CR020-CR035



Item	Part Number	Description	Quantity
8	257270P1	VALVE CW 3W VXP 45.32-16	1
19	257371P1	ACTUATOR SSC 619 24V 0-10V	1
23	191847P2	GASKET UNION 55MM OD 40 MM ID	1
		Note: Call Factory Parts for CR032. Be prepared to provide the serial number.	
24	148039P1S	SENSOR GLYCOL W/PLUG	1
	307648P1S	SENSOR GLYCOL WITH PLUG	1

Note: Part Number 307648P1S is used for CR032 units. For Item# 8, 19 and 23, Call Factory Parts for CR032. Be prepared to provide the serial number.

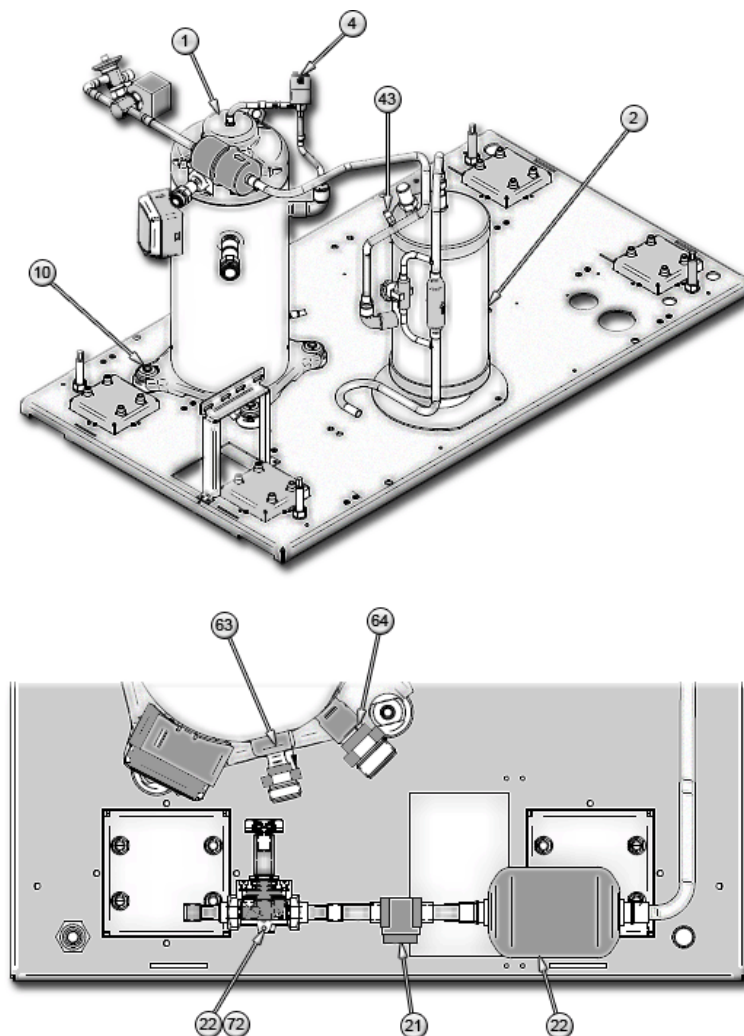
CR032



Item	Part Number	Description	Quantity
24	185660P13	VALVE MBV 2W 1" BLM 24V	1
	185661P13	VALVE MBV 3W SR BLM 24V	1
54	307648P1	SENSOR GLYCOL W/PLUG	1

