

# CURTIS

## *R/S 50D and R/S 50AD*

DIRECT DRIVE

AIR COOLED

LOT NUMBER:

R/S 50D 16, 17  
R/S 50AD 15, 16

### HOW TO ORDER PARTS

Give name and part number as shown in parts list and serial number. Serial number is on nameplate attached to control panel of unit.

### IMPORTANT

Make a permanent record of the Model and Serial numbers of your machine here. You'll save time and expense by including this reference identification on replacement parts

MODEL : \_\_\_\_\_

SER. NO.: \_\_\_\_\_

**PARTS LIST**

## CURTIS-TOLEDO, INC.

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 **DANGER**

Air used for breathing or food processing must meet  
OSHA 29CFR 1910.134 or FDA 21CFR 178.3570  
Regulations. Failure to do so may cause severe  
injury or death

# INTRODUCTION

## HOW TO USE THE PARTS LIST

Using the List of Illustrations obtain the figure number of the assembly in which your part is located. Go to the appropriate figure and locate your part on the illustration. Using the key number, find the part on the parts list.

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## **WARNING**

Personal injury and/or equipment damage will result by failing to pay attention to the vital safety information and instruction in the operating and instruction manual. Carefully read, understand, and retain all safety information and instructions before operating this unit.

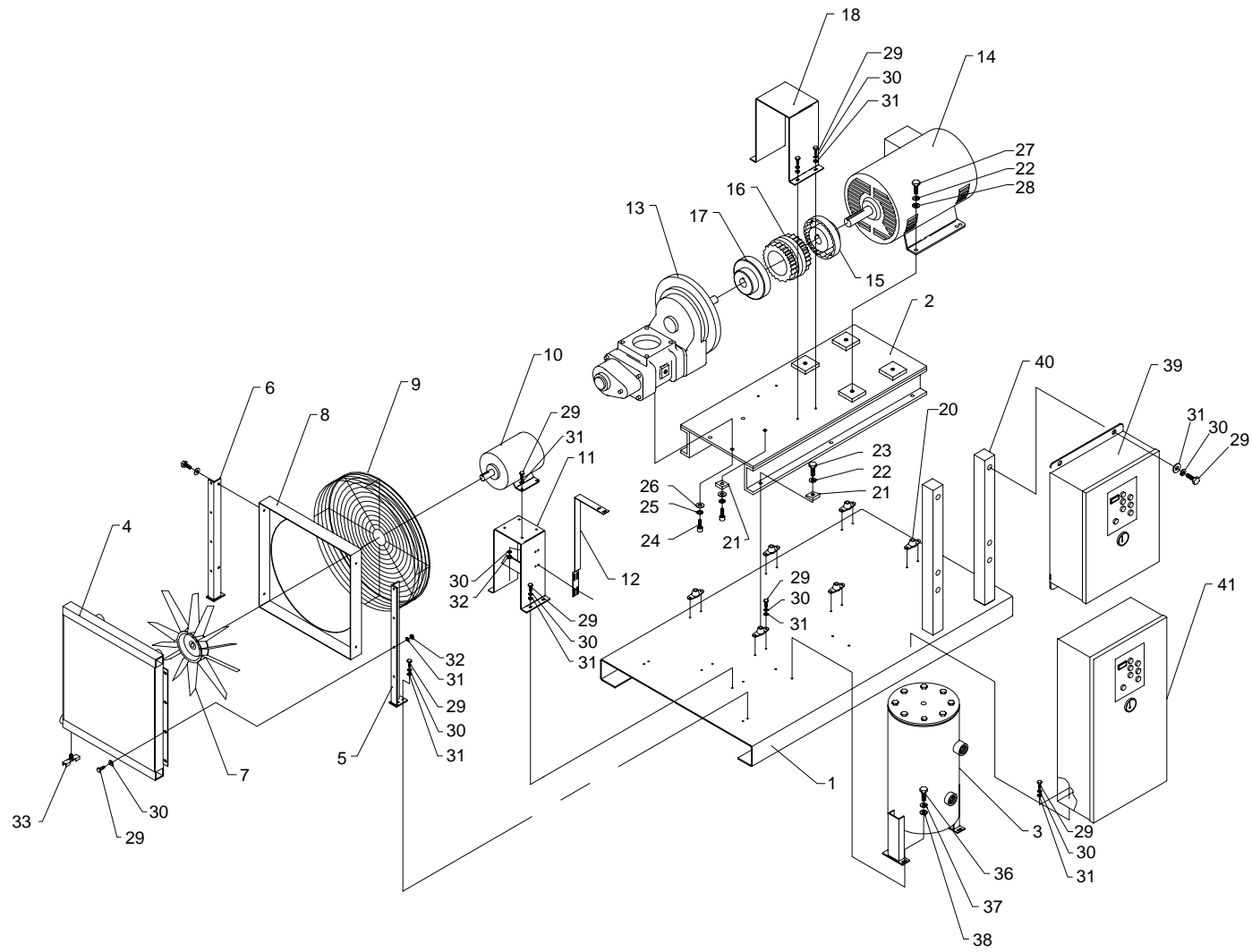
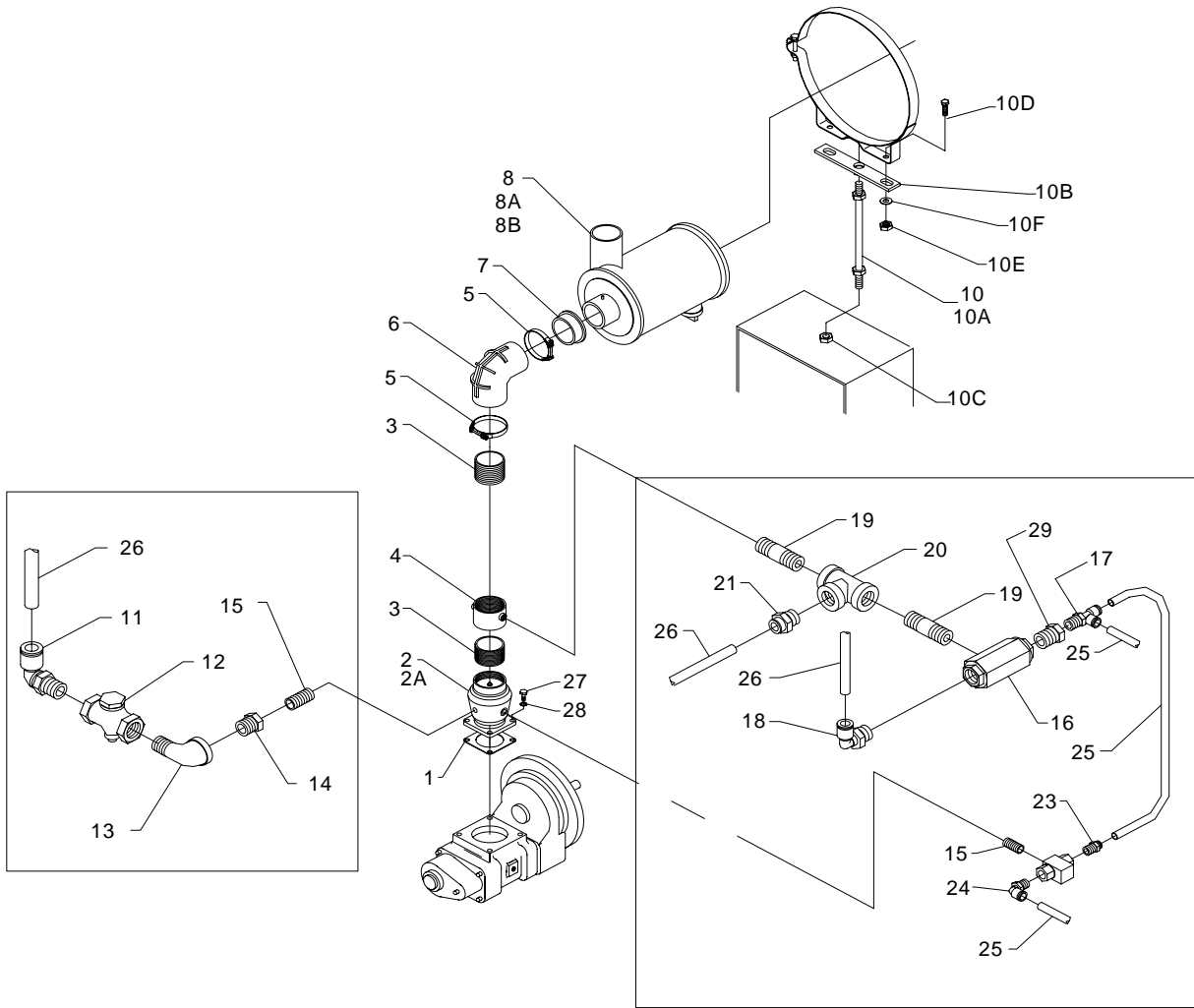


