



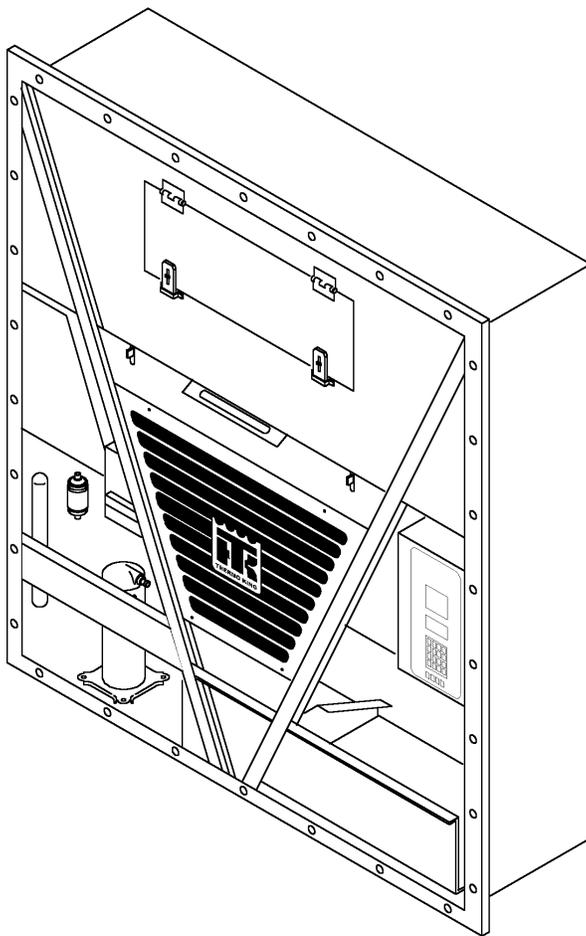
*Parts Manual*

# CSR 40 mP3000

TK 50762-4-PM (Rev. 1.5)

# CSR 40 mP3000

TK 50762-1.5



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# General Information

## Tables of Contents

This Parts Manual contains a numerical table of contents listing each assembly name, its associated Grid number and page number. The numerical table of contents is arranged numerically by Grid number. There are references in a parts list referring to other Grid numbers, the numerical table of contents is arranged to facilitate finding the referenced illustrations. At the rear of this parts manual are two indexes, a numerical and alphabetical. The indexes contain all of the part numbers and descriptions which appear in this manual.

## Assemblies and Subassemblies

When parts are indented in the description list, they are preceded with a bullet ( • ). This indicates that the part(s) is available separately or included in an assembly.

### GRID NO. 67D6 SWITCH PANEL ASSEMBLY

REF	PART#	DESCRIPTION	QTY
	45-1239	PANEL - assy, switch	1
1	99-1960	• PANEL	1
	99-6280	• • NAMEPLATE - panel	1
2	33-743	• GASKET	1

For example: the switch panel nameplate (99-6280) is available separately, available as part of the switch panel (99-1960) and with the panel assembly (45-1239).

## ABBREVIATIONS

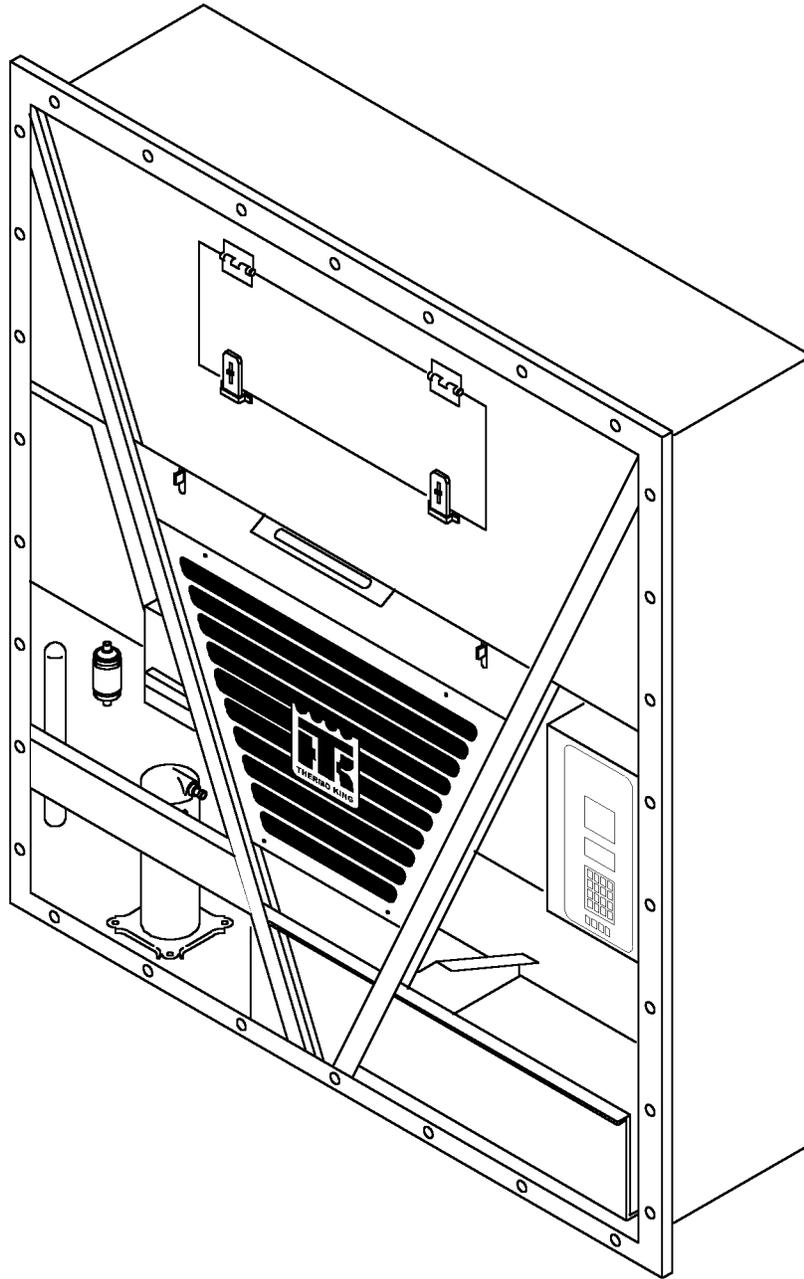
The following abbreviations appear in parts manuals

<b>A</b> AC . . . . . alternating current	<b>E</b> (continued)	<b>O</b> os . . . . . oversized
A/R . . . . . as required	evap. . . . . evaporator	od . . . . . outside diameter
accum . . . . . accumulator	exch . . . . . exchanger	<b>P</b> pcb . . . . . printed circuit board
adj . . . . . adjusting	exp . . . . . expansion	pkg . . . . . package
al . . . . . aluminum	ext . . . . . external	ph . . . . . phase
alt. . . . . alternator	<b>F</b> F . . . . . Fahrenheit	pos . . . . . positive
A or amp . . . . . ampere	fill . . . . . fillister	psi . . . . . pounds per square inch
assy . . . . . assembly	fi . . . . . fuel injection	
<b>B</b> bd . . . . . board	fl . . . . . flare	<b>R</b> rad . . . . . radiator
brg . . . . . bearing	fpt . . . . . female pipe thread	rcvr . . . . . receiver
brkr . . . . . breaker	ft . . . . . feet	ref . . . . . reference
brkt . . . . . bracket	ftg . . . . . fitting	reg . . . . . regulator
<b>C</b> C . . . . . Celsius	<b>H</b> hex . . . . . hexagon	req . . . . . required
cw . . . . . clockwise	hh . . . . . hexagon head	rpm . . . . . revolutions per minute
ccw . . . . . counter-clockwise	hd . . . . . head	<b>S</b> sec . . . . . second
cam . . . . . camshaft	hp . . . . . horsepower	sld . . . . . solder
compr . . . . . compressor	hsg . . . . . housing	soc hd. . . . . socket head
cond. . . . . condenser	<b>I</b> id . . . . . inside diameter	sol . . . . . solenoid
conn. . . . . connecting, connector	in . . . . . inch (2.54 centimeters)	spl . . . . . special
cyl . . . . . cylinder	incl . . . . . includes	sq . . . . . square
<b>D</b> def . . . . . defrost	inj . . . . . injection	ss . . . . . stainless steel
deg . . . . . degree	int . . . . . internal	std. . . . . standard
dehyd. . . . . dehydrator	int th . . . . . internal tooth	stl . . . . . steel
dia . . . . . diameter	<b>L</b> liq . . . . . liquid	suct. . . . . suction
DC . . . . . direct current	lg . . . . . long	sw . . . . . switch
disch . . . . . discharge	<b>M</b> mm . . . . . millimeter	<b>T</b> term . . . . . terminal
diff . . . . . differential	mpt . . . . . male pipe thread	temp . . . . . temperature
<b>E</b> EMI . . . . . Extended	mod . . . . . modulating	thk. . . . . thick
. . . . . Maintenance Interval	<b>N</b> neg . . . . . negative	<b>U</b> us . . . . . undersize
EEC . . . . . European Economic Community	No. . . . . number	<b>V</b> vib . . . . . vibrasorber
eng . . . . . engine	NS . . . . . not supplied	<b>W</b> W . . . . . watt
	NSS . . . . . not sold separately	w/ . . . . . with
		w/o . . . . . without