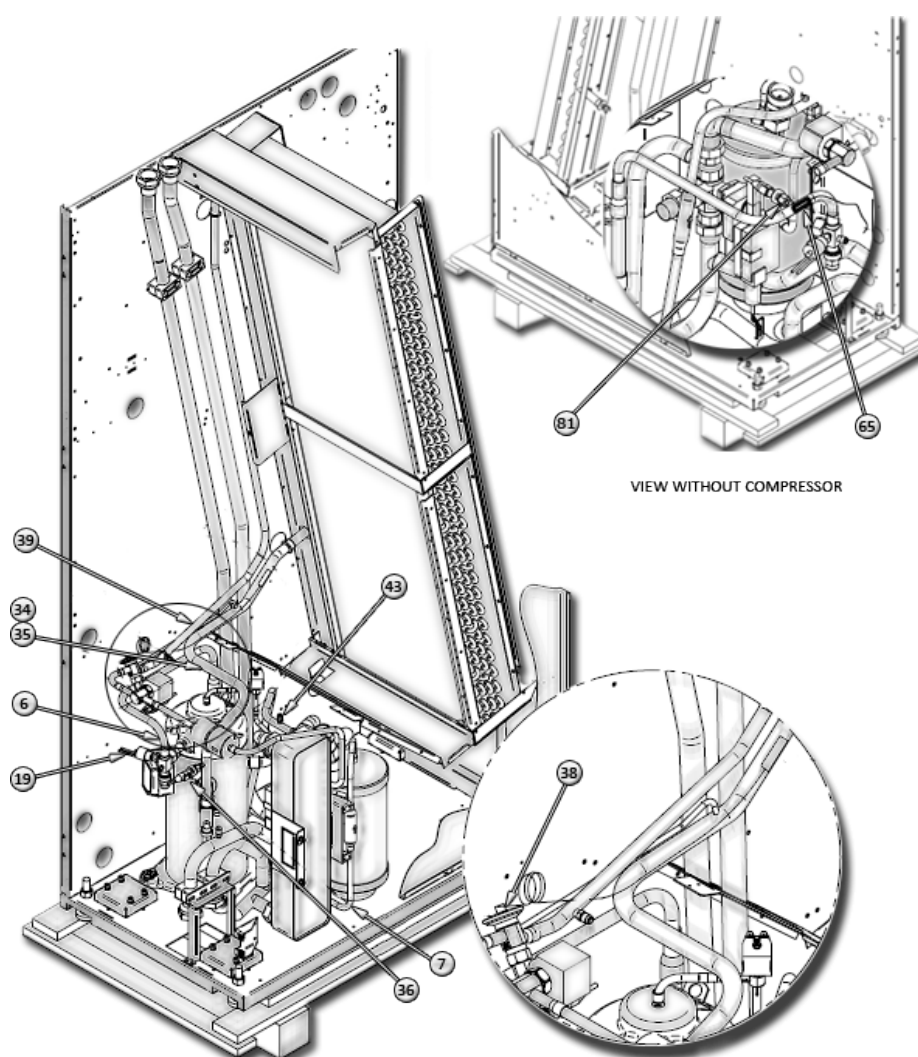
9.2. Mechanical Refrigerant

9.2.1. View 1



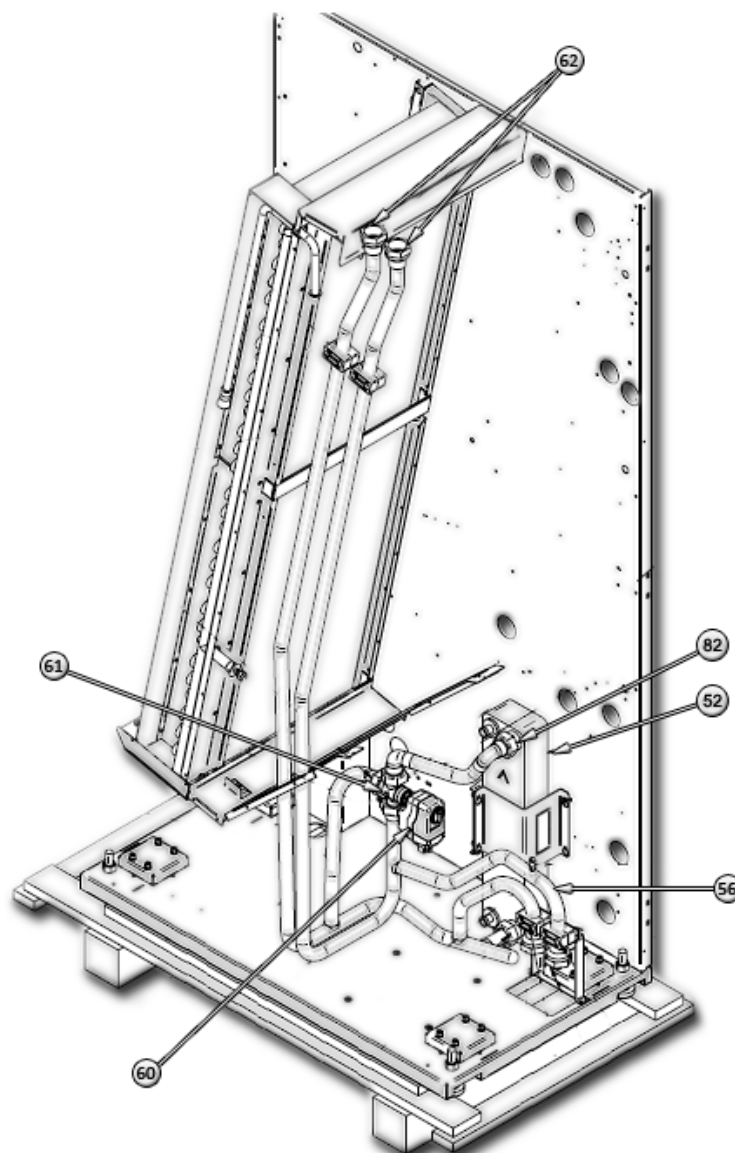
Item	Part Number	Description	Voltage	CR019	CR020	CR035
1	257223P1S	COMP SCRL ZPD120KCE-TF5 465	208V			1
	257223P2S	COMP SCRL ZPD120KCE-TFD 465	460V			1
	257220P1S	COMP SCRL ZPD72KCE-TF5 422	208V		1	
	257220P2S	COMP SCRL ZPD72KCE-TFD 422	460V		1	
2	300842P1	RECVR V 6X14 5/8INX3/4OUT 675#	-		1	1
4	197922G1	VALVE SOLND D_SCRL 3/8 R410A	-		1	
	315099G1	VALVE DIGITAL SOLND ASSY	-	1		
10	1A17649P1	KIT COMP MTG SPRING	-	1	4	4
20	178082P1S	FILTER/DRIER 1/2" SOLDER	208/460V	1	1	
	257313P1S	FILTER/DRYER C-165-S D.16MM	208/460V			1
21	179863P1	INDICATOR LIQ 1/2ODM X 1/2ODF	208/460V		1	
	179869P1	INDICATOR LIQ 5/8ODM X 5/8 ODF	208/460V			1
	P-0050S	INDICATOR LIQUID 1/2 ODF	-	1		
22	257292P1	VALVE SOLND E9S240-HP 1/2 WELD	208/460V			1
	257292P2	VALVE SOLND E14S250-HP 5/8WELD	208/460V		1	
	315096P1	VALVE SOLND 1/2 ODF EXTEND	-	1		
63	197871P2	MALE ROTOLOCK 1-1/4"-12UNF 7/8	208/460V		1	
64	197871P1	MALE ROTOLOCK 1-1/4"-12UNF 7/8	208/460V		1	
72	257296P1	SOLENOID COIL 24V MKC-2TS QC	-		1	1
	182548P1	SOLENOID COIL 24VAC D_SCR SMT	-			1

