
Challenger 3000 w/ iCOM



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1. Product Description	1
2. Model Number Definition	2
3. Blower / Motor Section	3
3.1. Blower	3
3.2. Motor.....	3
4. Coil Section	5
4.1. 3T Upflow.....	5
4.1.1. Chilled Water	5
4.1.2. R-407C.....	5
4.2. 3T Downflow.....	7
4.2.1. Chilled Water	7
4.2.2. R-407C.....	7
4.3. 5T Upflow.....	8
4.3.1. Chilled Water	8
4.3.2. R-407C.....	8
4.4. 5T Downflow.....	9
4.4.1. Chilled Water	9
4.4.2. R-407C.....	9
5. Compressor Section	10
5.1. Scroll.....	10
5.2. Digital Scroll.....	11
6. Condenser Section	12
7. Electrical Section	14
7.1. EP Controls.....	14
7.2. EP Display	15
7.3. EP Compressor.....	16
7.4. EP Backpanel	18
7.5. EP Humidifier	21
7.6. EP Fan Coil	23
7.7. EP Motor	24
7.8. EP Reheat	26
7.9. EP SCR Reheat.....	28
7.10. EP Extra Common Alarm	29
7.11. EP Compressor / Main Fan Overload	30
7.12. EP Reheat Humidifier Lockout	31
7.13. EP Smoke Detector	32
7.14. EP Firestat	33
7.15. EP Disconnect.....	34
7.16. Terminal Strips	35
7.17. Intellislot	36
7.18. Smoke Detector.....	37
7.19. T/H Sensor / Remote Sensor	38
8. Exterior Section	39
8.1. Accent Panel.....	39
8.2. Upflow	40
8.3. Downflow	41
9. Filter Section.....	42
9.1. Upflow	42
9.2. Downflow	42

10. Humidifier Section	43
10.1. Drain Options	43
10.2. Infrared	44
10.2.1. IR Assembly	45
10.2.2. 009261 Socket Assembly	46
10.2.3. 035-0342 Hum Reset Safety	46
10.2.4. Valve Solenoid Autoflush	46
10.2.5. 009-0262 Socket Assembly	46
10.3. Steam Generating	47
10.3.1. Humidifier Canister	48
11. Piping Section	49
11.1. Chilled Water	49
11.1.1. Upflow: Chilled Water	49
11.1.2. Upflow: CW HP w/ HWRH	50
11.1.3. Upflow: CW High Pressure	51
11.1.4. Upflow: CW w/ HWRH	52
11.1.5. Upflow: CW w/ FS	53
11.1.6. Downflow: Chilled Water	55
11.1.7. Downflow: CW High Pressure	56
11.1.8. Downflow: CW w/ Hot Water Reheat	57
11.1.9. Downflow: CW HP w/ HWRH	58
11.1.1. Downflow: CW w/ FS	59
11.2. Air Cooled	61
11.2.1. Suction Line Assembly 3/5T	63
11.2.2. Liquid Line Assembly 3T A D/U (14142G1)	63
11.2.3. Discharge Line Assembly D/U	64
11.2.4. Hot Gas ASM 3/5T (141141G1)	64
11.2.5. Discharge Line Assembly (179738G2)	65
11.2.6. Digital Solenoid Valve Assembly	65
11.3. Water/Glycol	66
11.3.1. Water/Glycol Cooled POE	66
11.3.2. Liquid Line Assembly 3T D/U 3000 (141143G1)	67
11.3.3. Liquid Line Assembly ½ (196665G1-G2)	67
11.3.4. Discharge Line Assembly 3T/5T C3000	68
11.3.5. Water/Glycol Cooled R-407C	69
11.3.6. Digital Solenoid Valve Assembly	70
11.3.7. Hot Gas Reheat	71
11.3.8. Suction Assembly (196088G1)	72
11.4. Glycol Cooled	73
11.4.1. Standard/High Pressure	73
11.4.2. Suction Line Assembly (196693G1)	74
11.4.3. Digital	75
11.4.4. Suction Line Assembly 5T Upflow (196693G1)	76
11.4.5. Scroll	76
11.5. Evaporator	78
11.5.1. Upflow	78
11.5.2. Downflow	79
11.5.3. Suction Line Assembly 3T/5T Evap Upflow (141144)	80
11.5.4. Liquid Line Assembly 3T/5T Evap Upflow (141145)	81
11.5.5. Suction Assembly (196835G1)	82
11.5.6. Liquid Assembly (196836G1)	83
12. Reheat Section	84
13. Parts Gallery	85
14. Revision Page	92

1. Product Description

Liebert Challenger 3000 is available in 10.5 and 17.5 kW (3 and 5 tons) capacities, 60 Hz and 50 Hz models. Air cooled, water cooled, glycol cooled, GLYCOOL™ and chilled water configurations. Upflow and downflow models available.

Flexibility:

Liebert iCOM controls are available in large and small graphic models, to provide the level of information and control needed for unique IT spaces.

Self-contained systems available with energy efficient Digital Scroll compressor.

Provides enhanced temperature control with optional SCR-controlled reheat.

Reduces noise levels within the room unit, when installed as a split system with remotely located compressor and condenser.

Higher Availability:

Features reliable refrigeration components, such as digital scroll or scroll compressor, A-Frame evaporator coil, all factories pre-piped, wired, and tested in a rugged, easy-access tubular-steel frame.

Lowest Total Cost of Ownership:

Utilizes digital scroll or scroll compressor for energy efficiency.

Minimizes short cycling and other wasteful operating patterns with fast response microprocessor controls.

iCOM controls are proven to improve energy efficiency, with teamwork and zone configurations.

Ideally Suited For:

Laboratories and medical imaging suites

Telecommunications switching offices

Industrial process control

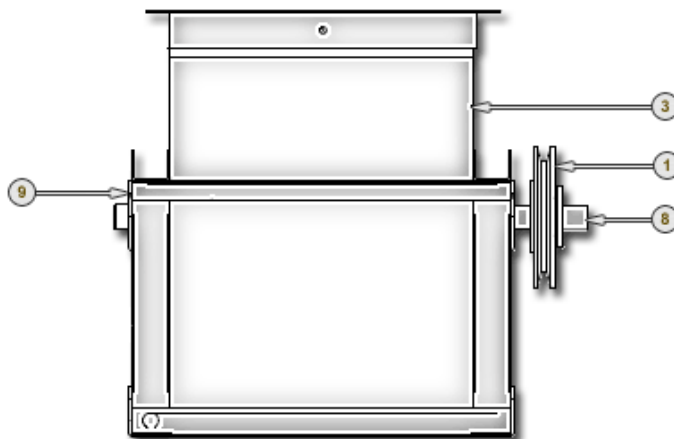
Data centers

2. Model Number Definition

B	F	042	A	D	A	M	E	I
Challenger 3000	E = Downflow with Econ-O-Coil	Nominal capacity in thousand BTUH	A = Air Cooled	• = Chilled Water	A = 460/60/3	M = Small Graphic iCOM Display	0 = No Reheat	0 = Infrared Humidifier
Challenger ITR	F = Downflow		C = Chilled Water	S = Standard Scroll Compressor, R-407C	B = 575/60/3		E = Electric Reheat	S = Steam Generating Humidifier
	K = Upflow with Econ-O-Coil		E = Evaporator		C = 208/60/3	D = Large Graphic iCOM Display	H = Hot Water Reheat (CVW Only)	
	U = Upflow		G = Glycol	D = Digital Scroll, R-407C	D = 230/60/3		G = Hot Gas Reheat	
	R = ITR Horizontal Flow		W = Water Cooled/Glycol Cooled	7 = R-407C Evap	-----		S = SCR Reheat	
	M = ITR Horizontal Flow with Econ-O-Coil				J = 200/50/3			
					H = 230/50/3			
					M = 380/415/50/3			

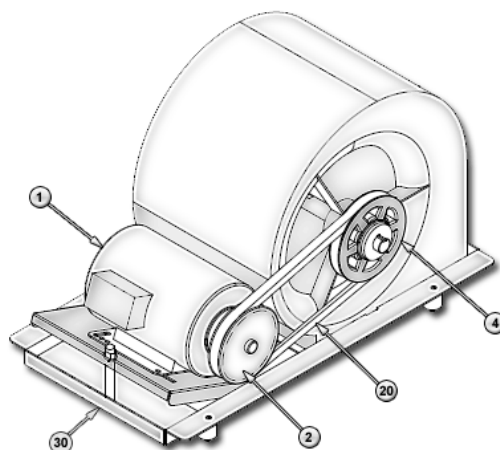
3. Blower / Motor Section

3.1. Blower



Item - Type	Part #	Description	Type	3T	5T
1	B-0080	BUSHING PULLEY H 1"DIA	-	1	1
3	136589P1	BLOWER W/H A12-06ATX1.00 CL2	-	1	1
	136590P1	BLOWER W/H A12-09ATX1.00 CL2	-	1	1
8	136591P1	SHAFT 19.25 X 1.00 CLASSII	-	1	1
9	197699P1	BEARING PILLOW BLOCK 1" DIA	-	2	2

3.2. Motor



Item	HP	Part #	Description	Quantity
1	.75HP	1A21868P1	MOTOR .75HP 208//460-3-60 HIE	1
		B13-0260	MOTOR .75HP 208-3-60 INTOL	1
		B13-0270	MOTOR .75HP 230/460-3-60	1
		136746P1	MOTOR .75HP 575 HI EFF	1
		B13-0280	MOTOR .75HP 575-3-60 INTOL	1
	1HP	B-1720	MOTOR 1.0HP 200/208-3-60 E+	1
		B-0900	MOTOR 1.0HP 200/380/400-3-50	1
		B13-0290	MOTOR 1.0HP 208-3-60 INTOL	1
		B-1080	MOTOR 1.0HP 220/380-3-50	1
		B13-0300	MOTOR 1.0HP 230/460-3-60	1
		B-1730	MOTOR 1.0HP 230/460-3-60	1
		B-2200	MOTOR 1.0HP 380-3-60	1
		136746P2	MOTOR 1.0HP 575 HI EFF	1

Challenger 3000 w/ iCOM

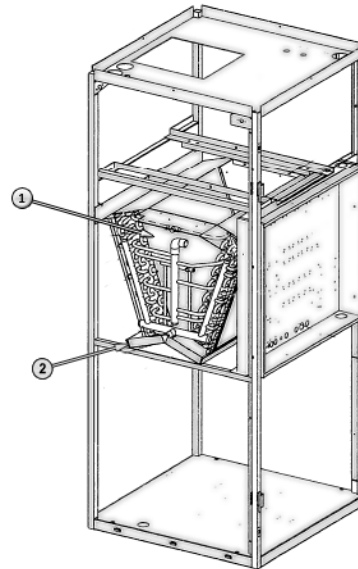
Item	HP	Part #	Description	Quantity
	1.5HP	B13-0310	MOTOR 1.0HP 575-3-60 INTOL	1
		B-2210	MOTOR 1.5HP 190/380-3-60	1
		B-1740	MOTOR 1.5HP 200/208 E+ OPD	1
		B-0910	MOTOR 1.5HP 200/380/400-3-50	1
		B-1090	MOTOR 1.5HP 220/380-3-50	1
		B-1750	MOTOR 1.5HP 230/460 E+ OPD	1
		136746P3	MOTOR 1.5HP 575 HI EFF	1
		B13-0320	MOTOR 1.5HP 208/230-3-60 INTOL	1
		B13-0330	MOTOR 1.5HP 230/460-3-60	1
		B13-0340	MOTOR 1.5HP 575-3-60	1
		160630P1	MTR 1.5HP 208-230/460 & 190/380	1
	2HP	B-1760	MOTOR 2.0HP 200/208-3-60 E+	1
		B-0920	MOTOR 2.0HP 200/380/400-3-50	1
		B-022A	MOTOR 2.0HP 208/230/460-3-60	1
		B-1100	MOTOR 2.0HP 220/380-3-50	1
		B-1770	MOTOR 2.0HP 230/460-3-60	1
		136746P4	MOTOR 2.0HP 575 HI EFF	1
	3HP	B-023A	MOTOR 2.0HP 575-3-60	1
		B-025A	MOTOR 3.0HP 208/230/460-3-60	1
		B-026A	MOTOR 3.0HP 575-3-60	1

Item	Part #	Description	Quantity
2	B-0660	SHEAVE 1VP56X7/8	1
	B-005A	SHEAVE 1VP50X7/8	1
	136944P1	SHEAVE 1VP50X1-1/8	1
	136945P1	SHEAVE 1VP56X1-1/8	1
	B13-0120	SHEAVE 1VP44X7/8	1
	B13-0110	SHEAVE 1VP40X7/8	1
	B13-0080	SHEAVE 1VP34X5/8	1
	183106P1	SHEAVE AK71H	1
	183107P1	SHEAVE AK74H	1
	B-0810	SHEAVE 1VP44X5/8	1
4	B13-0090	SHEAVE 1VP34X7/8	1
	183105P1	SHEAVE AK66H	1
	183106P1	SHEAVE AK71H	1
	B13-0150	PULLEY AK61H	1
20	183107P1	SHEAVE AK74H	1
	B13-0200	BELT A-36	1
	B13-0210	BELT A-37	1
	128179P1	BELT A-38 "V" BELT	1
	B13-0220	BELT A-39	1
	B13-0250	BELT A-40	1
	B13-0230	BELT A-41	1
	B-1690	BELT A-36	1
	B-0550	BELT A-42	1
	B-0600	BELT A-38	1
30	B13-0240	BELT A-42	1
	B-1490	BELT A-34	1
	136610P1	BASE MOTOR MTG	1
	136983P1	PLATE MTG MTR C3000 ICS	1

4. Coil Section

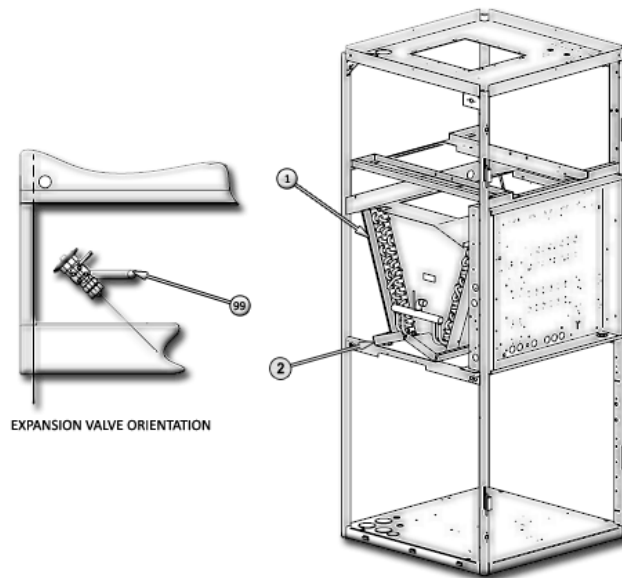
4.1. 3T Upflow

4.1.1. Chilled Water



Item	Part #	Description	Quantity
1	136653G4	COIL CW ASSY C3000 U	1
	136653G2P	COIL CW ASSY C3000 U HERESITE	1
	136688G4	COIL CW ASSY 3T W/HWRH U	1
2	136631G1	PAN DRAIN COIL U C3000	1

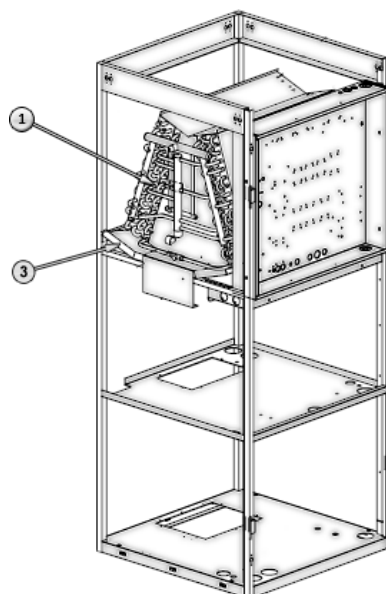
4.1.2. R-407C



Item	Part #	Description	Quantity
1	195621G4	COIL DX ASSY 3T HW/HG U RIF	1
	195617G4	COIL ASSY 3T DX U RIFLED	1
	195617G2P	COIL ASSY 3T DX U RIFLED	1
2	136631G1	PAN DRAIN COIL U C3000	1
99	128157P1	VALVE EXP 1/2X5/8X1/4ODF 3T	1

4.2. 3T Downflow

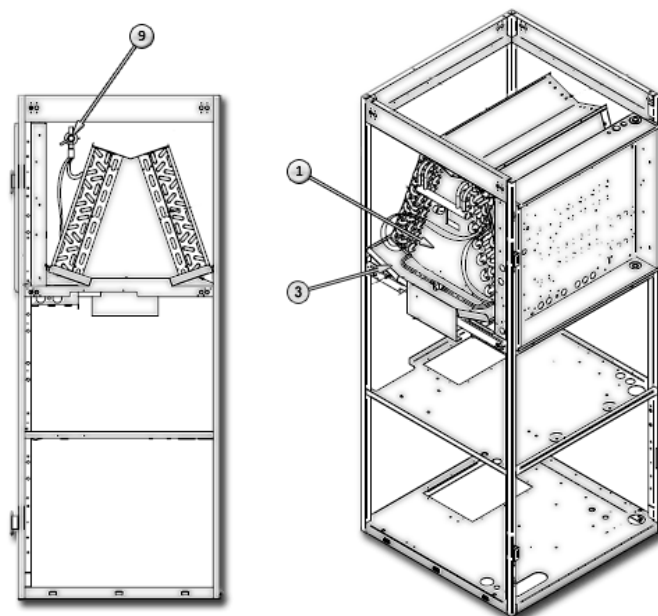
4.2.1. Chilled Water



COIL OPTION CHILLED WATER DOWNFLOW

Item	Part #	Description	Quantity
1	136653G1	COIL CW ASSY C3000 D	1
	136653G3P	COIL CW ASSY C3000 D LIBCOTED	1
	136688G1	COIL CW ASSY 3T W/HWRH D	1
3	136778G1	PAN DRAIN COIL C3000	1

4.2.2. R-407C

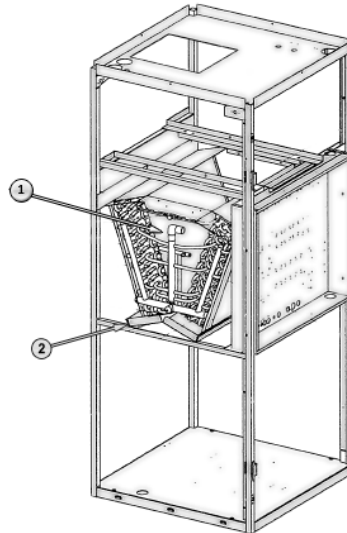


COIL OPTION DOWNFLOW RIFLED

Item	Part #	Description	Quantity
1	195621G1	COIL DX ASSY 3T HW/HG D RIFLED	1
	195617G3P	COIL ASY 3T DX D W/LIBCOTE RIF	1
	195617G1	COIL ASSY 3T DX D RIFLED	1
3	136778G1	PAN DRAIN COIL C3000	1
9	128157P1	VALVE EXP 1/2X5/8X1/4ODF 3T	1

4.3. 5T Upflow

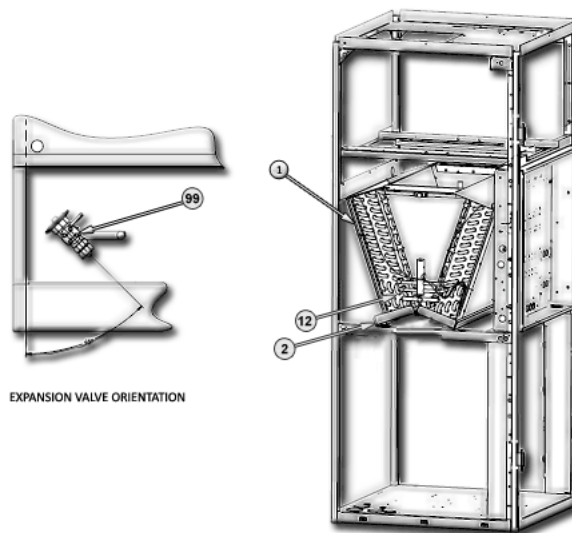
4.3.1. Chilled Water



COIL OPTION CHILLED WATER UPFLOW

Item	Part #	Description	Quantity
1	136977G4	COIL CW ASSY C3000 5T U	1
	136977G2P	COIL CW ASSY C3000 5T U HERE	1
	136689G4	COIL CW ASSY 5T W/HWRH U	1
2	136631G1	PAN DRAIN COIL U C3000	1

4.3.2. R-407C



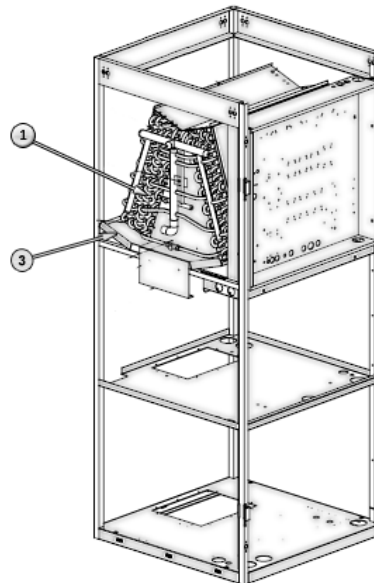
EXPANSION VALVE ORIENTATION

COIL OPTION 5T UPFLOW RIFLED

Item	Part #	Description	Quantity
1	194598G1	COIL ASSY 5T DX U	1
	194598G3P	COIL 5T DX U W/HERESITE RIF	1
	195583G1	COIL DX ASSY 5T U HW/HG RIFLED	1
	195586G8	COIL ASSY 5T UF GLYCOOL RIFLED	1
	195603G1P	COIL ASSY 5T UF GLYCOOL RIFLED	1
2	136631G1	PAN DRAIN COIL U C3000	1
12	P02-0290	VALVE CORE REFRIGERANT	1
99	128158P1	VALVE EXP 1/2X5/8X1/4ODF 5T	1

4.4. 5T Downflow

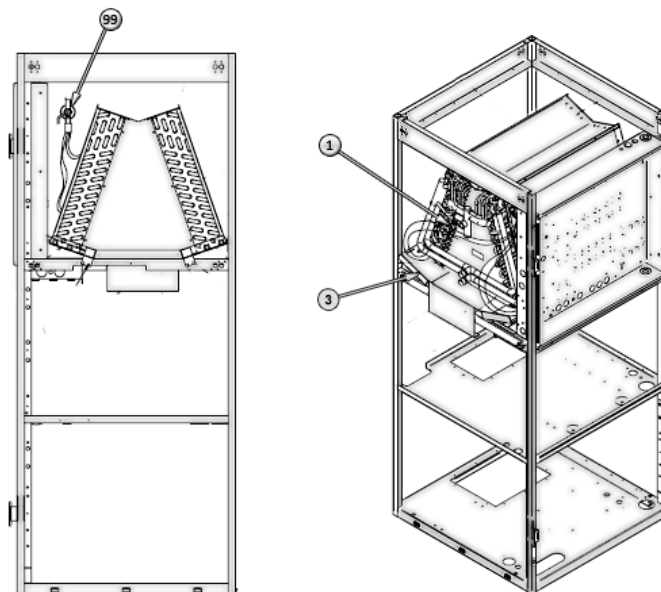
4.4.1. Chilled Water



COIL OPTION 5T CHILLED WATER DOWNFLOW

Item	Part #	Description	Quantity
1	136977G1	COIL CW ASSY C3000 5T D	1
	136977G3P	COIL CW ASSY C3000 5T D HERE	1
	136689G1	COIL CW ASSY 5T W/HWRH D	1
3	136778G1	PAN DRAIN COIL C3000	1

4.4.2. R-407C

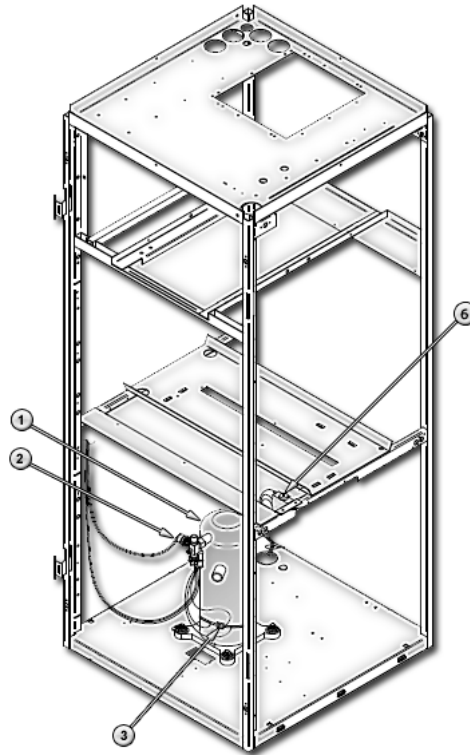


COIL OPTION 5T DOWNFLOW RIFLED

Item	Part #	Description	Quantity
1	194598G2	COIL ASSY 5T DX D	1
	194598G4P	COIL ASSY 5T DX D RIF W/HERE	1
	195583G2	COIL DX ASSY 5T D HW/HG RIFLED	1
	195586G7	COIL 5T DF RIF GLYCOOL C3000	1
	195677G2P	COIL 5T GLYCOOL D RIF W/LIBC	1
33	136778G1	PAN DRAIN COIL C3000	1
99	128158P3	VALVE EXP 1/2X5/8X1/4ODF	1

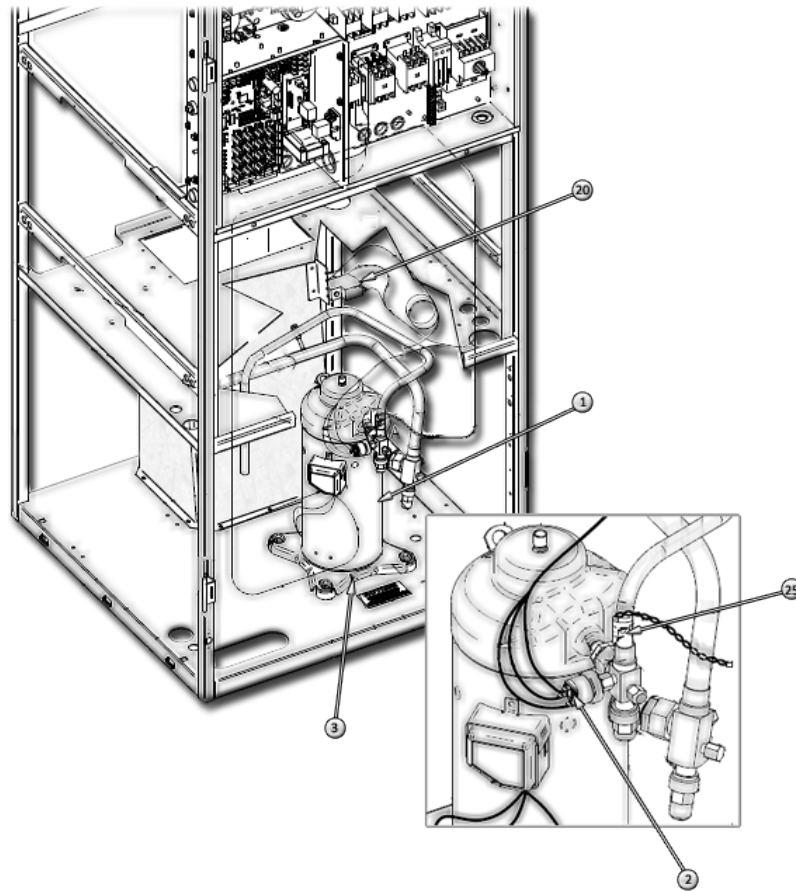
5. Compressor Section

5.1. Scroll



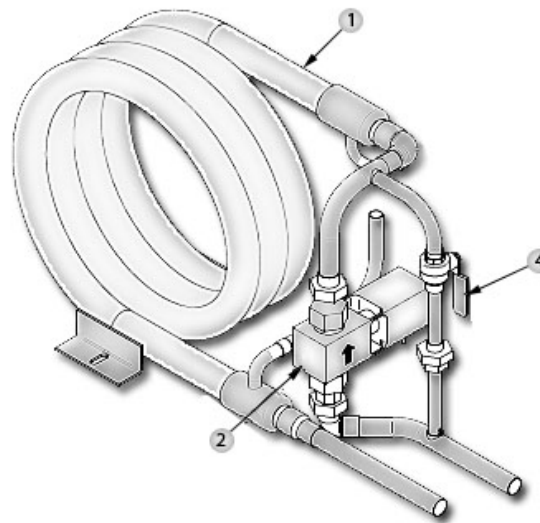
Item	Part #	Description	Voltage	Quantity
1 – 3T	176751P1	COMP SCRL ZR47KCE-TF5 W/O ROTA	200/235	1
	176751P2	COMP SCRL ZR47KCE W/O ROTA POE	380/420	1
	176751P5	COMP SCRL ZR47KCE-TF7 W/O ROTA	386	1
	179860P1	COMP SCRL ZR40K3E-TF5 W/ROTA	208/236	1
	179860P2	COMP SCRL ZR40K3E-TFD W/ROTA	460	1
	179860P3	COMP SCRL ZR40K3E-TFE W/ROTA	575	1
1 – 5T	169260P1	COMP SCRL ZR61KCE-TF5 W/ROTO	208/236	1
	169260P2	COMP SCRL ZR61KCE-TFD W/ ROTA	460	1
	169260P3	COMP SCRL ZR61KCE 575 W/ROTO	575	1
	169260P5	COMP SCRL ZR61KCE-TF7 W/ ROTA	386	1
	172139P1	COMP SCRL ZR72KCE-TF5 W/ ROTA	200	1
	172139P2	COMP SCRL ZR72KCE-TFD W/ROTA	380/420	1
2	180970P1	PRESS SW HP SPDTAR C/OUT 400PS	-	1
	1D14684P1	PRESS SW HI-LO 360/15-35 PSI	-	1
	1D16204P1	PRESS SW DUAL PRESSURE	-	1
3	132102P1	HEATER C/CASE 240V 40W SCROLL	-	1
	132102P2	HEATER C/CASE 480V 40W SCROLL	-	1
	132102P3	HEATER C/CASE 575V 40W SCROLL	-	1
	134142P1	HEATER C/CASE 240V 70W SCROLL	-	1
	134142P2	HEATER C/CASE 480V 70W SCROLL	-	1
	134142P3	HEATER C/CASE 575V 70W SCROLL	-	1
6	1D16206P1	SW PRES LOW 20/65PSI		1
	1D15059P1	SW PRES LOW 15/35PSI		1