# CSR 40 mP3000

## Contents

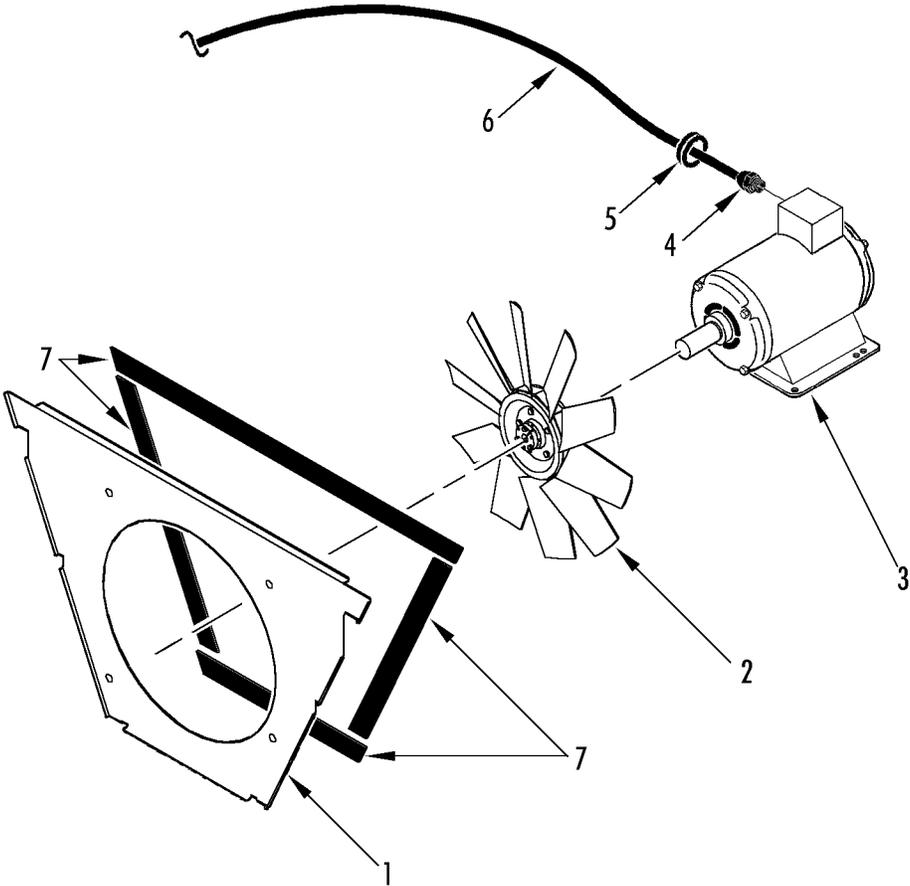
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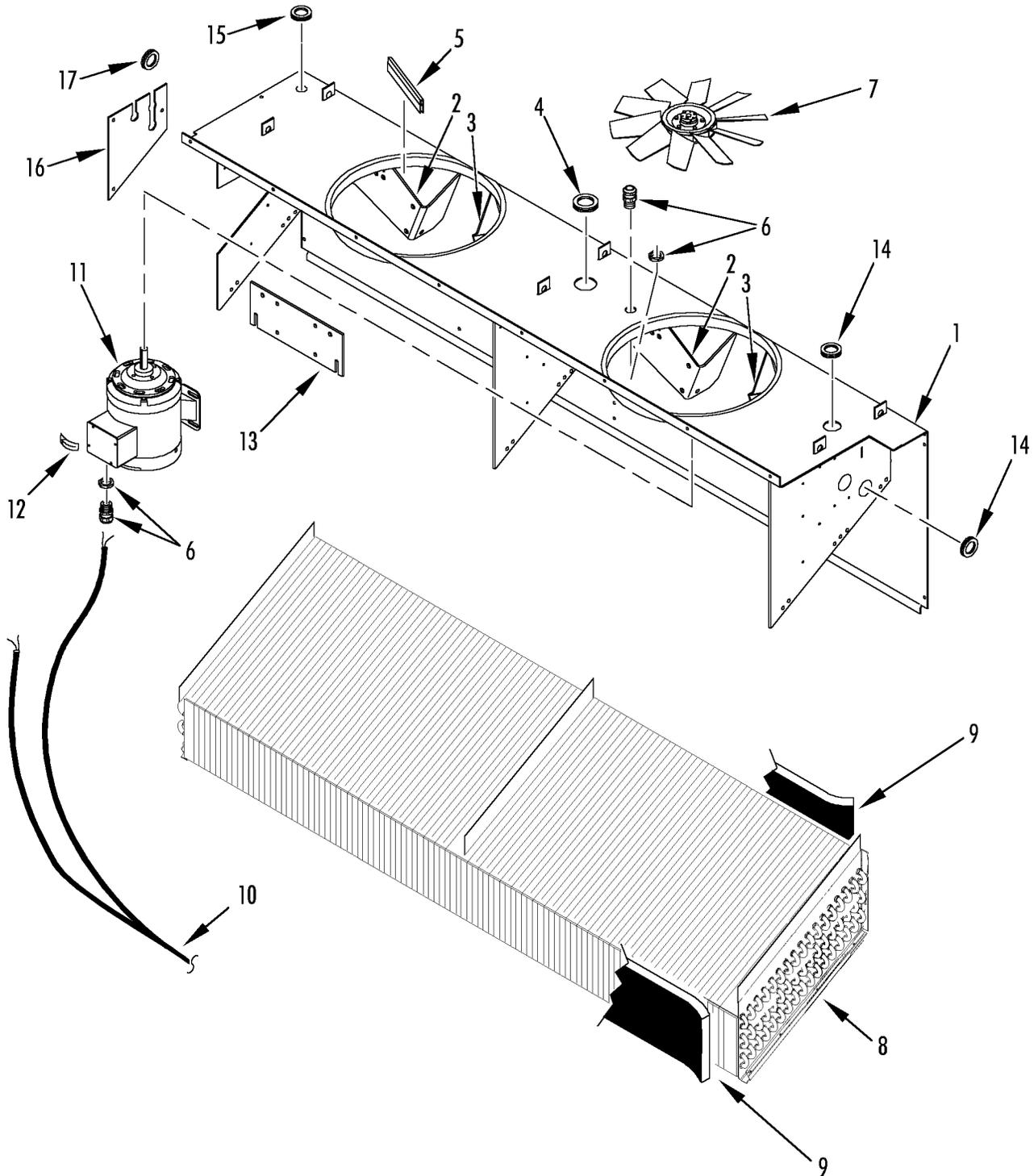
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<b>B/M</b>	<b>DESCRIPTION</b>	<b>Date</b>
098912	CSR40-145	11/99
917145	CSR40-145	11/99
098105	Transfresh	11/99
098027	Simpson Lead	11/99
098033	Humidity	11/99



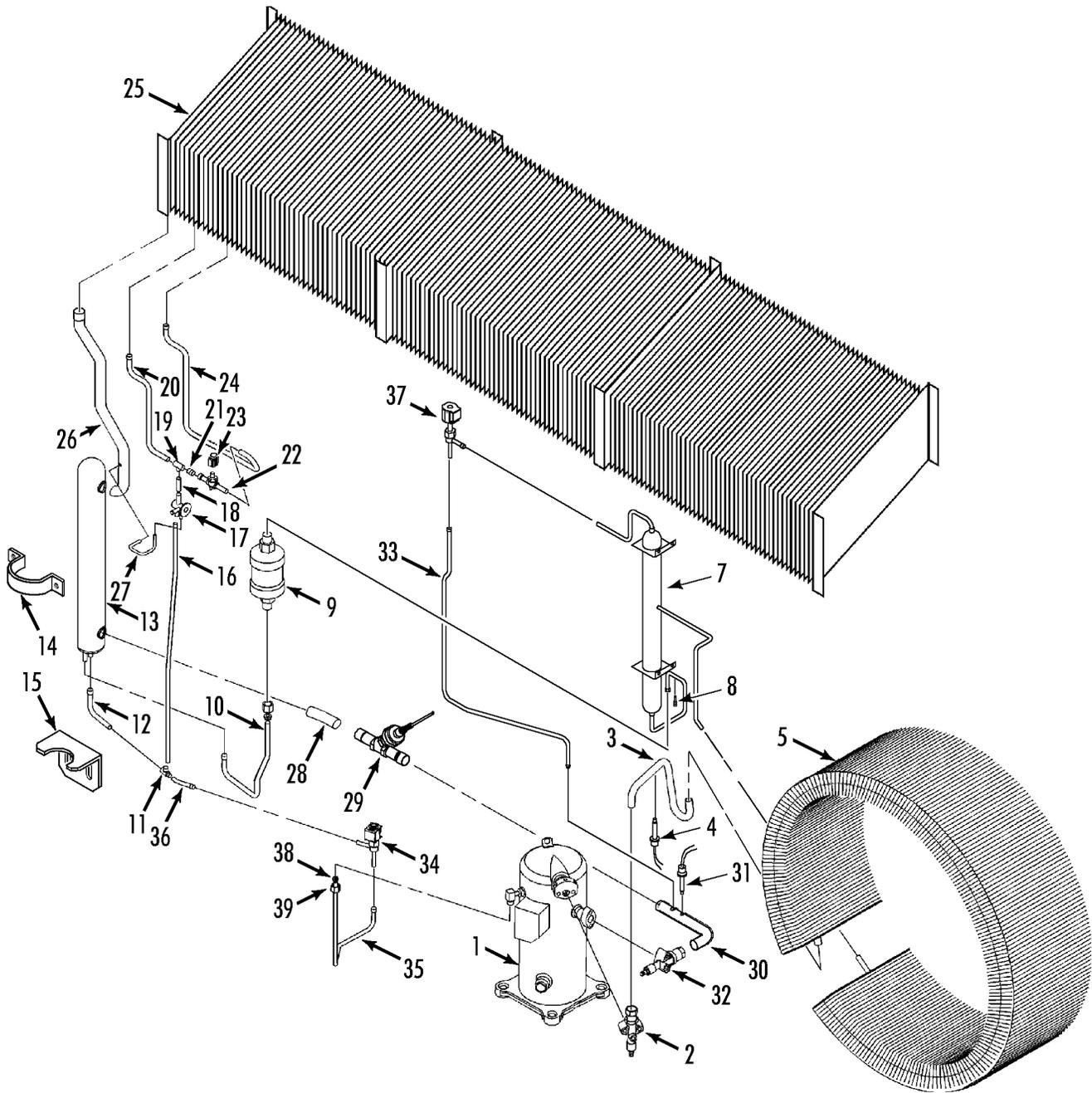


REF	PART#	DESCRIPTION	QTY
1	91-9912	ORIFICE - condenser fan	1
	55-7035	SCREW - orifice	4
	55-3045	WASHER - dome	7
	55-6997	NUT - captive	4
2	78-1173	FAN - condenser (clockwise)	1
	78-1197	FAN - condenser (counter clockwise)	1
	55-8137	SCREW - fan to hub	2
	55-6988	FLATWASHER	2
	55-7066	LOCKWASHER	2
3	104-753	MOTOR - condenser fan	1
	77-1498	• BEARING - shaft end	1
	77-1401	• BEARING - opposite end	1
	55-6993	SCREW - motor	4
	55-6988	FLATWASHER	8
	55-7342	LOCKWASHER	4
	55-7339	NUT	4
4	55-5900	GRIP - cable	1
	55-8908	LOCKNUT	1
5	33-367	GROMMET	1
6	41-2953	HARNESS - condenser fan	1
	44-8340	TERMINAL - splice	9
7	33-3044	STRIP - sealing	A/R