9.2.2. View 2

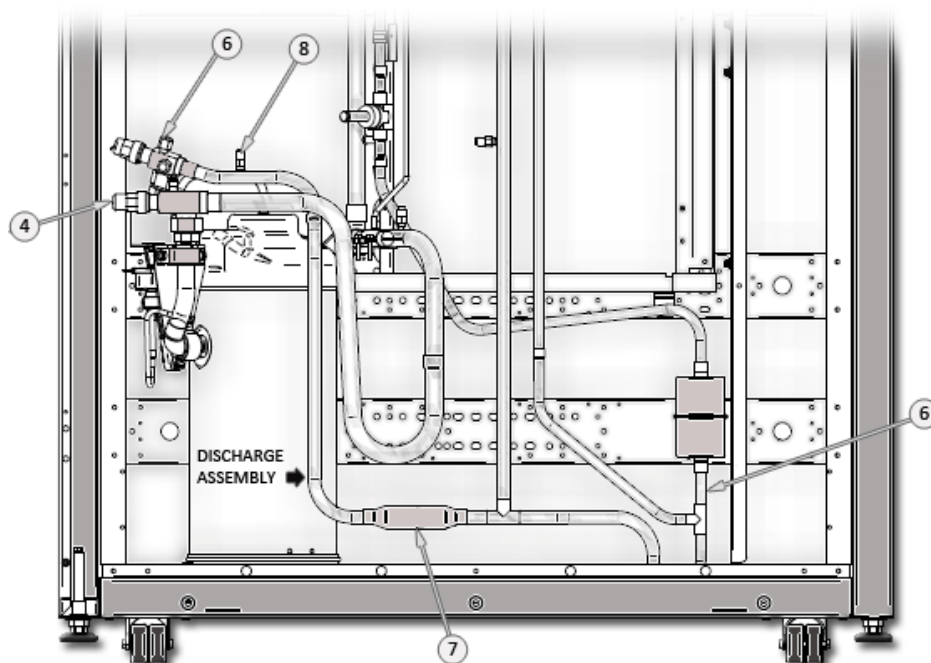


Item	Part Number	Description	Voltage	CR019	CR020	CR035	CR040
6	257820G2	PIPING DISCHARGE ASSEMBLY CR020RW on Page 42	-				
7	257803G2	PIPING COND-LR ASSY CR035RW LNA on Page 44	-				
19	303916P1	SW PRES HI 561/435 AUTO	-	1	1	1	1
34	257821G2	PIPING SUCTION ASSEMBLY CR20 LNA on Page 43	-				
35	W-0330S	SEAL ROTOLOCK 1-1/4"X12"TEFLON	208V 460V		1 1	1	
36	257340P1S	TRANSDUCER 0-17 3BAR 0-5V 1/4S	208V/460V		1	1	
38	257261P1S	THERMAL EXP VALVE 12.5 TONS	208V/460V			1	
	257260P2S	THERMAL EXPANSION VALVE 8 TONS	208V/460V		1		
39	257822G2	PIPING EXPANSION ASSEMBLY CR020 on Page 43	-				
43	P02-0290	VALVE CORE REFRIGERANT	(RA) Type (RW) Type	6 4	5 4	6 4	
65	183151P1	SENSOR THERMISTOR ZRD94//125	-		1	1	
81	257340P2S	TRANSDUCER 0-45BAR 0-5V 1/4S	-		1	1	