FIG 1. MAJOR COMPONENTS GROUP  
2

MODEL	PRES	AIR END COUPLING				COUPLING SLEEVE	MOTOR COUPLING				AIR END MODEL	MOTOR/ODP FRAME
		SET#	FLANGE	BUSHING#	BUSH. TYPE		SET#	FLANGE	BUSHING#	BUSH. TYPE		
50AD	100	RN14519-14	RN14519-7	RN14177-1	SK-35mm	RN14511-1	RN14519-12	RN14519-7	VDB284	SK-2 1/8	E12G	326T/F2
S10B	125	RN14519-14	RN14519-7	RN14177-1	SK-35mm	RN14511-1	RN14519-12	RN14519-7	VDB284	SK-2 1/8	E12G	326T/F2
	150	RN14519-14	RN14519-7	RN14177-1	SK-35mm	RN14511-1	RN14519-12	RN14519-7	VDB284	SK-2 1/8	E12G	326T/F2
	175	RN14519-14	RN14519-7	RN14177-1	SK-35mm	RN14511-1	RN14519-12	RN14519-7	VDB284	SK-2 1/8	E12G	326T/F2
50D	100	RN14519-15	RN14519-7	RN14177-2	SK-45mm	RN14511-1	RN14519-12	RN14519-7	VDB284	SK-2 1/8	E25G	326T/F2
S10B	125	RN14519-15	RN14519-7	RN14177-2	SK-45mm	RN14511-1	RN14519-12	RN14519-7	VDB284	SK-2 1/8	E25G	326T/F2
	150	RN14519-15	RN14519-7	RN14177-2	SK-45mm	RN14511-1	RN14519-12	RN14519-7	VDB284	SK-2 1/8	E25G	326T/F2
	175	RN14519-15	RN14519-7	RN14177-2	SK-45mm	RN14511-1	RN14519-12	RN14519-7	VDB284	SK-2 1/8	E25G	326T/F2

TABLE 1. AIR END, MOTOR, COUPLING



**FIG 2. E25G INLET VALVE GROUP**

**PARTS LIST FOR R/S50-D INLET VALVE GROUP  
(E25G AIR END) (REF FIG. 2)**

ITEM	DESCRIPTION	QTY	PART NO.
1	GASKET, INLET VALVE	1	RN24577-1
2	VALVE, INLET, 4" NPT	1	RN24577
2A	KIT, SERVICE, INLET VALVE	1	RN24577-4
3	NIPPLE, 4" NPT	2	VA13NAA
4	COUPLING, 4" WELDMENT	1	RN24577-2
5	CLAMP, INLET, T-BAR	2	RN24079-8
6	ELBOW, 90 DEGREE	1	RN24079-7
7	INSERT, REDUCER	1	RN24079-6
8	FILTER, HEAVY DUTY	1	RN24079
8A	ELEMENT, MAIN, HEAVY DUTY FILTER	1	RN24079-1
8B	ELEMENT, SAFETY, HEAVY DUTY FILTER	1	RN24079-2
9	BAND, MOUNTING	1	RN24079-3
10	HARDWARE, MOUNTING	1	RN24079-9
10A	THREADED ROD, M16x2.0	1	VL2402
10B	MOUNT PLATE	1	RN24079-11
10C	NUT, HEX M16x2.0	3	VH1531
10D	HHCS 5/16-18x1"	2	VH12HH
10E	NUT, HEX 5/16-18	2	VH15H
10F	LOCKWASHER, 5/16	2	VH35H
11	CONNECTOR, ELBOW, 3/8" NPT X 3/8" OD, QD	1	VAA751
12	CHECK VALVE, INLINE, 3/8"	1	VV832
13	STREET ELBOW, 3/8"NPT	1	VA08CF
14	BUSHING, 3/8"NPT X 1/4"NPT	1	VA12CBA
15	NIPPLE, CLOSE, 1/4"NPT	2	VA13BAA
16	VALVE, BLOWDOWN, 1/2"	1	RN18425
17	RUN TEE, 1/4"NPT X 1/4" X 1/4"OD, QD	1	VAB746
18	CONNECTOR, ELBOW, 1/2"NPT X 3/8"OD	2	VAA753
19	NIPPLE, CLOSE, 1/2"NPT	1	VA13DAB
20	TEE, 1/2"NPT	1	VA10DF
21	CONNECTOR, STRAIGHT, 1/2"NPT X 3/8"OD, QD	1	VAA785
22	VALVE, SHUTTLE, 1/4"	1	RN42105
23	CONNECTOR, STRAIGHT, 1/4"NPT X 1/4"OD, QD	1	VAA702
24	CONNECTOR, ELBOW, 1/4"NPT X 1/4"OD, QD	1	VAA703
25	TUBING, 1/4"OD, BLACK NYLON		VA1626*
26	TUBING, 3/8"OD, BLACK NYLON		VA1628**
27	BOLT, M16x2.0x45mm	4	VH1440
28	LOCKWASHER, M16	4	VH1234
29	BUSHING, 1/2"NPT X 1/4"NPT	1	VA12DBP