REF	PART#	DESCRIPTION	QTY
1	98-5475	HOUSING - evaporator (CRR 119)	1
	98-5918	HOUSING - evaporator (800 & 800A)	1
	98-5919	HOUSING - evaporator (800B)	1
	98-5768	HOUSING - evaporator (CRR 40-300)	1
	98-6213	HOUSING - evaporator (CRR 40-303 & 800D)	1
	98-6657	HOUSING - evaporator (800E & CRR40)	1
2	92-2331	• BRACKET - left	2
	92-2779	• BRACKET - left (800E & CRR40)	2
3	92-2332	• BRACKET - right	2
	55-9162	RIVET - shroud	10
4	33-3215	GROMMET (47 mm)	1
5	33-3044	TRIM - edge guard	A/R
6	55-5900	CONNECTOR - harness & sensor	3
7	78-1117	FAN - evaporator (14 in, 355 mm dia)	2
8	67-1558	COIL - evaporator	1
	67-1923	COIL - evaporator (800E & CRR40)	1
	55-8891	SCREW - coil	9
	55-9217	CAP - tube	3
9	91-9328	BLOCK - coil	2
10	41-3277	HARNESS - fan & heater (800 & 800A)	1
	41-3685	HARNESS - fan (CRR 40-300, units w/o heater door)	1
	41-4018	HARNESS - evap fan (800B & CRR40)	1
11	104-691	MOTOR - fan	2
	77-1498	• BEARING - shaft end	1
	77-1401	• BEARING - opposite end	1
	55-6993	SCREW - motor	8
	55-7066	LOCKWASHER (external tooth)	2
	55-7342	LOCKWASHER	6
	55-7085	FLATWASHER	8
12	99-4931	NAMEPLATE - arrow	1
13	91-8466	BRACKET - motor	2
	55-8903	SCREW - bracket	8
	55-8904	FLATWASHER	16
	55-7342	LOCKWASHER	8
	55-7339	NUT	8
14	33-2946	GROMMET (37 mm)	5
15	33-3838	GROMMET (22 mm)	2
16	92-2775	COVER - tube	1
	55-7172	SCREW - cover	3
	55-7075	FLATWASHER	3
17	33-367	GROMMET (0.625 id)	3

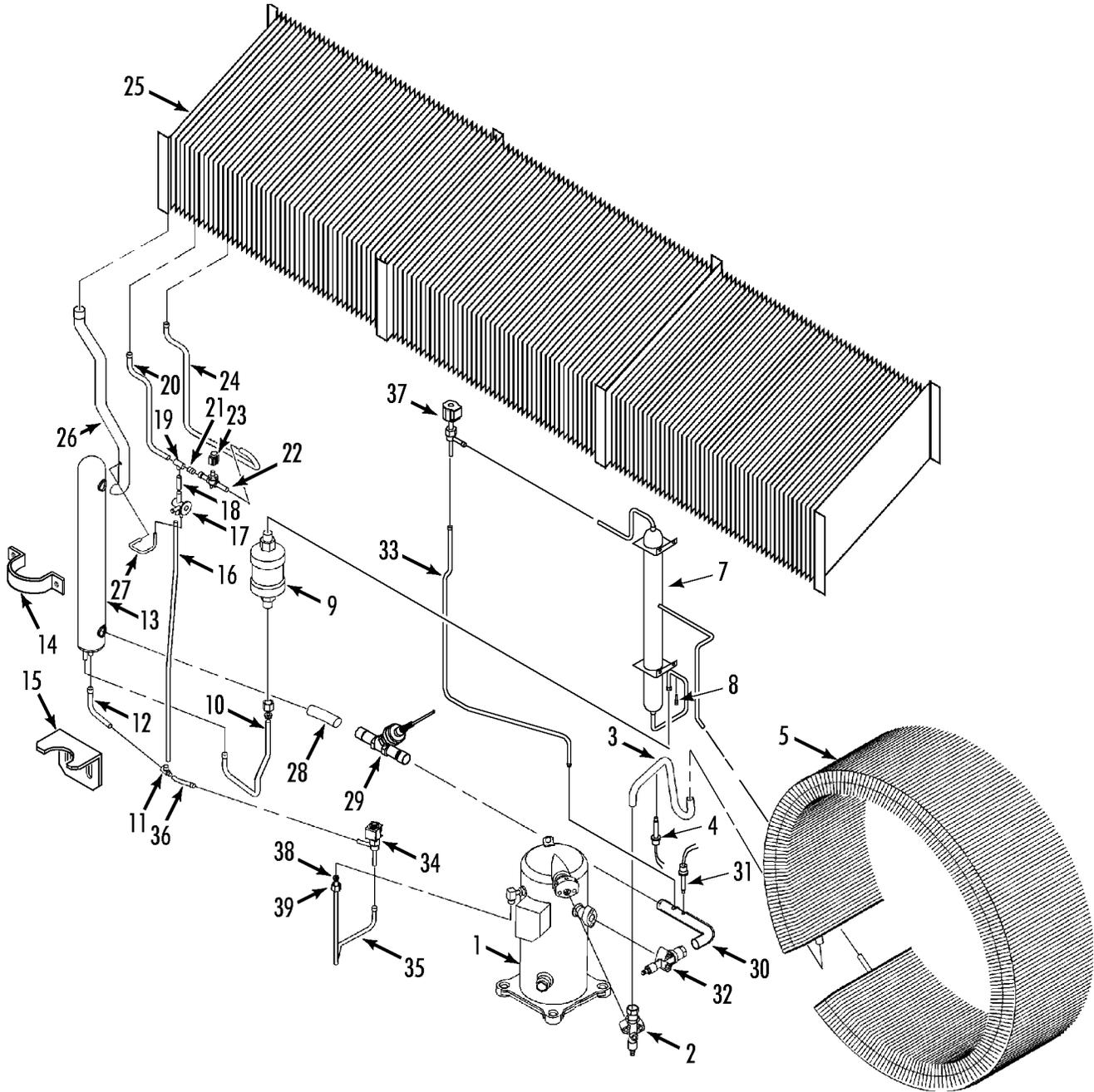


**REFRIGERATION (FLANGED COMPRESSOR w/  
STEPPER VALVE)**



**155D5**

REF	PART#	DESCRIPTION	QTY
1	102-796	COMPRESSOR - scroll (see 152A4)	1
2	66-3942	VALVE - discharge	1
3	66-9930	TUBE - discharge	1
4	41-3394	SWITCH - hpco	1
5	60-285	COIL - condenser (see 147B4)	1
	33-2949	GASKET (15 mm x 25 mm, pvc)	A/R
	33-2950	GASKET (10 mm x 15 mm, pvc)	A/R
	55-6994	SCREW - coil	7
	55-7075	FLATWASHER	7
	55-9054	WASHER (nylon)	7
6	Not Used		
7	67-1792	TANK - receiver	1
	55-6994	SCREW - receiver	4
	55-7075	FLATWASHER	8
	55-9207	WASHER (nylon)	4
	55-7042	NUT	4
8	66-9428	VALVE - relief	1
9	66-9307	DEHYDRATOR (o-ring seal)	1
	33-3007	GASKET	2
	55-4390	HANGER - dehydrator	1
10	66-9931	TUBE - filter to drier	1
11	55-3251	TEE	1
12	66-9932	TUBE - exchanger to tee	1
13	67-1028	HEAT EXCHANGER	1
14	91-8468	CLAMP - exchanger	1
15	91-8469	BRACKET - exchanger	1
	55-7172	SCREW - bracket	2
	55-7075	FLATWASHER	2
16	66-9024	TUBE - tee to expansion valve	1
17	61-443	VALVE - expansion	1
18	66-9034	TUBE - expansion valve to tee	1
19	55-2296	TEE	1
20	66-9030	TUBE - tee to evaporator	1
21	66-9035	TUBE - liquid	1
22	66-9032	VALVE - solenoid (dehumidity, see 146E5)	1
	60-323	KIT - repair (Danfoss)	1
23	41-3301	COIL - valve	1
24	66-9029	TUBE - valve to evaporator	1
25	67-1558	COIL - evaporator (units w/ 2 evap fans)	1
	67-1614	COIL - evaporator (CSR 20SL, w/ 3 evaporator fans)	1
	55-6993	SCREW (25 mm)	8
	55-9541	FLATWASHER (ins 8.4 mm)	14