5.2. Digital Scroll

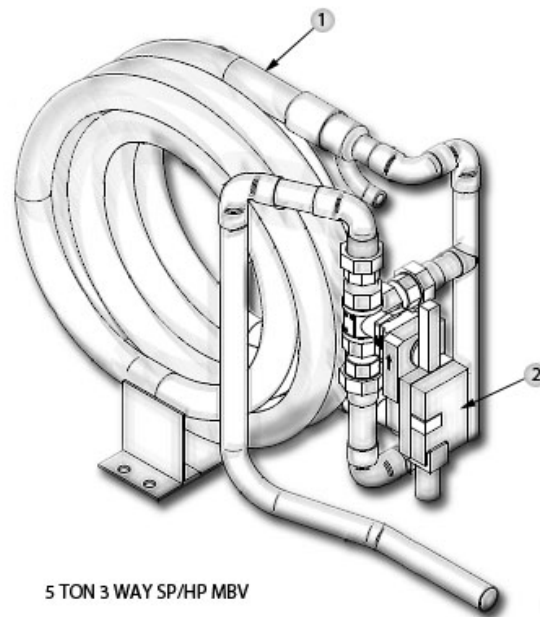


Item	Part #	Description	Quantity
1 – 3T	193788P1	COMP SCDG ZRD42KCE-TFD SWEAT	1
	180406P1	COMP SCDG ZRD49KCE-TF5 W/ ROTA	1
	180406P2	COMP SCDG ZRD49KCE-TFD W/ ROTA	1
1 – 5T	178013P1	COMP SCDG ZRD61KCE-TF5 W/ROTA	1
	178013P2	COMP SCDG ZRD61KCE-TFD W/ROTA	1
	178013P3	COMP SCDG ZRD61KCE-TFE W/ROTA	1
	178013P5	COMP SCDG ZRD61KCE-TF7 W/ROTA	1
	180407P1	COMP SCDG ZRD72KCE-TF5 W/ROTA	1
	180407P2	COMP SCDG ZRD72KCE-TFD W/ROTA	1
2	180970P1	PRESS SW HP SPDTAR C/OUT 400PS	1
3	132102P1	HEATER C/CASE 240V 40W SCROLL	1
	132102P2	HEATER C/CASE 480V 40W SCROLL	1
	134142P1	HEATER C/CASE 240V 70W SCROLL	1
	134142P2	HEATER C/CASE 480V 70W SCROLL	1
	134142P3	HEATER C/CASE 575V 70W SCROLL	1
20	1D15059P1	SW PRES LOW 15/35PSI	1
	1D16206P1	SW PRES LOW 20/65PSI	1
25	183151P1	SENSOR THERMISTOR ZRD94//125	1

6. Condenser Section



3 TON 2 WAY HP

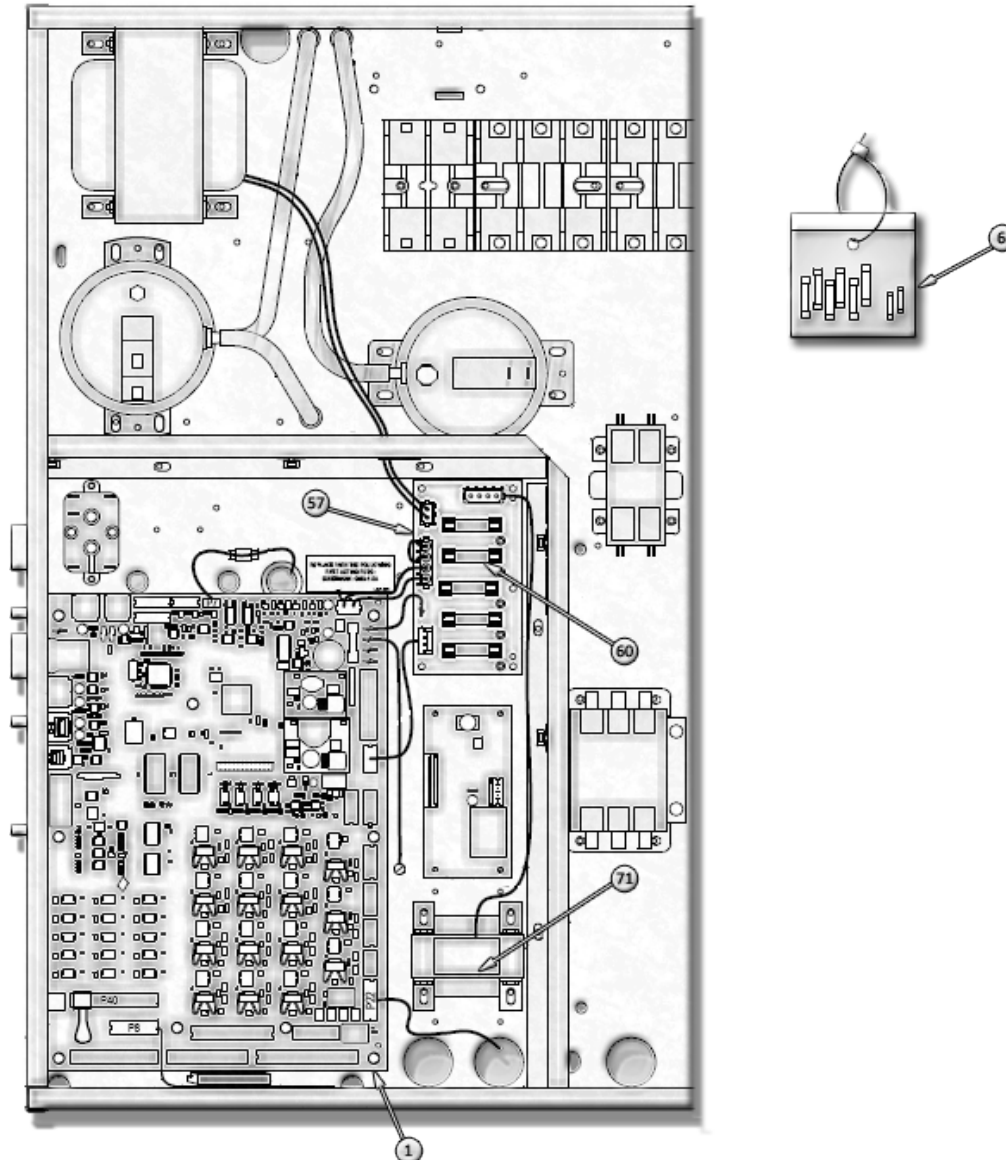


5 TON 3 WAY SP/HP MBV

Item	Part #	Description	Type	Quantity
1	128159P1	CONDENSER COAXIAL	-	1
	128159P2	CONDENSER COAXIAL 90/10 CU-NI	-	1
2	3T			
	136696P1	VALVE H2O REG 2WAY 3/4" UB	SP	1
	136698P1	VALVE H2O REG 3WAY 3/4" UB	SP	1
	185660P13	VALVE MBV 2W 1" BLM 24V	SP	1
	185661P13	VALVE MBV 3W SR BLM 24V	SP	1
	P-026A	VALVE H2O REG 2WAY 3/4" 350 #	HP	1
	P-4760	VALVE H2O REG 3WAY 3/4" 300 #	HP	1
	5T			
	131852P1	VALVE H2O REG 2WAY 1" UB	SP	1
	131853P1	VALVE H2O REG 3WAY 1" UB	SP	1
	185660P13	VALVE MBV 2W 1" BLM 24V	SP	1
	185661P13	VALVE MBV 3W SR BLM 24V	SP	1
	P-311A	VALVE H2O REG 2WAY 1" 300 #	HP	1
	P-311B	VALVE H2O REG 3WAY 1" 300 #	HP	1
4	1C14431P4	VALVE BALL BRONZE 1/2SWT F/P	-	1

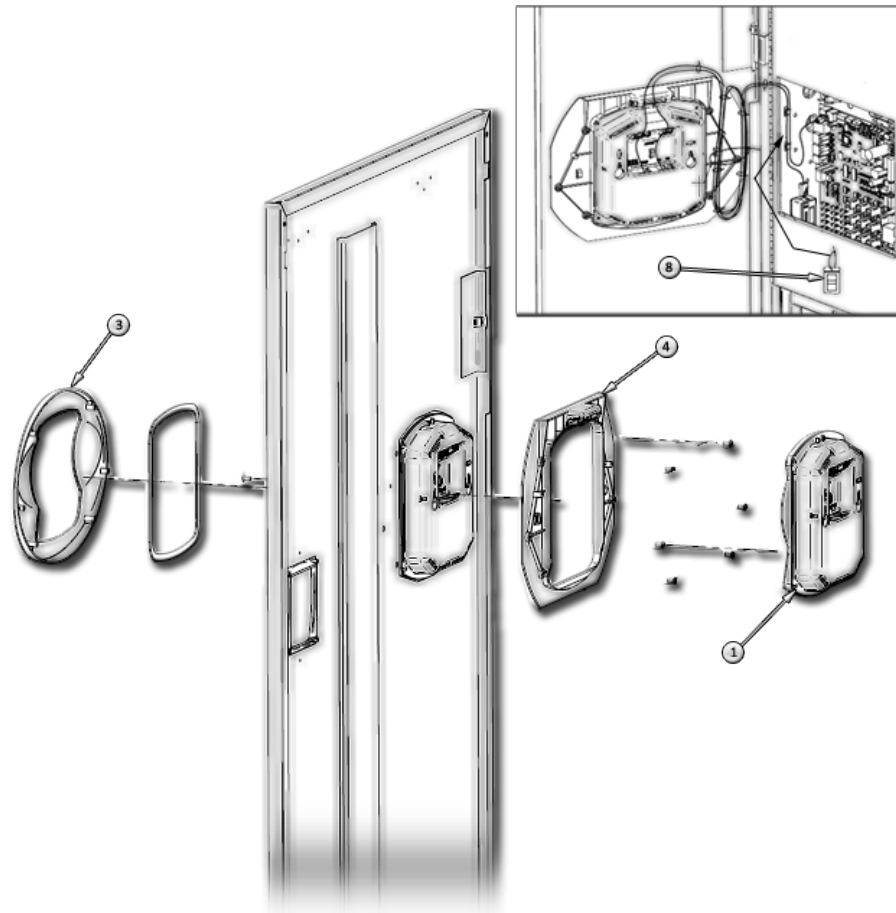
7. Electrical Section

7.1. EP Controls



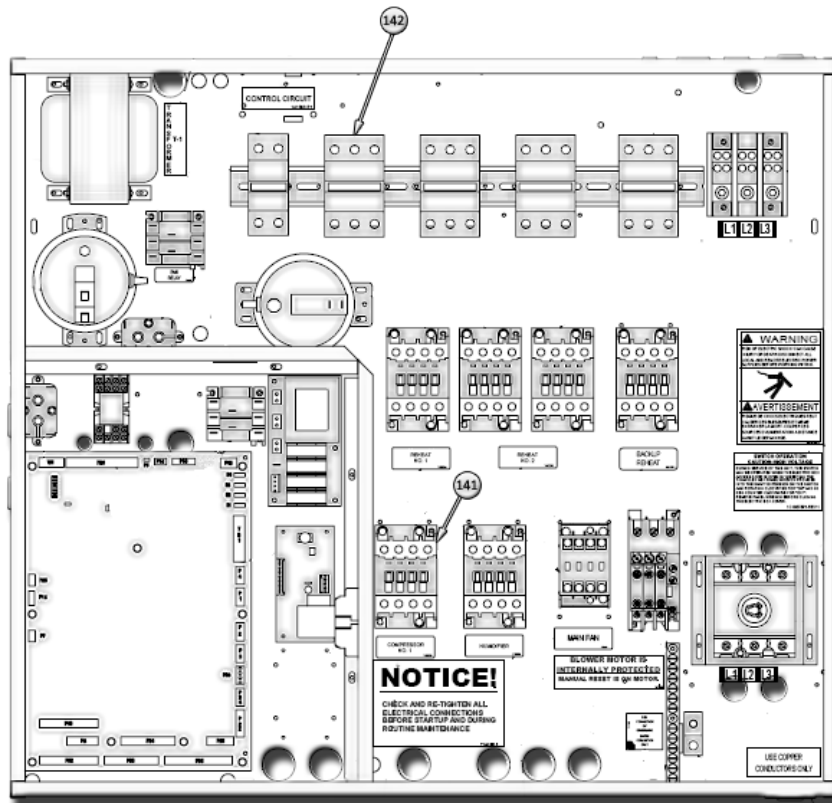
Item	Part #	Description	Quantity
1	416761G1	PWA ENV ICOM CTRL LARGE	1
6	135637P5	FUSE KIT QTY 6-4A/2-3A NON-TD	1
	135637P6	FUSE KIT QTY 6-6A/2-3A NON-TD	1
57	417341G1	PWA ENV GLOBAL FUSE BOARD	1
60	135409P2	FUSE GLASS 250V 4AMP .25X1.25	5 (60Hz)
	135409P3	FUSE GLASS 250V 6AMP .25X1.25	5 (50Hz)
71	180792P1	TRANSFORMER ISOLATION	1
	180792P2	TRANSFORMER ISOLATION 27VA	1

7.2. EP Display

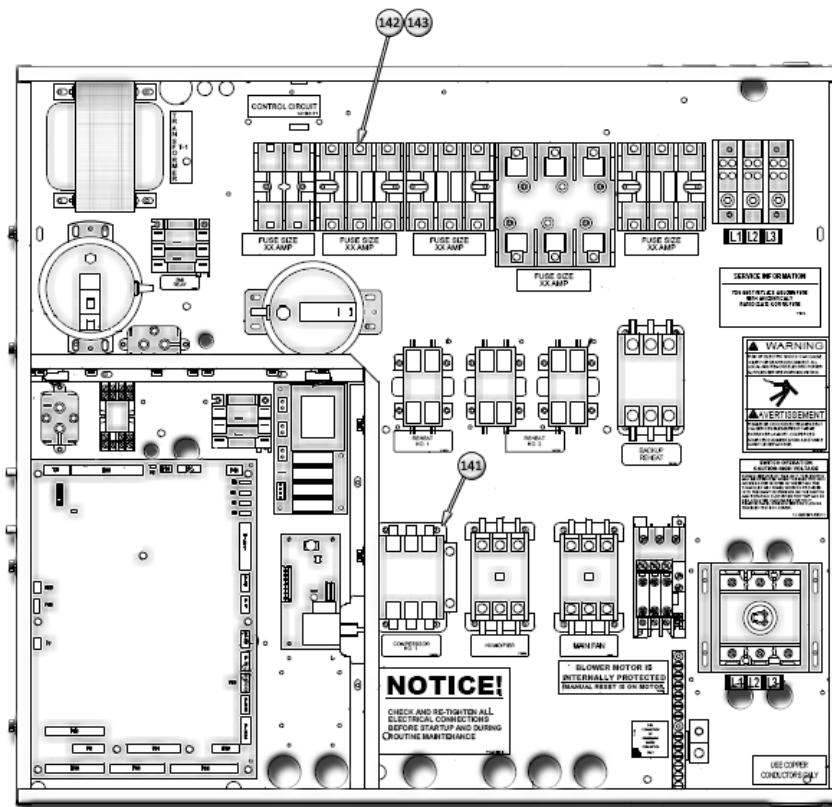


Item	Part #	Description	Quantity
1	180632G2	DISPLAY ASSY LRG GR LED GL	1
	180633G1	DISPLAY ASSY LRG SM GR ICOM	1
3	179747P2	DISPLAY BEZEL NO LOGO	1
4	179751P1	DISPLAY CRADLE LARGE GLOBAL	1
8	181898P1	COUPLER XOVER CAT5E RJ45 F/F	1

7.3. EP Compressor



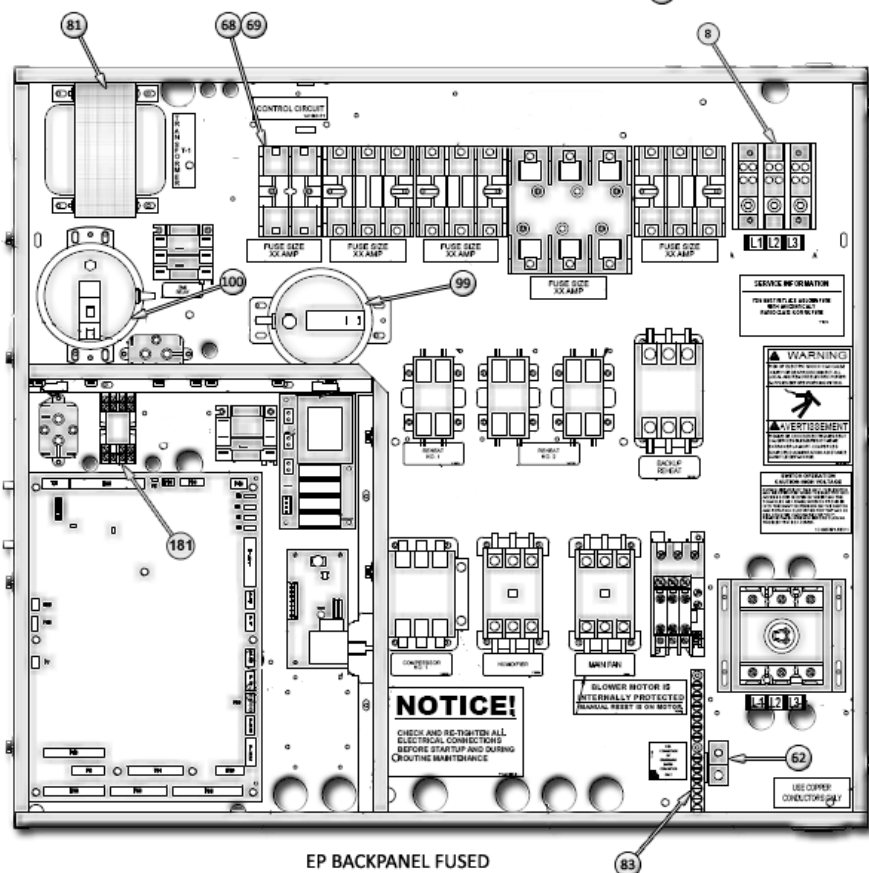
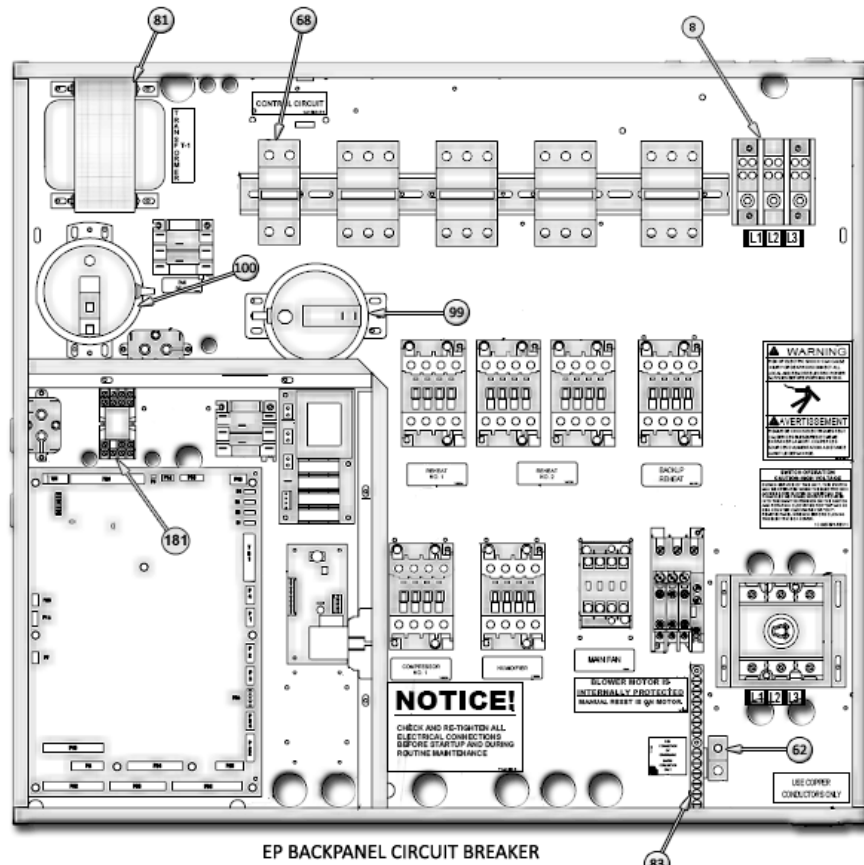
EP COMPRESSOR CIRCUIT BREAKER



EP COMPRESSOR CIRCUIT FUSED

Item	Part #	Description	Type	Voltage	CB	FUSED
141	136233P1	CONTACTOR 3P30IND40RES24/50AUX	-	200/230	1	
			-	380/415	1	
	123273P1	CONTACTOR 3PL 25/30 NO/NC AUX	-	200//230		1
			-	380//575		1
142	136241P10	CB MCB 3P 240/415V 16A K CURVE	-	380/415	1	
	136241P12	CB MCB 3P 240/415V 25A K CURVE	-	200/230	1	
	136241P13	CB MCB 3P 240/415V 32A K CURVE	-	200/230	1	
	136811P1	FUSEBLOCK BUSS JP600V 30A 3P	-	380//575		1
	E-1020	FUSEBLOCK 250V 3P 030A	-	200//230		1
143	136821P13	FUSE DUAL ELMNT "J" 600V 17.5A	-	380//575		3
	E-2080	FUSE DUAL ELMNT 250V 25.0AMP	-	200//230		3
	E-2090	FUSE DUAL ELMNT 250V 30.0AMP	-	200//230		3

7.4. EP Backpanel

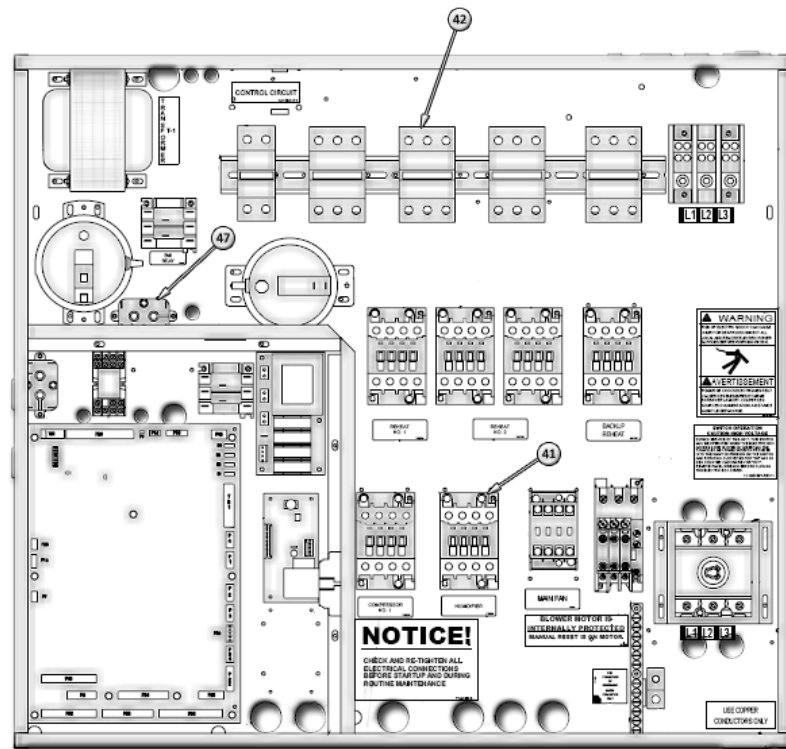


Item	Part #	Description	Voltage	CB	FUSED
62	E-362B	TERM LUG MECH #14-2/0 1/4"	200/230	1	1

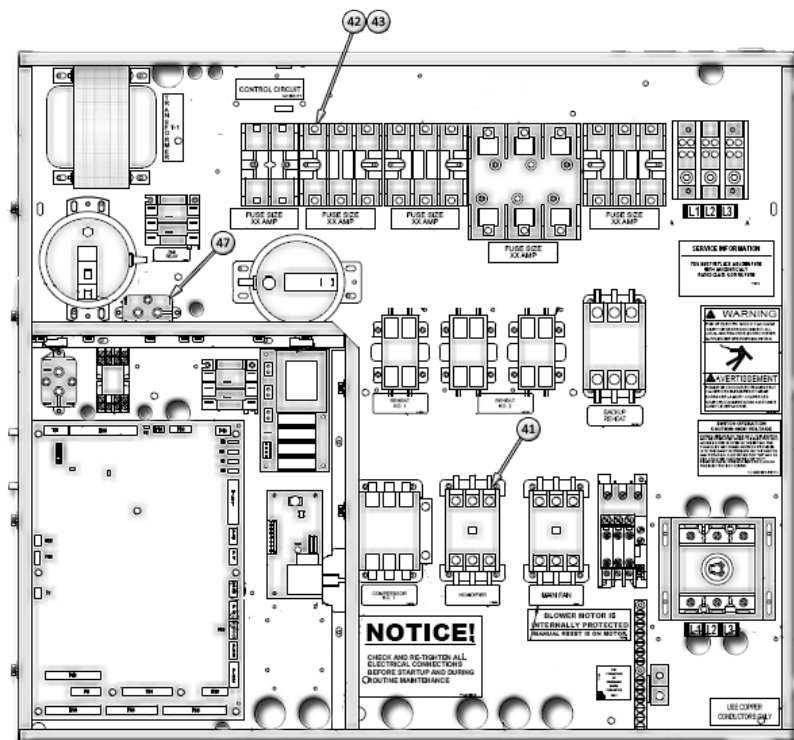
Challenger 3000 w/ iCOM

Item	Part #	Description	Voltage	CB	FUSED
			208/230		1
			380/415	1	1
			460		1
			460/575		1
68	136240P3	CB MCB 2P 240/415V 1.6A K CURV	380/415	1	
	136240P4	CB MCB 2P 240/415V 2A K CURVE	380/415	1	
	136240P5	CB MCB 2P 240/415V 3A K CURVE	200/230	1	
			380/415	1	
	136240P6	CB MCB 2P 240/415V 4A K CURVE	200/230	1	
	136240P7	CB MCB 2P 240/415V 6A K CURVE	200/230	1	
69	136821P3	FUSE DUAL ELMNT "J" 600V 2.0A	460/575	1	
			380/415		2
			460		2
	E-2030	FUSE DUAL ELMNT 250V 04.5AMP	460/575		2
81	136200P1	XFMR 150VA 460/615/2460	200/230	1	1
	136201P1	XFMR 200VA 200-240/2450	208/230		1
			380/415	1	1
	136201P2	XFMR 200VA 380-415/2450	460/575		1
	136201P3	XFMR 200VA 460-615/24V60	460		1
	136202P1	XFMR 300VA 460-615/2460	460/575		1
			200/230	1	1
	136202P2	XFMR 300VA 200-240/24V50/60	208/230		1
			380/415	1	1
	136203P1	XFMR 400VA 200-240/24V	200/230	1	1
83	E-3620	GROUND LUG STRIP 13POS SCRTRM	380/415	1	1
			200/230	1	1
			208/230		1
			460		1
99	B02-0190	SW AIRFLO SENSING	460/575		1
			200/230	1	1
			208/230		1
			380/415	1	1
100	128199P1	SW AIR DIFFERENTIAL 2PORTS	460		1
			460/575		1
			200/230	1	1
			208/230		1
			380/415	1	1
			460		1
			460/575		1
			200/230	1	1