\* - ONLY AVAILABLE IN 15FT LENGTH PIECES

\*\* - ONLY AVAILABLE IN 5FT LENGTH PIECES

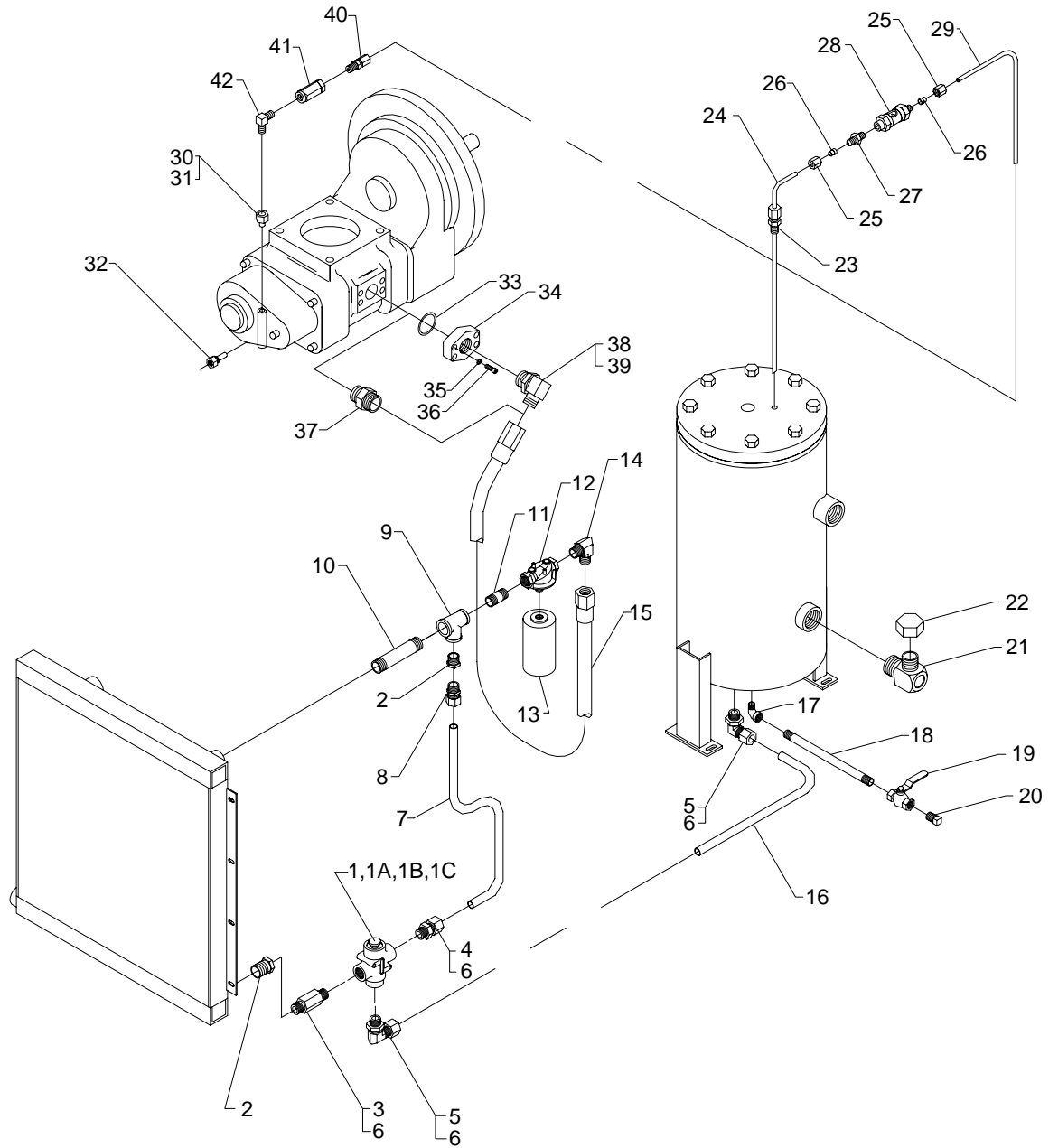


FIG 4. OIL PIPING GROUP

## PARTS LIST FOR OIL PIPING GROUP (REF. FIG 4)

ITEM	DESCRIPTION	QTY	R/S50-AD	R/S50-D
1	VALVE, THERMOSTATIC, 170°F	1	RN42403	<
1A	KIT, SERVICE, THERMO VALVE, 170°F	1	RN42403-1	<
1B	VALVE, THERMOSTATIC, 180°F (OPTIONAL)	1	RN42402	<
1C	KIT, SERVICE, THERMO VALVE, 180°F (OPTIONAL)	1	RN42402-1	<
2	BUSHING, REDUCING, 1"NPT X 3/4"NPT	2	VA857	<
3	ADAPTOR, MALE, 3/4"NPT X 1 1/16-12UN	1	RN52139	<
4	CONNECTOR, STRAIGHT, 3/4"OD X 1 1/16-12UN	1	RN52143	<
5	CONNECTOR, ELBOW, 3/4"OD X 1 1/16"-12UN	2	RN52141	<
6	O-RING, REPLACEMENT FOR ITEMS 3,4,5		RN52139-1	<
7	TUBE, BYPASS TO OIL FILTER	1	OFE959	<
8	CONNECTOR, STRAIGHT, 3/4"NPT X 3/4"OD	1	VAA717	<
9	TEE	1	VAC878	VA10FF
10	NIPPLE, 1"NPT X 5 1/2"	1	VA13FKA	<
11	NIPPLE	1	VA13EDA	VA13FAA
12	HEAD, OIL FILTER	1	RN28100	RN28103
13	ELEMENT, OIL FILTER	1	RN28201	RN28204
14	CONNECTOR, ELBOW	1	RN60087	RN60137
15	HOSE ASSEMBLY	1	RN60169-1	RN60120
16	TUBE, SEPARATOR TANK TO BY-PASS	1	OFE960	<
17	ELBOW, STREET, 3/4"	1	VA08EF	<
18	NIPPLE, 3/4" NPT X 10" LONG	1	VA13EQA	<
19	VALVE, BALL, 3/4"	1	VV540	<
20	PLUG, PIPE. 3/4"NPT	1	VA01ER	<
21	COMBINATION OIL FILL AND SIGHT GLASS	1	RN52171	<
22	CAP, OIL FILL / SIGHT GLASS	1	CS741	<
23	CONNECTOR, COMPRESSION, 1/4" NPT X 1/4" OD	1	RN52151	<
24	TUBE, STEEL, 1/4" OD	1	OFE963	<
25	NUT, STEEL, 1/4" OD	2	VAA756	<
26	SLEEVE, STEEL, 1/4" OD	2	VAA757	<
27	UNION, 1/4" OD X 1/4" OD	1	VAA701	<
28	SIGHT GLASS	1	RN52170	<
29	TUBE, STEEL, SCAVENGER LINE, 1/4" OD	1	OFE1004	OFE1003
30	ADAPTOR, 1/8" BSPP X 1/4" NPT	1	VAA745	<
31	WASHER FOR ADAPTOR (NOT SHOWN)	1	VAA746	<
32	THERMOWELL, M14 X 1.5	1	RN18679	<
33	O-RING	1	N/A	RN10677-1
34	FLANGE, 1" OD, OIL INJ.	1	N/A	RN10677-2
35	LOCKWASHER, M10	4	N/A	VH1242
36	SCREW, SOCKET HD, CAP, M10 X 1.5 X 40	4	N/A	VH1453
37	CONNECTOR, STRAIGHT, 3/4"NPT X 1"OD	1	RN60091	N/A
38	CONNECTOR, ELBOW, SAE16 X 1 1/4"OD	1	N/A	VAB753
39	O-RING, REPLACEMENT FOR ITEM 38		N/A	RN52185
40	ORIFICE SCAVENGER CONNECTOR	1	RN52131-2	<
41	VALVE, CHECK, 1/4"	1	VV834	<
42	MALE ELBOW, 1/4"NPT	1	VAA754	<

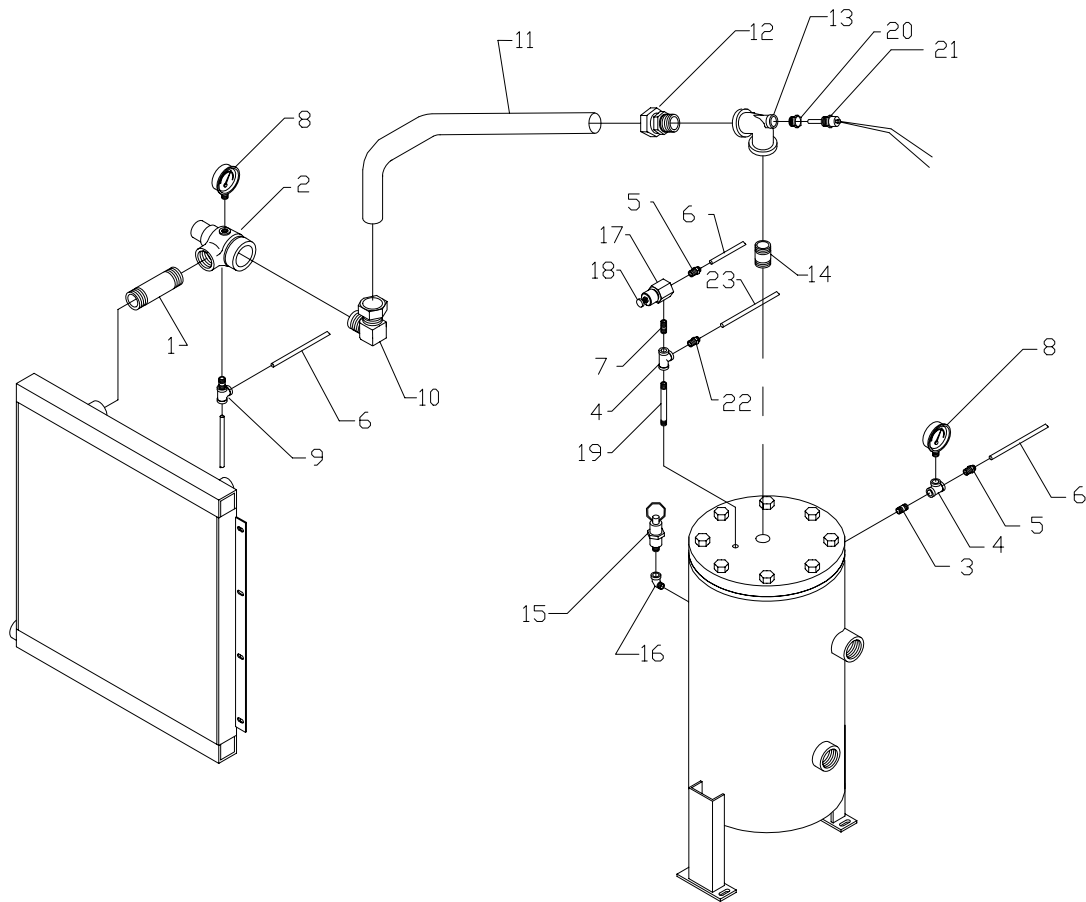
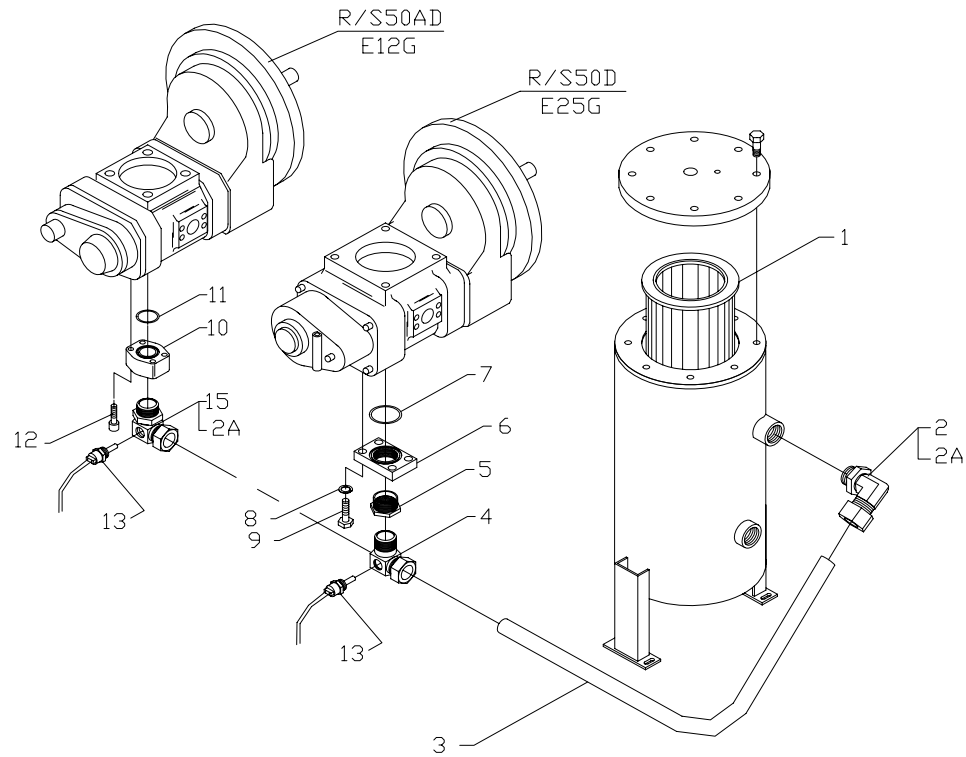