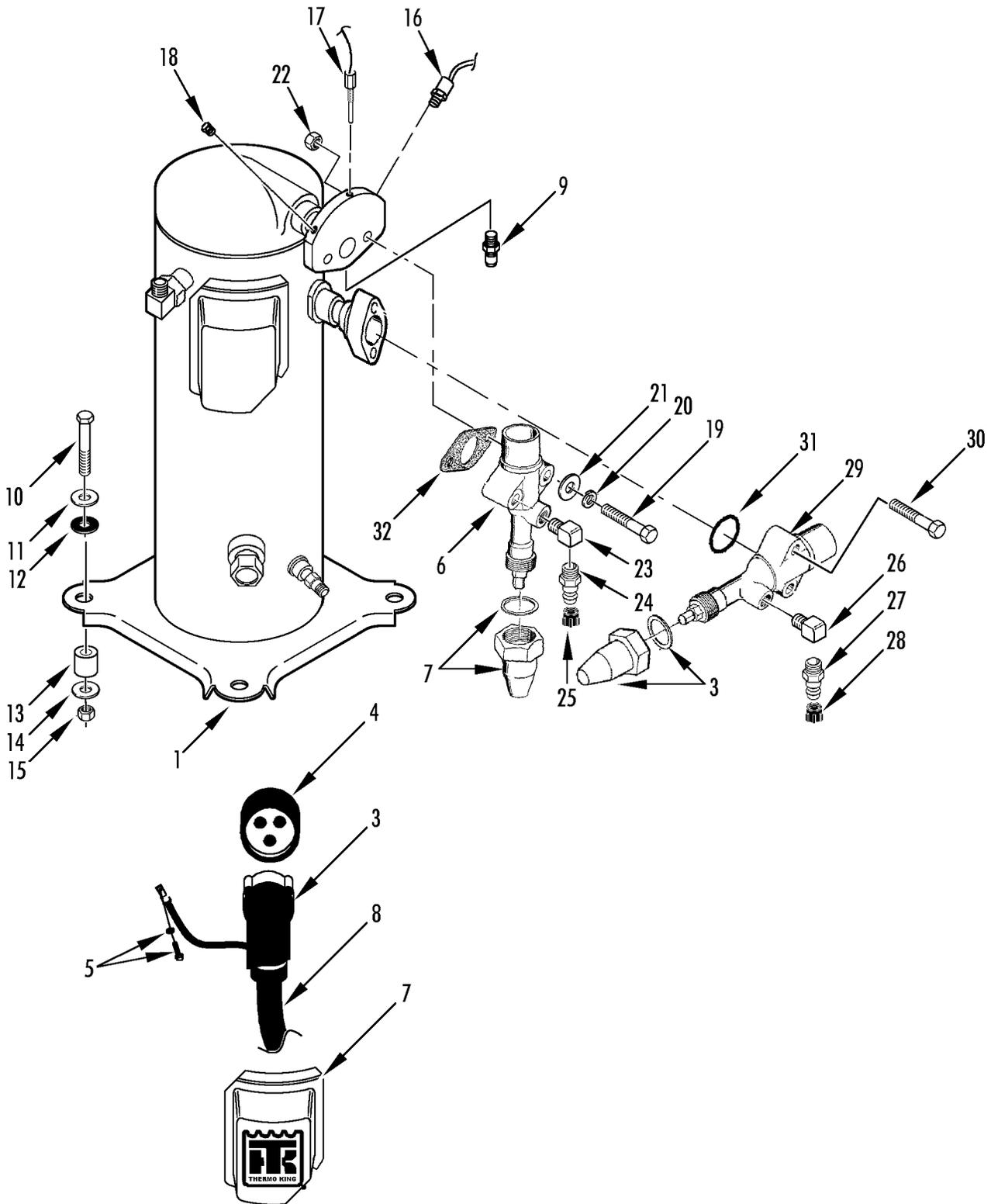


**REFRIGERATION (FLANGED COMPRESSOR w/  
STEPPER VALVE)**



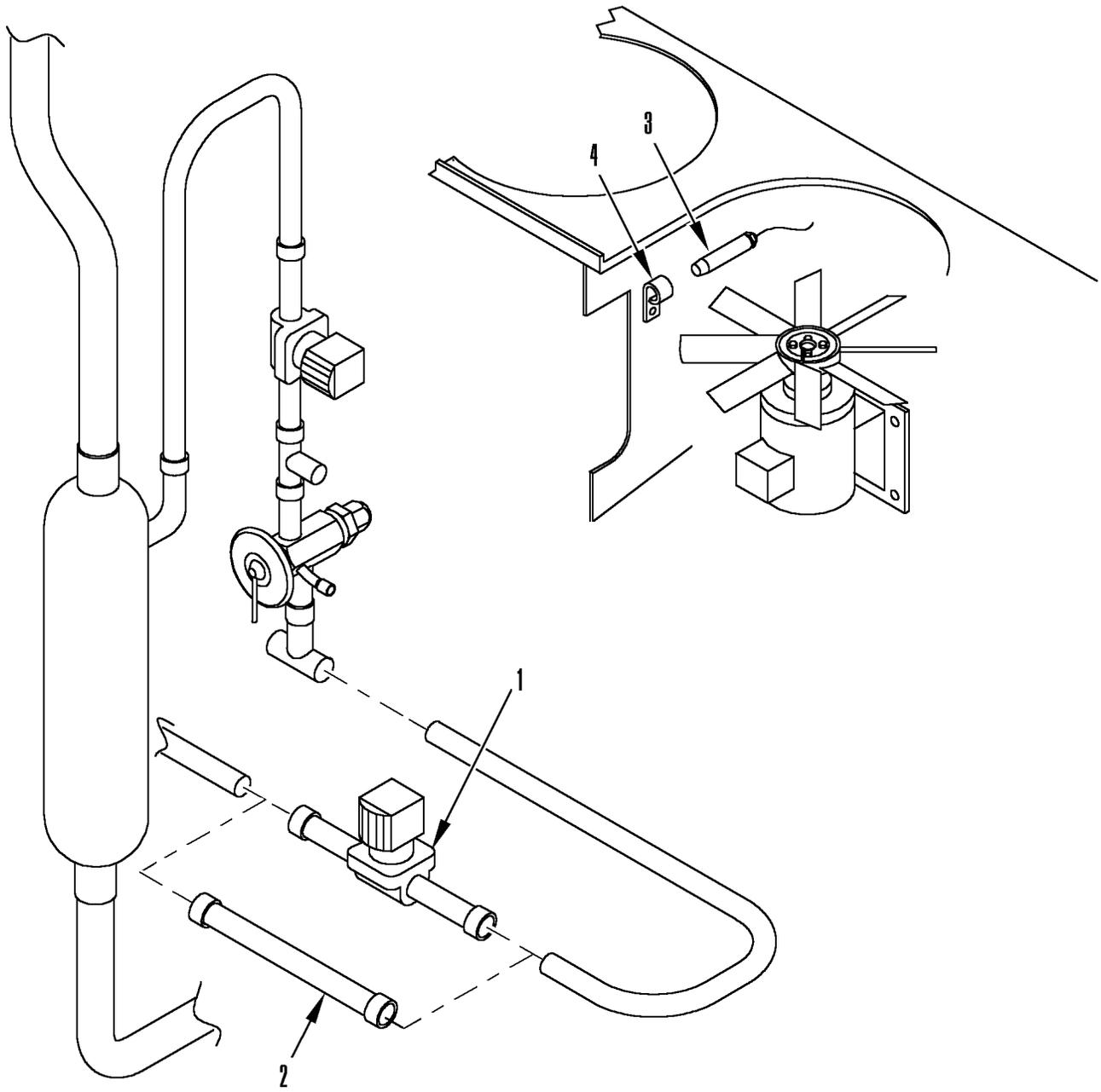
**155D5**

REF	PART#	DESCRIPTION	QTY
	55-6988	FLATWASHER (8.4 mm id)	14
26	66-9020	TUBE - exchanger to evaporator	1
27	66-9036	TUBE - equalizer	1
28	66-9933	TUBE - exchanger to valve	1
29	66-9934	VALVE - stepper	1
30	66-9935	TUBE - control valve	1
31	41-4003	SWITCH - lpc0	1
32	66-1916	VALVE - suction	1
33	66-9936	TUBE - solenoid valve	1
34	60-327	VALVE - solenoid (liquid injection, Alco)	1
	41-3301	COIL - valve	1
35	66-9937	TUBE - valve to compressor	1
36	66-9938	TUBE - tee to solenoid	1
37	60-328	VALVE - solenoid	1
38	55-8268	SHOULDER - o-ring seal	1
39	55-8269	NUT - o-ring seal	1