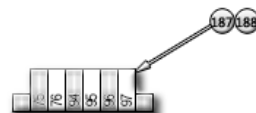
7.5. EP Humidifier



EP HUMIDIFIER CIRCUIT BREAKER

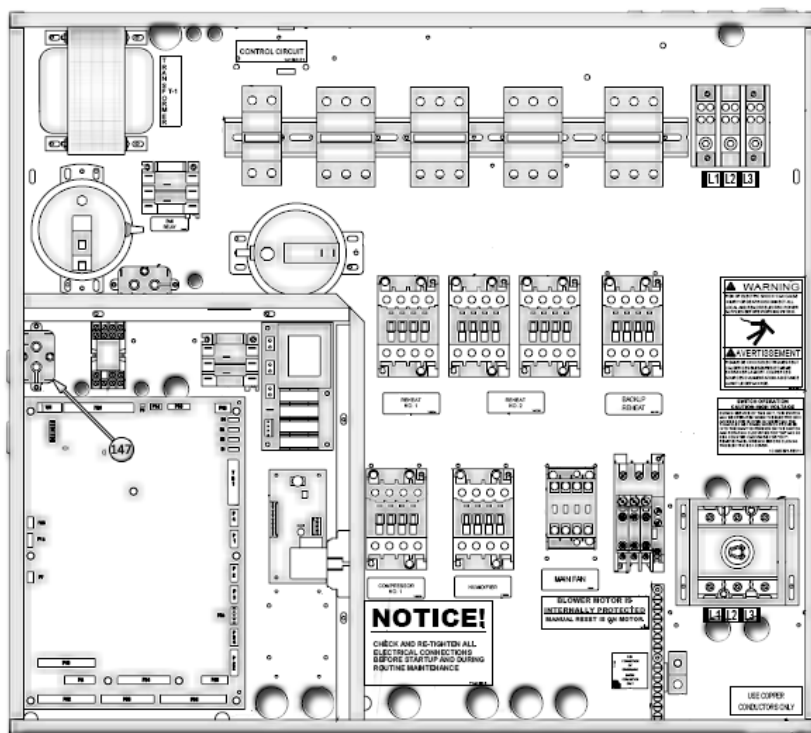


EP HUMIDIFIER FUSED

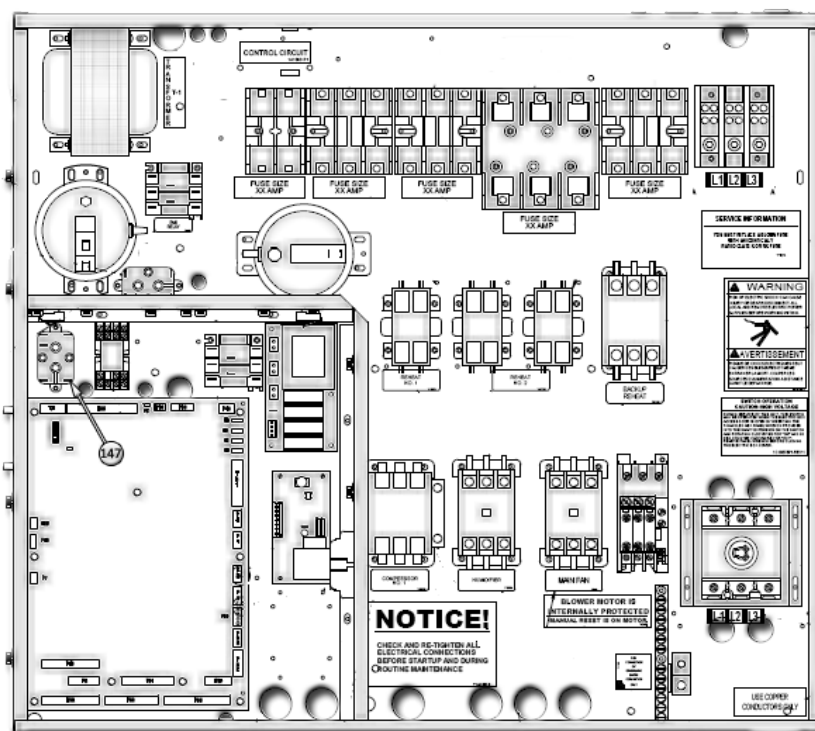


Item	Part #	Description	Type	Voltage	CB	FUSED
41	136222P1	CONTACTOR 3P231IND/32RES24/50	IR	200	1	
				230//415	1	
	E-0110	CONTACTOR 3PL 24VCOIL 25/30AMP	Steam Gen	200//415	1	
				200/208		1
	E-011B	CONTACTOR 2PL 24VCOIL 25/35AMP	IR	230		1
				380//460		1
	124501P1	CONTACTOR 3PL 24VCOIL 15/20AMP	Steam Gen	575		1
				200/208		1
				230		1
42	136241P11	CB MCB 3P 240/415V 20A K CURVE	IR	200	1	
				230//415	1	
	136241P10	CB MCB 3P 240/415V 16A K CURVE	Steam Gen	200//415	1	
				200//415	1	
	136810P1	FUSEBLOCK BUSS J 600V 30A 2P	IR	575		1
	136811P1	FUSEBLOCK BUSS JP600V 30A 3P	IR	380//460		1
			Steam Gen	380//575		1
	E-1020	FUSEBLOCK 250V 3P 030A	IR/Steam Gen	200/208		1
43	136821P12	FUSE DUAL ELMNT "J" 600V 15.0A		230		1
				380//460		3
				575		2
			Steam Gen	380//575		3
	E-1230	FUSE DUAL ELMNT 250V 20.0AMP	IR	200/208		3
	E-2070	FUSE DUAL ELMNT 250V 15.0AMP	IR	230		3
	E-2740	FUSE DUAL ELMNT 250V 17.5AMP	Steam Gen	200/208		3
47	E03-0170	RELAY 1P2T 24V 50/60HZ	Steam Gen	200//415	1	
				200/208		1
				230		1
				380//575		1
187	132487P1	TERMLSTRIP SECTION 1 POS	-	-	3	3
188	132487P2	TERMLSTRIP SECTION END BARRIER	-	-	1	1

7.6. EP Fan Coil



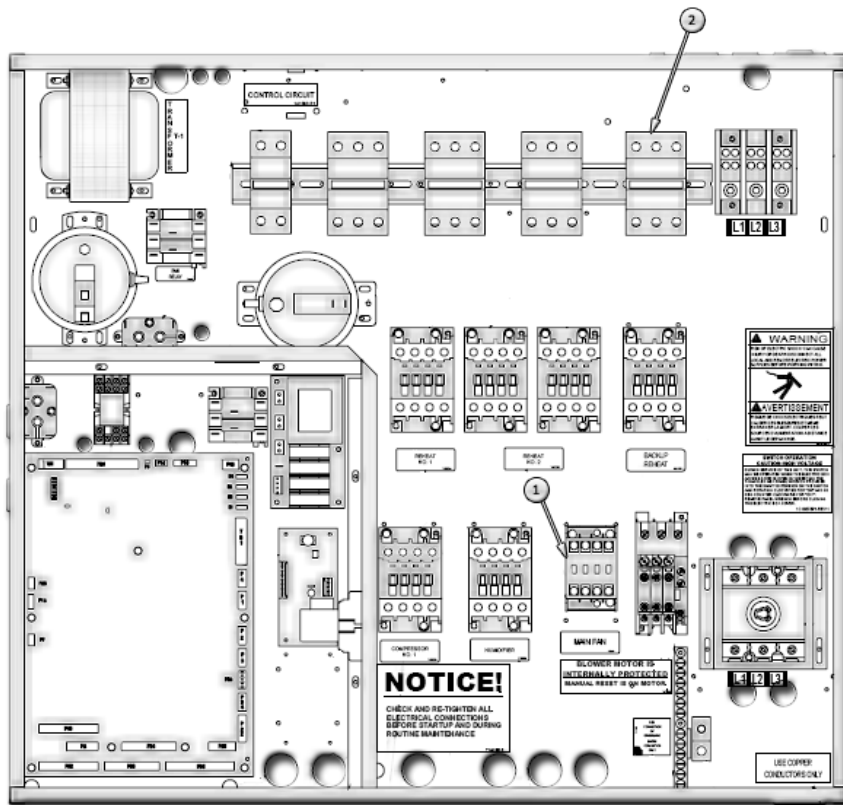
EP FAN COIL CIRCUIT BREAKER



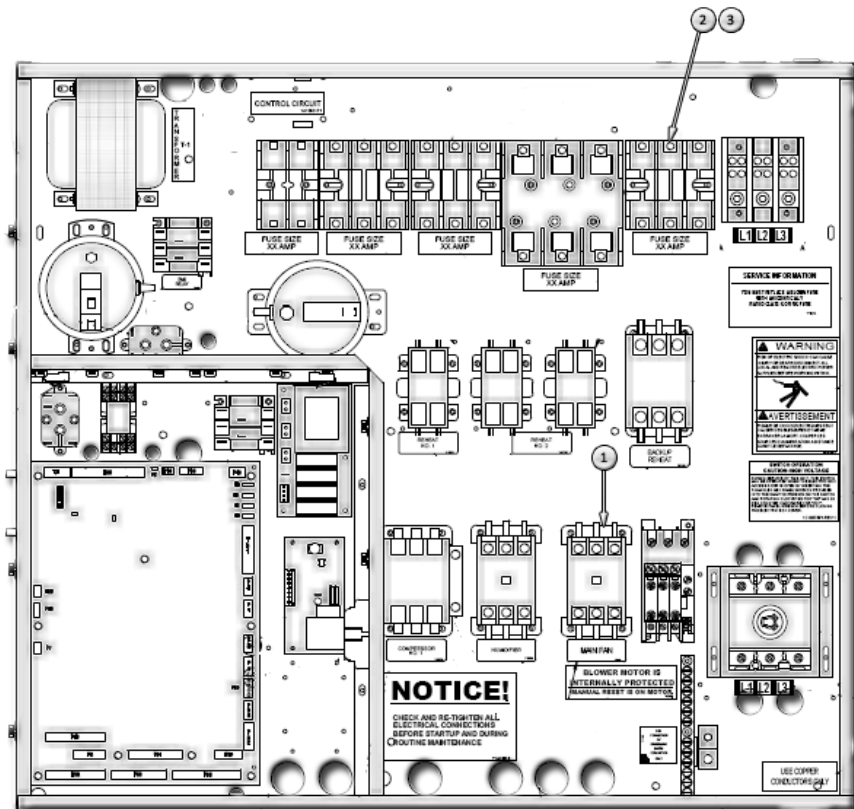
EP FAN COIL FUSED

Item	Part #	Description	Type	CB	FUSED
147	E03-0170	RELAY 1P2T 24V 50/60HZ	3T/5T	1	1

7.7. EP Motor



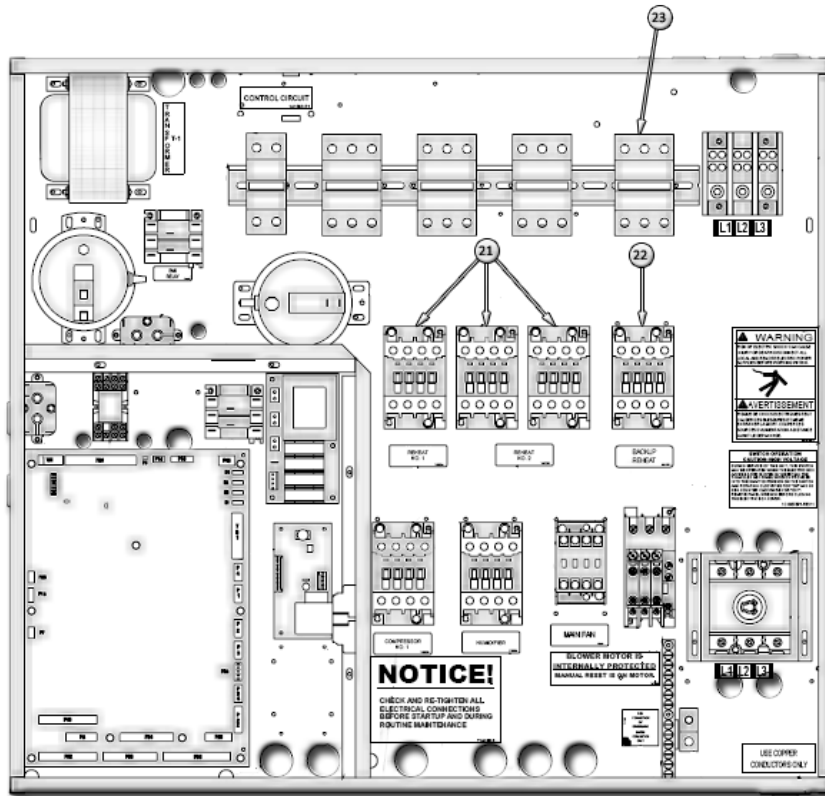
EP MOTOR CIRCUIT BREAKER



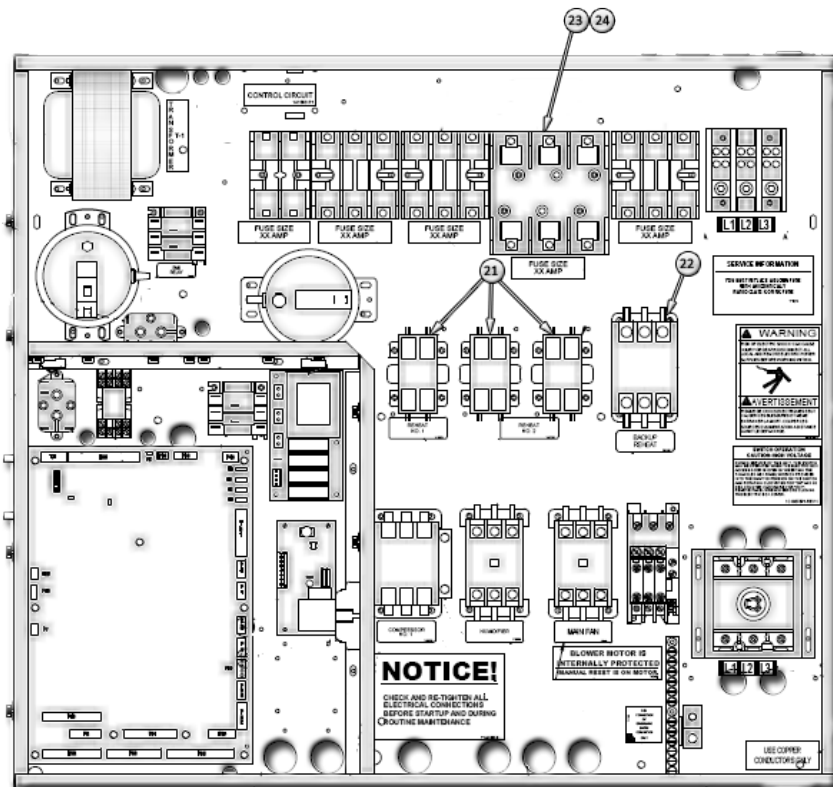
EP MOTOR CIRCUIT FUSED

Item	Part #	Description	HP	Voltage	CB	FUSED
1	136221P1	CONTACTOR 3P16IND/21RES24/50	2HP	200//415	1	
	124501P1	CONTACTOR 3PL 24VCOIL 15/20AMP	2/3HP	200/230		1
			2/3HP	460/575		1
2	136241P10	CB MCB 3P 240/415V 16A K CURVE	2HP	200//415	1	
	E-1020	FUSEBLOCK 250V 3P 030A	2/3HP	200/230		1
	136811P1	FUSEBLOCK BUSS JP600V 30A 3P	2/3HP	460/575		1
3	136821P12	FUSE DUAL ELMNT "J" 600V 15.0A	2/3HP	460/575		3
	E-2070	FUSE DUAL ELMNT 250V 15.0AMP	2/3HP	200/230		3

7.8. EP Reheat



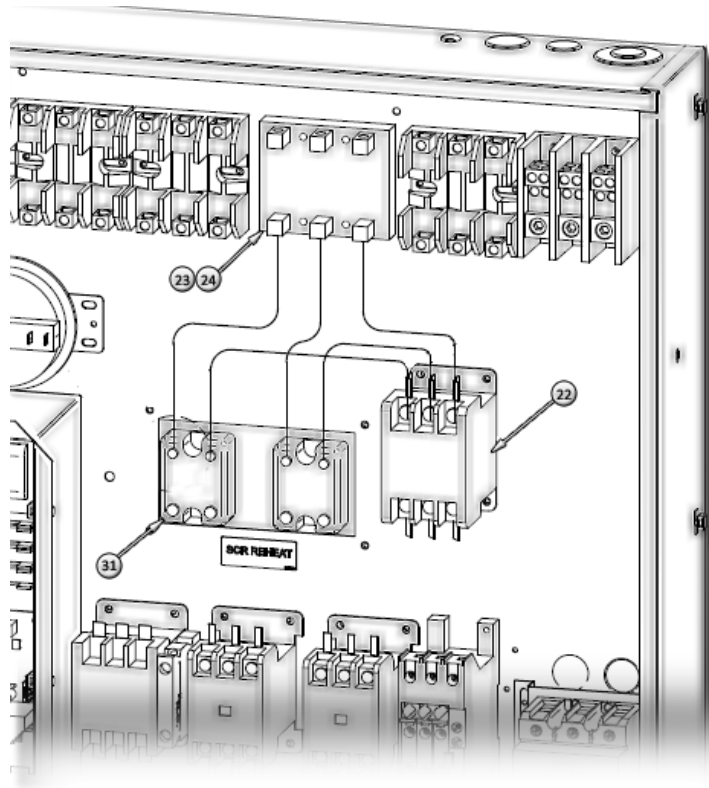
EP REHEAT CIRCUIT BREAKER



EP REHEAT FUSED

Item	Part #	Description	Voltage	kW	CB	FUSED
21	136222P1	CONTACTOR 3P23IND/32RES24/50	200/230	9/15kW	3	
			380/415	9/15kW	3	
	E-011A	CONTACTOR 2PL 24VCOIL 20/30AMP	200/230	9/15kW		3
			380/415	9/15kW		3
			460/575	9/15kW		3
	E-011B	CONTACTOR 2PL 24VCOIL 25/35AMP	200/230	9/15kW		3
			380/415	9/15kW		3
			460/575	9/15kW		3
22	136222P1	CONTACTOR 3P23IND/32RES24/50	380/415 200/230	9/15kW	1	
	136223P1	CONTACTOR 3P30IND/40RES24	200/230	9/15kW	1	
	E-0110	CONTACTOR 3PL 24VCOIL 25/30AMP	200//230	9/15kW		1
			380/415	9/15 kW		1
			460	9/15kW		1
23	136241P11	CB MCB 3P 240/415V 20A K CURVE	380/415	9kW	1	
	136241P13	CB MCB 3P 240/415V 32A K CURVE	200/230	9kW	1	
			380/415	15kW	1	
	136241P15	CB MCB 3P 240/415V 50A K CURVE	200/230	15	1	
	E-1040	FUSEBLOCK 250V 3P 060A	200//230	9/15kW		1
			460/575	9kW		1
			380/415	9/15kW		1
			460	15kW		1
			575	15kW		1
24	136300P1	FUSE 250V 40.0AMP CL T	200//230	9kW		3
	136301P1	FUSEBLOCK 250V 3P 060A CL T	200//230	9kW		3
	136302P1	FUSE 250V 60.0AMP SEMICON	200//230	15kW		3
	136303P1	FUSEBLOCK 250V 3P 060A SEMICON	200//230	15kW		3
	E-1040	FUSEBLOCK 250V 3P 060A	200//230	9/15kW		3
	E-1200	FUSE DUAL ELMNT 250V 35.0AMP	200//230	9kW		3
	E-3060	FUSE DUAL ELMNT 250V 50.0AMP	200//230	15kW		3
	136821P12	FUSE DUAL ELMNT "J" 600V 15.0A	460/575	9kW		3
	136821P14	FUSE DUAL ELMNT "J" 600V 20.0A	380/415	9kW		3
			575	15kW		3
	136821P15	FUSE DUAL ELMNT "J" 600V 25.0A	460	15kW		3
	136821P16	FUSE DUAL ELMNT "J" 600V 30.0A	380/415	15kW		3

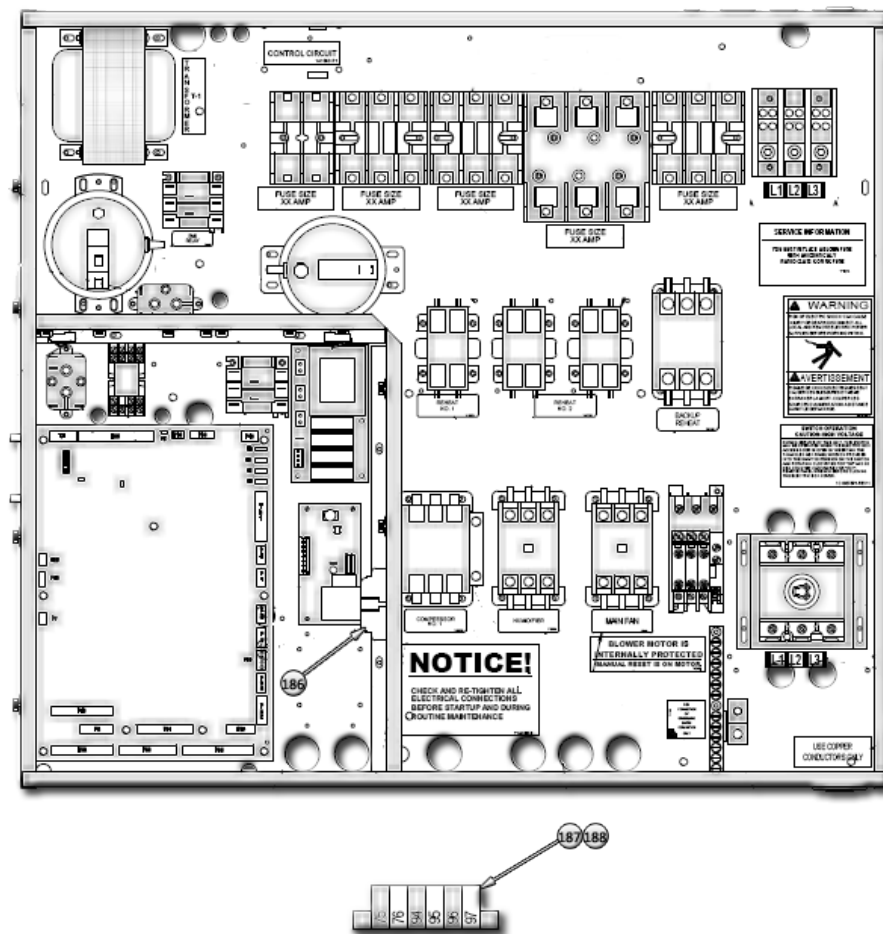
7.9. EP SCR Reheat



EP OPTION WITH SCR REHEAT

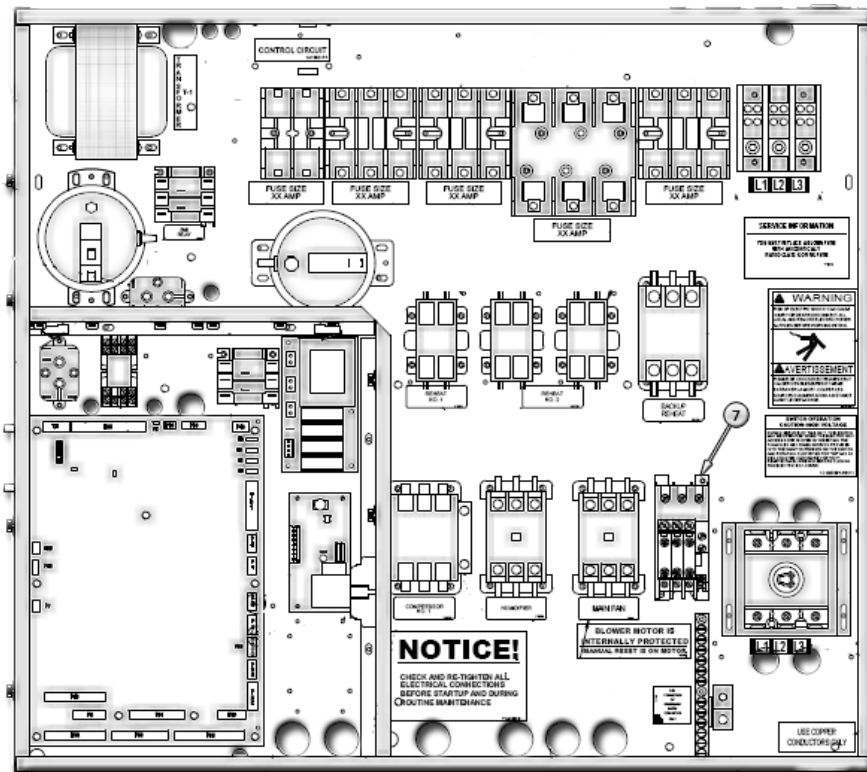
Item	Part #	Description	Voltage	kW	Quantity
22	E-0110	CONTACTOR 3PL 24VCOIL 25/30AMP	200//230	9/15kW	1
			380/415	9/15 kW	1
			460	9/15kW	1
23	136303P1	FUSEBLOCK 250V 3P 060A SEMICON	200//230	15kW	1
	136301P1	FUSEBLOCK 250V 3P 060A CL T	200//230	9kW	1
	136811P1	FUSEBLOCK BUSS JP600V 30A 3P	380/415	9/15kW	1
			460	9/15kW	1
24	136300P1	FUSE 250V 40.0AMP CL T	200//230	9kW	3
	136821P12	FUSE DUAL ELMNT "J" 600V 15.0A	460	9kW	3
	136821P14	FUSE DUAL ELMNT "J" 600V 20.0A	380/415	9W	3
	136302P1	FUSE 250V 60.0AMP SEMICOND	200//230	15kW	3
	136821P15	FUSE DUAL ELMNT "J" 600V 25.0A	460	15kW	3
	136821P16	FUSE DUAL ELMNT "J" 600V 30.0A	380/415	15kW	3
31	139170G1	SCR REHEAT CONTROL ASSY	200//230	9/15kW	1
			380/415	9/15kW	1
			460	9/15kW	1
31 - 1	139165P1	HEATSINK AAVID A-007-107-75	-	-	1
31 - 2	517017P1	RELAY SCR 480V 50A 24VAC	-	-	2
31 - 3	139166P1	VARISTOR METAL OXIDE 575V	-	-	2

7.10. EP Extra Common Alarm



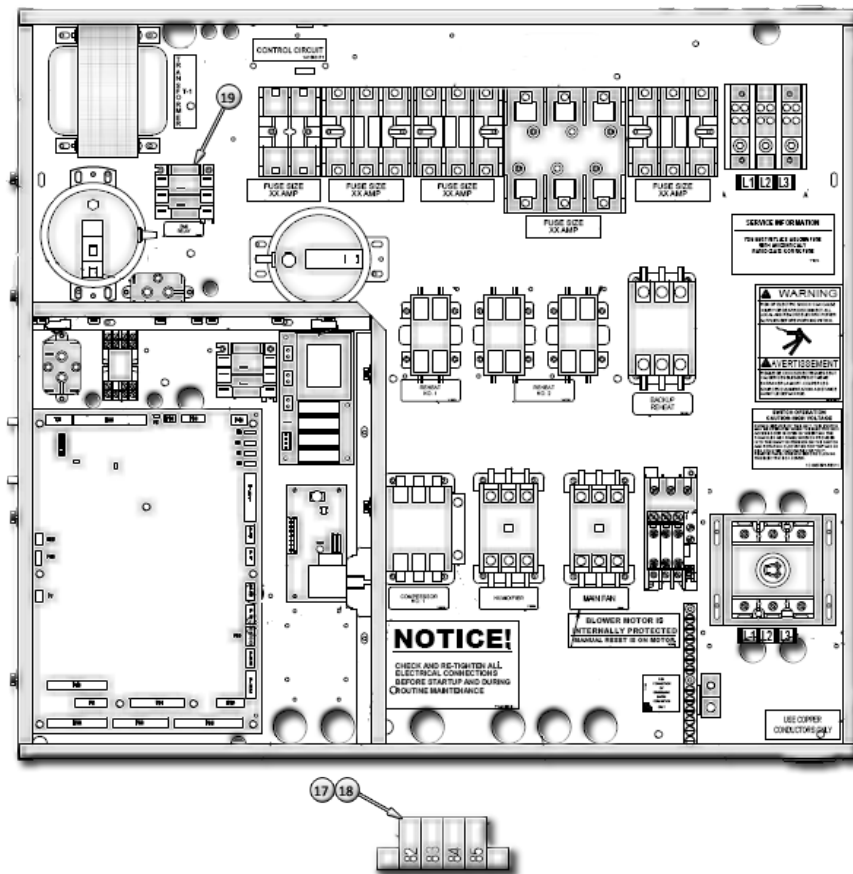
Item	Part #	Description	Quantity
186	E-2440	RELAY 4P2T 24VAC 125V MAXLOAD	3
187	132487P1	TERMLSTRIP SECTION 1 POS	3
188	132487P2	TERMLSTRIP SECTION END BARRIER	1