9.2.3. View 3

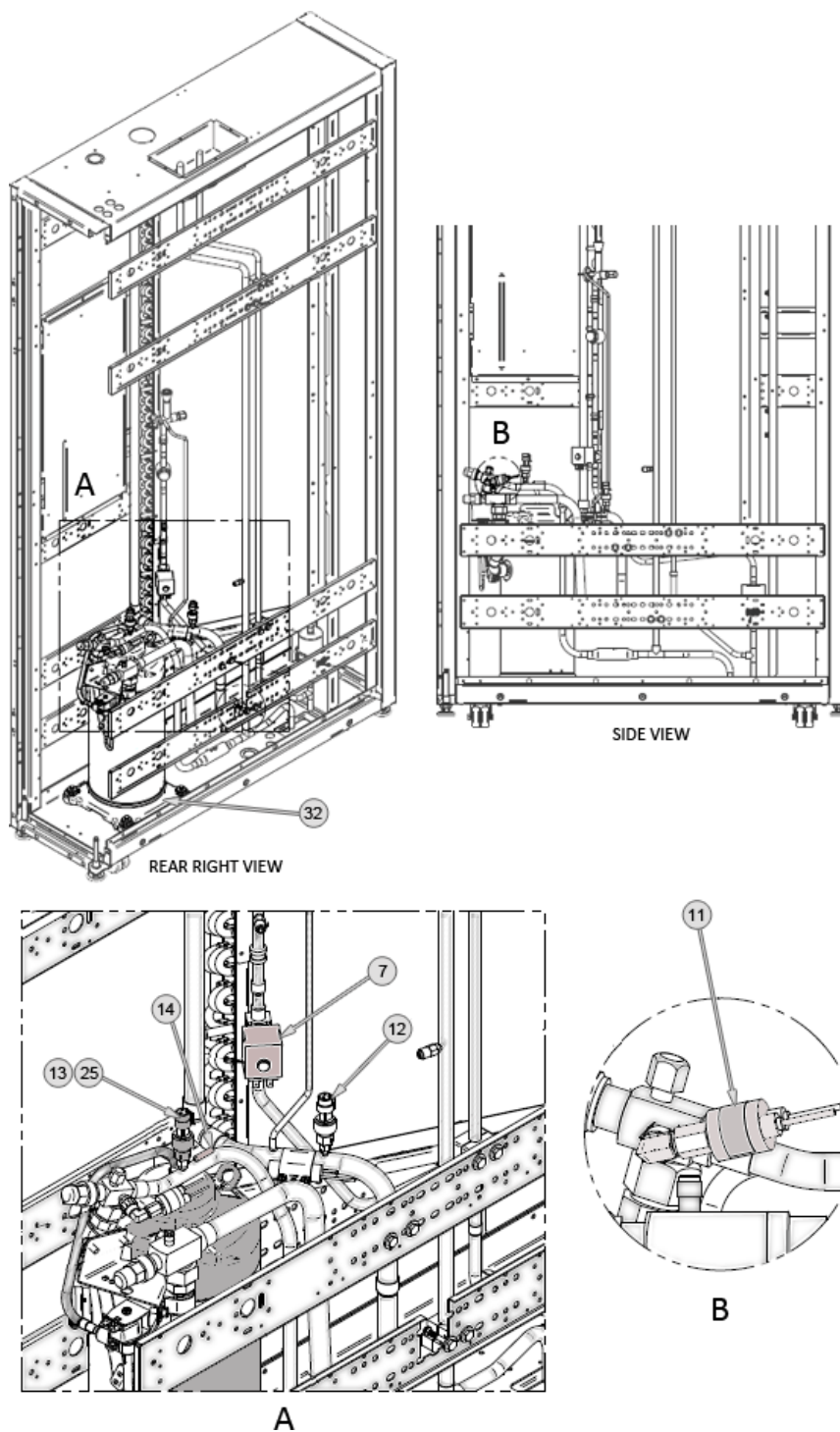


Item	Part Number	Description	Quantity
52	257382P2	CONDENSER PLATE B80X26 UL	1
60	257371P1	ACTUATOR SSC 619 24V 0-10V	1
61	257271P1	VALVE CW 3W VXP 459.25-6 3	1
62	191792P1	PLUG PIPE 1.25BRASS HEX C/SUNK	4
82	191847P1	GASKET UNION 38MM OD 30 MM ID	5

9.2.4. View 4 – CRV019

Item	Part Number	Description	Quantity
4		Piping Suction Assembly on Page 45	
6	1C16925P1	VALVE ROTOLOCK 5/8"X1"-14UNS	1
7	W-0093S	VALVE CHECK 5/8" OD	1
8	P02-0270	VALVE ACCESS BODY 1/4X SWT	1

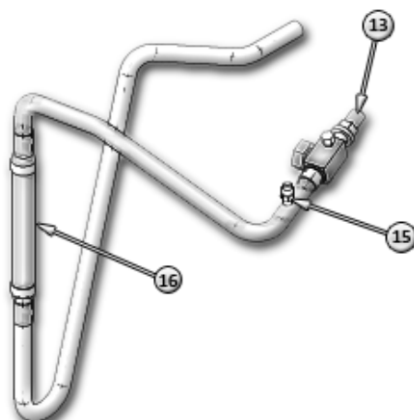
9.2.5. View 5 – CRV019



Item	Part Number	Description	Quantity
7	199723P2	VALVE COIL	1
11	303916P1	SW PRES HI 561/435 AUTO	1
12	257340P1S	TRANSDUCER 0-17 3BAR 0-5V 1/4S	1
13	257340P2	TRANSDUCER 0-45BAR 0-5V 1/4S	1
14	183151P1	SENSOR THERMISTOR ZRD94//125	1
15	P02-0290	VALVE CORE REFRIGERANT	6
32	1A17649P1	KIT COMP MTG SPRING	4

9.3. Piping Assemblies

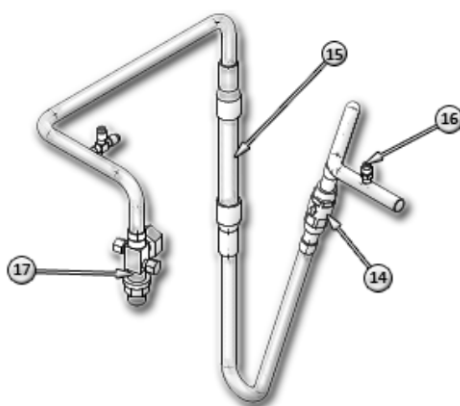
9.3.1. Discharge Assembly CR035W



DISCHARGE ASSY CR035RW

Item	Part Number	Description	Quantity
13	182132P2	VALVE ROTOLOCK 1-1/4-12X 7/8	1
15	P02-0270	VALVE ACCESS BODY 1/4X SWT	2
16	257353P1	ABSORBER VIBRAT 7/8"X11-1/2"	1

9.3.2. Discharge Assembly CR020W



DISCHARGE ASSY CR020RW

Item	Part Number	Description	Quantity
14	W-0093	VALVE CHECK 5/8" OD	1
15	257353P2	ABSORBER VIBRAT 5/8"X9-3/4"	1
16	P02-0270	VALVE ACCESS BODY 1/4X SWT	2
17	151141P1	VALVE ROTOLOCK 5/8"X1"-14UNS	1

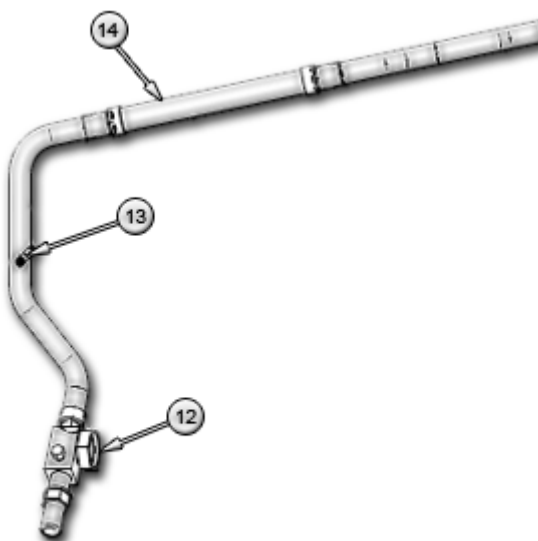
9.3.3. Expansion Assembly CR020 / CR035



EXPANSION ASSY CR020/CR035

Item	Part Number	Description	Quantity
12	P02-0270	VALVE ACCESS BODY 1/4X SWT	1

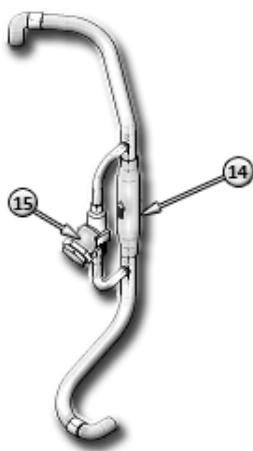
9.3.4. Suction Assembly CR020 / CR035



SUCTION ASSY CR020/CR035

Item	Part Number	Description	CR020	CR035
12	182132P2	VALVE ROTOLOCK 1-1/4-12X 7/8	1	
	182132P1	VALVE ROTOLOCK 1-3/4-12X1-1/8		1
13	P02-0270	VALVE ACCESS BODY 1/4X SWT	1	1
14	257353P3	ABSORBER VIBRAT 1-1/8"X13"		1
	257353P2	ABSORBER VIBRAT 5/8"X9-3/4"	1	