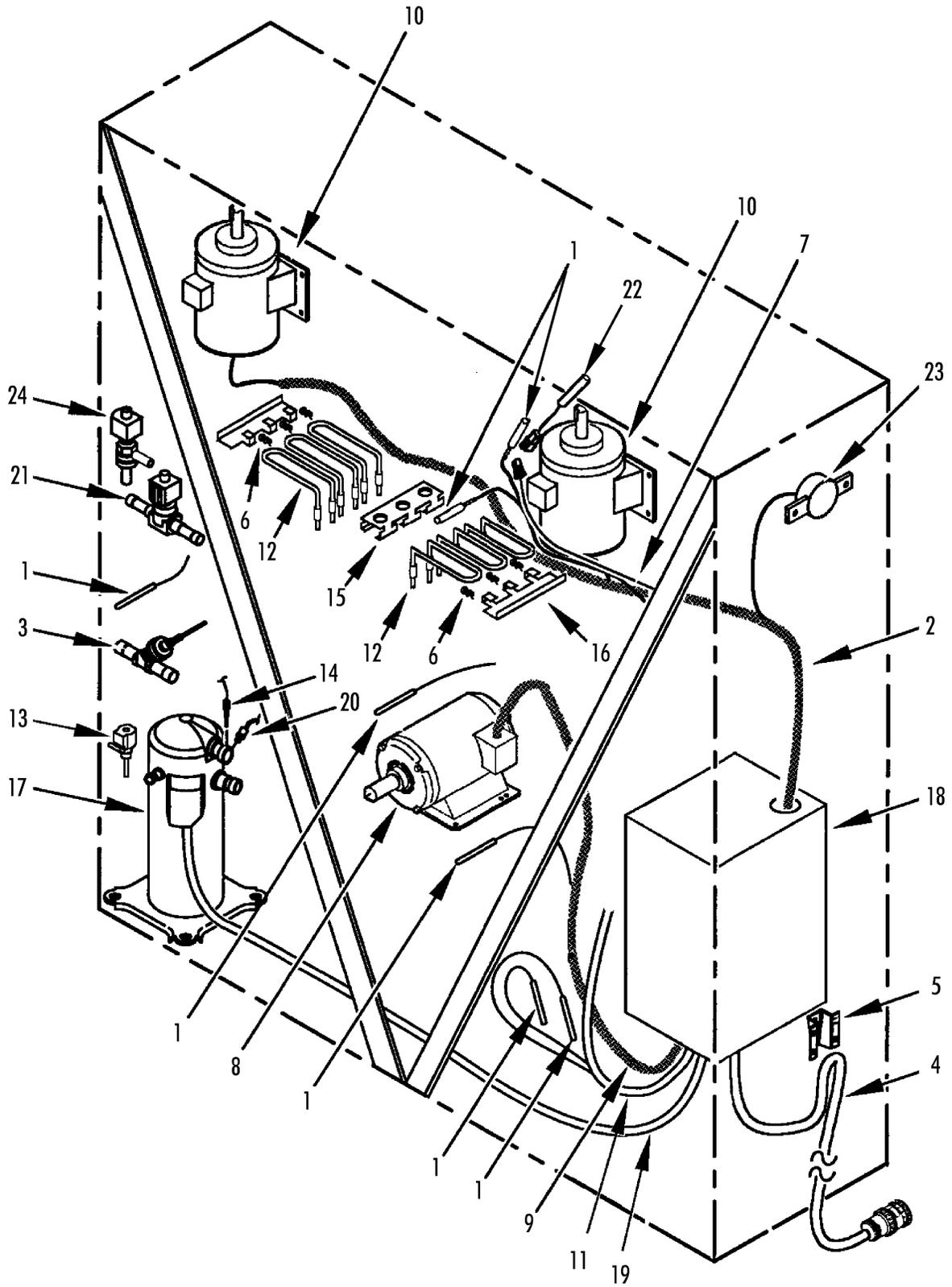


REF	PART#	DESCRIPTION	QTY
1	102-796	COMPRESSOR - scroll (CSR 40)	1
2	91-9021	COVER - terminal box	1
3	40-779	KIT - gasket & grease	1
4	33-2951	• GASKET - power connector	1
	33-2979	• SEALER - silicone grease pack	1
5	55-8994	• SCREW - ground	1
	55-8995	• WASHER - ground	1
6	66-3942	VALVE - discharge	1
7	66-3015	CAP - valve (brass, incl gasket)	1
8	40-782	KIT - power cord	1
9	11-2886	VALVE	1
	55-7213	BODY (brass)	1
	11-7777	CORE - valve	1
	55-5672	CAP - valve	1
10	55-8911	SCREW - compressor	4
11	55-8912	FLATWASHER (13 mm)	4
12	55-9012	WASHER - vibration damper	4
13	55-9013	SPACER	4
14	55-7360	FLATWASHER (12 mm)	4
15	55-8992	NUT	4
16	41-4004	SWITCH - hpco	1
17	41-2447	SENSOR - head temperature	1
18	55-3364	PLUG	2
19	55-9171	SCREW - valve	2
20	55-6999	LOCKWASHER	2
21	55-9172	WASHER - sealing	2
22	55-7344	NUT	2
23	66-7812	ADAPTER - high side	1
24	66-6610	FITTING - highside	1
25	66-7182	CAP - fitting	1
26	66-8054	ADAPTER (lowside)	1
27	66-6607	FITTING - lowside	1
28	66-7183	CAP - fitting	1
29	66-1916	VALVE - suction	1
30	55-3565	SCREW - valve	2
	55-6988	FLATWASHER	2
	55-7342	LOCKWASHER	2
31	33-727	O-RING	1
32	33-2805	GASKET - valve	1



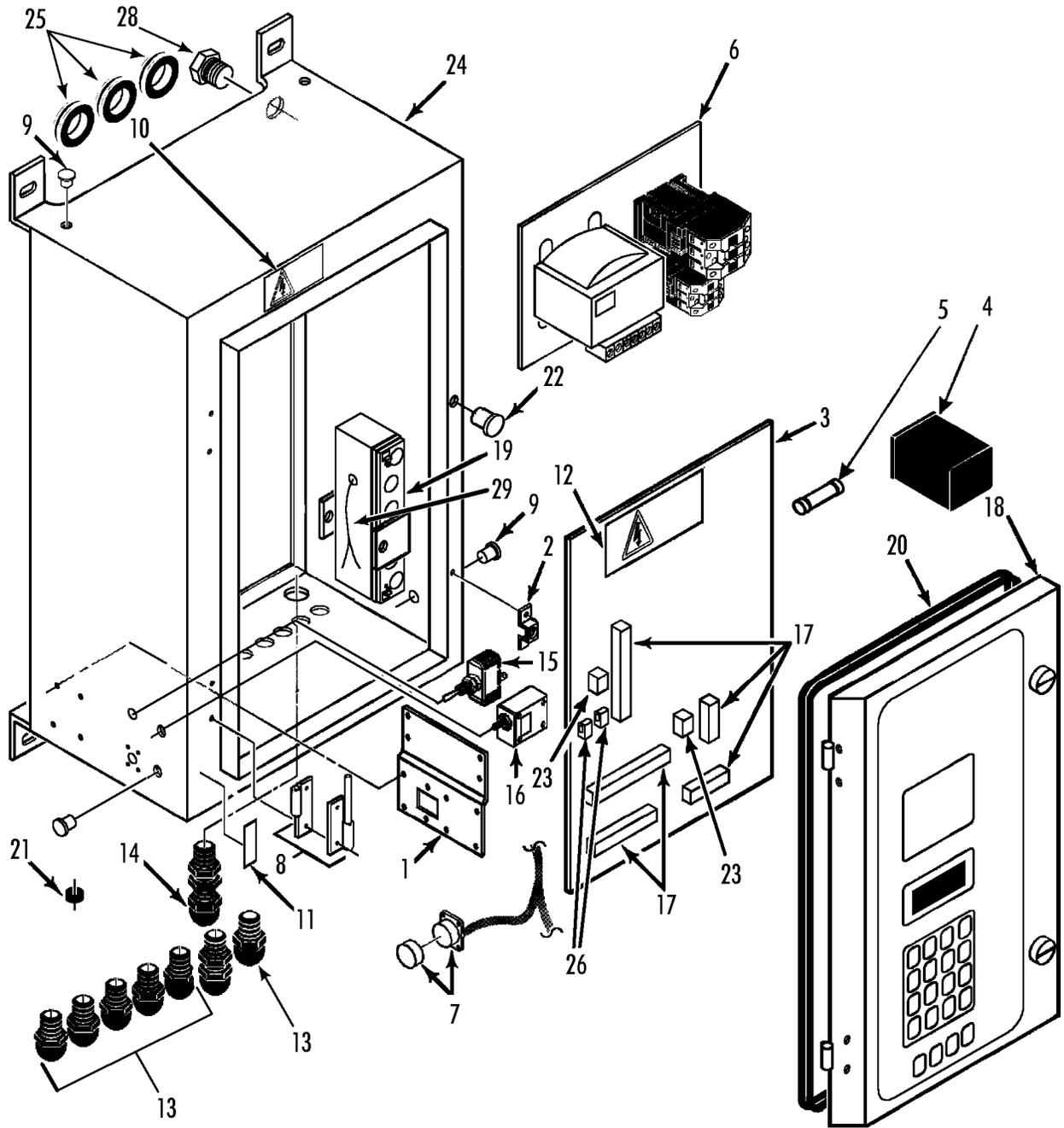


REF	PART#	DESCRIPTION	QTY
1	66-9032	VALVE - solenoid (humidity control)	1
	60-323	• KIT - repair (Danfoss)	1
	41-2399	• COIL - liquid line valve (w/ connector)	1
	41-5460	•• COIL	1
2	66-9159	TUBE (replaces valve)	1
3	41-9220	SENSOR - humidity	1
	41-2838	HARNESS - sensor	1
4	55-1203	CLAMP - sensor	2
	55-8991	SPACER - clamp	2
	55-9173	SCREW - clamp	2