7.11. EP Compressor / Main Fan Overload



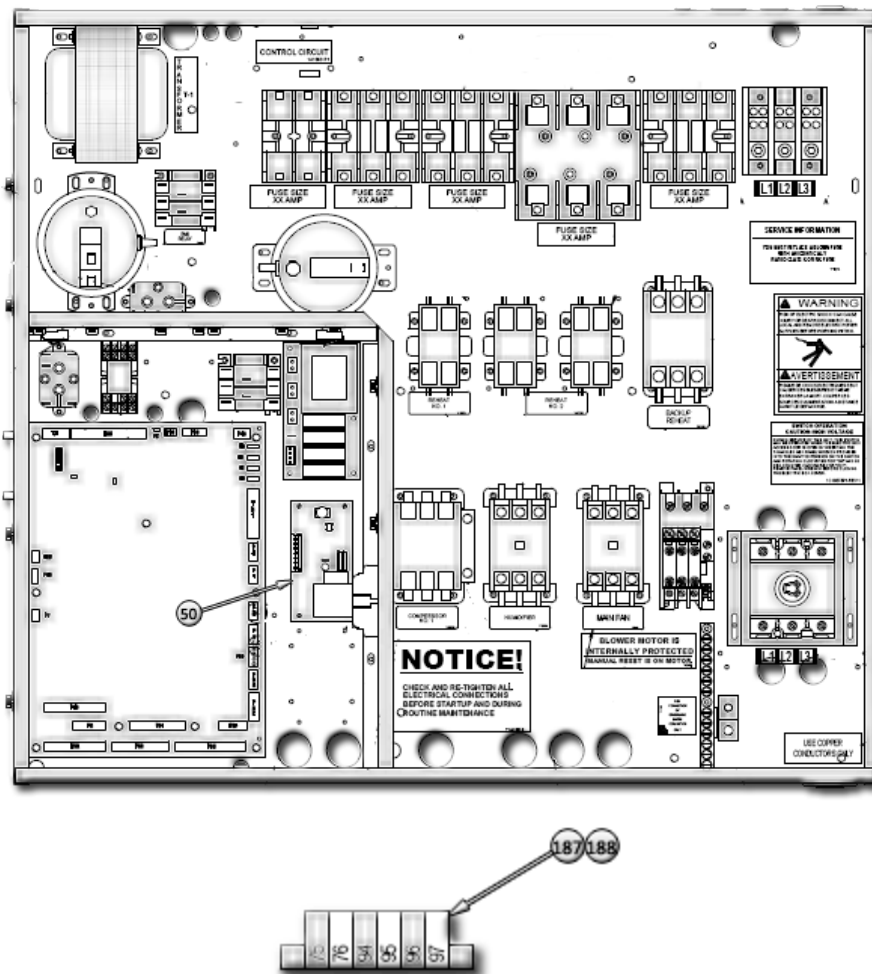
Item	Part #	Description	Quantity
7	124547P1	OVERLOAD RELAY W/B MNT 32A C-H	1

7.12. EP Reheat Humidifier Lockout



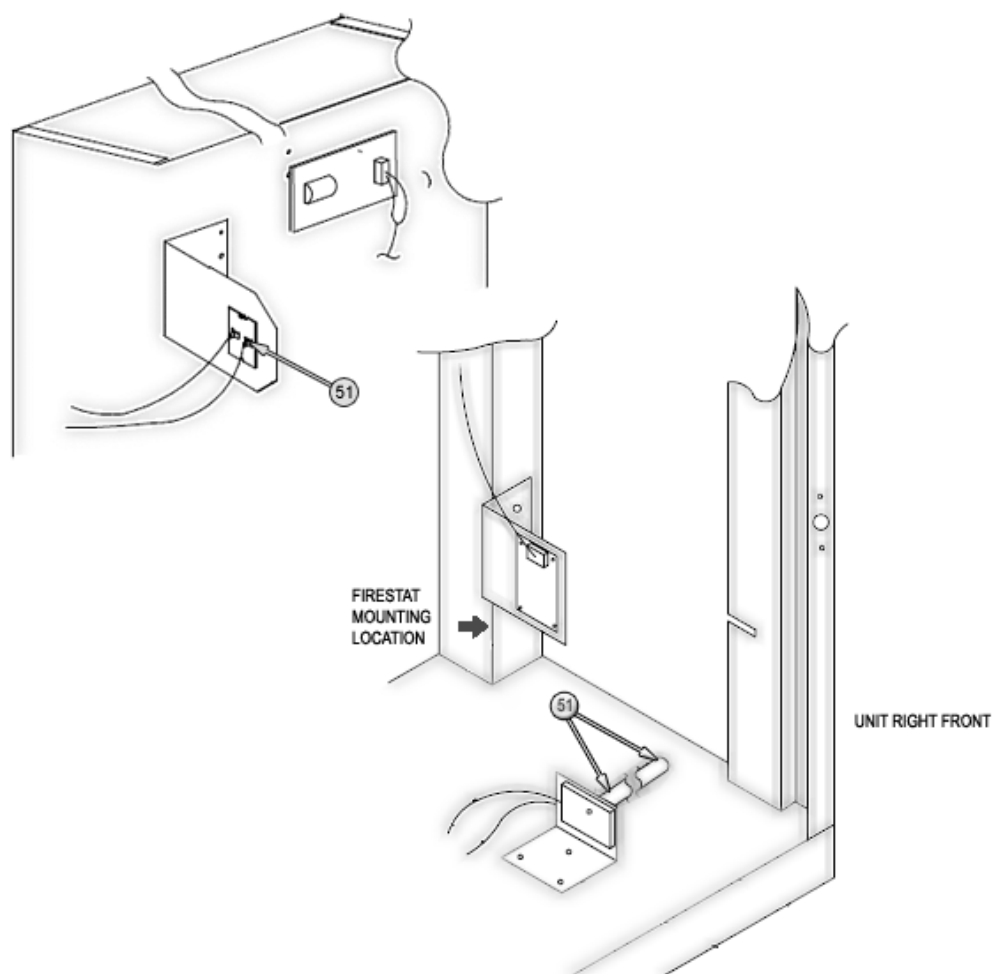
Item	Part #	Description	Type	Voltage	Quantity
17	132487P1	TERMLSTRIP SECTION 1 POS	-	-	2
18	132487P2	TERMLSTRIP SECTION END BARRIER	-	-	1
19	E-0130	RELAY 2P2T 24VAC COIL	3T - WG	200/230	1
			3/5T - WG	380/415	1
			5T - WG	200/230	1
			5T - EOC	200/230	2
			5T - EOC	380/415	2

7.13. EP Smoke Detector



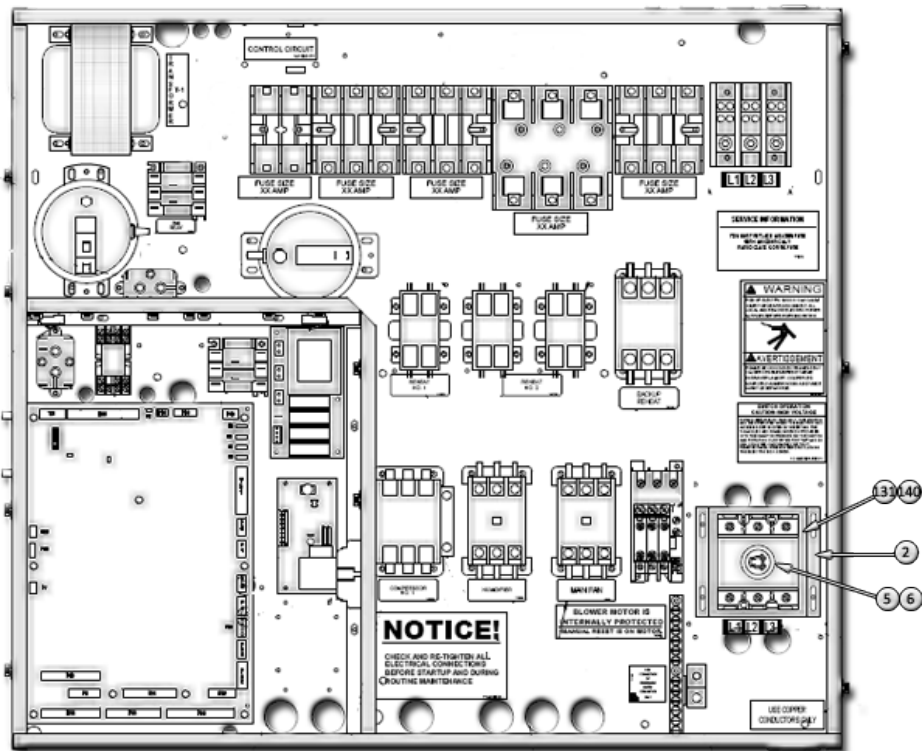
Item	Part #	Description	Quantity
50	124502P2	PWA SMOKE DET CNTL 24VDC 2CONN	1
187	132487P1	TERMLSTRIP SECTION 1 POS	3
188	132487P2	TERMLSTRIP SECTION END BARRIER	1

7.14. EP Firestat



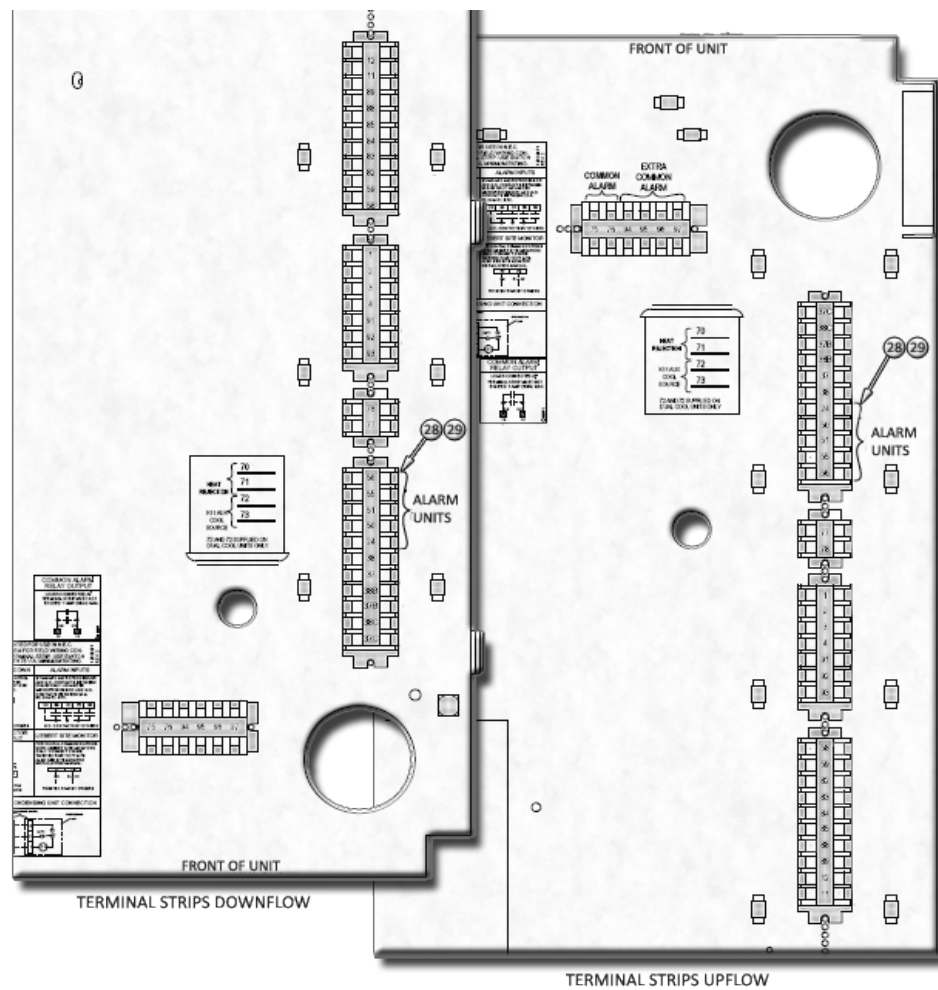
Item	Part #	Description	Quantity
51	E-2350	FIRESTAT OPEN ON RISE	1

7.15. EP Disconnect



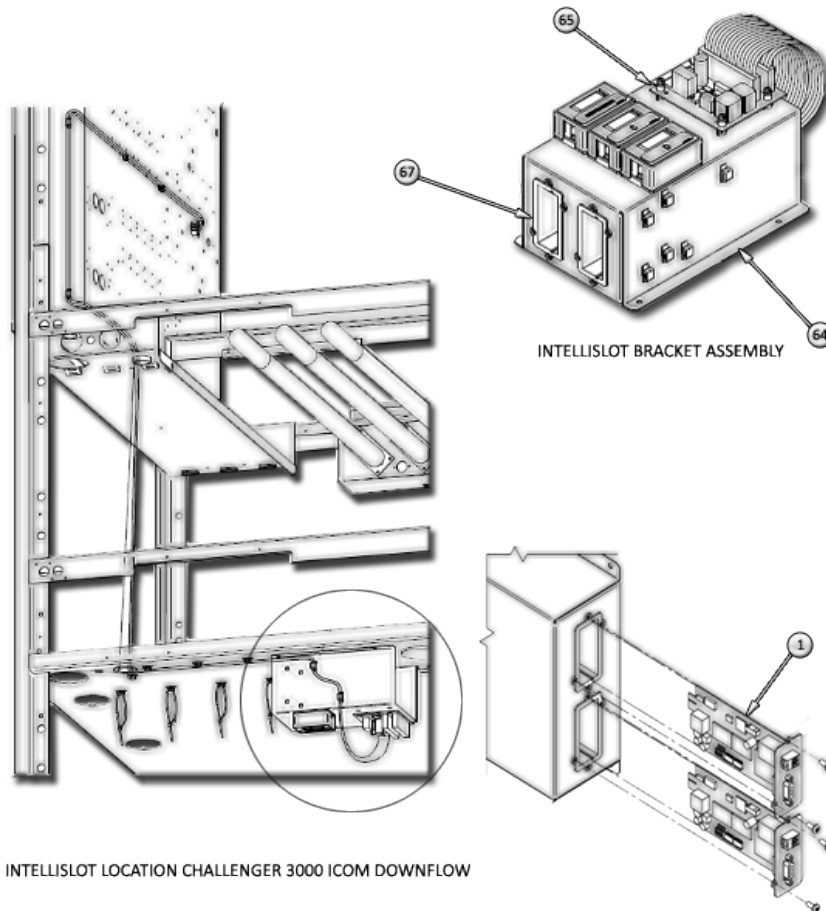
Item	Part #	Description	Type	Quantity
2	1C18603P1	BRKT DISC K/M	K-M (LOK/N/L)	1
	F02-2140	BRKT LKDISC OPER 225	S-T (N/L)	1
5	1C18354P1	COLLAR LKG DISC W/2 SCREWS KM	K-M (Locking)	1
6	E-288A	SW DISC LOKG HANDLE ROTARY	S-T (Locking/ Non-Locking)	1
131	1C18351P1	SW DISC 600V 3PL 100A	K-M (Locking)	1
	1C18351P2	SW DISC 600V 3PL 60A	K-M (Locking)	1
	E02-2880	SW DISC 480V 3PL 100A 120V	S-T (Locking/ Non-Locking)	1
	E02-2890	SW DISC 240V 3PL 100A 120V		1
	E02-2910	SW DISC 600V 3PL 100A 120V		1
140	E-288B	SW DISC LOKG RING CATCH	S-T (Locking)	1

7.16. Terminal Strips



Item	Part #	Description	Quantity
28	132487P1	TERMLSTRIP SECTION 1 POS	5
29	132487P2	TERMLSTRIP SECTION END BARRIER	1

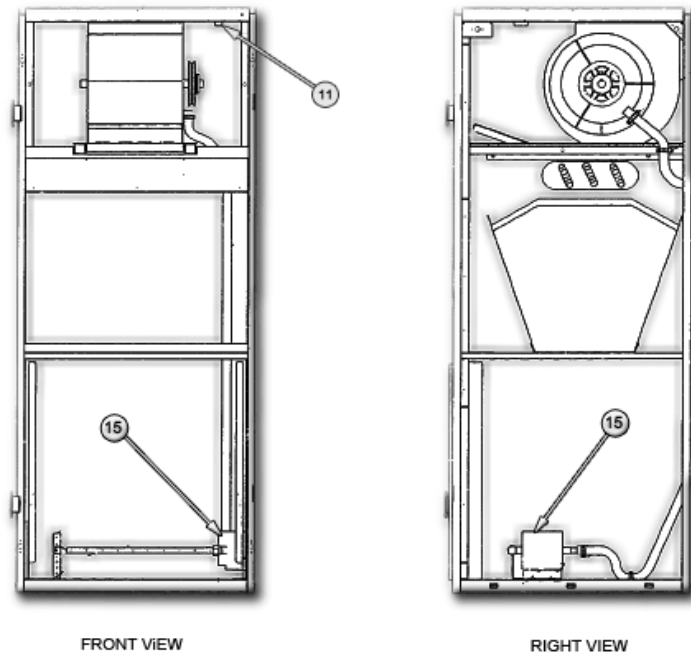
7.17. Intellislot



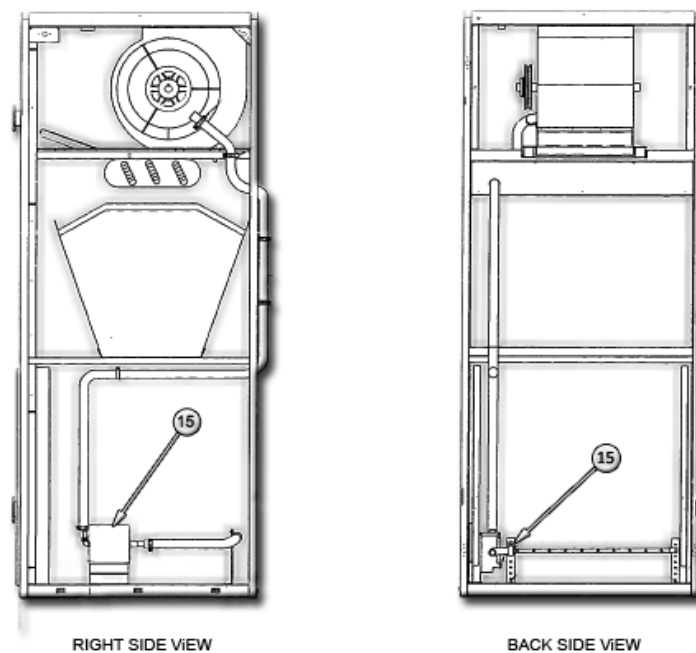
Item	Part #	Description	Quantity
1	OC485-LBDS	KIT OC485-LBDS	-
	IS-WEBLBDS	KIT IS-WEBLBDS	-
64	185110P1	BRKT INTELLISLOT C3000 UF	1
65	416911G2	PWA INTELLISLOT PWR SPLY DC IN	1
67	200509P1	ENCLOSURE INTELLISLOT 34 PIN	2

7.18. Smoke Detector

UPFLOW FRONT RETURN

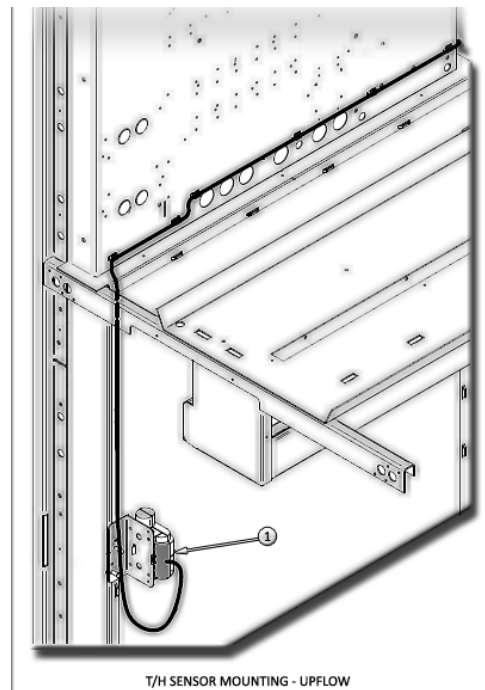
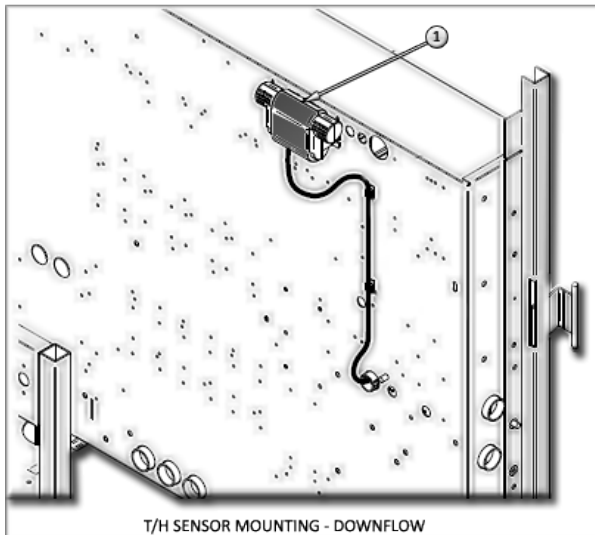


UPFLOW REAR RETURN



Item	Part #	Description	Quantity
11	132487P1	TERMLSTRIP SECTION 1 POS	3
15	149110G1	SMOKE DETECTOR ENCLO ASSY 731L	1

7.19. T/H Sensor / Remote Sensor



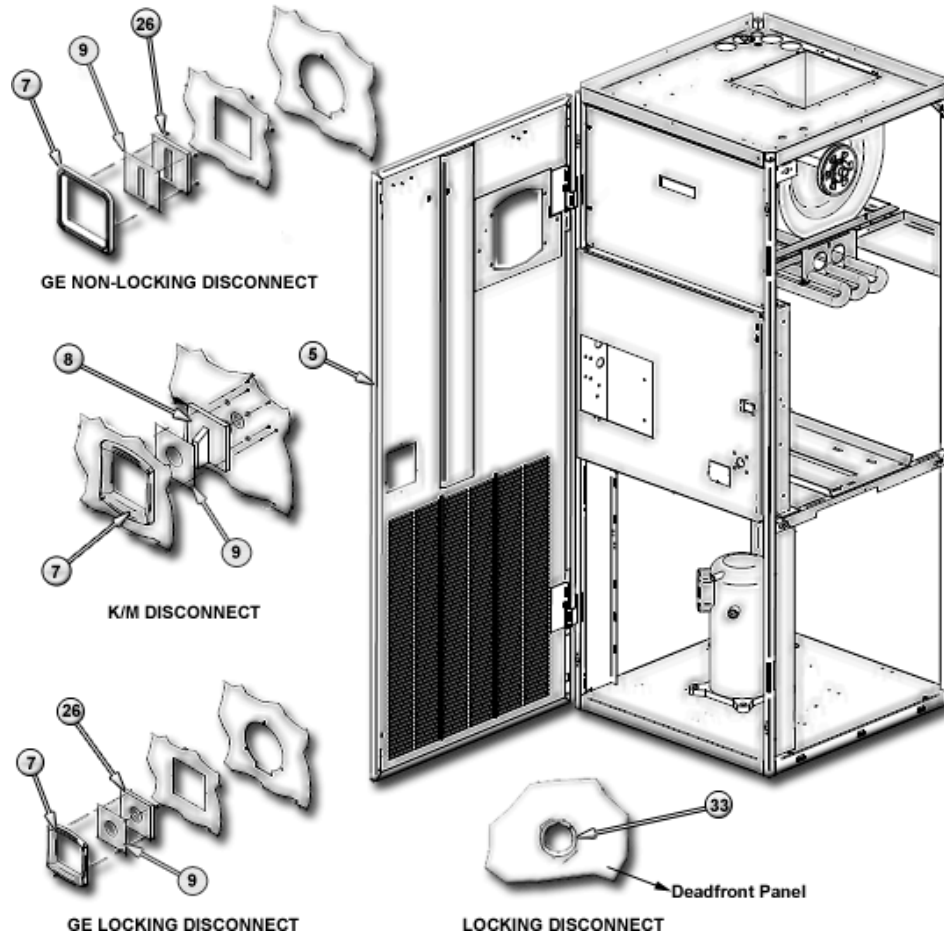
Remote Sensors

Part #	Description	Type
185176G03	EL SENSORS ICOM D C3K REM 030'	Downflow
185176G04	EL SENSORS ICOM D C3K REM 060'	
185176G05	EL SENSORS ICOM D C3K REM 090'	
185176G06	EL SENSORS ICOM D C3K REM 120'	
185176G07	EL SENSORS ICOM D C3K REM 150'	
185176G13	EL SENSORS ICOM U C3K REM 030'	Upflow
185176G14	EL SENSORS ICOM U C3K REM 060'	
185176G15	EL SENSORS ICOM U C3K REM 090'	
185176G16	EL SENSORS ICOM U C3K REM 120'	
185176G17	EL SENSORS ICOM U C3K REM 150'	

Item	Part #	Description	Quantity
1	181464G1	SENSOR T/H ASSY INTERNAL ICOM	1
	181464G2	SENSOR T/H ASSY INTERNAL ICOM	1

8. Exterior Section

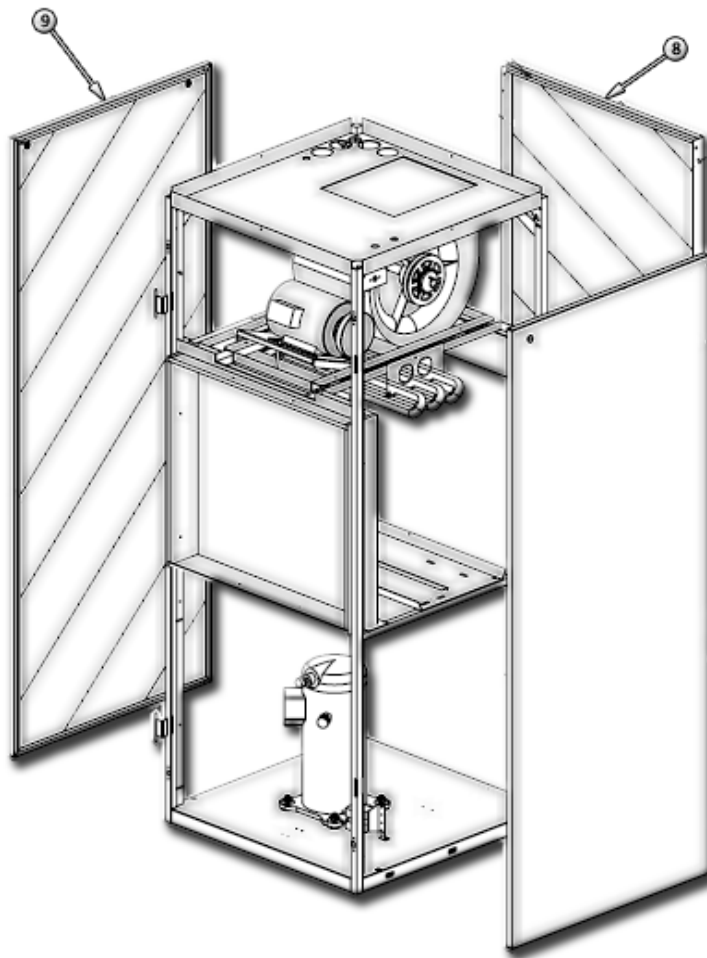
8.1. Accent Panel



Item	Part #	Description	Regular	Heavy Gage
5	184138P1	PANEL FRT ACCENT D W/DISC	1	
	184138P2	PANEL FRT ACCENT D NO DISC	1	
	184153P1	PANEL ACCNT HVY G D W/DISC		1
	184153P2	PANEL ACCNT HVY G D NODISC		1

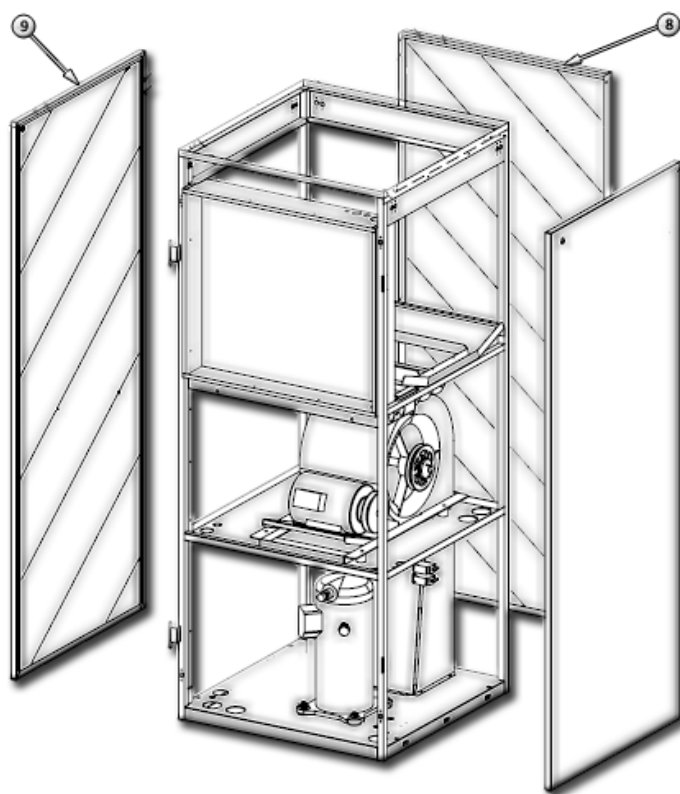
Item	Part #	Description	Quantity
7	179746P1	DISCONNECT BEZEL GLOBAL	1
8	1C18352P1	HANDLE DISC SWT/FACEPLATE K/M	1
9	180917P1	LABEL, DISCONNECT NON-LOK	1
	410624P1	LABEL DISCONNECT K/M LIEBERT	1
	180917P2	LABEL, DISCONNECT LOCKING	1
26	F30-0030	PLATE LOCKING DISC 6//22T	1
	F30-0040	PLATE NON LOCKING DISC 6//22T	1
33	E-288B	SW DISC LOKG RING CATCH	1