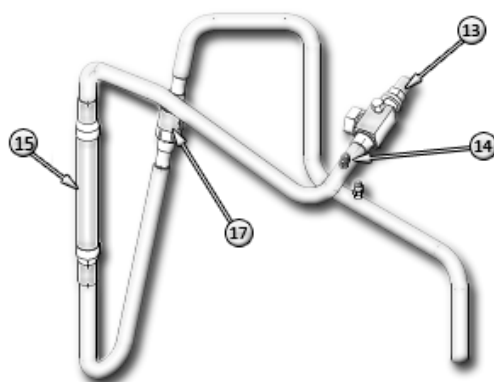
9.3.5. COND-LR Assembly CR020 / CR035



COND-LR ASSY CR020/CR035

Item	Part Number	Description	CR020	CR035
14	W-0091S	VALVE CHECK 1/2" OD	1	
	W-0093S	VALVE CHECK 5/8" OD		1
15	167770P1S	VALVE CHECK 3/8" OD SPRING	1	1

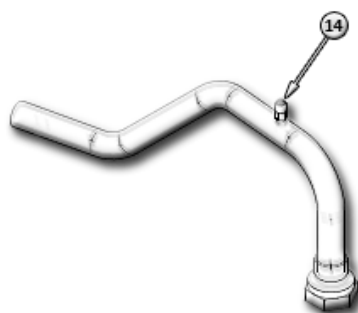
9.3.6. Discharge Bottom Assembly CR020 / CR035



DISCHARGE BOTTOM ASSY CR020/CR035

Item	Part Number	Description	Voltage	CR020	CR035
13	182132P2	VALVE ROTOLOCK 1-1/4-12X 7/8	-		1
	151141P1	VALVE ROTOLOCK 5/8"X1"-14UNS	-	1	
14	P02-0270	VALVE ACCESS BODY 1/4X SWT		2	2
15	257353P1	ABSORBER VIBRAT 7/8"X11-1/2"	-		1
17	W-0090S	VALVE CHECK 7/8" OD	-		1
	W-0093S	VALVE CHECK 5/8" OD	-	1	

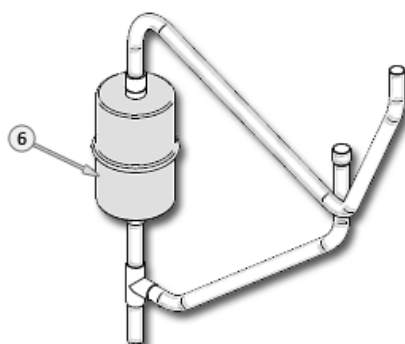
9.3.7. Water Cond Out BTM CR020 / CR035



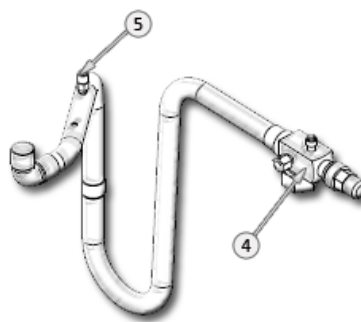
WATER COND OUT BTM CR020/CR035

Item	Part Number	Description	CR020	CR035
14	P02-0270	VALVE ACCESS BODY 1/4X SWT	1	1

9.3.8. CRV019 Sub Assemblies



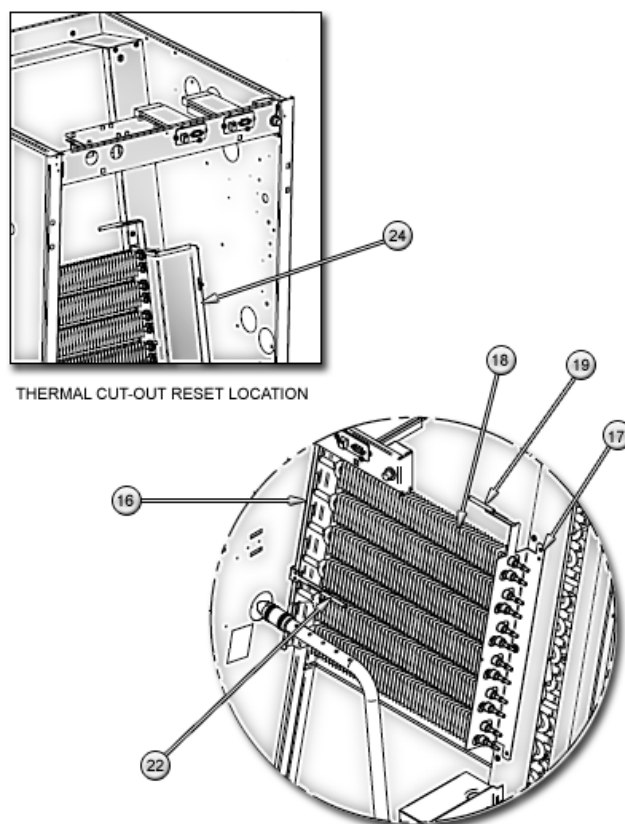
PIPING LIQUID ASSEMBLY



PIPING SUCTION ASSEMBLY

Item	Part Number	Description	Quantity
4	151141P2	VALVE ROTOLock 7/8"X1-1/4"-12	1
5	P02-0270	VALVE ACCESS BODY 1/4X SWT	1
6	178082P1S	FILTER/DRIER 1/2" SOLDER	1