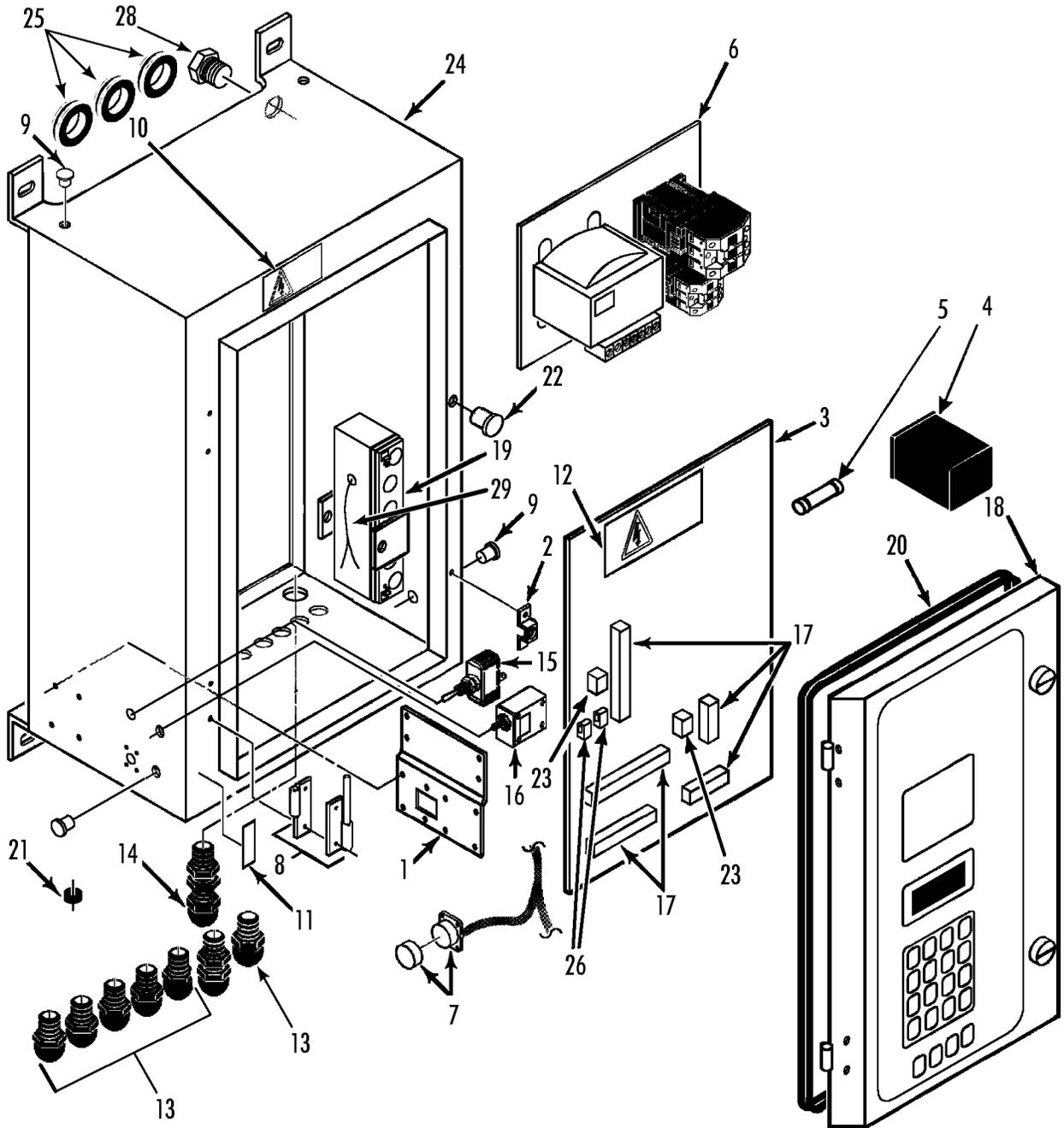


REF	PART#	DESCRIPTION	QTY
1	40-791	SENSOR - kit	A/R
2	41-3277	HARNESS - evaporator fans & heaters (see 152C1)	1
3	66-9934	VALVE - stepper	1
4	45-1992	CABLE - power	1
	41-1976	PLUG - power (Minnekes)	1
5	91-6988	BRACKET - cable restraint	1
	92-2777	BRACKET - cable power	1
	55-9164	SCREW - cable	1
	55-7357	FLATWASHER	1
	55-7344	NUT	1
	55-7172	SCREW - bracket	4
	55-7075	FLATWASHER	4
	55-7170	LOCKWASHER	4
6	91-8140	SPRING - heater	6
7	41-2838	HARNESS - sensor (humidity, MPC)	1
8	104-753	MOTOR - condenser fan (see 140D2)	1
9	41-2953	HARNESS - condenser fan (see 140D2)	1
10	104-691	MOTOR - evaporator fan (see 152C1)	2
11	41-3593	HARNESS - control box	1
12	45-1791	HEATER (600 mm wire)	6
	45-1927	HEATER (2000 mm wire)	1
13	60-327	VALVE - solenoid (see 154E9)	1
14	41-2447	SENSOR - head temperature	1
15	91-8142	BRACKET - heater	1
16	91-8467	BRACKET - heater	2
	55-8891	SCREW - bracket	11
17	102-796	COMPRESSOR - scroll (see 152A4)	1
18	NSS	BOX - control (see 152A3)	1
	55-9810	SCREW - control box	4
	55-8893	WASHER	4
	55-9054	WASHER (nylon)	4
19	40-782	CABLE - compressor	1
20	41-4004	SWITCH - hpco	1
21	41-3303	SOLENOID - dehumidifier	1
22	41-4568	SENSOR - humidity	1
23	41-3401	THERMOSTAT	1
	55-9166	SCREW - thermostat	2
24	60-328	VALVE - solenoid	1



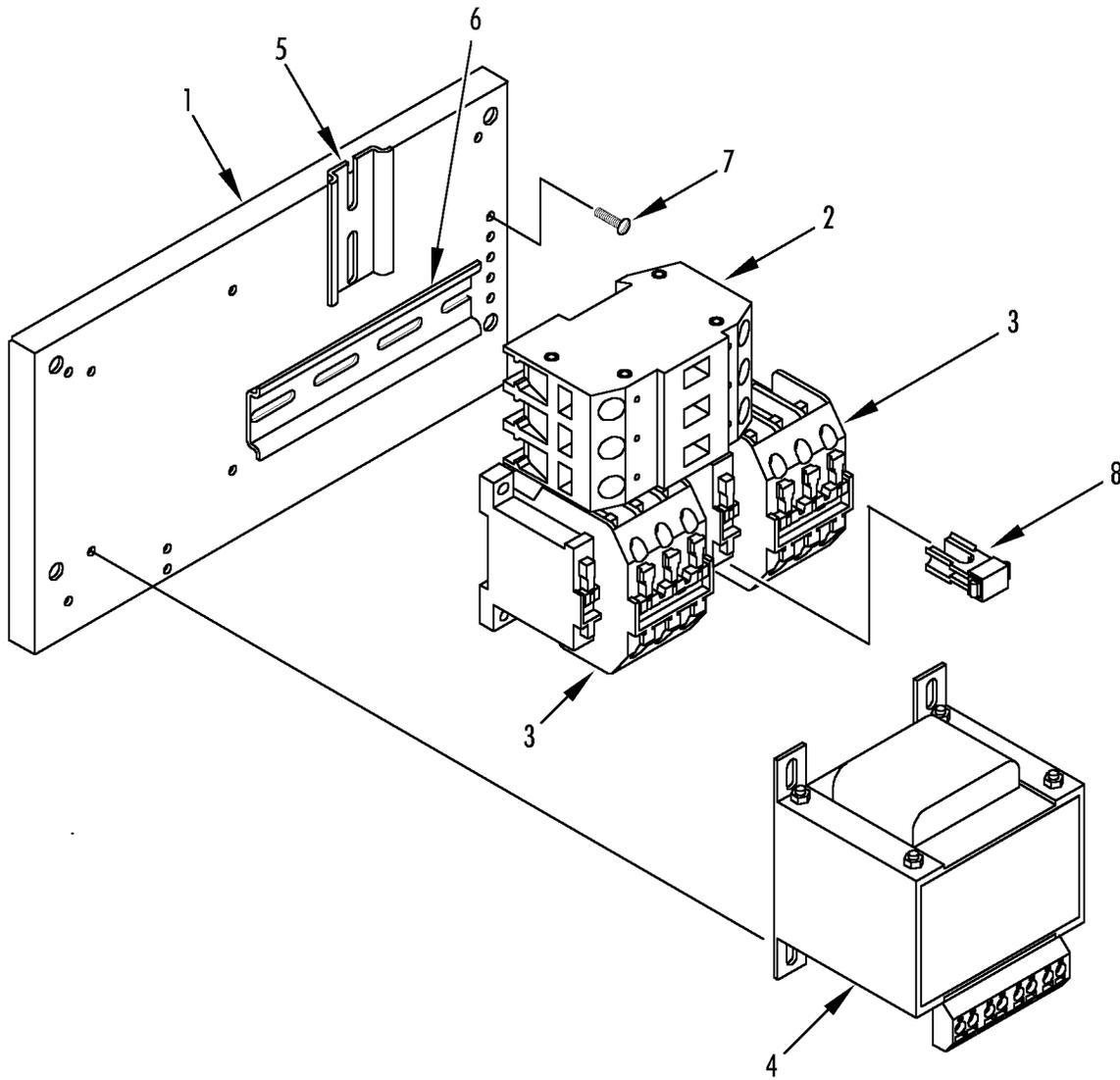


REF	PART#	DESCRIPTION	QTY
1	509-1606	BRACKET - diagram	1
	55-3272	RIVET - bracket	4
2	509-180	BRACKET (w/ receptacle)	2
	55-2074	NUT - speed	1
	55-9166	SCREW - bracket	4
	55-9444	WASHER - insulating (nylon)	4
3	845-2010	BOARD - relay (MP3000)	1
	55-9166	SCREW - relay board	6
4	41-7587	RELAY - power (K24-58162-02)	6
	92-860	CLIP - retaining	5
5	504-970	FUSE (20A)	3
	41-9318	HOLDER - fuse	1
	55-9166	SCREW - board	2
6	NSS	TRAY - high voltage (see 142F2)	1
7	41-2853	CABLE & PLUG - retriever (cannon threaded)	1
	55-3272	RIVET - plug	4
	41-3588	CAP - plug	1
8	509-1007	HINGE - cover	2
	55-7172	SCREW - hinge	4
	55-8877	WASHER (nylon)	4
	509-955	INSULATOR	2
	55-8893	WASHER	2
	505-566	LOCKWASHER	2
	55-7042	NUT	4
9	505-408	PLUG - seal	3
10	91-9833	LABEL - high voltage	1
11	509-1156	LABEL - on/off	1
12	509-1155	LABEL - relay board	1
13	55-5900	FITTING - harness	6
14	55-5257	FITTING - harness	2
15	41-3595	SWITCH - unit on/off	1
	92-239	BOOT - terminal	1
16	41-3276	BREAKER - circuit	1
	44-8688	BOOT - circuit breaker	1
17	41-3596	TERMINAL BLOCK (4 pole)	1
	41-3597	BLOCK - terminal (5 pole)	1
	41-3598	BLOCK - terminal (8 pole)	1
	504-1413	BLOCK - terminal (12 pole)	1
	41-3599	BLOCK - terminal (14 pole)	1
	41-3608	BLOCK - terminal (18 pole)	1
18	NSS	DOOR - controller (see 150G7)	1
19	203-509	BATTERY (12V, 1.9 AH)	1