FIG 5. PARTS LIST FOR AIR PIPING GROUP

ITEM	DESCRIPTION	QTY	R/S50-AD	R/S50-D
1	NIPPLE, 1 1/4"NPT X 5 1/2"	1	VA13GKA	<
2	VALVE, MINIMUM PRESSURE, 1 1/4"	1	RN42126	<
3	NIPPLE, 1/4"NPT	1	VA13BBB	<
4	TEE, 1/4"NPT	2	VA10BF	<
5	CONNECTOR, STRAIGHT, 1/4"NPT X 1/4"OD	2	VAA702	<
6	TUBING, 1/4"OD, BLACK NYLON		VA1626*	<
7	NIPPLE, 1/4"NPT, CL.	1	VA13BAA	<
8	GUAGE, AIR PRESSURE, Ø2 1/2", LIQUID FILLED	2	RN30323	<
9	RUN TEE, 1/4"NPT X 1/4" X 1/4"OD, QD	1	VAB746	<
10	CONNECTOR, ELBOW, 1 1/4"NPT X 1 1/4"OD	1	VAA722	<
11	TUBE, STEEL, 1 1/4"OD	1	OFE949	<
12	CONNECTOR, STRAIGHT, 1 1/4"NPT X 1 1/4"OD	1	VAA721	<
13	TEE, REDUCING, 1 1/4" X 1/2" X 1 1/4"	1	VAD815	<
14	NIPPLE, 1 1/4"NPT X 2 1/2"	1	VA017	<
15	VALVE, RELIEF, 1/2"			
	150 PSI (USED ON 100 PSI AND 125 PSI UNITS)	1	RN42815	<
	175 PSI (USED ON 150 PSI UNITS)	1	RN42816	<
	200 PSI (USED ON 175 PSI UNITS)	1	RN42817	<
16	ELBOW STREET, 1/2"	1	VA08DP	<
17	VALVE, MODULATION, 1/4"	1	RN42613	<
18	THUMB SCREW	1	CS793	<
19	NIPPLE, 1/4"NPT X 3"	1	VA13BEA	<
20	BUSHING, 1/2"NPT X 1/4"NPT	1	VA12DBQ	<
21	TEMPERATURE SWITCH	1	RN18658	<
22	CONNECTOR, STRAIGHT, 1/4"NPT X 3/8"OD, QD	1	VAA747	<
23	TUBING, 3/8"OD, BLACK NYLON		VA1628**	<

\* - ONLY AVAILABLE IN 15FT LENGTH PIECES

\*\* - ONLY AVAILABLE IN 5FT LENGTH PIECES



**FIG 6. PARTS LIST FOR DISCHARGE PIPING GROUP**

ITEM	DESCRIPTION	QTY	R/S50-AD	R/S50-D
1	ELEMENT, SEPERATOR	1	RN27518	<
2	CONNECTOR, ELBOW, 1 1/2"OD X 1 7/8"-12 UN	1	RN52145	<
2A	O-RING, REPLACEMENT		RN52187	<
3	TUBE, STEEL, 1 1/2"OD	1	OFE 981	<
4	CONNECTOR, ELBOW, 1 1/2"OD X 1 1/2"NPT	1	N/A	RN60064
5	BUSHING, 2"NPT X 1 1/2"NPT	1	N/A	VA12JHP
6	FLANGE, DISCHARGE	1	N/A	RN10676-4
7	O RING	1	N/A	RN10676-5
8	LOCKWASHER	4	N/A	VH1234
9	BOLT	4	N/A	VH1440
10	FLANGE, DISCHARGE	1	CS908	N/A
11	O RING	1	RN10672-1	N/A
12	BOLT	4	VH1433	N/A
13	TEMPERATURE SWITCH	4	RN18659	<
14	CROSS, SEPARATOR TANK (NOT SHOWN)	1	RN10140	<
15	CONNECTOR, ELBOW, 1 1/2"OD X 1 7/8"-12UN	1	RN60065	N/A