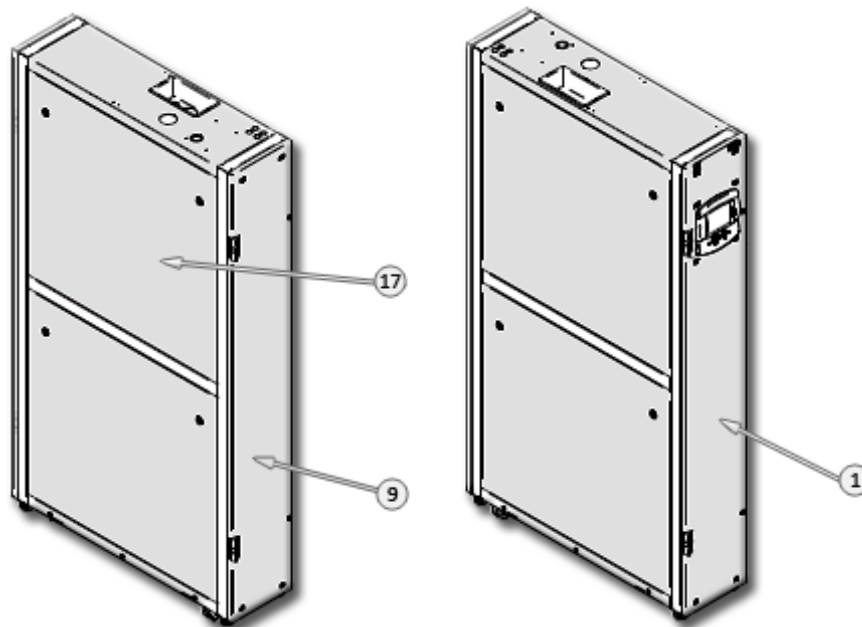
10. Reheat Section



Item	Part Number	Description	Voltage	Quantity
16	300868P1	BRACKET HEATERS LEFT LNA	-	1
17	300913P1	BRACKET HEATERS RIGHT LNA	-	1
18	257510P3	HEATER 1KW 208V	208V	6
	257510P2	HEATER 1KW 277V	460V	6
19	257332P1	THERMAL CUT-OUT MANUAL RESET	-	1
22	257331P1	THERM.TR2 0-86DEGC 540350/B4	-	1
24	191914P1	HEATER BRACKET SHIELD	-	1

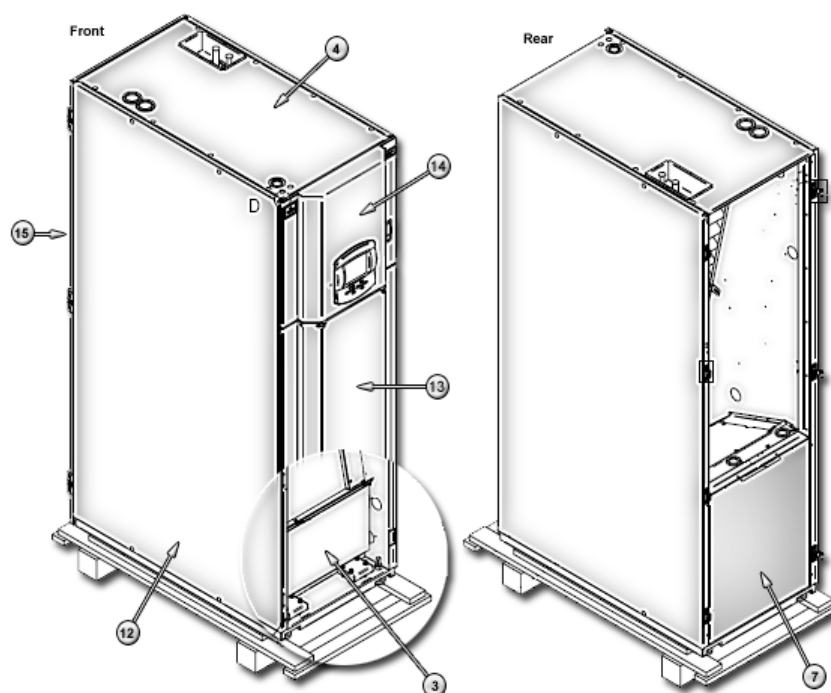
11. Exterior Section

11.1. CRV019/CRV032



Item	Part Number	Description	CR019	CR032
1	314999G1A	ASSY DOOR FRONT CRV300	1	1
9	314999G2A	ASSY DOOR REAR CRV300	1	1
	314999G2A	ASSY DOOR REAR CRV300 LIFTOFF		1
17	315014G1A	PANEL EXTERIOR ASSY CRV300	4	4