8.2. Upflow



Item	Part #	Description	Regular	Heavy Gage
8	136607G2	PANEL REAR ASSY VRR	1	
	136607P1	PANEL REAR D/U	1	
	136685G1	PANEL REAR ASSY D/U HG		1
	136685G2	PANEL REAR ASSY HG REAR RETURN		1
9	136608P1	PANEL SIDE RIGHT/LEFT D/U	2	
	136684P1	PANEL SIDE D/U HEAVY GAUGE		2

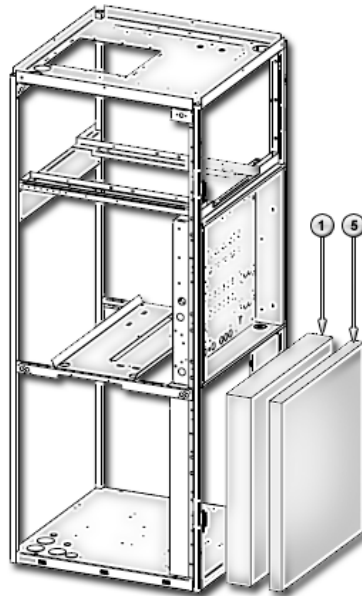
8.3. Downflow



Item	Part #	Description	Regular	Heavy Gage
8	136607P1	PANEL REAR D/U	1	
	136685G1	PANEL REAR ASSY D/U HG		1
9	136608P1	PANEL SIDE RIGHT/LEFT D/U	2	
	136684P1	PANEL SIDE D/U HEAVY GAUGE		2

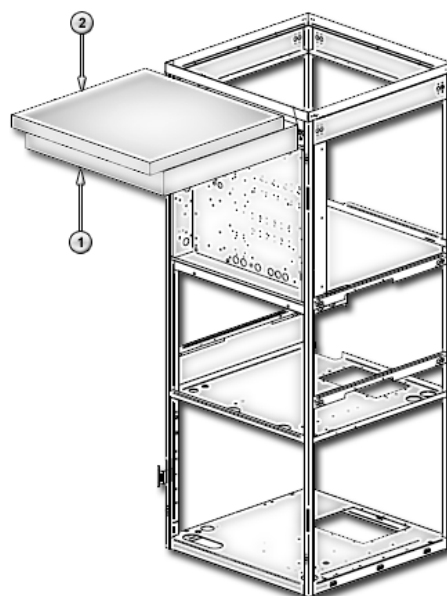
9. Filter Section

9.1. Upflow



Item	Part #	Description	Quantity
1	195551P1	FILTER 29.5X28.5X2 MERV 8	1
	195551P2	FILTER 29.5X28.5X4 MERV 8	1
	195551P3	FILTER 29.5X28.5X2 MERV 11	1
	195551P4	FILTER 29.5X28.5X4 MERV 11	1
5	195551P1	FILTER 29.5X28.5X2 MERV 8	2

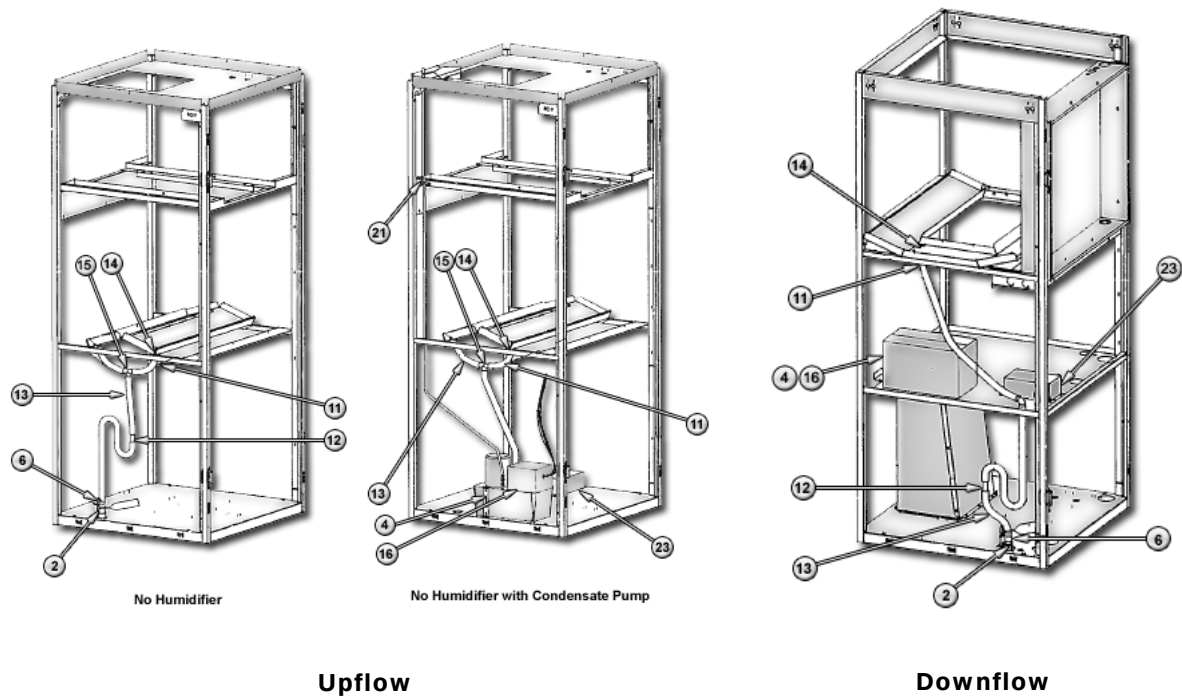
9.2. Downflow



Item	Part #	Description	Quantity
1	195551P1	FILTER 29.5X28.5X2 MERV 8	1
	195551P2	FILTER 29.5X28.5X4 MERV 8	1
	195551P3	FILTER 29.5X28.5X2 MERV 11	1
	195551P4	FILTER 29.5X28.5X4 MERV 11	1
2	195551P1	FILTER 29.5X28.5X2 MERV 8	2

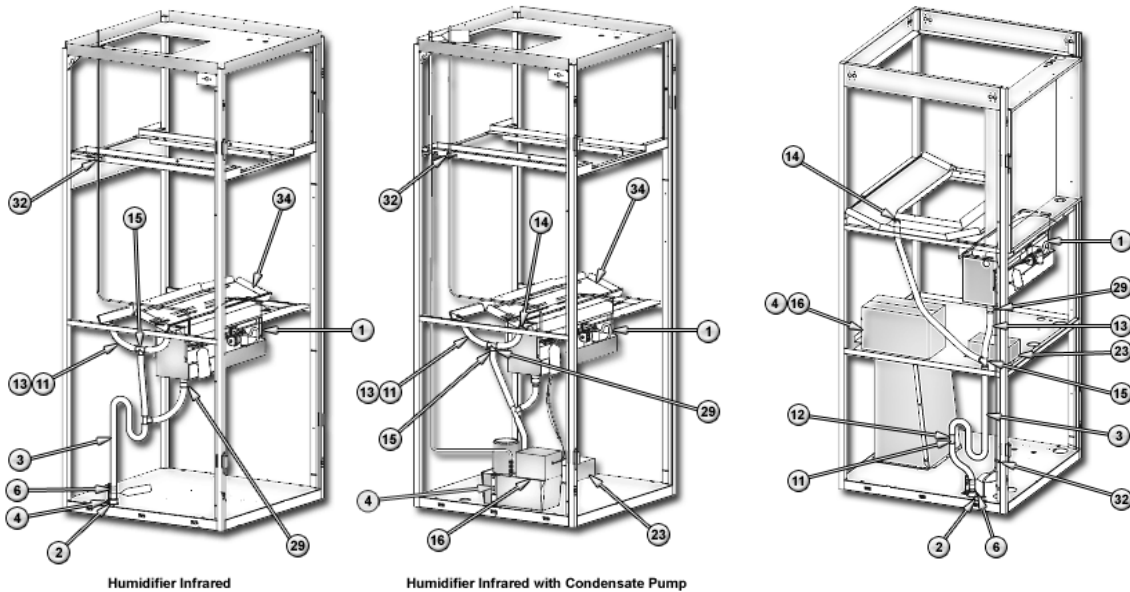
10. Humidifier Section

10.1. Drain Options



Item	Part #	Description	Upflow -No Hum w/o CP	Upflow - No Hum w/ CP	Downflow
2	P02-0260	ADAPTER POLY 3/4FPTX3/4HOSE	1	1	1
4	F20-2300	BRKT COND PUMP ADJ-PART B	1	1	1
6	S13-0140	CLAMP INSUL MTL HVY DTY 1-1/8"	1		1
11	P15-0150	CLAMP WIRE	6	4	5
12	P15-0140	UNION NYLON 3/4BARBX3/4BARB	1		1
13	P15-0170	HOSE DRAIN .75 ID STRAIGHT	2	3	3
14	124216P2	CLAMP HOSE WORM DRIVE .31X1.25	2	2	1
15	1A16207P1	TEE BARB 3/4X3/4X3/4	1	1	
16	1A19271P1	PUMP CONDENSATE 208/230/1/60DF		1	1
	1A19271P2	PUMP CONDENSATE 460/1/60DF		1	1
21	P-2290	CLAMP INSULATED METAL 1/2"		1	
23	E05-4600	XFMR 500VA 60 575-230		1	1

10.2. Infrared

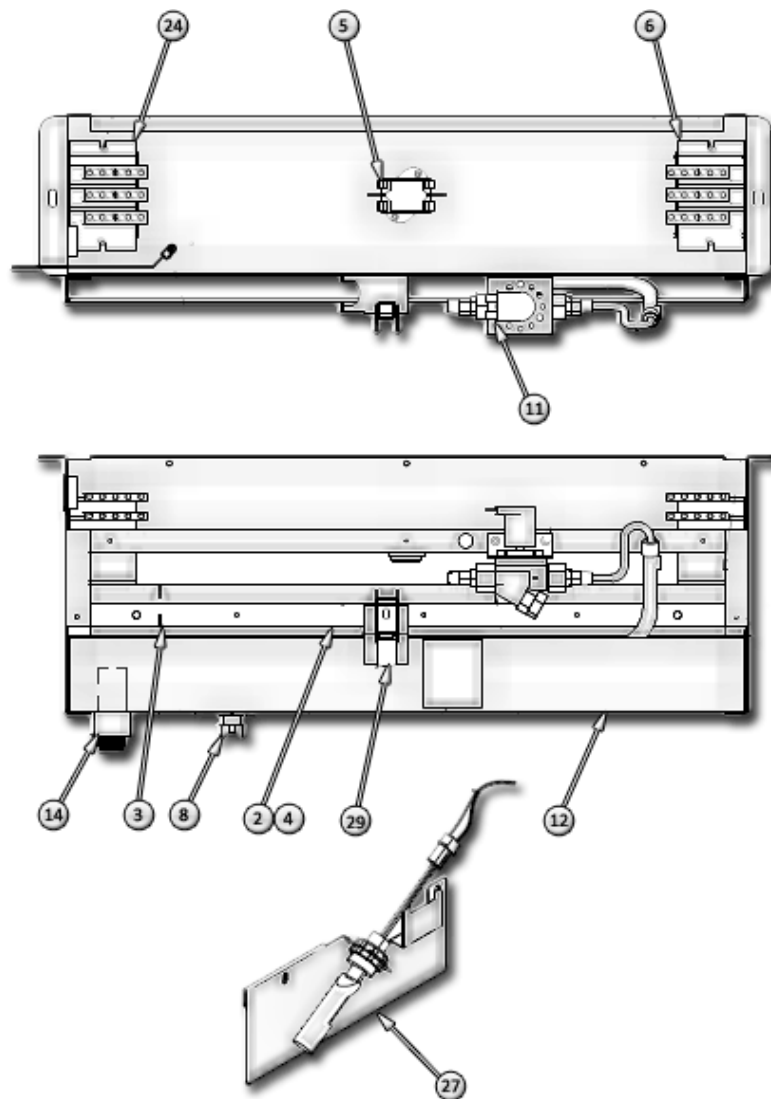


Upflow

Downflow

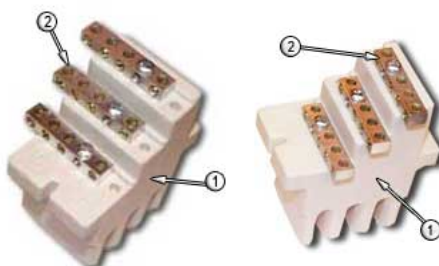
Item	Part #	Description	Upflow - Hum IR w/o CP	Upflow - Hum IR w/ CP	Downflow
1		IR Assembly			
2	P02-0260	ADAPTER POLY 3/4FPTX3/4HOSE	1	1	1
3	1C19070P1	HOSE DRAIN .75 ID TRAP	1	1	1
4	F20-2300	BRKT COND PUMP ADJ-PART B	4		4
6	S13-0140	CLAMP INSUL MTL HVY DTY 1-1/8"	1		1
11	P15-0150	CLAMP WIRE	8	8	7
12	P15-0140	UNION NYLON 3/4BARBX3/4BARB			1
13	P15-0170	HOSE DRAIN .75 ID STRAIGHT	4	4	4
14	124216P2	CLAMP HOSE WORM DRIVE .31X1.25		2	1
15	1A16207P1	TEE BARB 3/4X3/4X3/4	1	1	1
16	1A19271P1	PUMP CONDENSATE 208/230/1/60DF		1	1
	1A19271P2	PUMP CONDENSATE 460/1/60DF		1	1
23	E05-4600	XFMR 500VA 60 575-230	1	1	1
29	P-5400	ADAPTER SWIVL3/4FPTX3/4HOSEBRB			1
	124216P2	CLAMP HOSE WORM DRIVE .31X1.25	2	2	
32	P-229A	CLAMP INSULATED METAL 1/4"	2	2	1
34	136635P1	DUCT HUM	2	2	

10.2.1. IR Assembly



Item	Part #	Description	Voltage	Quantity
2	124578P1	REFLECTOR IR HUMIDIFIER	-	1
3	F-6090	COVER END BLOCK	-	2
4	H-0020	LAMP I/R LINEAR/QRTZ 1600W240V	240V	3
	H-002A	LAMP I/R LINEAR/QRTZ 1600W208V	208V	3
	H13-0010	LAMP I/R LINEAR/QRTZ 1600W277V	277V	3
5	R13-0090	SAFETY SWT THERM 120F TR	-	1
6	009-0261	HUM SOCKET ASSY 3 5POS LEFT on Page 46	-	-
8	035-0342	HUM MAN RESET SAFETY on Page 46	-	-
11	185398G1	VALVA ASSY SOLENOID AUTOFLUSH on Page 46	-	-
12	179856G1	DRAIN PAN ASSY CHAL	-	1
14	1C18003G4	STANDPIPE ASSY W/O NUT	-	1
24	009-0262	HUM SOCKET ASSY 3 5POS RIGHT on Page 46	-	1
	009-0261	HUM SOCKET ASSY 3 5POS LEFT on Page 46	-	1
27	179859G1	ALARM HIGH WATER C3000	-	1
29	136743P1	LATCH HUMIDIFIER PAN	-	1

10.2.2. 009261 Socket Assembly



Part #	Description	Quantity
009-0262	HUM SOCKET ASSY 3 5POS RIGHT	1
009-0261	HUM SOCKET ASSY 3 5POS LEFT	1

10.2.3. 035-0342 Hum Reset Safety



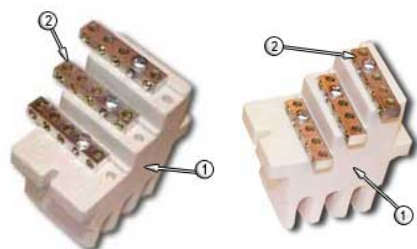
Part #	Description	Quantity
H-0450	SENSOR SAFETY THOPN-RISE 225F	1

10.2.4. Valve Solenoid Autoflush



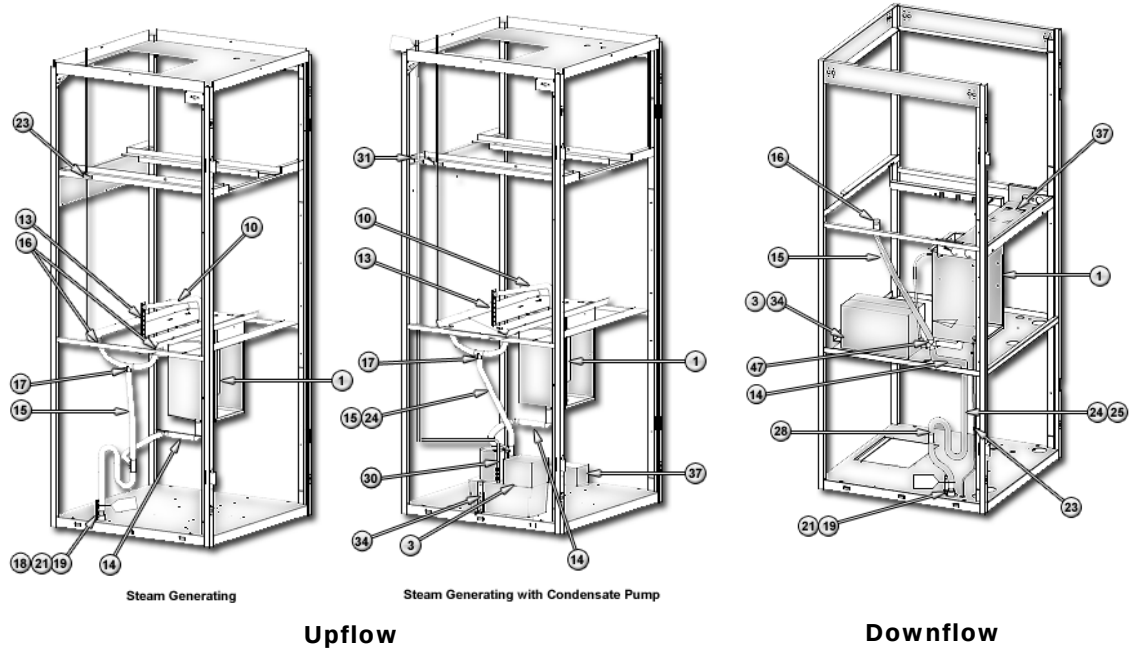
Item	Part #	Description	Quantity
1	185108P1	VALV SOLND/STRANR/FLWREG .5GPM	1
2	127781P1	ADAPTER BRASS 1/4COMX1/4MPT	1

10.2.5. 009-0262 Socket Assembly



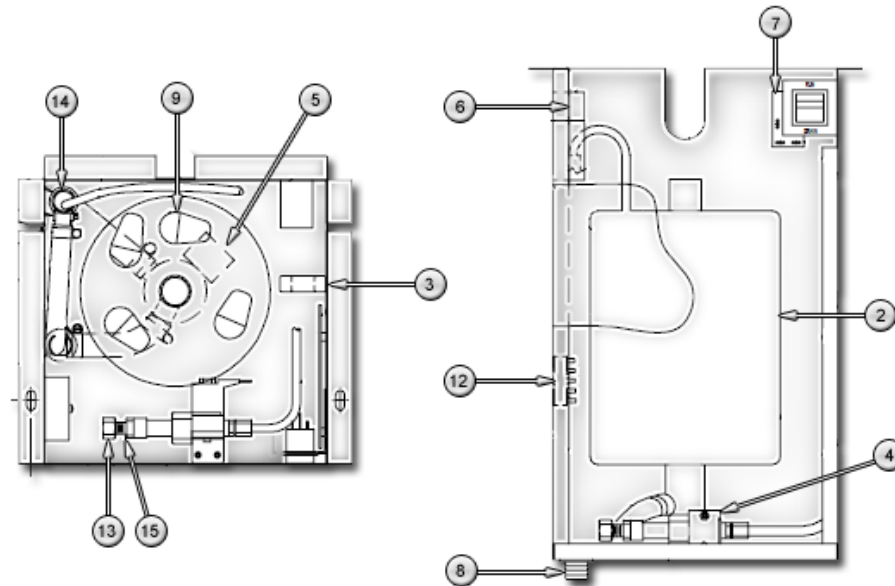
Item	Part #	Description	Quantity
H-014A	H-014A	SOCKET BUSBAR PORCELAIN	1
H-0370	H-0370	BUSBAR HUMIDIFIER HI-VOLT	3

10.3. Steam Generating



Item	Part #	Description	Upflow - SG w/o CP	Upflow - SG w/ CP	Downflow
1	136555G1	HUM CANNISTER on Page 48	1	1	1
3	1A19271P1	PUMP CONDENSATE 208/230/1/60DF		1	1
	1A19271P2	PUMP CONDENSATE 460/1/60DF		1	1
10	124220P1	HOSE STEAM 0.88ID 10PSI	2	2	
14	1C11305P1	HOSE DRAIN .75 ID FORMED	1	1	1
15	P15-0170	HOSE DRAIN .75 ID STRAIGHT	4	4	3
16	124216P2	CLAMP HOSE WORM DRIVE .31X1.25	4	4	4
17	1A16207P1	TEE BARB 3/4X3/4X3/4	2	2	
18	F20-2300	BRKT COND PUMP ADJ-PART B	1		
19	S13-0140	CLAMP INSUL MTL HVY DTY 1-1/8"	1	1	2
21	P02-0260	ADAPTER POLY 3/4FPTX3/4HOSE	1	1	1
23	P-229A	CLAMP INSULATED METAL 1/4"	1		1
24	P15-0150	CLAMP WIRE	10	10	10
25	1C19070P1	HOSE DRAIN .75 ID TRAP			1
34	F20-2300	BRKT COND PUMP ADJ-PART B		1	2
37	E05-4600	XFMR 500VA 60 575-230		1	1

10.3.1. Humidifier Canister

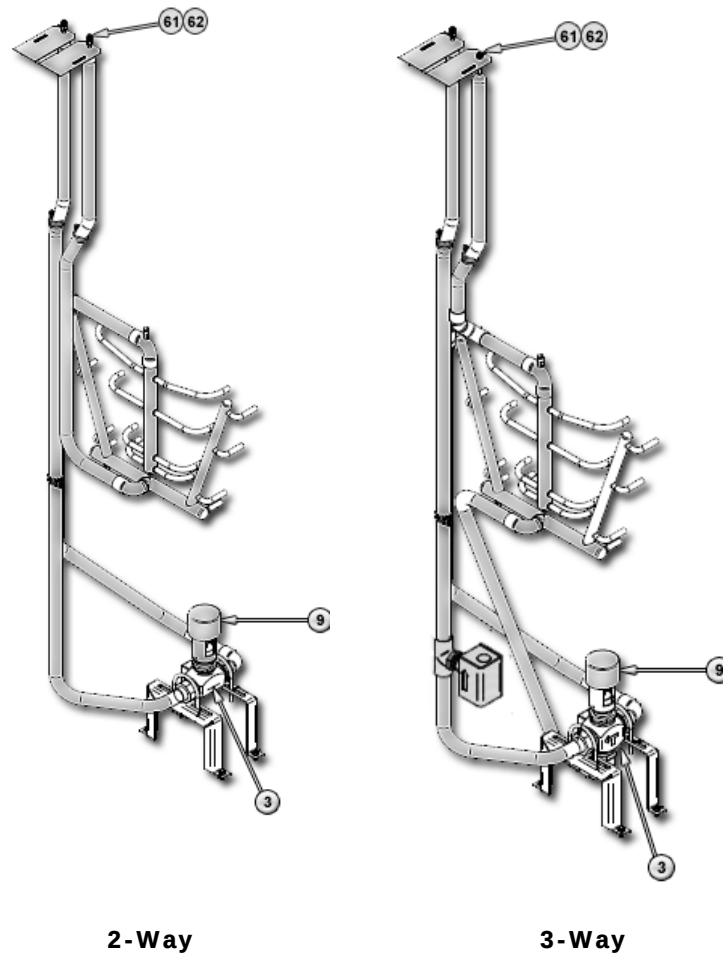


Item	Part #	Description	Quantity	
			136555G1	136555G3
2	136798P1	TANK HUMIDIFIER 200//230 11#	1	
	136798P2	TANK HUMIDIFIER 380//575 11#		1
3	127853P1	XFMR TORROID HUM 5T MME	1	1
4	136812P1	VALVE SOL / STRNR HUM FILL 24V	1	1
5	127992P1	VALVE SOL DRAIN KIT HUM 24V	1	1
6	136956P1	CYL FULL INTERFACE SGH C3000	1	1
7	E03-0170	RELAY 1P2T 24V 50/60HZ	1	1
8	127891P1	DRAIN TEE SGH C3000	1	1
9	128759P1	BOOT RUBBER SG HUM TERM COVER	4	4
12	136972P1	TERMBLK SGHC3000	1	1
13	P-057A	SLEEVE COMPRESSION BRASS 1/4"	1	1
14	127892P1	FILL TEE SGH C3000	1	1
15	136813P1	STRAINER SCREEN	1	1

11. Piping Section

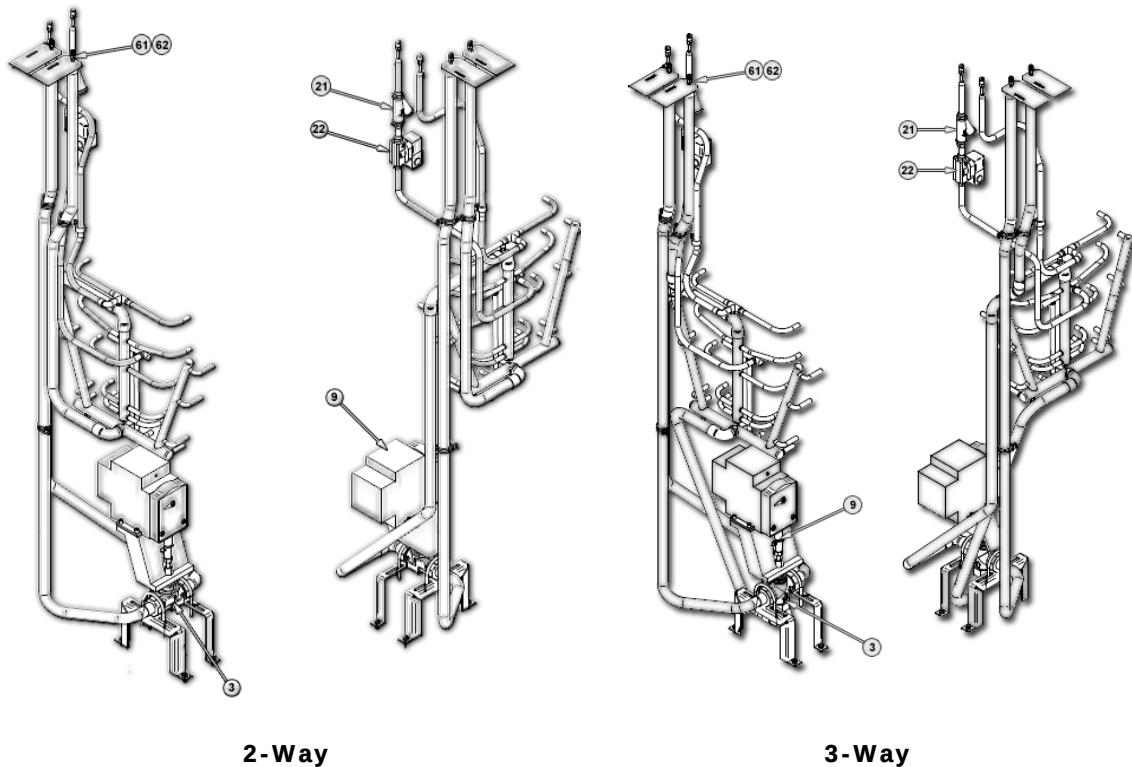
11.1. Chilled Water

11.1.1. Upflow: Chilled Water



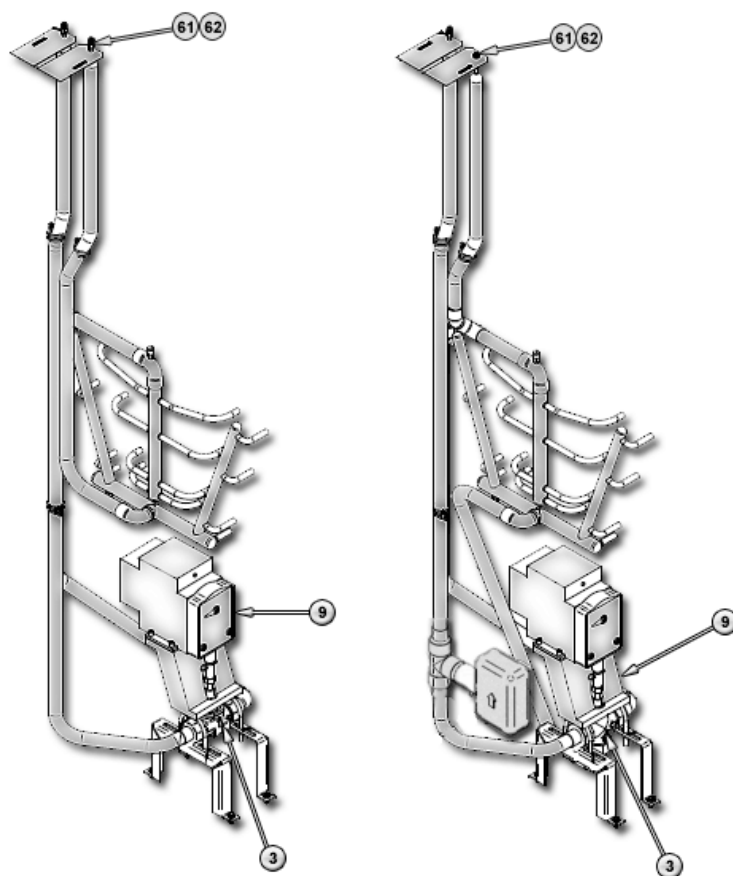
Item	Part #	Description	2W	3W
3	159009P1	VALVE 1" 2WAY UNION BODY	1	
	159010P1	VALVE 1" 3WAY UNION BODY		1
9	146352G1	ACTUATOR ASSY SP SML 92" WH	1	1
17	127998P2	SW FLOW ASSY 1-1/8"		1
61	P02-0290	VALVE CORE REFRIGERANT	2	2
62	187933G2	VALVE ACCESS BODY 1/4X SWT	2	2