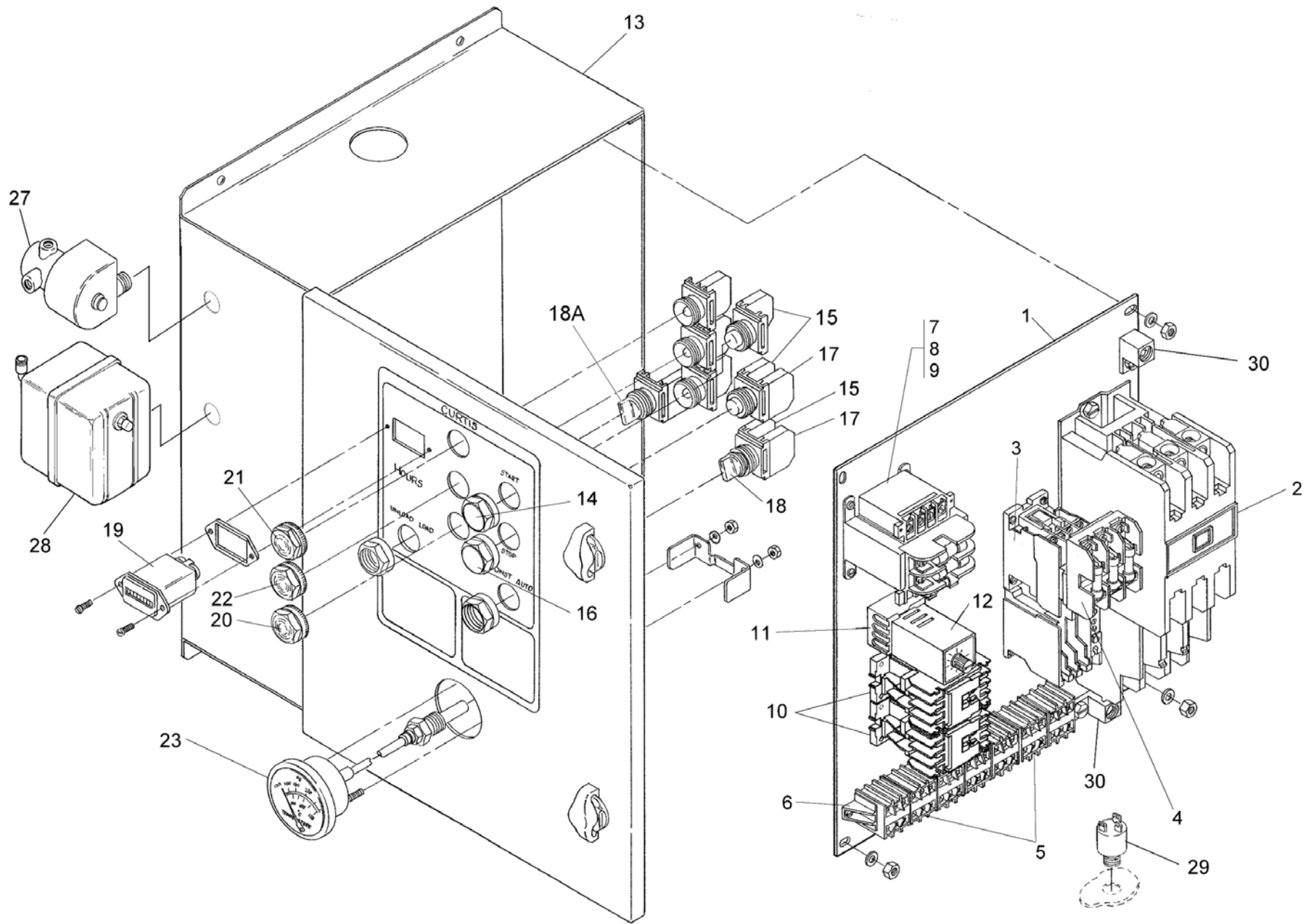


FIG 7. ELECTRICAL COMPONENTS GROUP – FVM, OPEN UNIT

**PARTS LIST FOR ELECTRICAL COMPONENTS GROUP – FVM, OPEN UNIT (REF. FIG. 7)**

CAP 266

ITEM NO.	DESCRIPTION	QTY.	R/S 50AD LOT # 15	R/S 50D LOT #16
1	CONTROL PANEL ASSEMBLY			
2	STARTER WITH INTERCHANGEABLE HEATERS (MAIN MOTOR) SIZE "K" SIZE "N" SIZE "S"			
3	STARTER WITH INTERCHANGABLE HEATERS (FAN) SIZE "A" SIZE "B"			
4	FUSE BLOCK - 30A, 600V	1	RN18314-1	<
5	TERMINAL BLOCK	26	1330042	<
6	END STOP	2	1330043	<
7	TRANSFORMER 150VA,FUSED, 120V 250VA,FUSED, 120V			
8	FUSE, TRANSFORMER, PRIMARY			
9	FUSE, TRANSFORMER, SECONDARY			
10	RELAY, 4 POLE, 120V, DPDT	2	1330062	<
11	SOCKET	1	1330049	<
12	TIMER, 60 MIN., PLUG-IN	1	1330026	<
13	ENCLOSURE SIZE "K" & "N" SIZE "S"			
		1	1330058	<
		1	RN18039	<
14	PUSH BUTTON START SWITCH	1	RN18116	<
15	N.O. CONTACT BLOCK	4	RN18118-2	<
16	PUSH BUTTON STOP SWITCH (RED)	1	RN18118	<
17	N.C. CONTACT BLOCK	2	RN18118-1	<
18	2 POSITION SELECTOR SWITCH (CONST/AUTO)	1	RN18104-9	<
18A	2 POSITION SELECTOR SWITCH (LOAD/UNLOAD)	1	RN18104-7	<
19	HOURLMETER	1	1330048	<
20	AMBER LIGHT (STAND BY)	1	RN18218	<
21	RED LIGHT (STOP)	1	RN18217	<
22	GREEN LIGHT (POWER ON)	1	RN18219	<
23	TEMPERATURE GAUGE	1	RN18683	<
24	HEATER - MAIN (NOT SHOWN)			
25	HEATER - FAN (NOT SHOWN)			
26	FUSE, FAN (NOT SHOWN)			
27	VALVE, SOLENOID	1	RN18422	<
28	SWITCH, PRESSURE – 100 PSI UNITS	1	RN18133-2	<
	SWITCH, PRESSURE – 125 PSI UNITS	1	RN18133-2	<
	SWITCH, PRESSURE – 150 PSI UNITS	1	RN18133-4	<
	SWITCH, PRESSURE – 175 PSI UNITS	1	RN18133-4	<
29	SWITCH, ANTI-START PRESSURE	1	RN18134	<
30	LUG, GROUNDING	2	VE779	<
31	LIGHT BULBS (NOT SHOWN)	3	RN18270	<
	WIRING DIAGRAM FOR FVM		610000	<

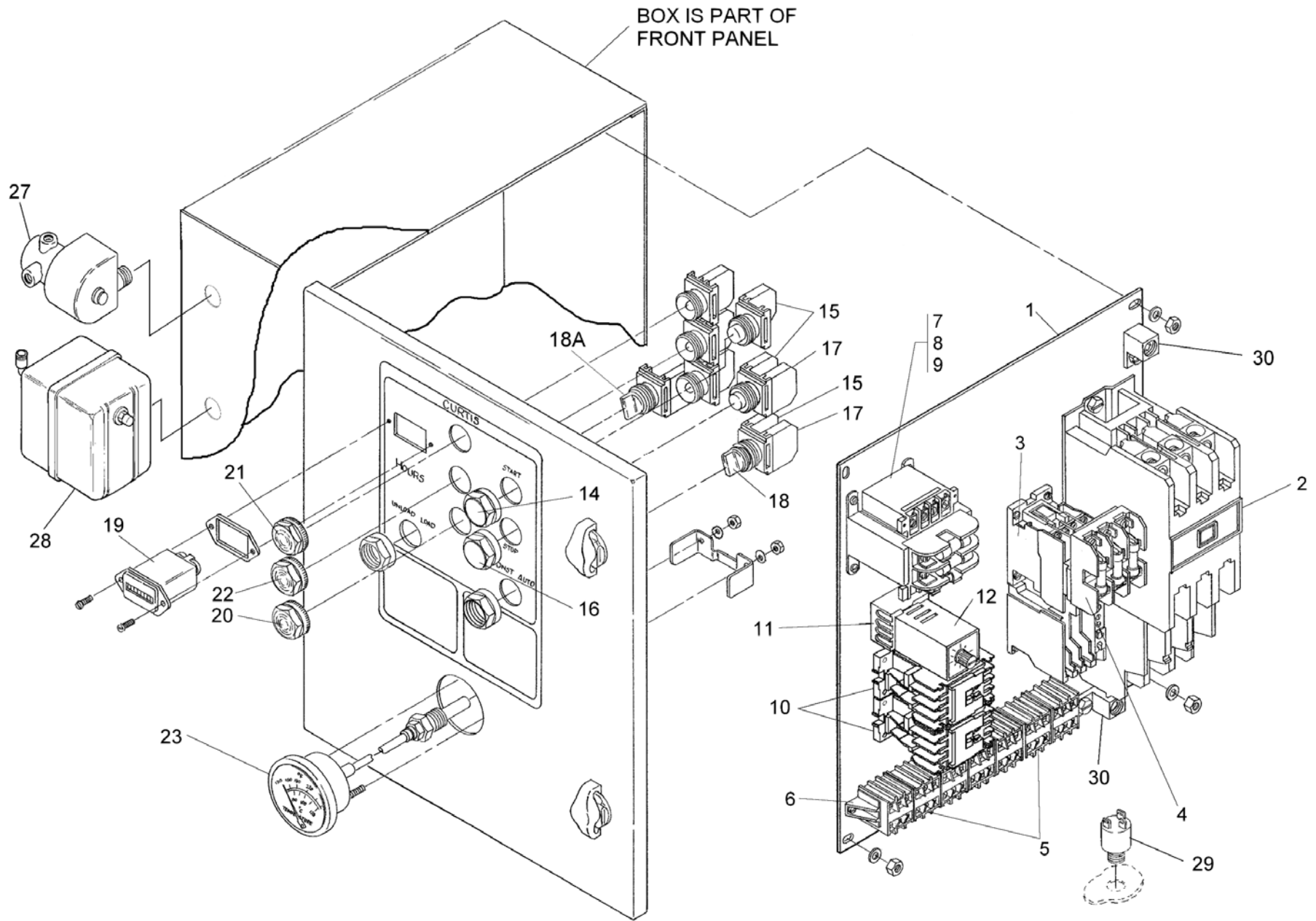


FIG 8. ELECTRICAL COMPONENTS GROUP – FVM, ENCLOSED UNIT

**PARTS LIST FOR ELECTRICAL COMPONENTS GROUP – FVM, ENCLOSED UNIT (REF. FIG. 8)**

ITEM NO.	DESCRIPTION	QTY.	R/S 50AD LOT #15	R/S 50D LOT #16
1	CONTROL PANEL ASSEMBLY			
2	STARTER WITH INTERCHANGEABLE HEATERS (MAIN MOTOR) SIZE "K" SIZE "N" SIZE "S"			
3	STARTER WITH INTERCHANGABLE HEATERS (FAN) SIZE "A" SIZE "B"			
4	FUSE BLOCK - 30A, 600V	1	RN18314-1	<
5	TERMINAL BLOCK	26	1330042	<
6	END STOP	2	1330043	<
7	TRANSFOMER 150VA,FUSED, 120V 250VA,FUSED, 120V			
8	FUSE, TRANSFORMER, PRIMARY			
9	FUSE, TRANSFORMER, SECONDARY			
10	RELAY, 4 POLE, 120V, DPDT	2	1330062	<
11	SOCKET	1	1330049	<
12	TIMER, 60 MIN., PLUG-IN	1	1330026	<
13	ENCLOSURE SIZE "K" & "N"			
14	PUSH BUTTON START SWITCH	1	1330058	<
15	N.O. CONTACT BLOCK	1	RN18116	<
16	PUSH BUTTON STOP SWITCH (RED)	4	RN18118-2	<
17	N.C. CONTACT BLOCK	1	RN18118	<
18	N.C. CONTACT BLOCK	2	RN18118-1	<
18	2 POSITION SELECTOR SWITCH (CONST/AUTO)	1	RN18104-9	<
18A	2 POSITION SELECTOR SWITCH (LOAD/UNLOAD)	1	RN18104-7	<
19	HOURMETER	1	1330050	<
20	AMBER LIGHT (STAND BY)	1	RN18212	<
21	RED LIGHT (STOP)	1	RN18210	<
22	GREEN LIGHT (POWER ON)	1	RN18214	<
23	TEMPERATURE GAUGE	1	RN18683	<
24	HEATER - MAIN (NOT SHOWN)			
25	HEATER - FAN (NOT SHOWN)			
26	FUSE, FAN (NOT SHOWN)			
27	VALVE, SOLENOID	1	RN18422	<
28	SWITCH, PRESSURE – 100 PSI UNITS	1	RN18133-2	<
	SWITCH, PRESSURE – 125 PSI UNITS	1	RN18133-2	<
	SWITCH, PRESSURE – 150 PSI UNITS	1	RN18133-4	<
	SWITCH, PRESSURE – 175 PSI UNITS	1	RN18133-4	<
29	SWITCH, ANTI-START PRESSURE	1	RN18134	<
30	LUG, GROUNDING	2	VE779	<
	WIRING DIAGRAM FOR FVM		610000	<