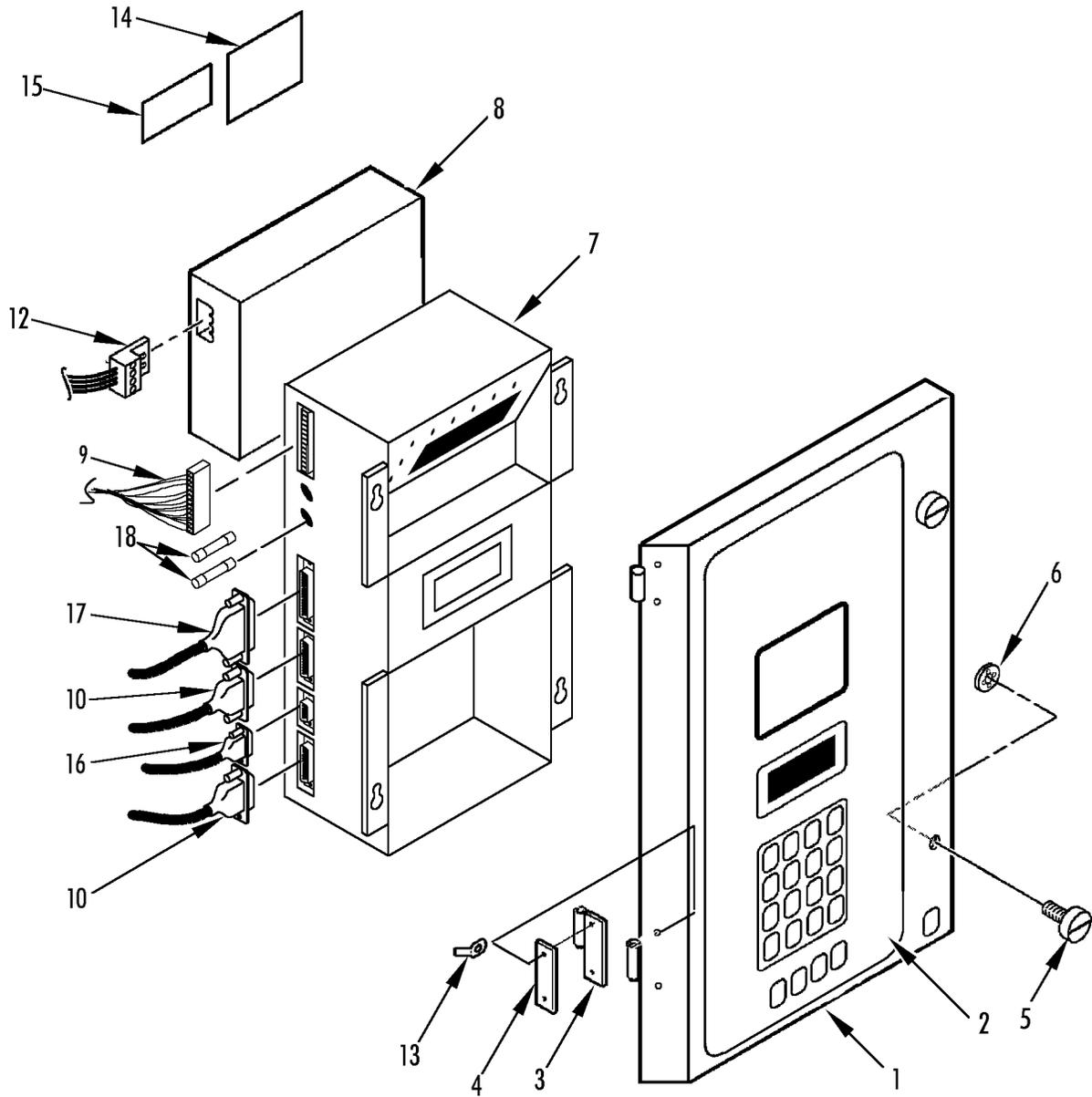


REF	PART#	DESCRIPTION	QTY
20	33-3837	GASKET - cover	1
21	33-3838	GROMMET	1
22	505-570	PLUG - seal	3
23	41-2832	CONNECTOR - plug (2 pin, short circuit)	1
	504-327	PLUG (2 pole)	1
24	98-5454	BOX - control	1
25	33-3215	GROMMET	3
26	41-2833	PLUG - dim	2
27	55-5885	CONNECTOR - harness	1
28	55-9346	PLUG - seal (M12)	1
29	41-3335	CABLE - battery	1



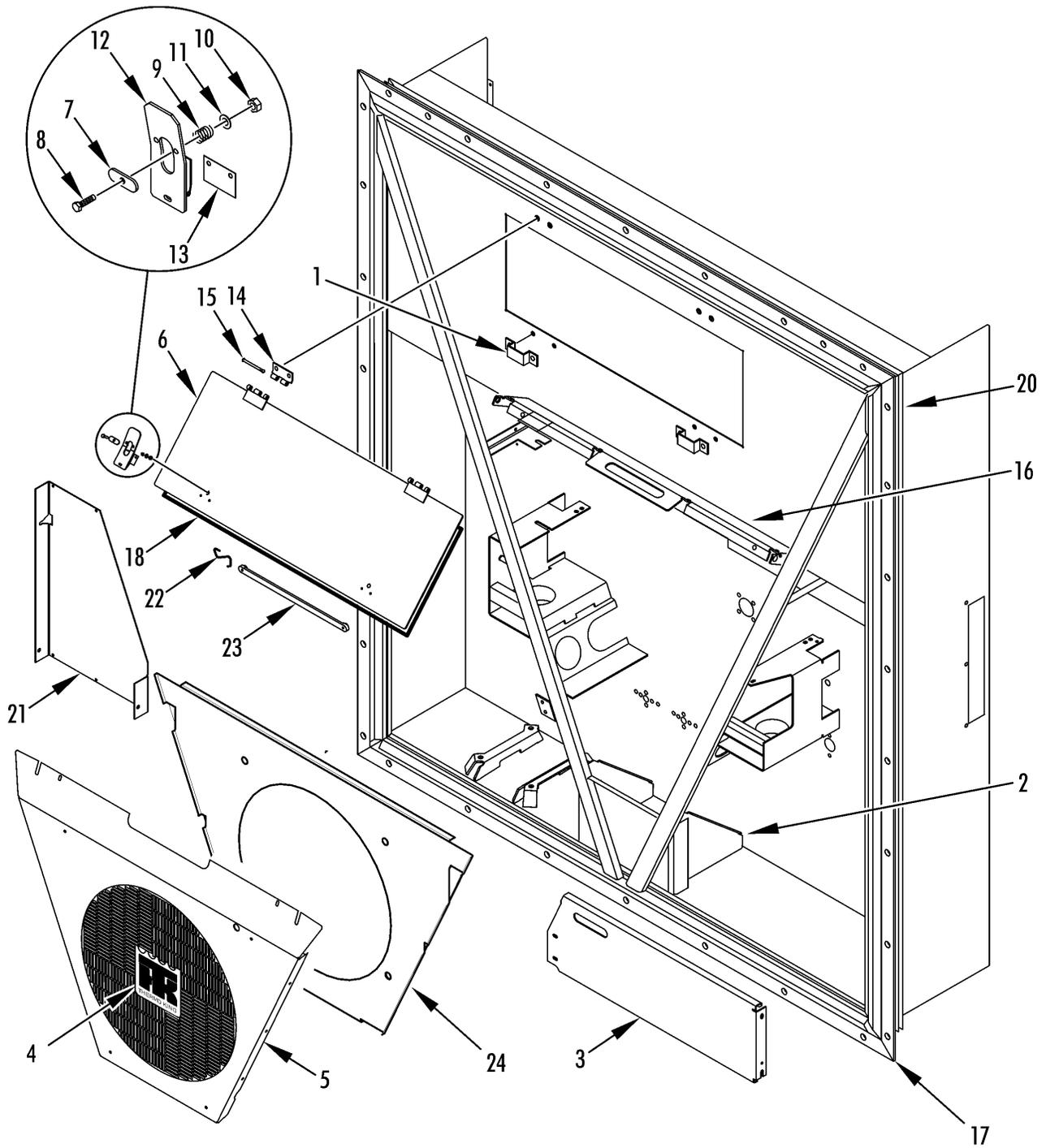


REF	PART#	DESCRIPTION	QTY
1	91-9913	PLATE - bottom	1
	55-7372	SCREW - plate to box	4
	55-7008	NUT	4
2	41-2521	BREAKER - circuit (25 amp)	1
3	41-3605	CONTACTOR (CI 25)	2
4	41-3317	TRANSFORMER	1
	509-1610	SCREW - transformer	4
5	91-9914	RAIL - din (60 mm)	1
6	91-9915	RAIL - din (125 mm)	1
7	55-9166	SCREW (pan hd)	11
	55-7404	LOCKWASHER	6
8	41-3604	INTERLOCK	1



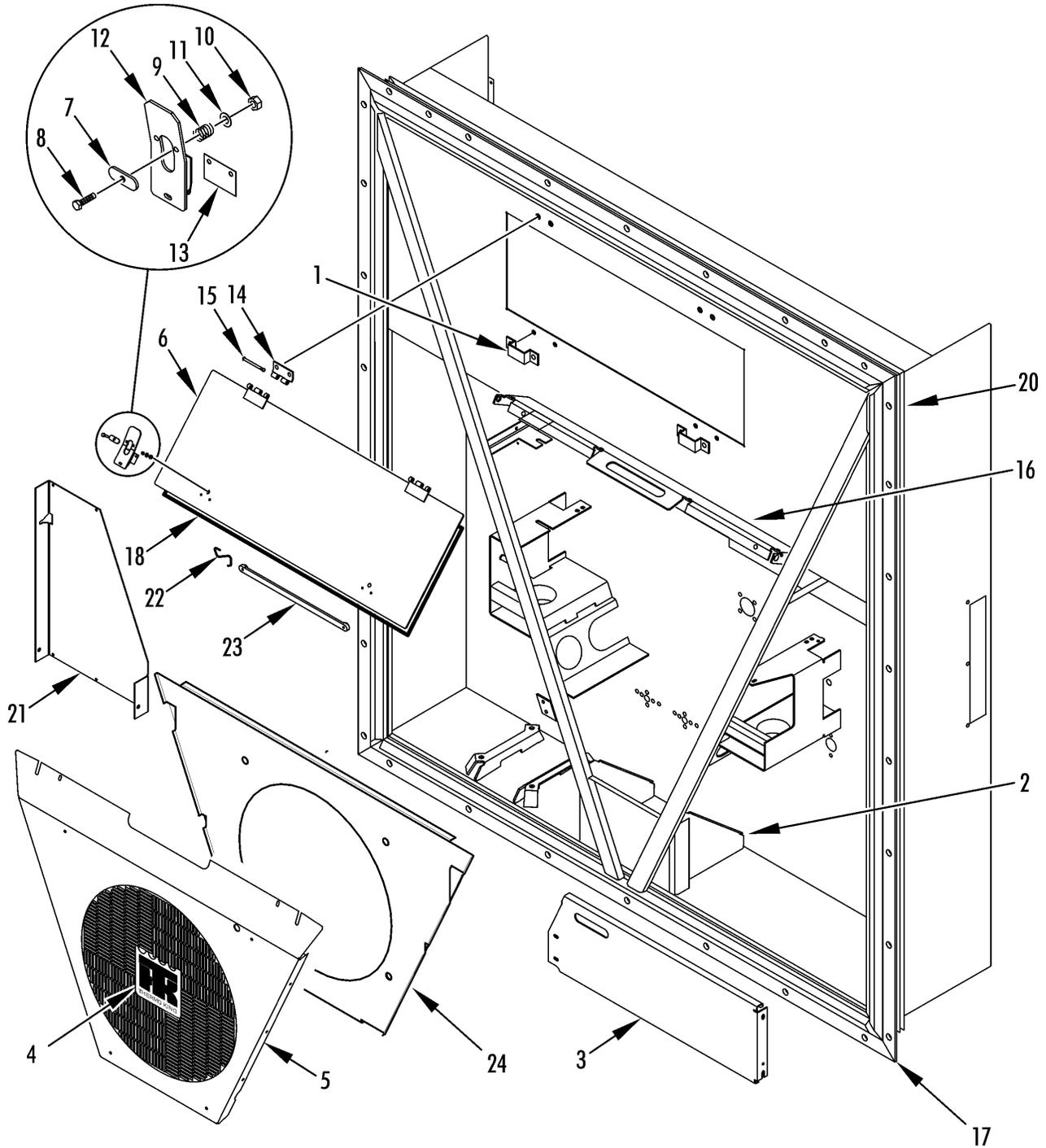


REF	PART#	DESCRIPTION	QTY
1	91-9380	DOOR - control box	1
2	41-4142	KEYPAD (MP3000)	1
3	91-9381	HINGE - door	2
	55-7407	SCREW - hinge	4
	55-9444	WASHER (nylon)	4
	55-7033	WASHER	4
	55-7034	NUT	4
4	55-9392	INSULATOR - hinge	2
5	55-9393	SCREW - door	2
6	55-8919	RETAINER - screw	2
7	845-2214	CONTROLLER (MP3000)	1
8	45-1898	MODEM - RMM	1
9	41-3335	CABLE - battery	1
10	41-3602	CABLE - connecting (25 pin, No. 3)	2
12	41-2469	CABLE - connecting (RMM)	1
13	505-586	ADAPTER - push-on	1
	51-1419	NUT	1
14	91-9382	NAMEPLATE - controller warning	1
15	91-9383	NAMEPLATE - phase select	1
16	41-2853	CABLE & PLUG - retriever (cannon threaded)	1
	41-3402	CABLE - plug (complete)	1
	41-2853	• CABLE - retriever	1
17	41-2835	CABLE - connecting (No. 2)	1
	41-3402	CABLE - plug (complete)	1
18	44-6777	FUSE (2 amp 500V)	2
	504-880	CAP - fuse	2