11.1.2. Upflow: CW HP w/ HWRH



Item	Part #	Description	2W	3W
3	159006P3	VALVE CW2WAY 1" 250# B/C	1	
	159007P3	VALVE CW3WAY 1" 250# B/C		1
9	128122G2	ACTUATOR ASSY CHAL 3/5T /CAM77	1	1
21	R-0520	STRAINER -Y- 1/2" CI	1	1
22	1A23985P1	VALVE SOLND 1/2" NC 24V 50/60	1	1
55	P-1190	ADAPTER CU CXM 5/8"X1/2"	1	4
61	P02-0290	VALVE CORE REFRIGERANT	2	2
62	187933G2	VALVE ACCESS BODY 1/4X SWT	2	2

11.1.3. Upflow: CW High Pressure

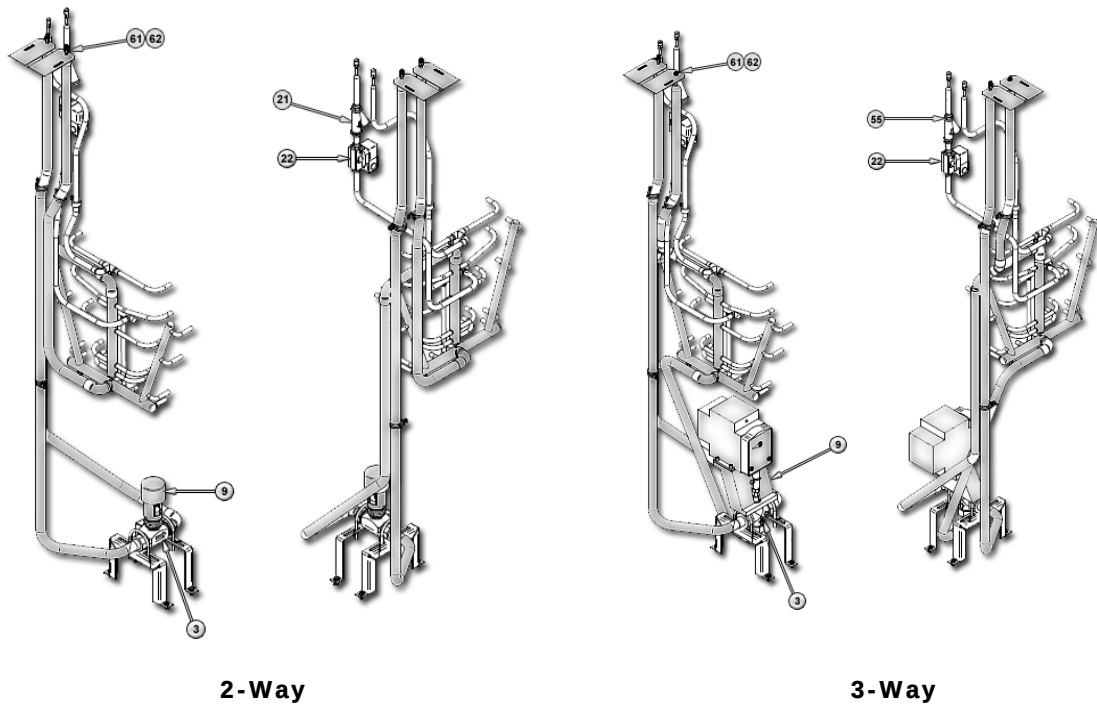


2-Way

3-Way

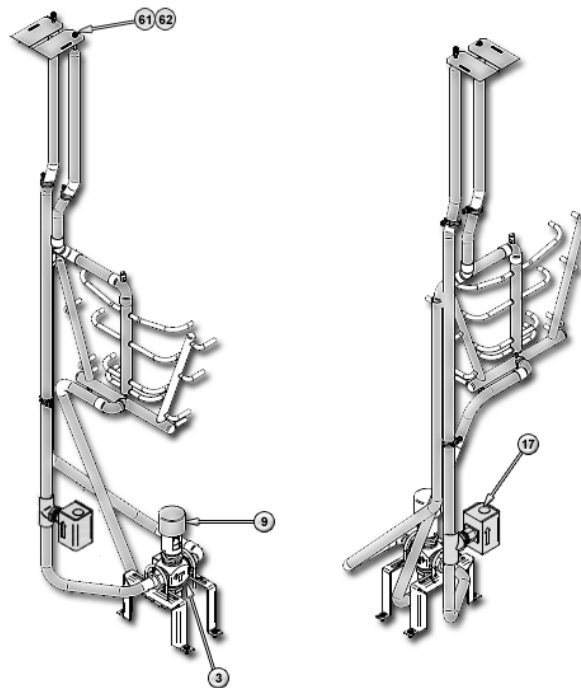
Item	Part #	Description	2W	3W
3	159007P3	VALVE CW3WAY 1" 250# B/C		1
	159006P3	VALVE CW2WAY 1" 250# B/C	1	
9	128122G2	ACTUATOR ASSY CHAL 3/5T /CAM77	1	1
61	P02-0290	VALVE CORE REFRIGERANT	2	2
62	187933G2	VALVE ACCESS BODY 1/4X SWT	2	2

11.1.4. Upflow: CW w/ HWRH

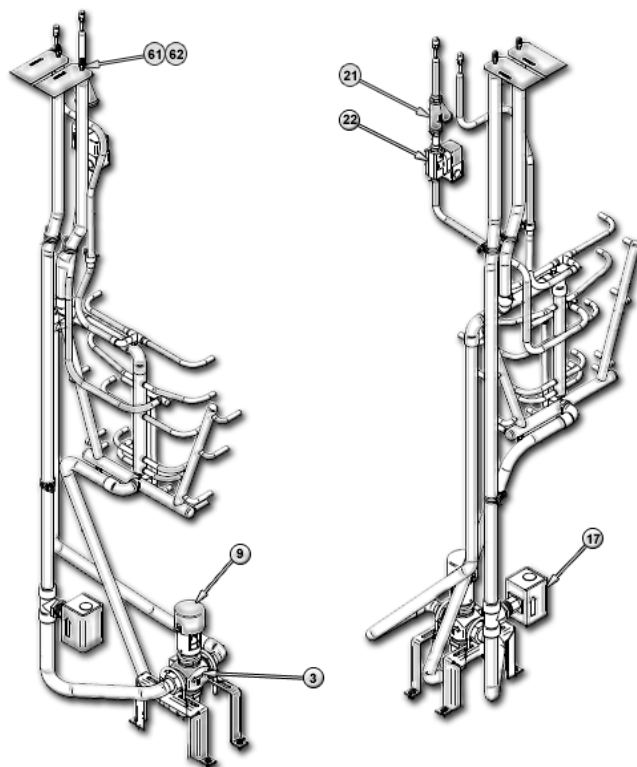


Item	Part #	Description	2W	3W
3	159009P1	VALVE 1" 2WAY UNION BODY	1	
	159010P1	VALVE 1" 3WAY UNION BODY		1
9	146352G1	ACTUATOR ASSY SP SML 92" WH	1	1
21	R-0520	STRAINER -Y- 1/2" CI	1	1
22	1A23985P1	VALVE SOLND 1/2" NC 24V 50/60	1	1
55	P-1190	ADAPTER CU CXM 5/8"X1/2"	1	4
61	P02-0290	VALVE CORE REFRIGERANT	2	2
62	187933G2	VALVE ACCESS BODY 1/4X SWT	2	2

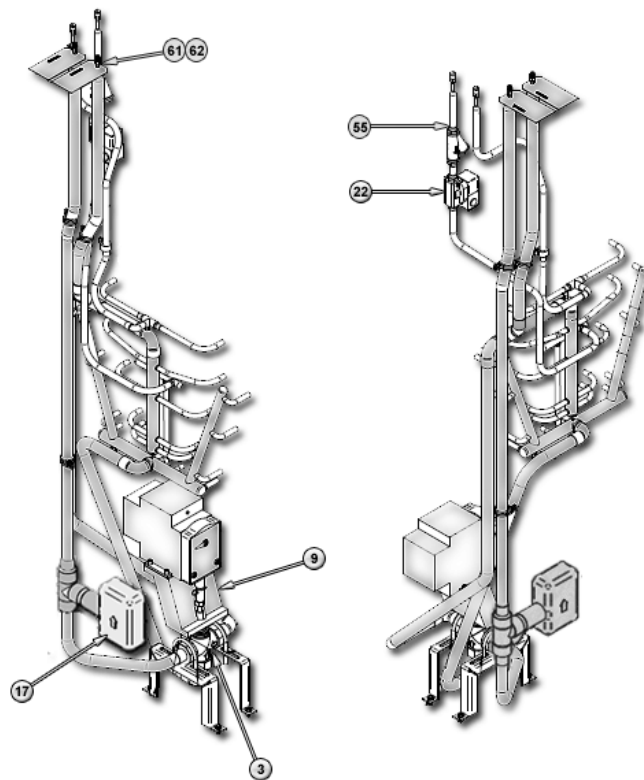
11.1.5. Upflow: CW w / FS



3-Way CW with FS



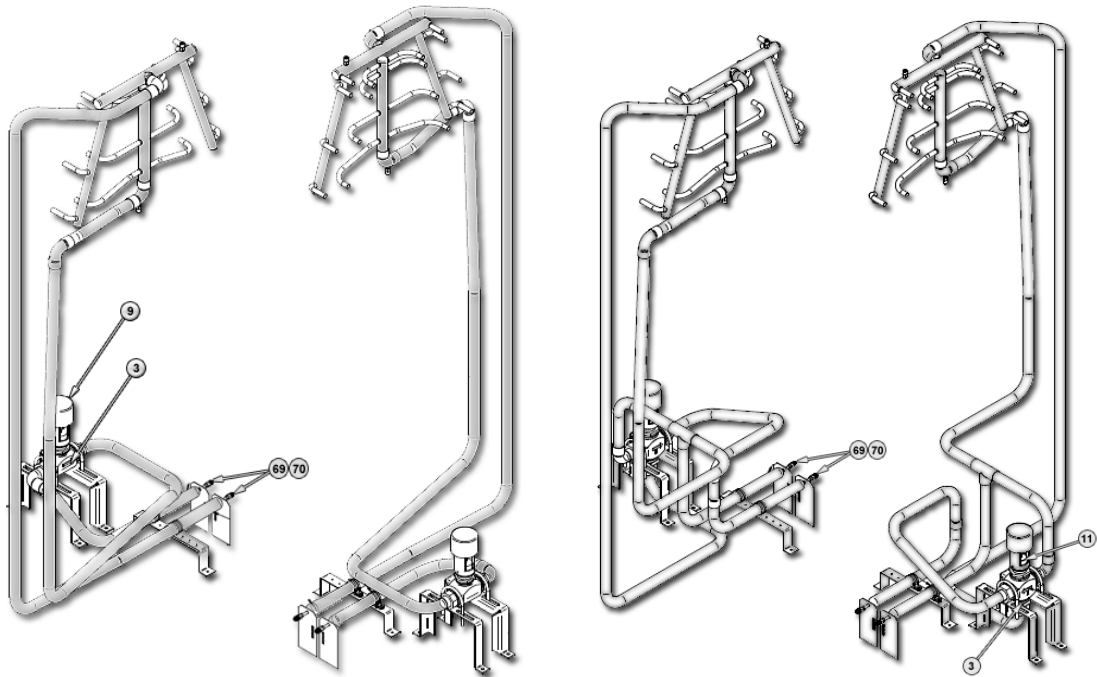
3-Way CW with FS w / HWRH



3-Way CW HP with FS w/HWRH

Item	Part #	Description	FS	FS w/HWRH	HP w/FS w/HWRH
3	159007P3	VALVE CW3WAY 1" 250# B/C			1
	159010P1	VALVE 1" 3WAY UNION BODY	1	1	
9	146352G1	ACTUATOR ASSY SP SML 92" WH	1	1	
	128122G2	ACTUATOR ASSY CHAL 3/5T /CAM77			1
17	127998P2	SW FLOW ASSY 1-1/8"	1	1	
	P-5540	SW FLOW SPDT 1.25"MPT 300#			1
21	R-0520	STRAINER -Y- 1/2" CI		1	
22	1A23985P1	VALVE SOLND 1/2" NC 24V 50/60		1	1
55	P-1190	ADAPTER CU CXM 5/8"X1/2"			1
61	P02-0290	VALVE CORE REFRIGERANT	2	2	2
62	187933G2	VALVE ACCESS BODY 1/4X SWT	2	2	2

11.1.6. Downflow: Chilled Water

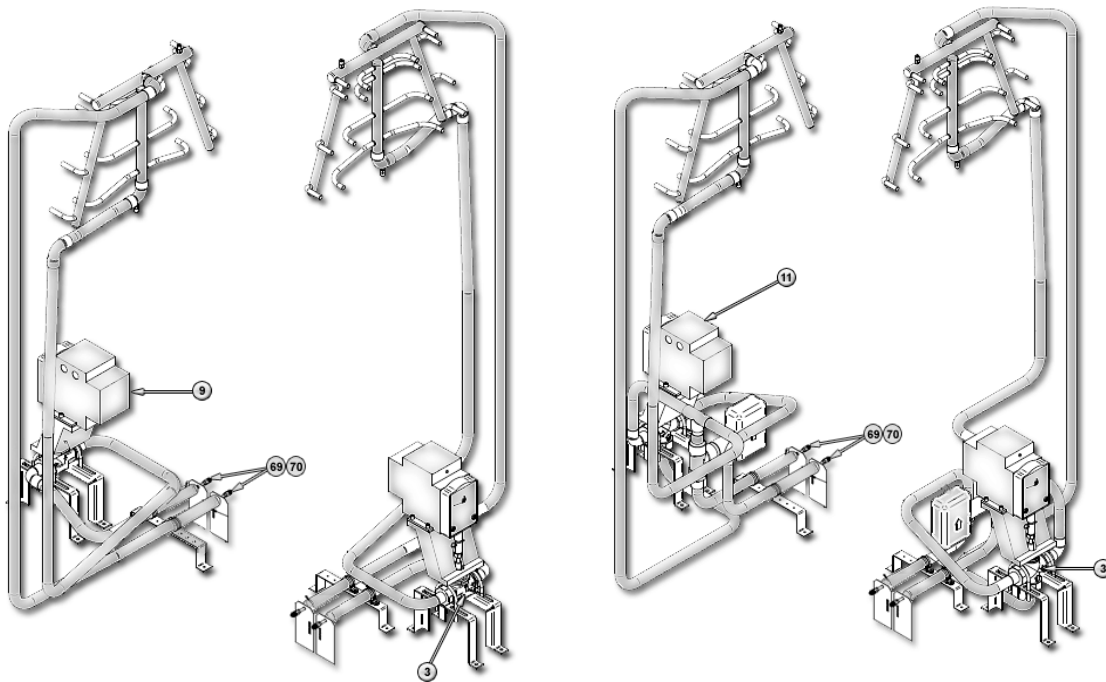


2-Way

3-Way

Item	Part #	Description	2W	3W
3	159009P1	VALVE 1" 2WAY UNION BODY	1	
	159010P1	VALVE 1" 3WAY UNION BODY		1
9	146352G1	ACTUATOR ASSY SP SML 92" WH	1	
11	146352G1	ACTUATOR ASSY SP SML 92" WH		1
69	187933G2	VALVE ACCESS BODY 1/4X SWT	2	2
70	P02-0290	VALVE CORE REFRIGERANT	2	2

11.1.7. Downflow: CW High Pressure

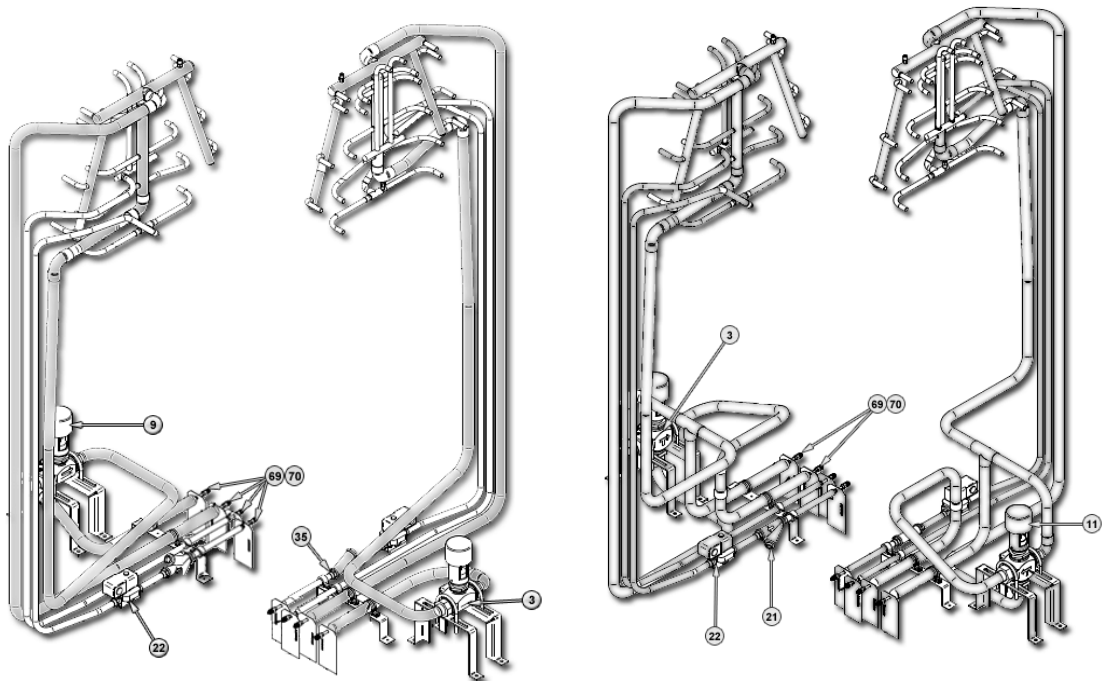


2-Way

3-Way

Item	Part #	Description	2W	3W
3	159006P3	VALVE CW2WAY 1" 250# B/C	1	
	159007P3	VALVE CW3WAY 1" 250# B/C		1
9	128122G2	ACTUATOR ASSY CHAL 3/5T /CAM77	1	
11	128122G2	ACTUATOR ASSY CHAL 3/5T /CAM77		1
69	187933G2	VALVE ACCESS BODY 1/4X SWT	2	2
70	P02-0290	VALVE CORE REFRIGERANT	2	2

11.1.8. Downflow: CW w/ Hot Water Reheat

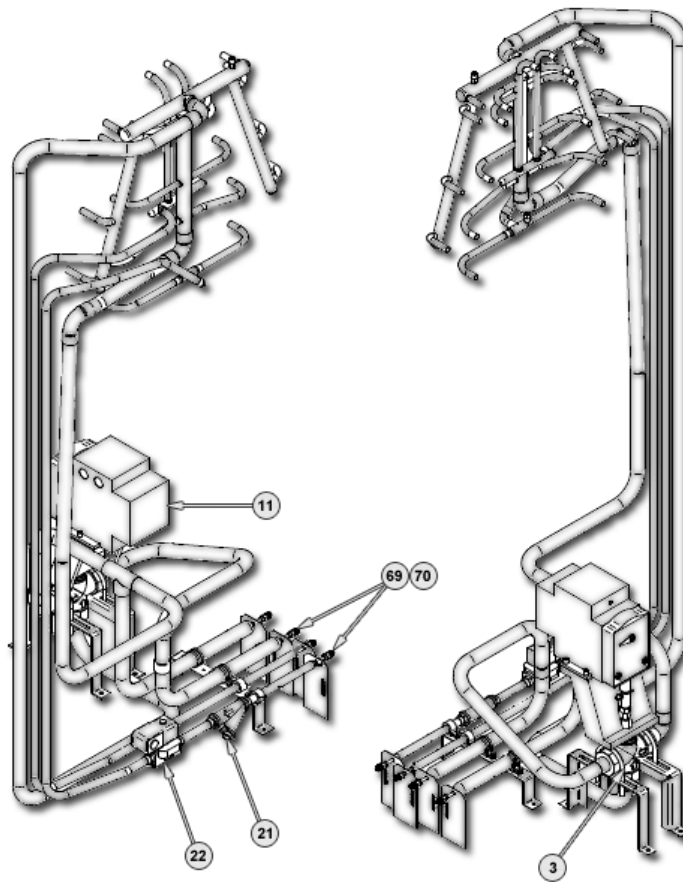


2-Way

3-Way

Item	Part #	Description	2W	3W
3	159009P1	VALVE 1" 2WAY UNION BODY	1	
	159010P1	VALVE 1" 3WAY UNION BODY		1
9	146352G1	ACTUATOR ASSY SP SML 92" WH	1	1
11	146352G1	ACTUATOR ASSY SP SML 92" WH		1
22	1A23985P1	VALVE SOLND 1/2" NC 24V 50/60	1	1
35	P-1190	ADAPTER CU CXM 5/8"X1/2"	1	
69	187933G2	VALVE ACCESS BODY 1/4X SWT	2	4
70	P02-0290	VALVE CORE REFRIGERANT	2	4

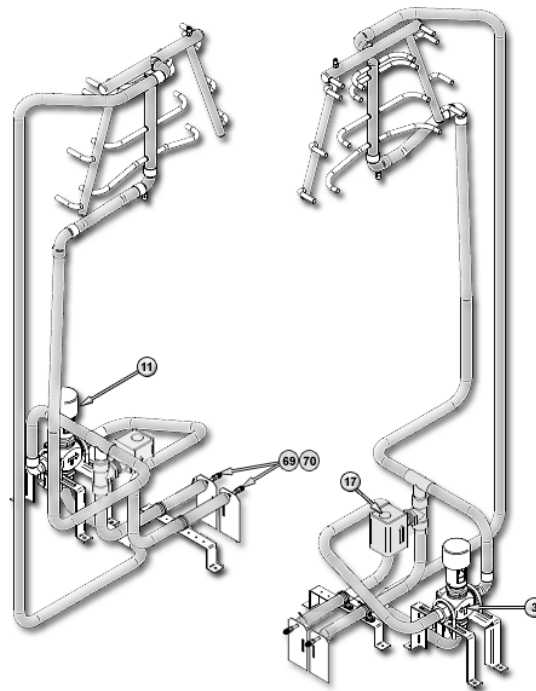
11.1.9. Downflow: CW HP w/ HWRH



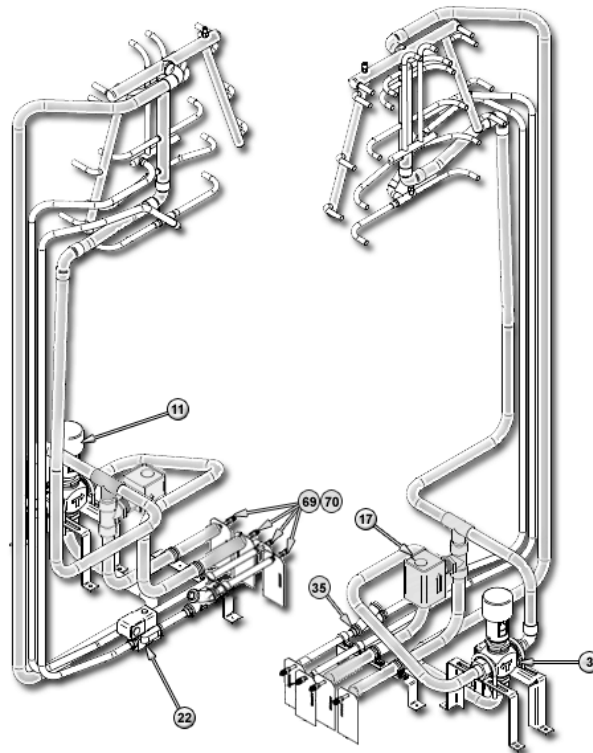
3-Way

Item	Part #	Description	3W
3	159007P3	VALVE CW3WAY 1" 250# B/C	1
11	128122G2	ACTUATOR ASSY CHAL 3/5T /CAM77	1
21	R-0520	STRAINER -Y- 1/2" CI	1
22	1A23985P1	VALVE SOLND 1/2" NC 24V 50/60	1
69	187933G2	VALVE ACCESS BODY 1/4X SWT	4
70	P02-0290	VALVE CORE REFRIGERANT	4

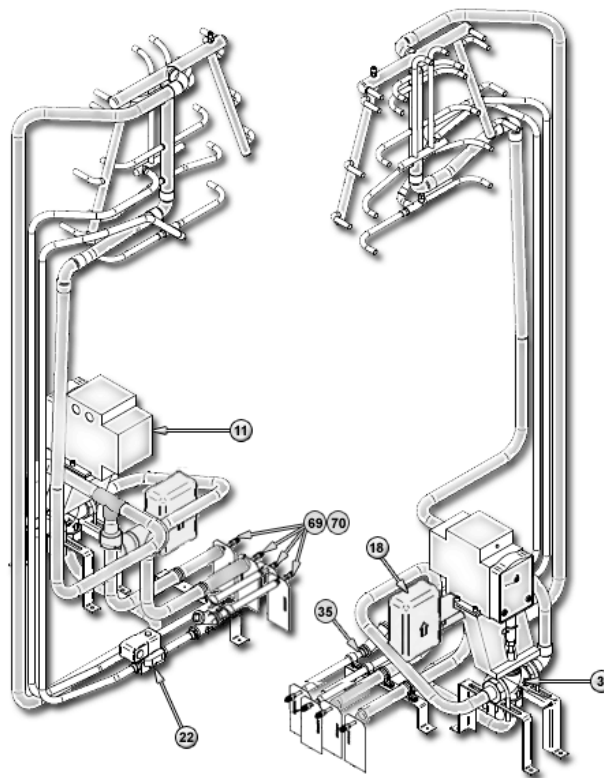
11.1.1.1. Downflow: CW w / FS



3-Way CW with FS



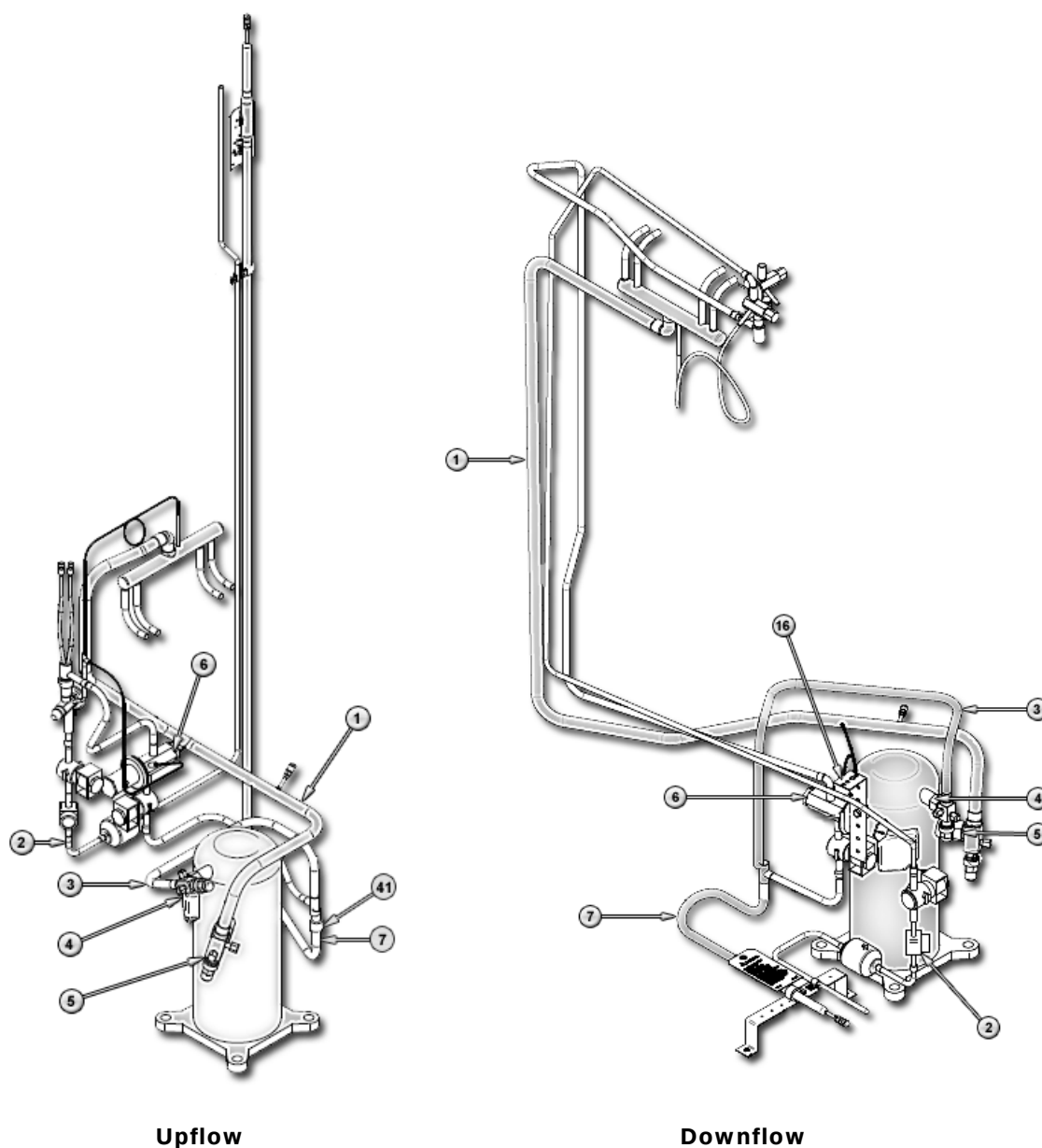
3-Way CW with FS w / HWRH



3-Way CW HP with FS w/HWRH

Item	Part #	Description	FS	FS w/HWRH	HP w/FS w/HWRH
3	159007P3	VALVE CW3WAY 1" 250# B/C			1
	159010P1	VALVE 1" 3WAY UNION BODY	1	1	
11	146352G1	ACTUATOR ASSY SP SML 92" WH	1	1	
	128122G2	ACTUATOR ASSY CHAL 3/5T /CAM77			1
17	127998P2	SW FLOW ASSY 1-1/8"	1	1	
18	P-5540	SW FLOW SPDT 1.25"MPT 300#			1
22	1A23985P1	VALVE SOLND 1/2" NC 24V 50/60		1	1
35	P-1190	ADAPTER CU CXM 5/8"X1/2"		1	1
69	187933G2	VALVE ACCESS BODY 1/4X SWT	4	4	4
70	P02-0290	VALVE CORE REFRIGERANT	4	4	4