	ITEM NO	DESCRIPTION	QTY	200 VOLT	230 VOLT	460 VOLT	575 VOLT
R/S 50AD LOT#15  50D LOT#16	1	CONTROL PANEL ASSEMBLY OPEN	1	CAB1748	1330001	1330000	1330078
		ENCL	1	CAB1748	1330040	1330039	1330080
	2	SIZE "S" STARTER	1	RN18860	N/A	N/A	N/A
		SIZE "N" STARTER	1	N/A	RN18963	N/A	N/A
		SIZE "K" STARTER	1	N/A	N/A	RN18960	RN18960
	3	SIZE "A" STARTER (FAN)	1	N/A	RN18959	RN18959	RN18959
		SIZE "B" STARTER (FAN)	1	RN18950	N/A	N/A	N/A
	7	TRANSFORMER, 250VA, FUSED, 120V	1	1330076	N/A	N/A	N/A
		TRANSFORMER, 150VA, FUSED, 120V	1	N/A	1330075	1330075	1330055
	8	FUSE, TRANSFORMER, PRIMARY	2	VE334	RN18345-1	RN18345-1	RN18345-1
	9	FUSE, TRANSFORMER, SECONDARY	1	RN18354	RN18351	RN18351	RN18351
	24	HEATER - MAIN	1	RN18972	RN18990	RN18983	RN18982
	25	HEATER - FAN	1	RN18976	RN18975	RN18973	RN18972
	26	FUSE, FAN	3	VE399	RN18317-1	RN18316-2	RN18316-1

TABLE 2. CONTROL PANEL, STARTERS, HEATERS AND FUSES – FVM

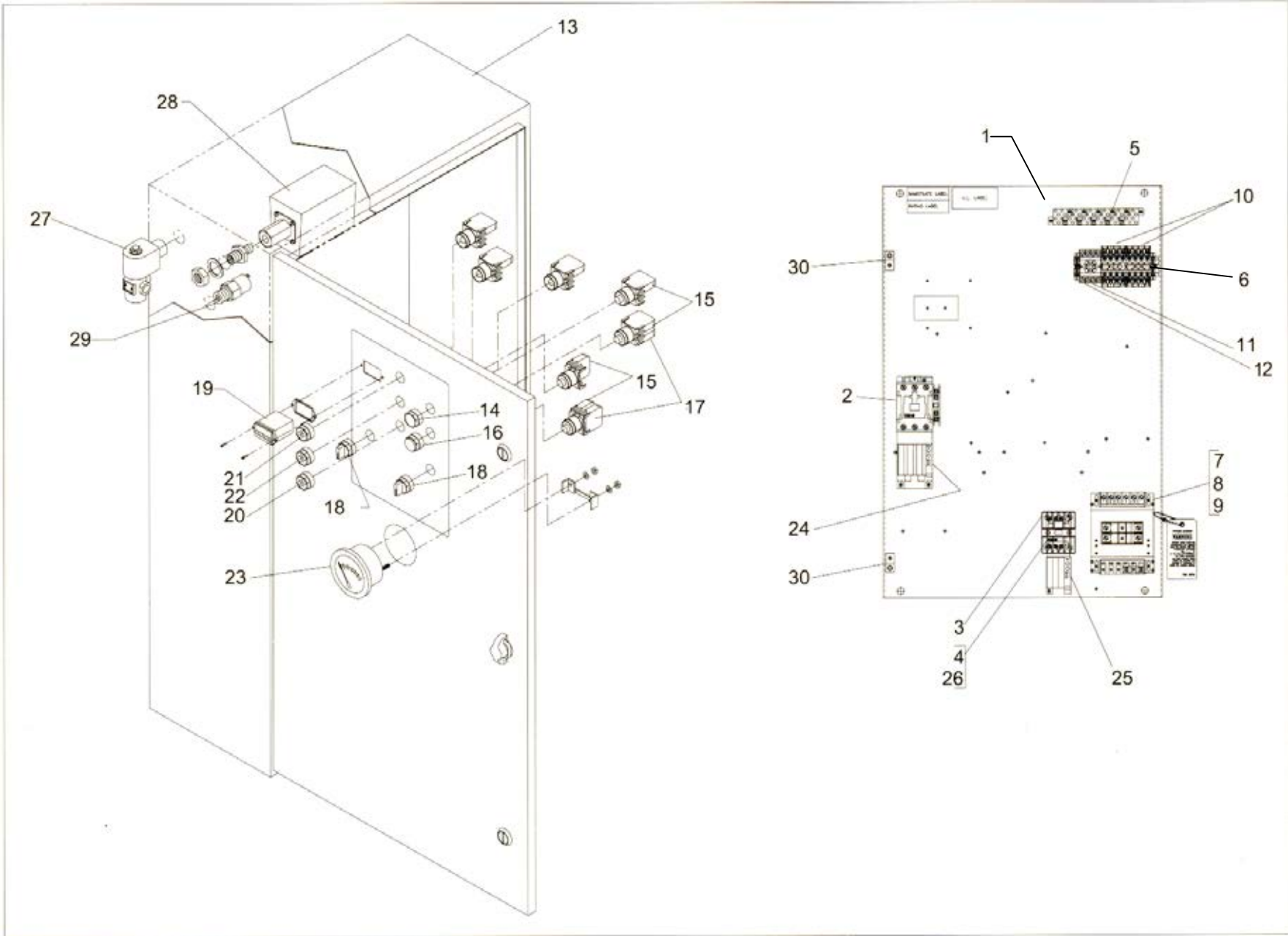


FIG 9. ELECTRICAL COMPONENTS GROUP - FVM

**PARTS LIST FOR ELECTRICAL COMPONENTS GROUP – FVM (REF. FIG. 9)**

ITEM NO.	DESCRIPTION	QTY.	R/S 50AD LOT #16	R/S50D LOT #17
1	CONTROL PANEL ASSEMBLY			
2	STARTER WITH INTERCHANGEABLE HEATERS (MAIN)			
	SIZE "S"			
	SIZE "N"			
	SIZE "K"			
3	STARTER WITH INTERCHANGABLE HEATERS (FAN)			
	SIZE "A"			
	SIZE "E"			
4	FUSE BLOCK - 30A, 600V	1	RN18314-1	<
5	TERMINAL BLOCK	26	1330042	<
6	END STOP	2	1330043	<
7	TRANSFORMER, 150VA, FUSED -120V 250VA, FUSED -120V			
8	FUSE, TRANSFORMER, PRIMARY			
9	FUSE, TRANSFORMER, SECONDARY			
10	RELAY, 4 POLE, 120V, DPDT	2	1330062	<
11	SOCKET	1	1330049	<
12	TIMER, 60 MIN., PLUG-IN	1	1330026	<
13	ENCLOSURE, 37.5 X 21.5 X 10	1	RN18059	<
14	PUSH BUTTON START SWITCH	1	RN18116	<
15	N.O. CONTACT BLOCK	4	RN18118-2	<
16	PUSH BUTTON STOP SWITCH (RED)	1	RN18118	<
17	N.C. CONTACT BLOCK	2	RN18118-1	<
18	2 POSITION SELECTOR SWITCH (CONST/AUTO)	1	RN18104-9	<
18A	2 POSITION SELECTOR SWITCH (LOAD/UNLOAD)	1	RN18104-7	<
19	HOURMETER	1	1330048	<
20	AMBER LIGHT (STAND BY)	1	RN18218	<
21	RED LIGHT (STOP)	1	RN18217	<
22	GREEN LIGHT (POWER ON)	1	RN18219	<
23	TEMPERATURE GAUGE	1	RN18683	<
24	HEATER - MAIN			
25	HEATER - FAN			
26	FUSE, FAN			
27	VALVE, SOLENOID	1	RN18422	<
28	SWITCH, PRESSURE – 100 PSI UNITS	1	RN18133-2	<
	SWITCH, PRESSURE – 125 PSI UNITS	1	RN18133-4	<
	SWITCH, PRESSURE – 150 PSI UNITS	1	RN18133-4	<
	SWITCH, PRESSURE – 175 PSI UNITS	1	RN18133-4	<
29	ANTI-START PRESSURE SWITCH	1	RN18134	<
30	LUG, GROUNDING	2	VE779	<
31	LIGHT BULBS (NOT SHOWN)	3	RN18270	<
	WIRING DIAGRAM FOR FVM		610005	<