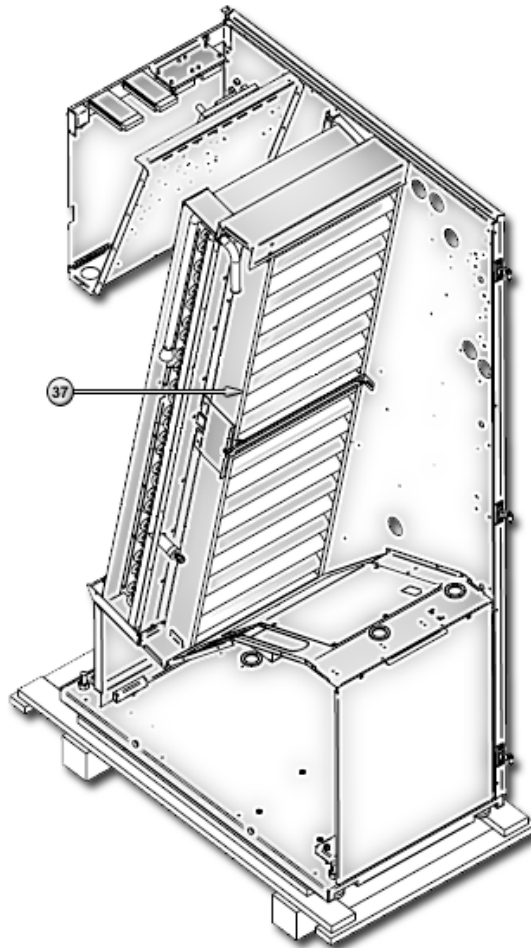
11.2. CRV020 – CRV035



Item	Part Number	Description	Quantity
3	257043P1	PANEL ACCESS FRONT CRV	1
	191941P1	PANEL ACCESS FRONT CRV LNA	1
4	191931G1S	PAN TOP ASSY CRV	1
7	257044P1S	PANEL ACCESS BACK CRV	1
12	191938G1S	PANEL ASSY EXT SIDE CRV LNA	2
	257006P1	PANEL SIDE INTR CRV	2
	257024G1	PANEL SIDE EXT ASSY CRV	2
13	300652G1S	ASSY BAFFLES PANEL TOP VENT	1
14	300650G1S	DOOR ICOM AIR DSCH ASSY LNA	1
15	257606G11S	BACK DOOR ASSY CRV	1

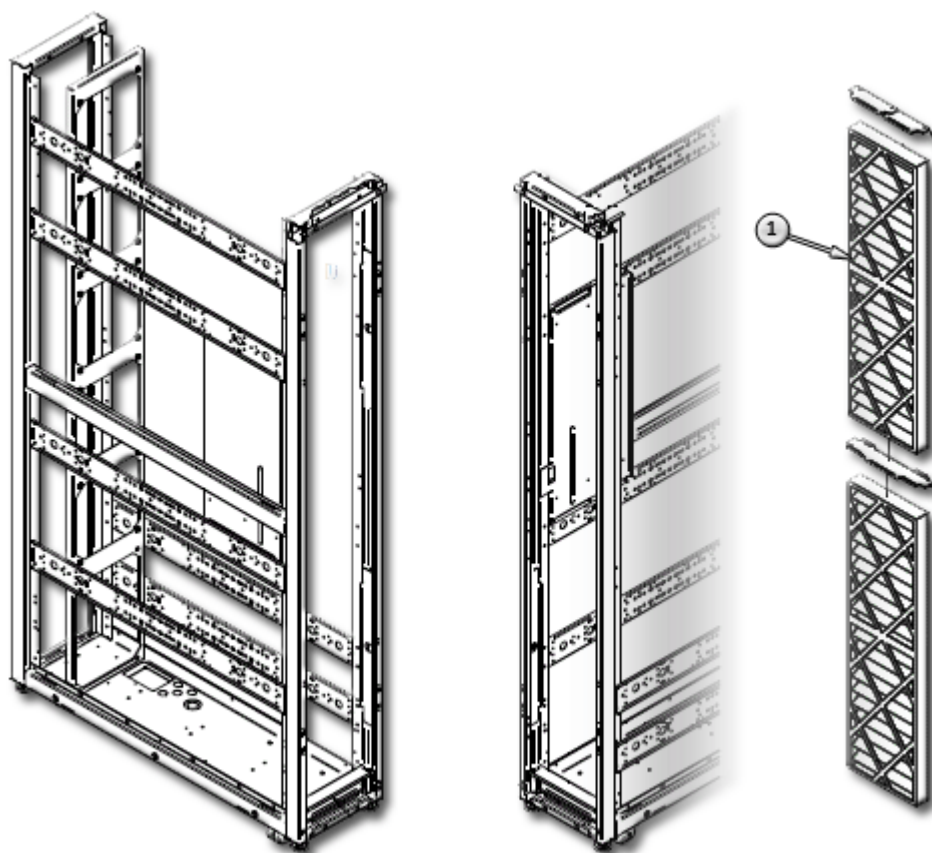
12. Filter Section

CRV020-035



Item	Part Number	Description	Quantity
37	196968P1	FILTER 4" 32X18 MERV 8	2
	196968P2	FILTER 4" 32X18 MERV 11	2
	315029P1	FILTER 35.5X10X2 MERV 8	2

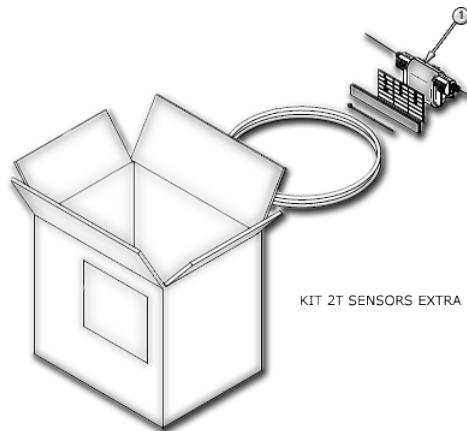
CRV019/CRV032



Item	Part Number	Description	Quantity
1	155419P4	FILTER FOAM WASHABLE 09.8X35.5	2
	315029P1	FILTER 35.5X10X2 MERV 8	2