11.2. Air Cooled



Upflow

Downflow

Upflow

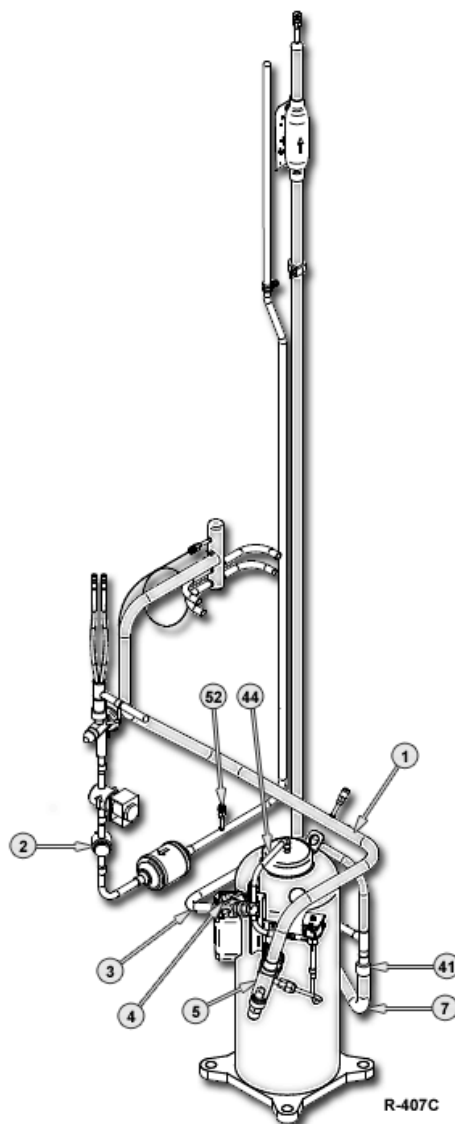
Item	Part #	Description	3T	5T
1	141104G3	Suction Line Assembly 3/5T U on Page 62		
2	141143G1	Liquid Line Assembly 3T A D/U on Page 63		
3	141127G1	Discharge Line Assembly 3/5T U on Page 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
6	141141G1	Hot Gas ASM on Page 64		
7	179738G2	Discharge Line Assembly on Page 43		
41	P-1100	REDUCER CU CXC 7/8"X5/8"		1

Downflow

Item	Part #	Description	3T	5T
1	196088G1	Suction Line Assembly 3T D STD/DIGI on Page 62		
2	141142G1	Liquid Line Assembly 3T A D/U on Page 63		
3	197154G1	Discharge Line Assembly 3T D on Page 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1

Challenger 3000 w/ iCOM

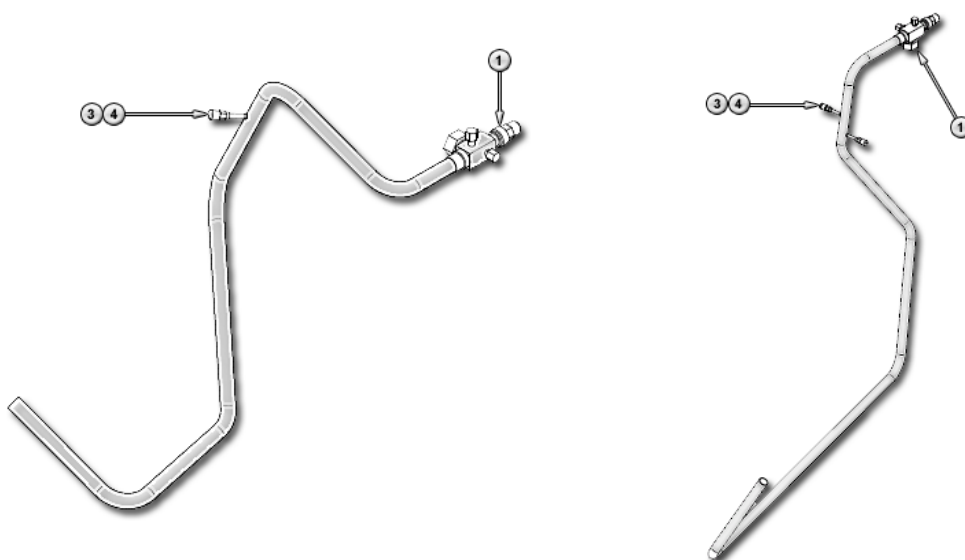
Item	Part #	Description	3T	5T
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
6	141141G1	Hot Gas ASM on Page 64		
7	197191G1	Discharge Line Assembly 3T D on Page 64		
16	F02-371A	SUPPORT VALVE TEV	1	1



R-407C

Item	Part #	Description	3T	5T
1	141104G3	Suction Line Assembly 3/5T U on Page 62		
2	141142G1	Liquid Line Assembly 3T A D/U on Page 63		
3	141127G1	Discharge Line Assembly 3/5T U on Page 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
7	179738G2	Discharge Line Assembly on Page 43		
41	P-1100	REDUCER CU CXC 7/8"X5/8"		1
44	196265G2	Digital Solenoid Valve Assembly on Page 62		
52	P02-0290	VALVE CORE REFRIGERANT	1	1

11.2.1. Suction Line Assembly 3/5T

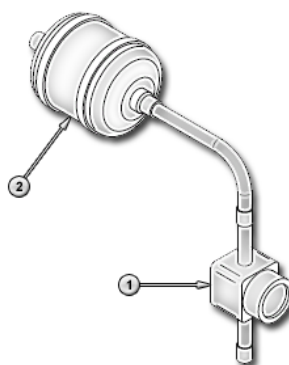


**Upflow (141104G3)
Downflow (196051G1)**

Downflow (196088G1)

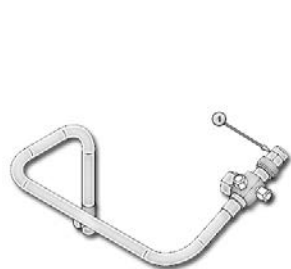
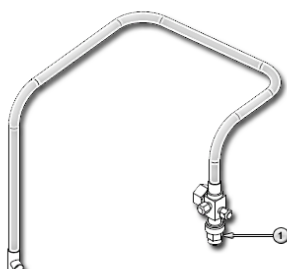
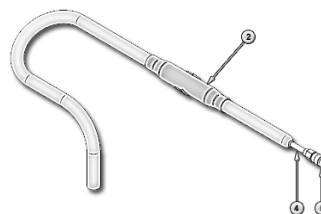
Item	Part #	Description	3T	5T
1	1C16925P1	VALVE ROTOLOCK 5/8" X1"-14UNS	1	1
	1C16925P2	VALVE ROTOLOCK 7/8" X1-1/4"-12	1	1
3	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
	P02-0270	VALVE ACCESS BODY 1/4X SWT	1	1
4	P02-0290	VALVE CORE REFRIGERANT	1	1

11.2.2. Liquid Line Assembly 3T A D/U (14142G1)



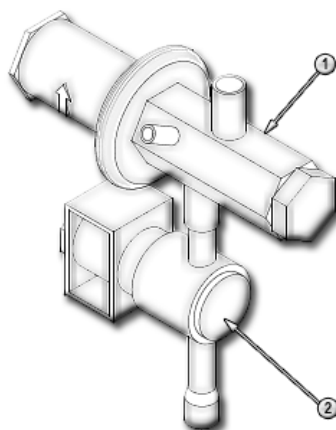
Item	Part #	Description	3T	5T
1	P-3870	INDICATOR LIQUID 3/8 ODF	1	1
2	P03-0030	FILTER/DRIER 3/8ODF SLDR	1	1

11.2.3. Discharge Line Assembly D/U


Upflow (141127G1)

Downflow (151150G1)

Downflow (197191G1)

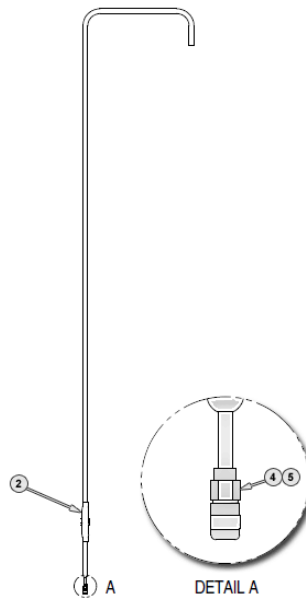
Item	Part #	Description	Type	3T	5T
1	1C16925P1	VALVE ROTOLOCK 5/8" X1"-14UNS	UPFLOW 141127G1	1	1
	1C16925P2	VALVE ROTOLOCK 7/8" X1-1/4"-12		1	1
	151141P1	VALVE ROTOLOCK 5/8"X1"-14UNS	DOWNFLOW 197154G1	1	1
2	W-0093	VALVE CHECK 5/8" OD	DOWNFLOW 197191G1	1	1
4	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD		1	1
5	P02-0290	VALVE CORE REFRIGERANT		1	1

11.2.4. Hot Gas ASM 3/5T (141141G1)



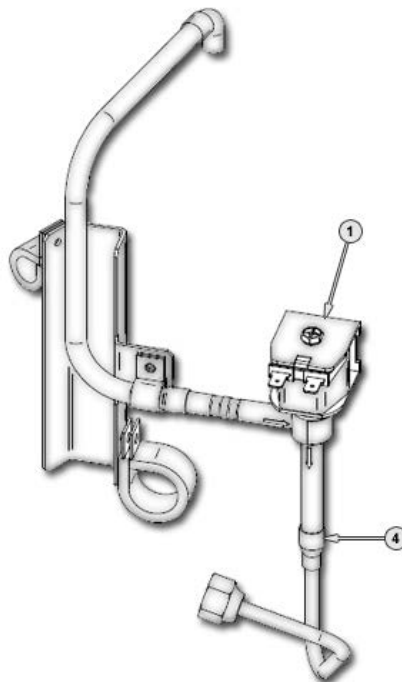
Item	Part #	Description	3T	5T
1	P-0180	VALVE BYPASS/DISCH 1/2ODF SLDR	1	1
2	P-0080	VALVE SOLENOID 1/2MXF 24V-50/60	1	1

11.2.5. Discharge Line Assembly (179738G2)



Item	Part #	Description	3T	5T
2	W-0093	VALVE CHECK 5/8" OD	1	1
4	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
5	P02-0290	VALVE CORE REFRIGERANT	1	1

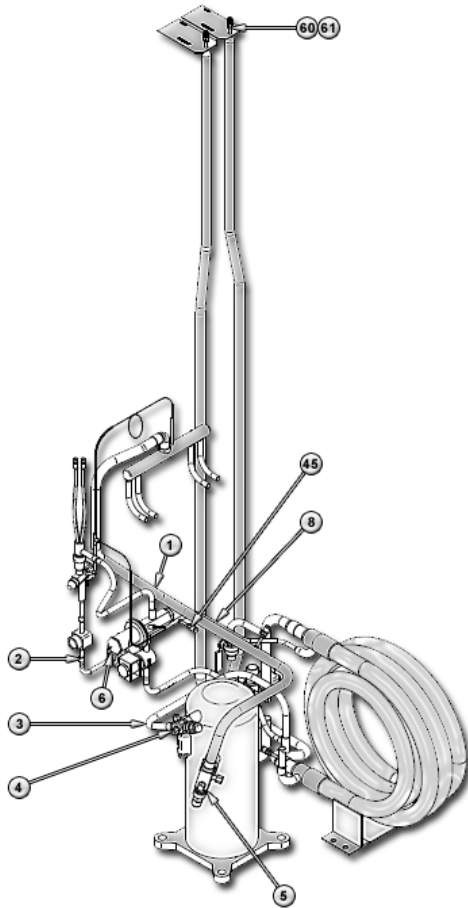
11.2.6. Digital Solenoid Valve Assembly



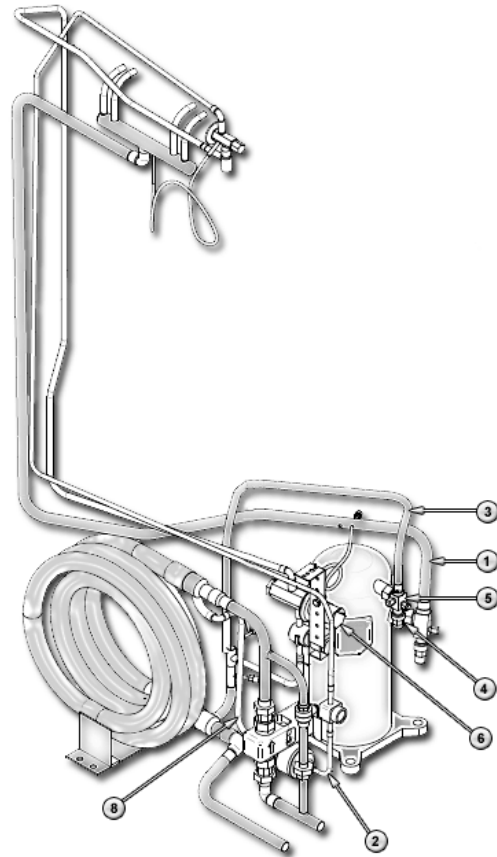
Item	Part #	Description	3T	5T
1	180715G1	VALVE SOLND D_SCRL 3/8MXM 24V		1
4	124768P1	REDUCER CU CXC 3/8X1/4		1

11.3. Water /Glycol

11.3.1. Water /Glycol Cooled POE



Upflow



Downflow

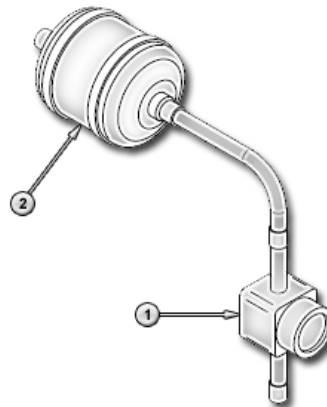
Upflow

Item	Part #	Description	3T	5T
1	141104G3	Suction Line Assembly 3/5T U on Page 62		
2	141143G1	Liquid Line Assembly 3T W D/U 3000 on Page 67		
3	141127G1	Discharge Line Assembly on Page 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
6	141141G1	Hot Gas ASM on Page 64		
8	196664G1	Liquid Line Assembly ½ on Page 67		
45	181388P2	TRANSDUCER 0-500 PSIS 0.5-4.5V	1	1

Downflow

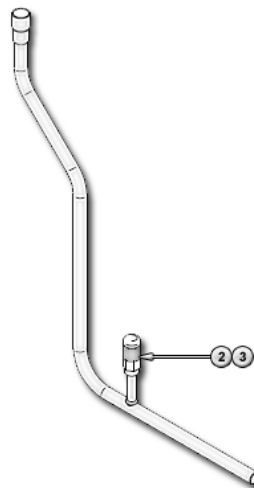
Item	Part #	Description	3T	5T
1	196051G1	Suction Line Assembly 5T STD/DIG on Page 62		
2	141143G1	Liquid Line Assembly 3T W D/U 3000 on Page 67		
3	151150G1	Discharge Line Assembly 3/5T D on Page 68		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
6	141141G1	Hot Gas ASM on Page 64		
8	196665G1	Liquid Line Assembly ½ on Page 67		
48	181388P2	TRANSDUCER 0-500 PSIS 0.5-4.5V	1	1

11.3.2. Liquid Line Assembly 3T D/U 3000 (141143G1)



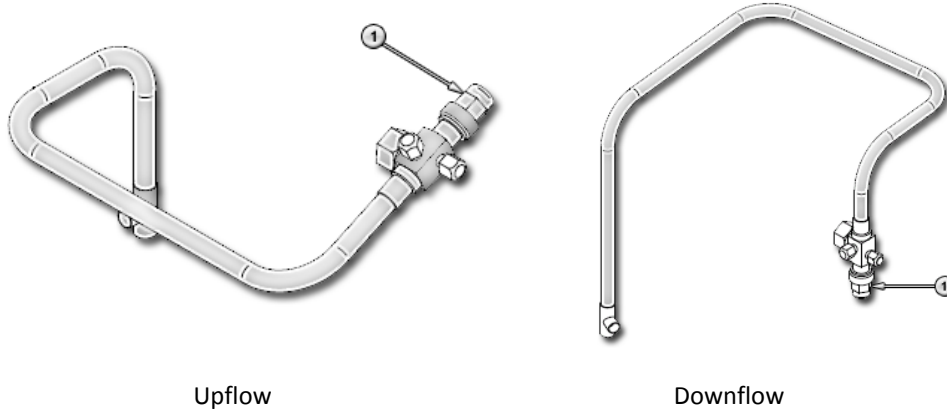
Item	Part #	Description	3T	5T
1	P-3870	INDICATOR LIQUID 3/8 ODF	1	1
2	P03-0030	FILTER/DRIER 3/8ODF SLDR	1	1

11.3.3. Liquid Line Assembly ½ (196665G1-G2)



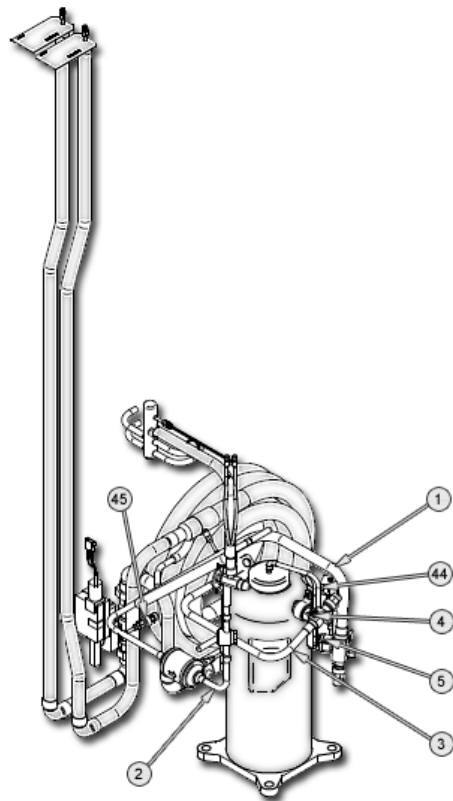
Item	Part #	Description	3T	5T
2	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
3	P02-0290	VALVE CORE REFRIGERANT	1	1

11.3.4. Discharge Line Assembly 3T/5T C3000

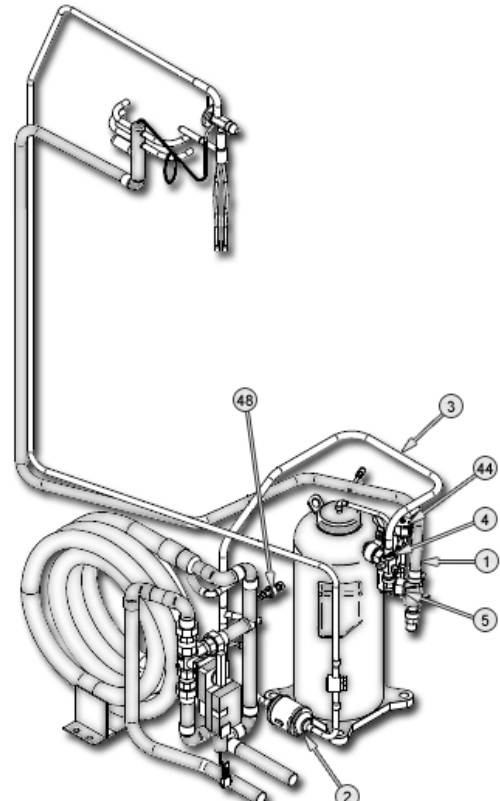


Item	Part #	Description	3T	5T
1	1C16925P2	VALVE ROTOLOCK 7/8" X1-1/4"-12	1	
2	151141P1	VALVE ROTOLOCK 5/8"X1"-14UNS	1	1

11.3.5. Water/Glycol Cooled R-407C



Upflow



Downflow

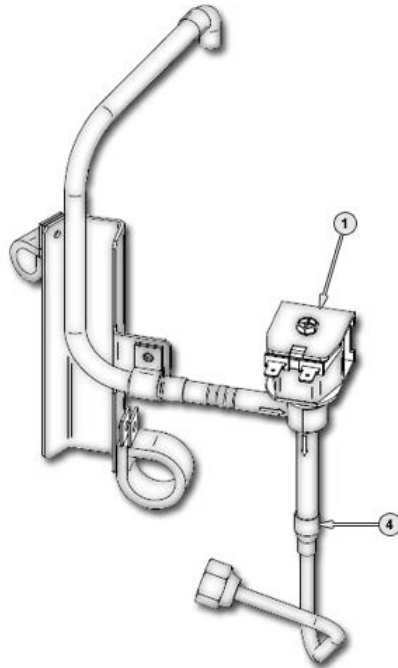
Upflow

Item	Part #	Description	3T	5T
1	141104G3	Suction Line Assembly 3/5T U on Page 62		
2	141143G1	Liquid Line Assembly 3T W D/U 3000 on Page 67		
3	141127G1	Discharge Line Assembly on Page 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
45	181388P2	TRANSDUCER 0-500 PSIS 0.5-4.5V	1	1

Downflow

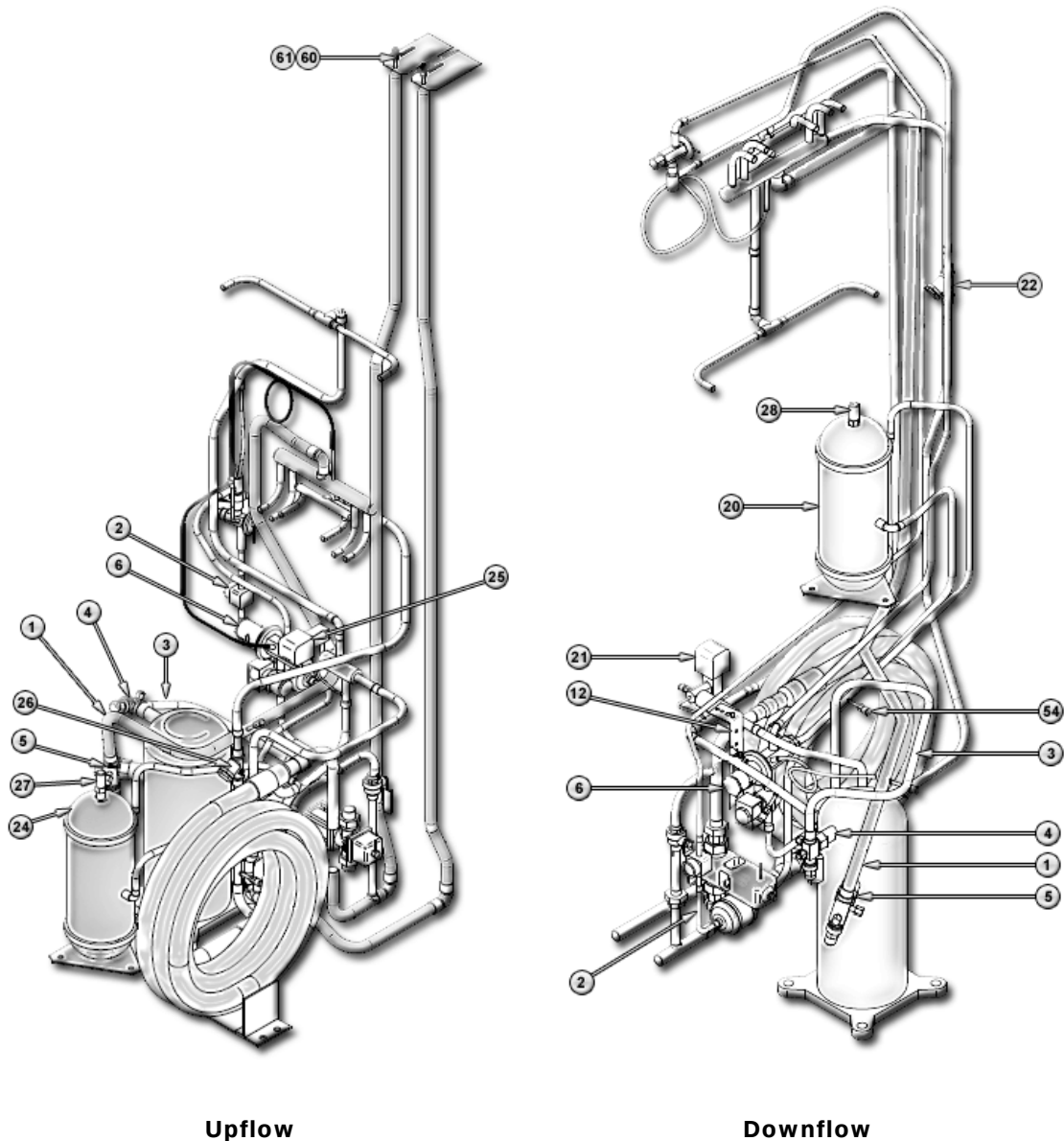
Item	Part #	Description	3T	5T
1	196051G1	Suction Line Assembly 5T STD/DIG on Page 62		
2	141143G1	Liquid Line Assembly 3T W D/U 3000 on Page 67		
3	151150G1	Discharge Line Assembly 3/5T D on Page 68		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
44	196265G2	Digital Solenoid Valve Assembly on Page 62		
48	181388P2	TRANSDUCER 0-500 PSIS 0.5-4.5V	1	1

11.3.6. Digital Solenoid Valve Assembly



Item	Part #	Description	3T	5T
1	180715G1	VALVE SOLND D_SCRL 3/8MXM 24V		1
4	124768P1	REDUCER CU CXC 3/8X1/4		1