	ITEM NO	DESCRIPTION	QTY	200 VOLT	230 VOLT	460 VOLT	575 VOLT
R/S 50AD LOT#16  50D LOT#17	1	CONTROL PANEL ASSEMBLY	1	1330087	1330086	1330059	1330059
	2	SIZE "S" STARTER	1	RN18860	N/A	N/A	N/A
		SIZE "N" STARTER	1	N/A	RN18963	N/A	N/A
		SIZE "K" STARTER	1	N/A	N/A	RN18960	RN18960
	3	SIZE "A" STARTER (FAN)	1	N/A	N/A	RN18959	RN18959
		SIZE "E" STARTER (FAN)	1	RN18965	RN18965	N/A	N/A
	7	TRANSFORMER, 250VA, FUSED, 120V	1	1330076	1330054	N/A	N/A
		TRANSFORMER, 150VA, FUSED, 120V	1	N/A	N/A	1330055	1330055
	8	FUSE, TRANSFORMER, PRIMARY	2	VE334	VE334	RN18345-1	RN18345-1
	9	FUSE, TRANSFORMER, SECONDARY	1	RN18393	RN18393	RN18351	RN18351
	24	HEATER - MAIN	1	RN18972	RN18990	RN18983	RN18982
	25	HEATER - FAN	1	RN18976	RN18975	RN18973	RN18972
	26	FUSE, FAN	3	VE399	RN18317-1	RN18316-2	RN18316-1

TABLE 3. CONTROL PANEL, STARTERS, HEATERS AND FUSES – FVM

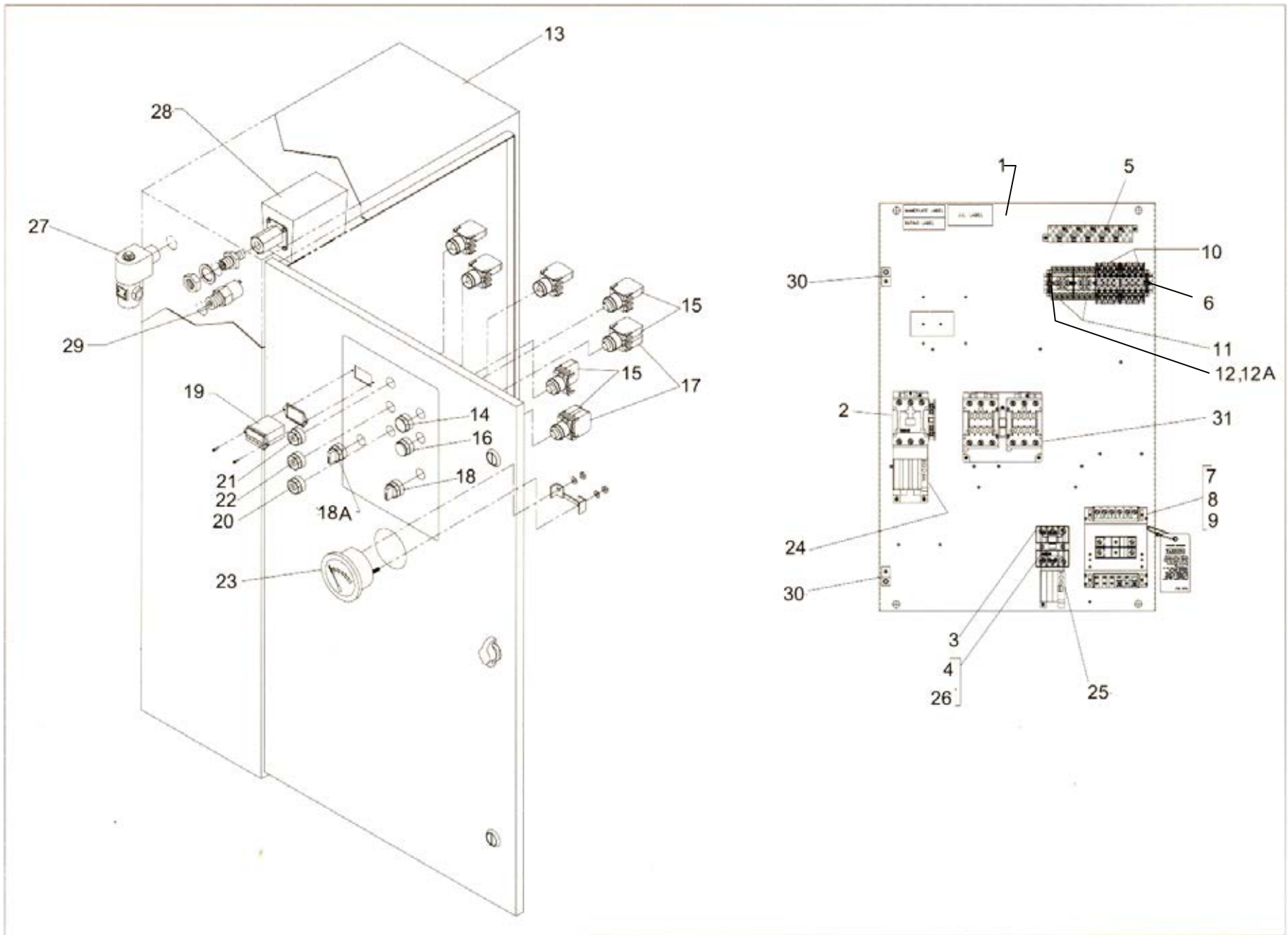


FIG 10. ELECTRICAL COMPONENTS GROUP – Y-DELTA

**PARTS LIST FOR ELECTRICAL COMPONENTS GROUP – Y-DELTA (REF. FIG. 10)**

CAP 266

ITEM NO.	DESCRIPTION	QTY.	R/S 50AD LOT # 16	R/S 50D LOT #17
1	CONTROL PANEL ASSEMBLY			
2	STARTER WITH INTERCHANGEABLE HEATERS (MAIN MOTOR) SIZE "K" SIZE "N"			
3	STARTER WITH INTERCHANGABLE HEATERS (FAN) SIZE "E"			
4	FUSE BLOCK - 30A, 600V	1	RN18314-1	<
5	TERMINAL BLOCK	26	1330042	<
6	END STOP	2	1330043	<
7	TRANSFORMER 250VA,FUSED, 120V			
8	FUSE, TRANSFORMER, PRIMARY			
9	FUSE, TRANSFORMER, SECONDARY			
10	RELAY, 4 POLE, 120V, DPDT	2	1330062	<
11	SOCKET	2	1330049	<
12	TIMER, 60 MIN., PLUG-IN	1	1330026	<
12A	TIMER, 30 SEC., PLUG-IN	1	1330031	<
13	ENCLOSURE SIZE "K" & "N"			
14	PUSH BUTTON START SWITCH (GREEN)	1	RN18059	<
15	N.O. CONTACT BLOCK	1	RN18116	<
16	PUSH BUTTON STOP SWITCH (RED)	4	RN18118-2	<
17	N.C. CONTACT BLOCK	1	RN18118	<
18	2 POSITION SELECTOR SWITCH (CONST/AUTO)	2	RN18118-1	<
18A	2 POSITION SELECTOR SWITCH (LOAD/UNLOAD)	1	RN18104-9	<
19	HOURMETER	1	RN18104-7	<
20	AMBER LIGHT (STAND BY)	1	1330048	<
21	RED LIGHT (STOP)	1	RN18218	<
22	GREEN LIGHT (POWER ON)	1	RN18217	<
23	TEMPERATURE GAUGE	1	RN18219	<
24	HEATER - MAIN (NOT SHOWN)	1	RN18683	<
25	HEATER - FAN (NOT SHOWN)			
26	FUSE, FAN (NOT SHOWN)			
27	VALVE, SOLENOID			
28	SWITCH, PRESSURE – 100 PSI UNITS	1	RN18422	<
	SWITCH, PRESSURE – 125 PSI UNITS	1	RN18133-2	<
	SWITCH, PRESSURE – 150 PSI UNITS	1	RN18133-2	<
	SWITCH, PRESSURE – 175 PSI UNITS	1	RN18133-4	<
29	SWITCH, ANTI-START PRESSURE	1	RN18133-4	<
30	LUG, GROUNDING	1	RN18134	<
31	CONTACTOR REV. M1-S/M1-S WITH NO/NC	2	VE779	<
32	LIGHT BULBS (NOT SHOWN)			
	WIRING DIAGRAM FOR Y-DELTA			

	ITEM NO	DESCRIPTION	QTY	200 VOLT	230 VOLT	460 VOLT	575 VOLT	
<b>R/S 50AD LOT#16</b>	1	CONTROL PANEL ASSEMBLY	1	1330089	1330088	1330088	1330088	
	2	SIZE "N" STARTER	1	RN18963	N/A	N/A	N/A	
		SIZE "K" STARTER	1	N/A	RN18960	RN18960	RN18960	
	31	CONTACTOR REV. M1-S/M1-S WITH NO/NC, SIZE "N" SIZE "K"	2	RN18540	N/A	N/A	N/A	
			2	N/A	RN18536	RN18536	RN18536	
	3	SIZE "E" STARTER (FAN)	1	RN18965	RN18965	RN18965	RN18965	
	<b>50D LOT#17</b>	7	TRANSFORMER, 250VA, FUSED, 120V	1	1330076	1330054	1330054	1330054
		8	FUSE, TRANSFORMER, PRIMARY	2	VE334	VE334	VE334	VE334
		9	FUSE, TRANSFORMER, SECONDARY	1	RN18393	RN18393	RN18393	RN18393
		24	HEATER - MAIN	1	RN18988	RN18983	RN18981	RN18980
25		HEATER - FAN	1	RN18975	RN18975	RN18973	RN18972	
26		FUSE, FAN	3	VE399	RN18317-1	RN18316-2	RN18316-1	