13. Miscellaneous Section

13.1. Sensor

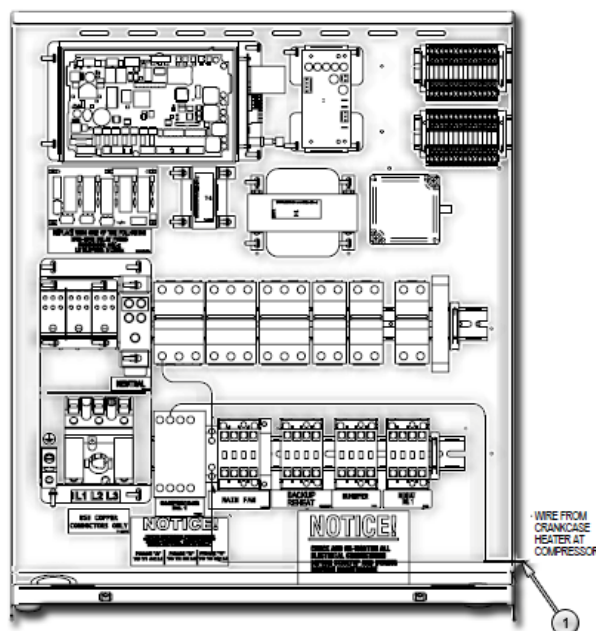


KIT 2T SENSORS EXTRA

Part Number	Description	Quantity
191795G1S	ASSY 2T SENSOR ADDRESS #1	1
191795G2S	ASSY 2T SENSOR ADDRESS #2	1
191795G3S	ASSY 2T SENSOR ADDRESS #3	1

Item	Part Number	Description	Quantity
1	181464G3	SENSOR T/H ASSY 2T ICOM	1

13.2. Crankcase Heater



Item	Part Number	Description	Voltage	Quantity
1	134142P1S	HEATER C/CASE 240V 70W SCROLL	208V	1
	172147P1	HEATER C/CASE 240V 90W SMT SCR		1
	134142P2S	HEATER C/CASE 480V 70W SCROLL	480V	1
	172147P2S	HEATER C/CASE 480V 90W SMT SCR		2

14. Parts Gallery

Coil Section



Compressor Section



Electrical Section

			
1C18352P1S	1C18354P1	123281P1S	124503P1
			
127977P3S	134142P1S	135409P2S	135637P5
			
136202P2S	136221P1	136810P1S	136811P1
			
136821P12S	148039P1S	149117P1S	180632G6S
			
180792P2	180917P3	181464G1S	191785P13

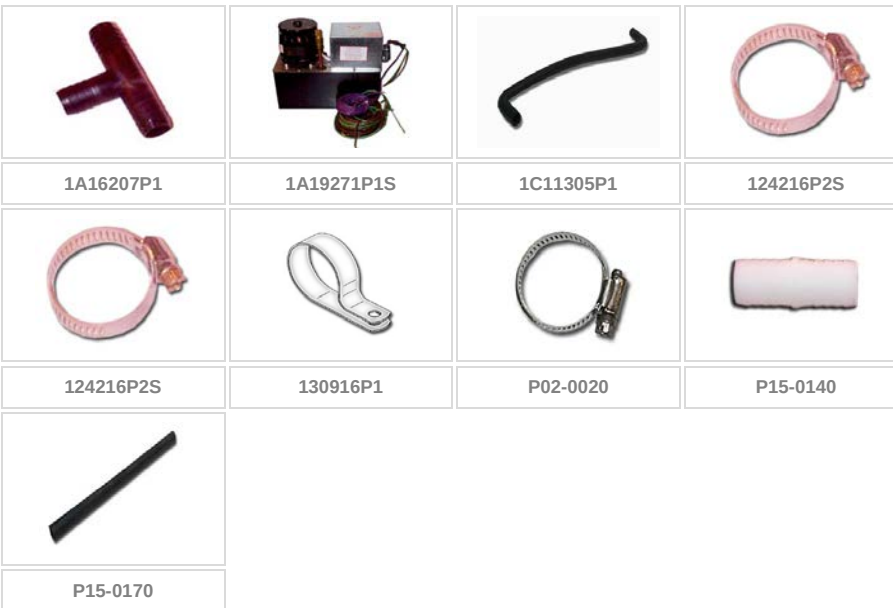
			
191786P10	200509P1	300784P1	416751G3S
			
416911G2S	417341G1S	E03-0170S	E-011AS
			
E-0110S	E-0130S	E-362B	E-2440S
			
IS-485L	318364P1S	318371P1	318365P1
			
318386P1			

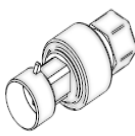
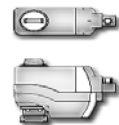
Exterior Section

			
191931G1A	191938G1A	257043P1	257044P1A
			
257606G11A	300652G1A	300650G1A	

Fan Section

	
191881P1S	191871G1

Filter Section**Humidifier Section****Miscellaneous Section****Piping Section**

			
191792P1	191847P1	197871P1	197922G1
			
257260P2S	257270P1	257271P1	257296P1
			
257340P1S	257353P1	257371P1	257382P2
			
P02-0270	P02-0290	W-0090S	W-0091S
			
W-0093S	W-0330	199723P2	303916P1

Reheat Section

			
191914P1	257331P1	257510P3	300868P1
			
300913P1			

15. Revision Page

Revision Date	Modification	Details
07/2016	Modified part numbers	All Section
02/2016	Electrical Section	Added Color Touch Display
02/2015	All	Added CRV032
10/20/2014	All	Added CRV019
09/2013	Coil Section	Added New Coil Part numbers
07/31/2013	Model Number Breakdown	Changed model number breakdown
10/2012	New BOM	BOM Update and layout conversion.
05/2010	Electrical Section Piping Section Fan Section Humidifier Section Compressor Section	<u>Electrical Section:</u> EP BackPanel 208V/460V - corrected item 5 part number, changed item 6 part number, added item 2 EP Disconnect - added item 1 Intellislot - changed part number of item 8 and 9 <u>Piping Section:</u> CW - added item 23 Mech View 1 - changed part number of item 3, changed quantity of filter drier Mech View 2 - added 275330P2 on item 19 Mech View 3 - added item 52 and 82 <u>Fan Section:</u> Added item 7 <u>Humidifier Section:</u> Added hose clamps <u>Compressor Section</u> Added Sound Jacket
03/2010	Miscellaneous Section	Added Kit 2T Sensors Extra
02/2010	Manual Release	