11.3.7. Hot Gas Reheat



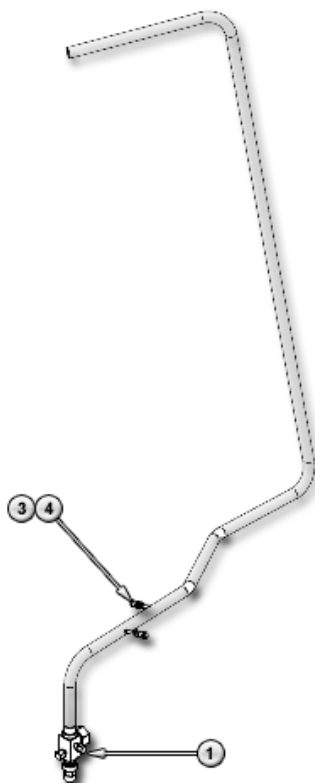
Upflow

Item	Part #	Description	3T	5T
1	141104G3	Suction Line Assembly 3/5T U on Page 62		
2	141143G1	Liquid Line Assembly 3T W D/U 3000 on Page 67		
3	141127G1	Discharge Line Assembly on Page 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
6	141141G1	Hot Gas ASM on Page 64		
24	148213P1	RECVR V 5X14 .50IN/OUT 450# SG	1	1
25	129644P1	VALVE HEAT RECLAIM	1	1
26	P-411B	VALVE CHECK BRASS IN-LINE 5/8	1	1
27	168197P1	VALVE RELIEF 440# 1/4NPT	1	1
61	P02-0290	VALVE CORE REFRIGERANT	1	1
60	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1

Downflow

Item	Part #	Description	3T	5T
1	196088G1	Suction Line Assembly 5T D STD/DIG on Page 64		
2	141143G1	Liquid Line Assembly 3T W D/U 3000 on Page 67		
3	151150G1	Discharge Line Assembly 3/5T D on Page 68		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
6	141141G1	Hot Gas ASM on Page 64		
12	F02-371A	SUPPORT VALVE TEV	1	1
20	148213P1	RECVR V 5X14 .50IN/OUT 450# SG	1	1
21	129644P1	VALVE HEAT RECLAIM	1	1
22	P-411B	VALVE CHECK BRASS IN-LINE 5/8	1	1
28	190899P1	VALVE RELIEF 480# 1/4NPT X 3/8	1	1
54	181388P2	TRANSDUCER 0-500 PSIS 0.5-4.5V	1	1

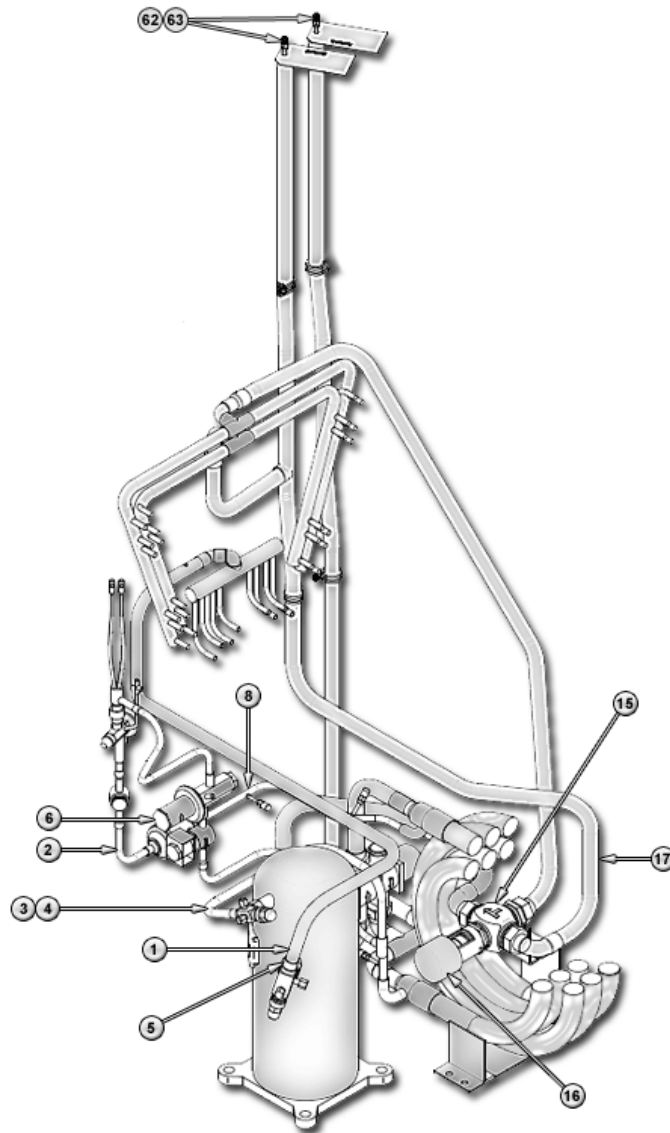
11.3.8. Suction Assembly (196088G1)



Item	Part #	Description	3T	5T
1	1C16925P2	VALVE ROTOLOCK 7/8" X1-1/4"-12	1	
3	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
4	P02-0290	VALVE CORE REFRIGERANT	1	1

11.4. Glycool Cooled

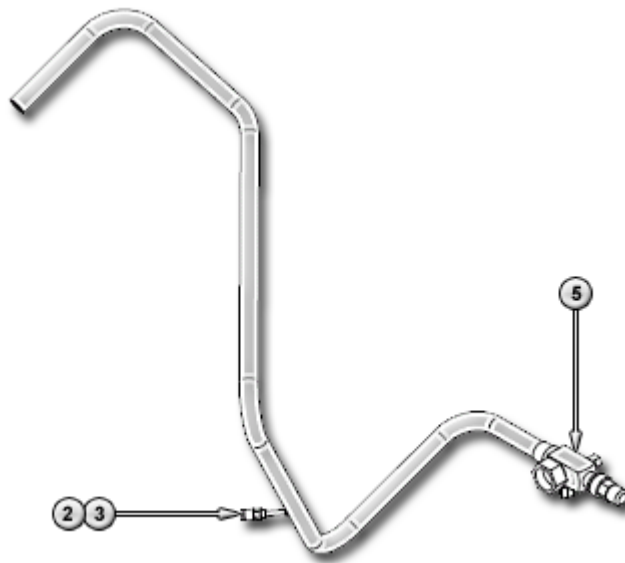
11.4.1. Standard / High Pressure



Upflow

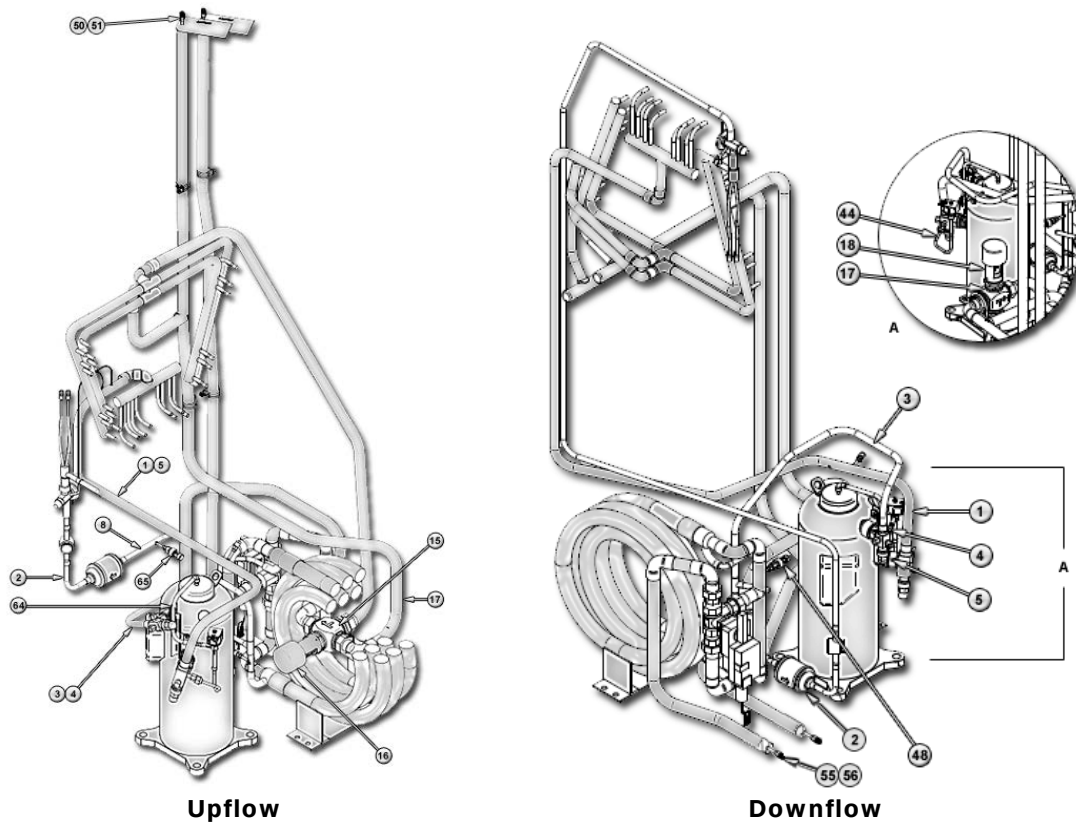
Item	Part #	Description	3T	5T
1	196693G1	Suction Line Assembly on Page 66		
2	141143G2	Liquid Line Assembly 5T W D/U 3000 on Page 67		
3	141127G1	Discharge Line Assembly 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON	1	1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON	1	1
6	141141G1	Hot Gas ASM on Page 64		
8	196664G1	Liquid Assembly ½ on Page 67		
15	159010P1	VALVE 1" 3WAY UNION BODY	1	1
16	146352G1	ACTUATOR ASSY SP SML 92" WH	1	1
17	148039P1	SENSOR GLYCOL W/PLUG	1	1
62	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	2	2
63	P02-0290	VALVE CORE REFRIGERANT	2	2

11.4.2. Suction Line Assembly (196693G1)



Item	Part #	Description	3T	5T
2	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
3	P02-0290	VALVE CORE REFRIGERANT	1	1
5	1C16925P2	VALVE ROTOLOCK 7/8" X1-1/4"-12	1	

11.4.3. Digital



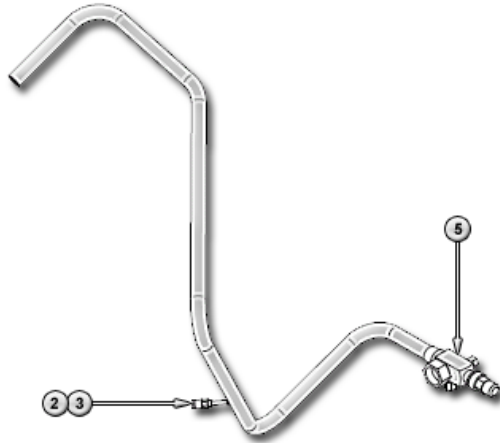
Upflow

Item	Part #	Description	3T	5T
1	196693G1	Suction Line Assembly 5T on Page 76		
2	141143G2	Liquid Line Assembly 5T W D/U 3000 on Page 67		
3	141127G1	Discharge Line Assembly on Page 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON		1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON		1
8	196664G1	Liquid Assembly ½ on Page 67		
15	159010P1	VALVE 1" 3WAY UNION BODY		1
16	146352G1	ACTUATOR ASSY SP SML 92" WH		1
17	148039P1	SENSOR GLYCOL W/PLUG		1
62	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	2	2
63	P02-0290	VALVE CORE REFRIGERANT	2	2
64	196265G2	Digital Solenoid Valve Assembly on Page 62		1

Downflow

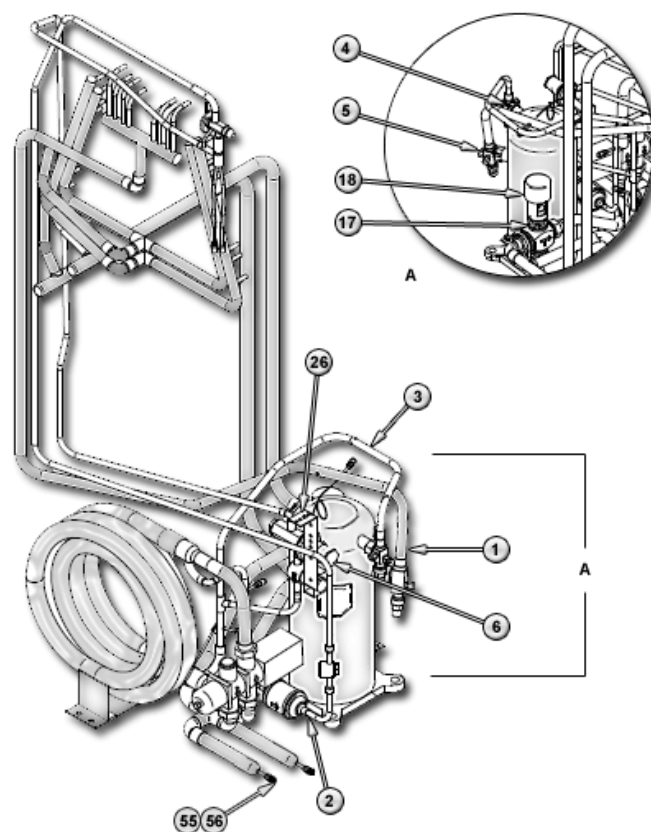
Item	Part #	Description	3T	5T
1	196051G1	Suction Line Assembly 5T on Page 62		
2	141143G2	Liquid Line Assembly 5T W D/U 3000 on Page 67		
3	151150G1	Discharge Line Assembly on Page 68		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON		1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON		1
17	159010P1	VALVE 1" 3WAY UNION BODY		1
18	146352G1	ACTUATOR ASSY SP SML 92" WH		1
44	180715G1	VALVE SOLND D_SCRL 3/8MXM 24V		1
48	181388P2	TRANSDUCER 0-500 PSIS 0.5-4.5V		1
55	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
56	P02-0290	VALVE CORE REFRIGERANT	1	1

11.4.4. Suction Line Assembly 5T Upflow (196693G1)



Item	Part #	Description	3T	5T
2	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
3	P02-0290	VALVE CORE REFRIGERANT	1	1
5	1C16925P1	VALVE ROTOLOCK 5/8" X1"-14UNS	1	1
	1C16925P2	VALVE ROTOLOCK 7/8" X1-1/4"-12	1	1

11.4.5. Scroll

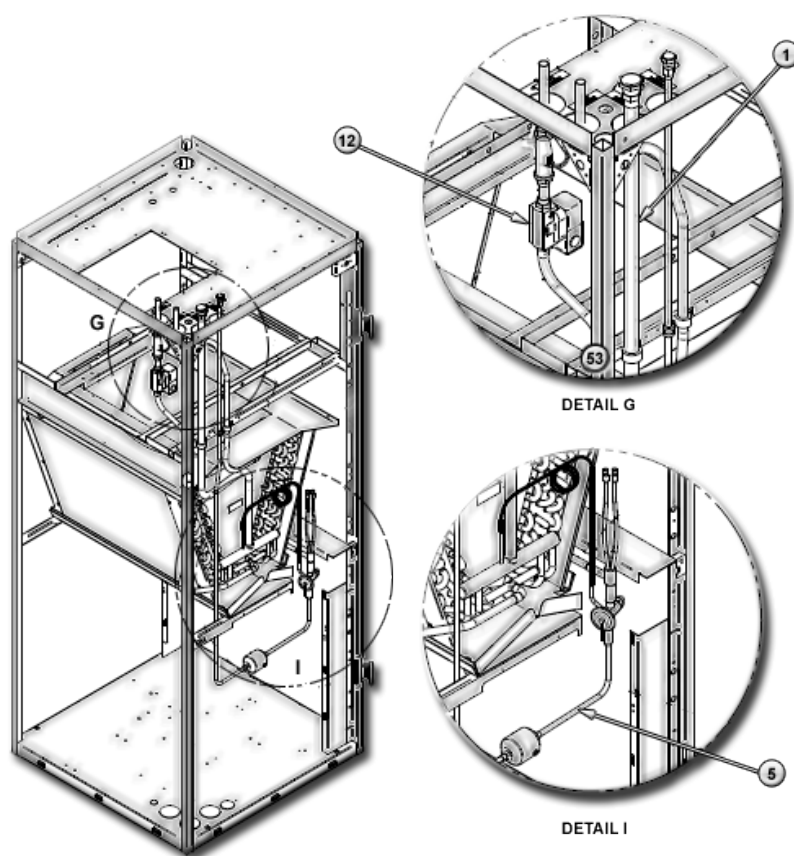


Downflow

Item	Part #	Description	3T	5T
1	196051G1	Suction Assembly 5T Downflow 55		
2	141143G2	Liquid Line Assembly 5T Downflow/Upflow on Page 67		
3	196052G1	Discharge Assembly 5T Downflow STD/DIG on Page 64		
4	W-0320	SEAL ROTOLOCK 1"X14" TEFLON		1
5	W-0330	SEAL ROTOLOCK 1-1/4"X12"TEFLON		1
6	141141G1	Hot Gas ASM on Page 64		
17	159010P1	VALVE 1" 3WAY UNION BODY		1
18	146352G1	ACTUATOR ASSY SP SML 92" WH		1
26	F02-371A	SUPPORT VALVE TEV		1
55	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
56	P02-0290	VALVE CORE REFRIGERANT	1	1

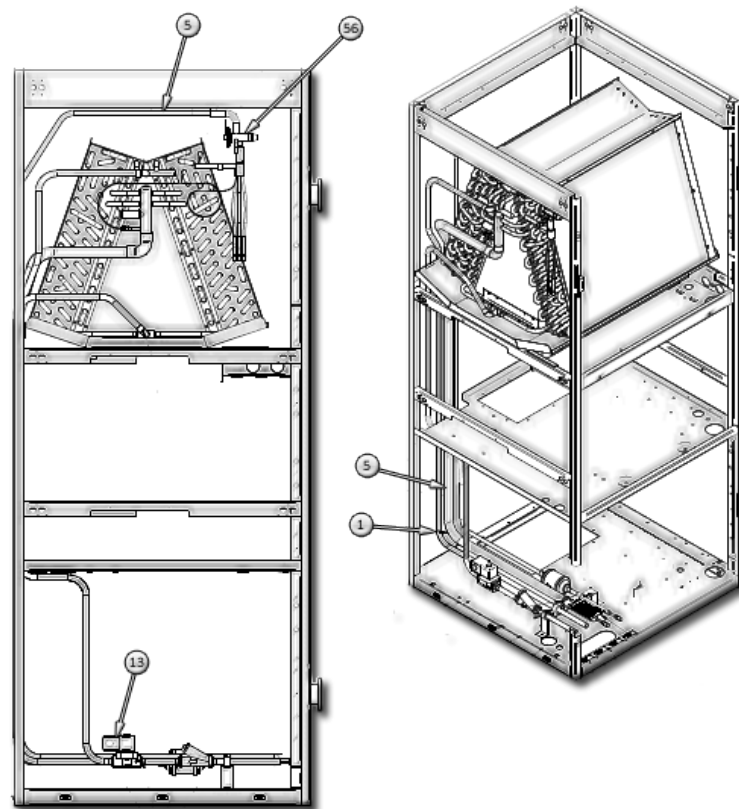
11.5. Evaporator

11.5.1. Upflow



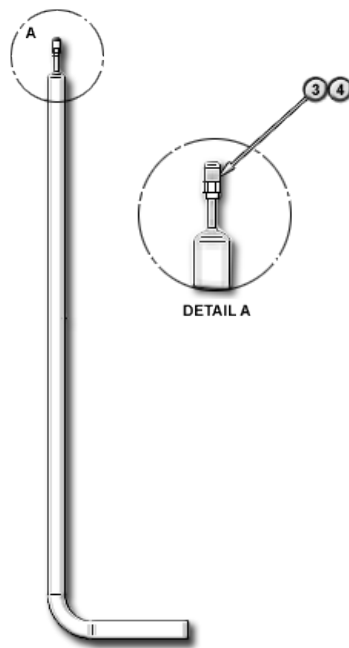
Item	Part #	Description	3T	5T
1	141144	Suction Line Assembly 3T/5T EVAP Upflow on Page 80		
5	141145	Liquid Line Assembly 3T/5T EVAP Upflow on Page 81		
12	1A23985P1	VALVE SOLND 1/2" NC 24V 50/60	1	1

11.5.2. Downflow



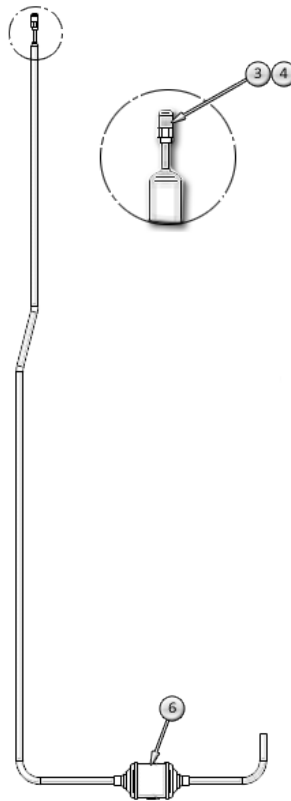
Item	Part #	Description	3T	5T
1	196835G1	Suction Line Assembly on Page 73		
5	196836G1	Liquid Line Assembly on Page 74		
13	1A23985P1	VALVE SOLND 1/2" NC 24V 50/60	1	1
56	176251G4	TXV+DISTRIBUTOR ASSY 5T C3K DF		1

11.5.3. Suction Line Assembly 3T/5T Evap Upflow (141144)



Item	Part #	Description	3T	5T
3	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
	1C19508P2	COUPLING F 1.13 THD X 0.88" ID	1	1
	P02-0270	VALVE ACCESS BODY 1/4X SWT	1	1
4	P02-0290	VALVE CORE REFRIGERANT		1

11.5.4. Liquid Line Assembly 3T/5T Evap Upflow (141145)



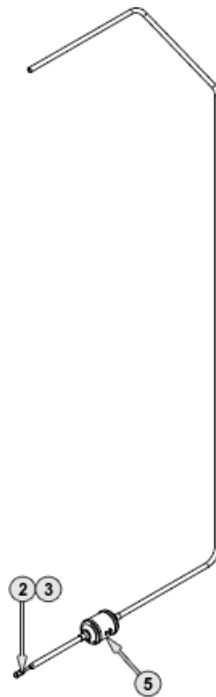
Item	Part #	Description	3T	5T
3	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD		1
	1C19508P1	COUPLING F 0.63 THD X 0.38" ID	1	
4	P02-0290	VALVE CORE REFRIGERANT		1
6	128177P1	FILTER/DRIER SOLDER	1	1
	P03-0030	FILTER/DRIER 3/8ODF SLDR	1	

11.5.5. Suction Assembly (196835G1)



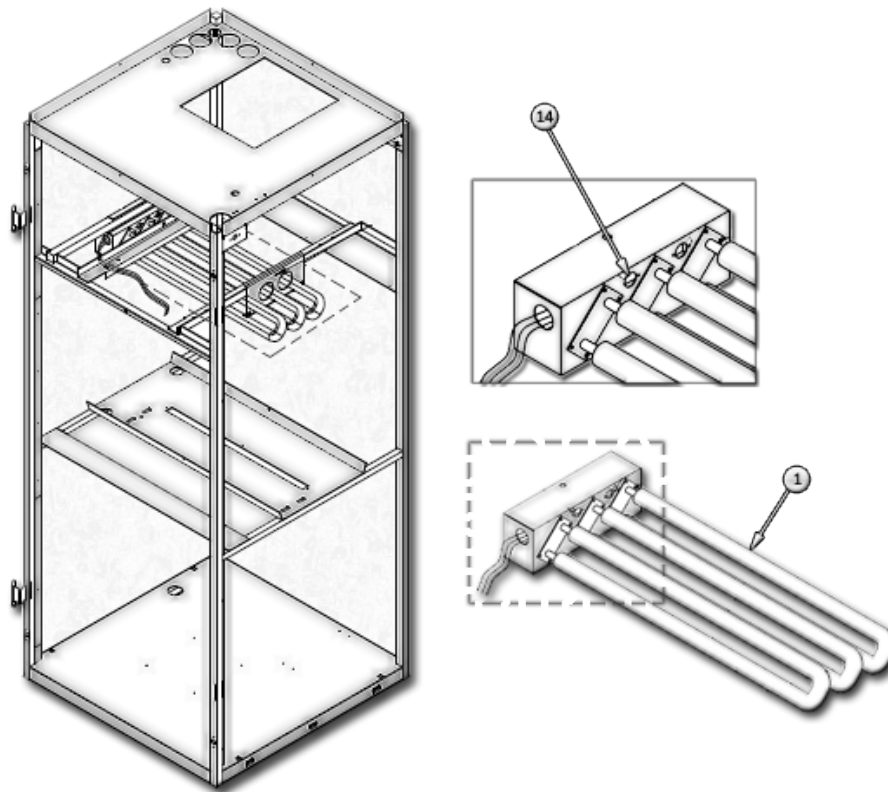
Item	Part #	Description	3T	5T
3	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
4	P02-0290	VALVE CORE REFRIGERANT	1	1

11.5.6. Liquid Assembly (196836G1)



Item	Part #	Description	3T	5T
2	187933G2	VALVE ACC BODY 1/4 EXT1" BEAD	1	1
3	P02-0290	VALVE CORE REFRIGERANT	1	1
5	128177P1	FILTER/DRIER SOLDER	1	1

12. Reheat Section



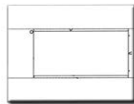
Item	Part #	Description	kW	Voltage	Quantity
1	148366P1	HEATER 03.0KW 208V SS 304 S/F	9kW	200/208	3
	148366P2	HEATER 03.0KW 230V SS 304 S/F	9kW	230/400	3
	148366P4	HEATER 03.0KW 460V SS 304 S/F	9kW	460	3
	136742P5	REHEAT 3KW 575V	9kW	575	3
	148366P6	HEATER 05.0KW 208V SS 304 S/F	15kW	200/208	3
	148366P7	HEATER 05.0KW 230V SS 304 S/F	15kW	230/400	3
	148366P9	HEATER 05.0KW 460V SS 304 S/F	15kW	460	3
	148366P10	HEATER 05.0KW 575V SS 304 S/F	15kW	575	3
14	136965P1	SAFETY SWT THERM 105F	9kW	All	2
			15kW	All	2

13. Parts Gallery

Blower/Motor Section

			
136589P1	136591P1	136610P1	183105P1
			
197699P1	B13-0200	B-0080	B-0660
			
MOTORS			

Coil Section

			
128157P1	136631G1	136705G1	136778G1
			
136653G4	P02-0290		

Compressor Section

			
1D15059P1	1D15059P1	132102P1	176751P1
			
180970P1	183151P1		

Condenser Section

		
1C14431P1	128159P1	136696P1

Electrical Section

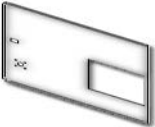
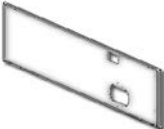
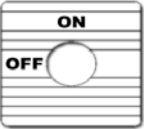
			
1C18351P1	1C18354P1	1C18603P1	123273P1
			
E-3620	124502P2	124547P1	128199P1
			
132487P1	135409P2	135637P5	136201P1
			
136221P1	136222P1	136223P1	136233P1

			
136240P7	136241P10	136300P1	136303P1
			
136810P1	136811P1	139165P1	139166P1
			
149110G1	179747P2	179751P1	179859G1
			
180632G2	180792P1	181464G1	181898P1
			
185110P1	200509P1	416761G1	416911G2
			
517017P1	B02-0190	E03-0170	E-011A
			
E-0110	E-0130	E-288A	E-288B

Challenger 3000 w/ iCOM

			
E-362B	E-1020	E-1040	E-1200
			
E-2350	E-2440		

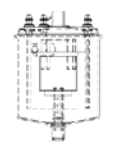
Exterior Section

			
1C18352P1	136607G2	136607P1	136608P1
			
136612G1	179746P1	180917P1	180917P2
			
184138G1	410624P1	E-288B	F30-0030

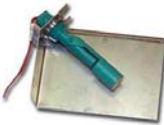
Filter Section


195551P1

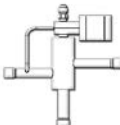
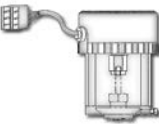
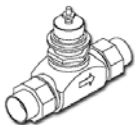
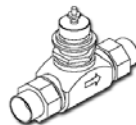
Humidifier Section

			
1A16207P1	1A19271P1	1C11305P1	1C18003G3
			
121965P2	124216P2	124220P1	124578P1
			
127781P1	127992P1	128759P1	136635P1
			
136743P1	136798P1	136812P1	136956P1
			
136972P1	179856G1	185108P1	E03-0170
			
E05-4600	F20-2300	F-6090	H-014A
			
H-0020	H-0370	H-0450	P02-0260

Challenger 3000 w/ iCOM

			
P15-0140	P15-0150	P15-0170	P-057A
			
P-229A	179859G1	P-5400	R13-0090
			
S13-0140			

Piping Section

			
1A23985P1	127998P2	128177P1	129644P1
			
135568P1	146352G1	148039P1	148213P1
			
151141P1	159006P3	159007P3	159009P1
			
159010P1	190899P1	176251G4	180715G1

			
181388P2	187933G2	190899P1	F02-371A
			
P02-0290	P03-0030	P-0050	P-0070
			
P-0080	P-0180	P-411B	P-3870
			
R-0520	W-0093	W-0320	W-0330

Reheat Section

	
148366P1	136965P1

14. Revision Page

Revision Date	Modification	Details
05/2013	Condenser Section	Added 5Ton 3Way SP HP MBV
07/2011	-	New layout conversion.
01/2010	-	Parts Manual Release.