TABLE 4. CONTROL PANEL, STARTERS, HEATERS AND FUSES – Y-DELTA

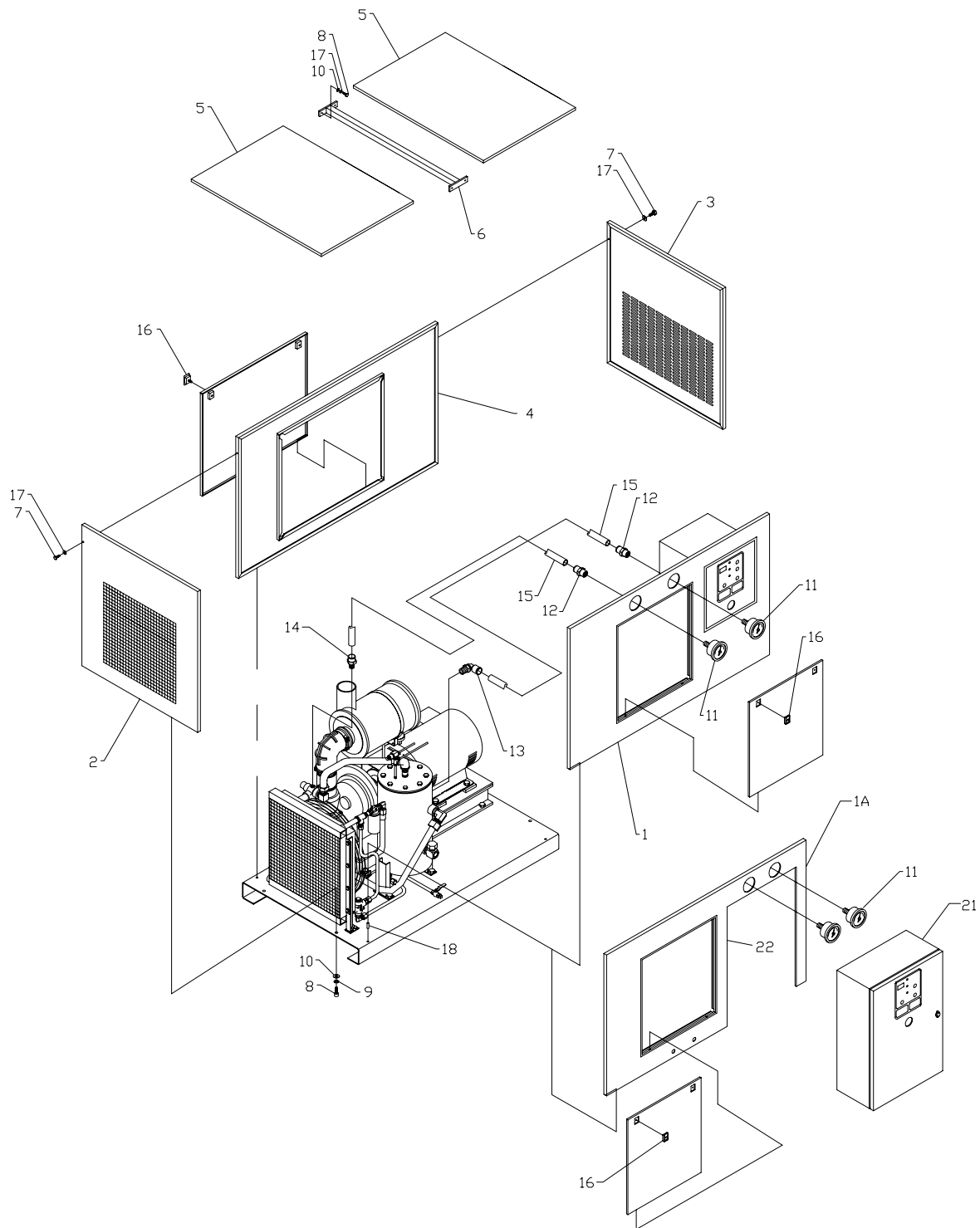


FIG 11. ENCLOSURE GROUP

## PARTS LIST FOR ENCLOSURE GROUP (REF. FIG. 11)

ITEM	DESCRIPTION	QTY	R/S50-AD LOT #15	R/S50-D LOT #16	R/S50-AD LOT #16	R/S50-D LOT #17
1	FRONT PANEL	1	RN10040-1A	<	N/A	N/A
	FRONT PANEL – NEMA 4 & 200V CONTROL PANEL		RN10040-7A	<	N/A	N/A
1A	FRONT PANEL – FOR C-H CONTROL PANEL 37.5" X 21.5"	1	N/A	N/A	RN10040-14A	<
2	LEFT SIDE PANEL	1	RN10040-2A	<	<	<
3	RIGHT SIDE PANEL	1	RN10040-3A	<	<	<
4	BACK PANEL	1	RN10040-8A	<	<	<
5	TOP PANEL	2	RN10040-5A	<	<	<
6	TOP CROSS SUPPORT	1	RN10040-6	<	<	<
7	SCREW, SOCKET HEAD CAP, BUTTON HEAD, 1/4-20 x 1 1/2" LG.	12	VH1737	<	<	<
8	SCREW, HEX HEAD CAP, 1/4-20 x 3/4" LG.	8	VH11FF	<	<	<
9	LOCKWASHER, 1/4"	4	VH35F	<	<	<
10	WASHER, FLAT, 1/4"	8	VH32F	<	<	<
11	GAUGE, AIR PRESSURE, 2 1/2", LIQUID FILLED	2	RN30322	<	<	<
12	CONNECTOR, STRAIGHT, QUICK DISCONNECT, 1/4" NPTF x 1/4" O.D. TUBE	2	VAA787	<	<	<
13	CONNECTOR, ELBOW, QUICK DISCONNECT, 1/4" NPT x 1/4" O.D. TUBE	1	VAA703	<	<	<
14	CONNECTOR, STRAIGHT, QUICK DISCONNECT, 1/4" NPT x 1/4" O.D. TUBE	1	VAA702	<	<	<
15	TUBING 1/4"OD, BLACK NYLON		VA1626*	<	<	<
16	LATCH	4	CS914	<	<	<
17	LOCKWASHER, INTERNAL TOOTH, 1/4"	12	VH38F	<	<	<
18	PIN	4	CS910	<	<	<
19	** ENCLOSURE, NOISE SUPPRESSOR ASSEMBLY (NOT SHOWN)	2	RN10040-AA	<	<	<
20	** TOP COVER SOUND ENCLOSURE (NOT SHOWN)	2	RN10040-B	<	<	<
21	CONTROL PANEL, C-H (USE WITH FRONT PANEL 1A)	1	N/A	N/A	SEE TABLE 3, 4	<
22	WEATHER STRIP (USE WITH FRONT PANEL 1A)	10FT	N/A	N/A	RN60424	<

\* - ONLY AVAILABLE IN 15FT LENGTH PIECES

\*\* - DENOTES OPTIONAL ITEMS

## ROUTINE MAINTENANCE KITS

### 4,000-HOUR KIT

MODEL	WORKING PRESSURE			
	100 PSI	125 PSI	150 PSI	175 PSI
R/S 50AD	VGC540	<	<	<
R/S 50D	VGC542	<	<	<

#### KIT INCLUDES:

- (1) SEPARATOR ELEMENT
- (4) OIL FILTER ELEMENT
- (2) HD MAIN ELEMENT
- (2) HD SAFETY ELEMENT

### 8,000-HOUR KIT

MODEL	WORKING PRESSURE			
	100 PSI	125 PSI	150 PSI	175 PSI
R/S 50AD	VGf512	<	<	<
R/S 50D	VGf537	<	<	<

#### KIT INCLUDES:

- (2) SEPARATOR ELEMENT
- (8) OIL FILTER ELEMENT
- (4) HD MAIN ELEMENT
- (4) HD SAFETY ELEMENT

### 12,000-HOUR KIT

MODEL	WORKING PRESSURE			
	100 PSI	125 PSI	150 PSI	175 PSI
R/S 50AD	VGh507	<	<	<
R/S 50D	VGh508	<	<	<

#### KIT INCLUDES:

- (3) SEPARATOR ELEMENT
- (12) OIL FILTER ELEMENT
- (6) HD MAIN ELEMENT
- (6) HD SAFETY ELEMENT
- (1) INLET VALVE KIT
- (1) THERMO BY-PASS VALVE KIT
- (1) MINIMUM PRESSURE VALVE KIT
- (1) COUPLING SLEEVE

# NOTES

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