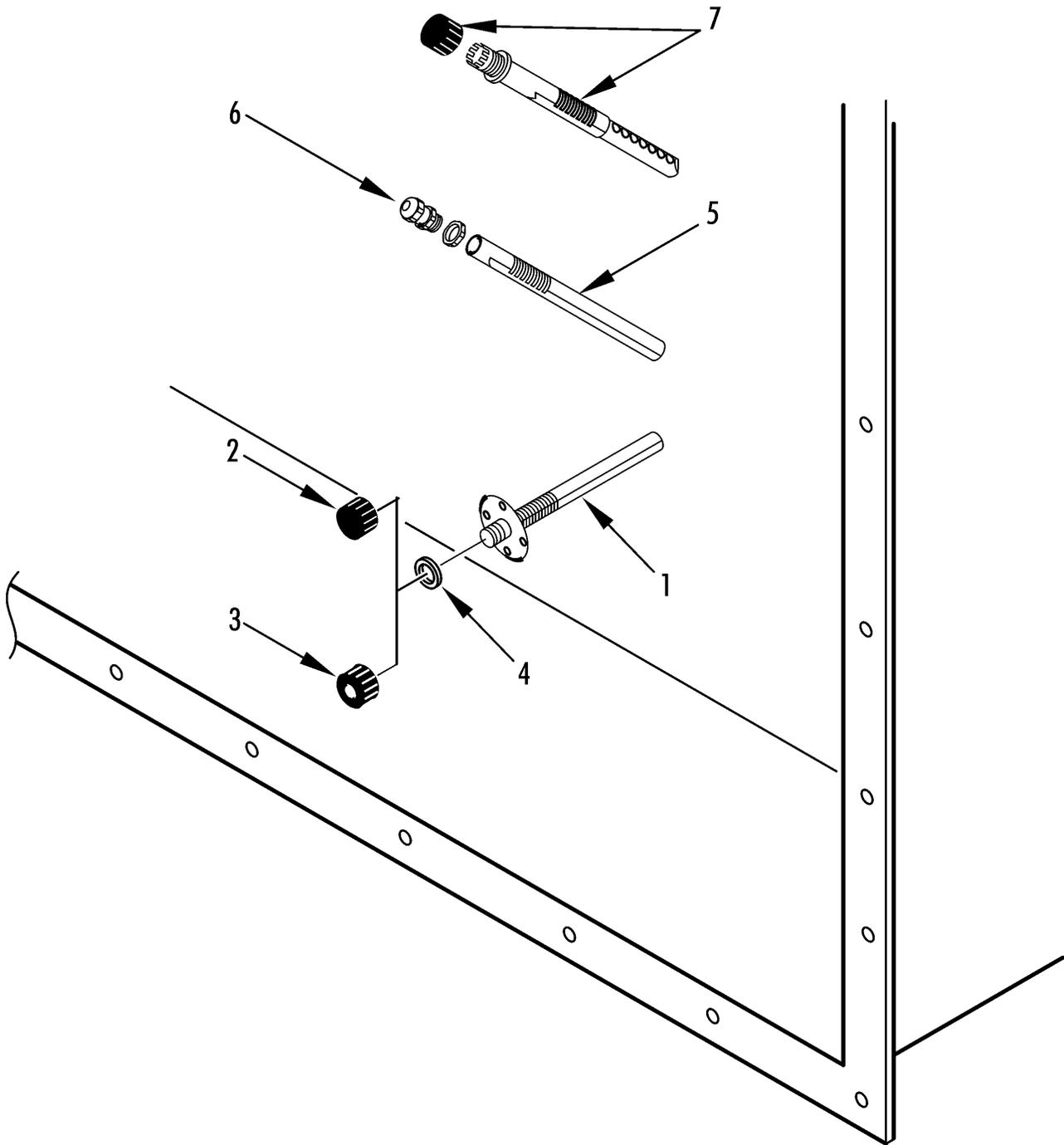


REF	PART#	DESCRIPTION	QTY
1	91-8195	KEEPER - door latch	2
	55-9312	SCREW - keeper (TIR seal)	4
	55-6995	WASHER	4
	55-9054	WASHER (nylon)	4
	55-8877	WASHER (nylon)	4
2	91-8108	BRACKET - frame	1
	55-6993	SCREW - bracket	3
	55-6988	WASHER	6
	55-9541	WASHER (nylon)	6
	55-9380	NUT	3
3	91-9504	PLATE - cable storage (front)	1
	55-9168	NUT	2
	55-9054	WASHER (nylon)	6
	55-6994	SCREW - plate	2
	55-6695	FLATWASHER	6
	55-8933	WASHER (nylon)	6
4	91-9511	NAMEPLATE - TK	1
5	98-5925	GRILLE - condenser	1
	83-257	GROMMET	2
	55-6994	SCREW - grille	4
	55-7075	FLATWASHER	4
	55-9054	WASHER (nylon)	4
6	98-6518	DOOR - evaporator	1
	92-2995	• HINGE - evap door	2
	51-620	• RIVET - hinge	8
7	91-9040	• KNOB	2
8	55-7035	• SCREW - door	2
9	91-8199	• SPRING	2
10	55-7354	• NUT	2
11	55-9054	• WASHER (nylon)	2
12	91-9041	• LATCH - door	2
	55-2864	• RIVET - latch	4
13	91-8134	• INSULATOR - latch	2
14	509-1654	• HINGE	2
	55-9313	• SCREW - hinge (TIR seal)	4
	55-9541	• WASHER (nylon)	4
15	91-8256	• PIN - hinge (w/ snap)	2
16	98-5199	DOOR - heater section	1
	55-6993	SCREW - door	4
	55-9313	SCREW - door (TIR seal)	1



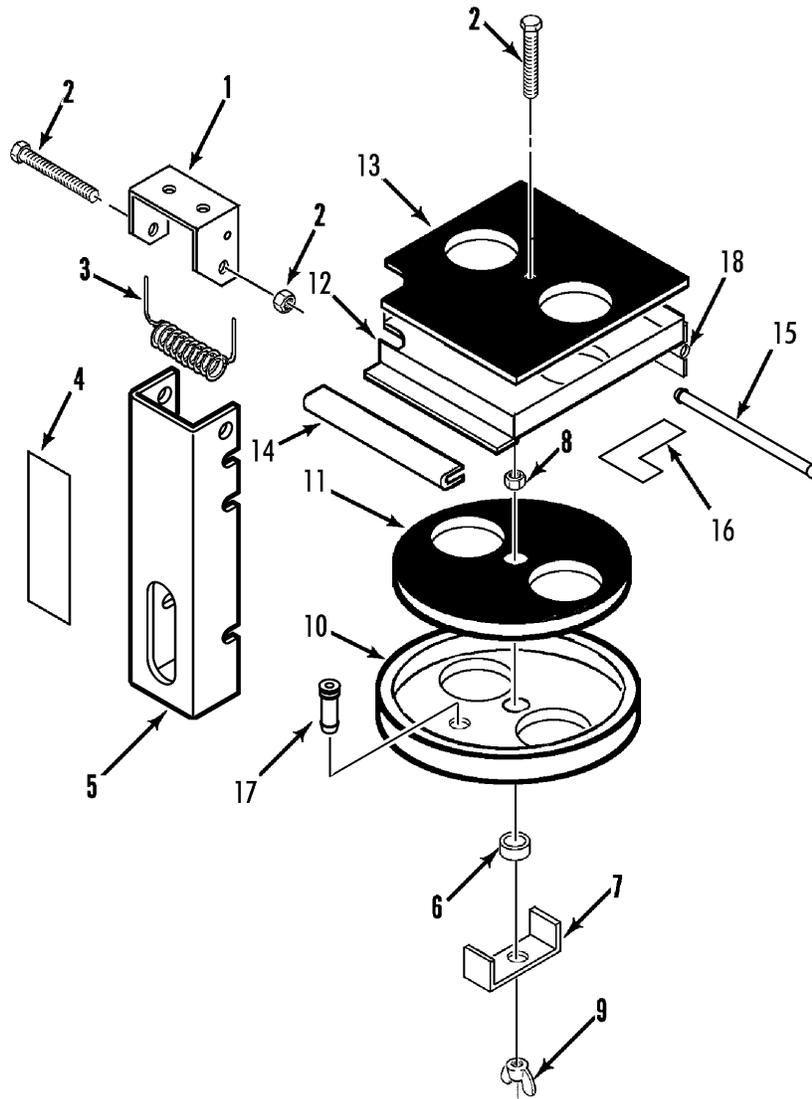


REF	PART#	DESCRIPTION	QTY
	55-9541	WASHER (nylon)	8
	55-7085	WASHER	8
17	98-5638	FRAME - condenser	1
18	33-3969	GASKET - evaporator door	1
19	33-3002	GASKET - door (heater section)	1
20	33-2983	GASKET - unit	1
21	91-8728	COVER (instead of thermometer)	1
	55-7391	SCREW - cover	3
	55-6988	FLATWASHER	3
	91-8664	PLATE - guard	1
22	91-9039	HOOK - strap	1
	55-3065	CLAMP - hook	1
	55-9166	SCREW - clamp	1
23	509-937	STRAP - door	1
	55-9173	SCREW - strap	1
	55-7089	FLATWASHER	2
24	91-9912	ORIFICE - condenser	1
	55-7035	SCREW - orifice	4
	55-7075	FLATWASHER	4
	55-3045	WASHER - dome	4
	55-6997	NUT - captive	4



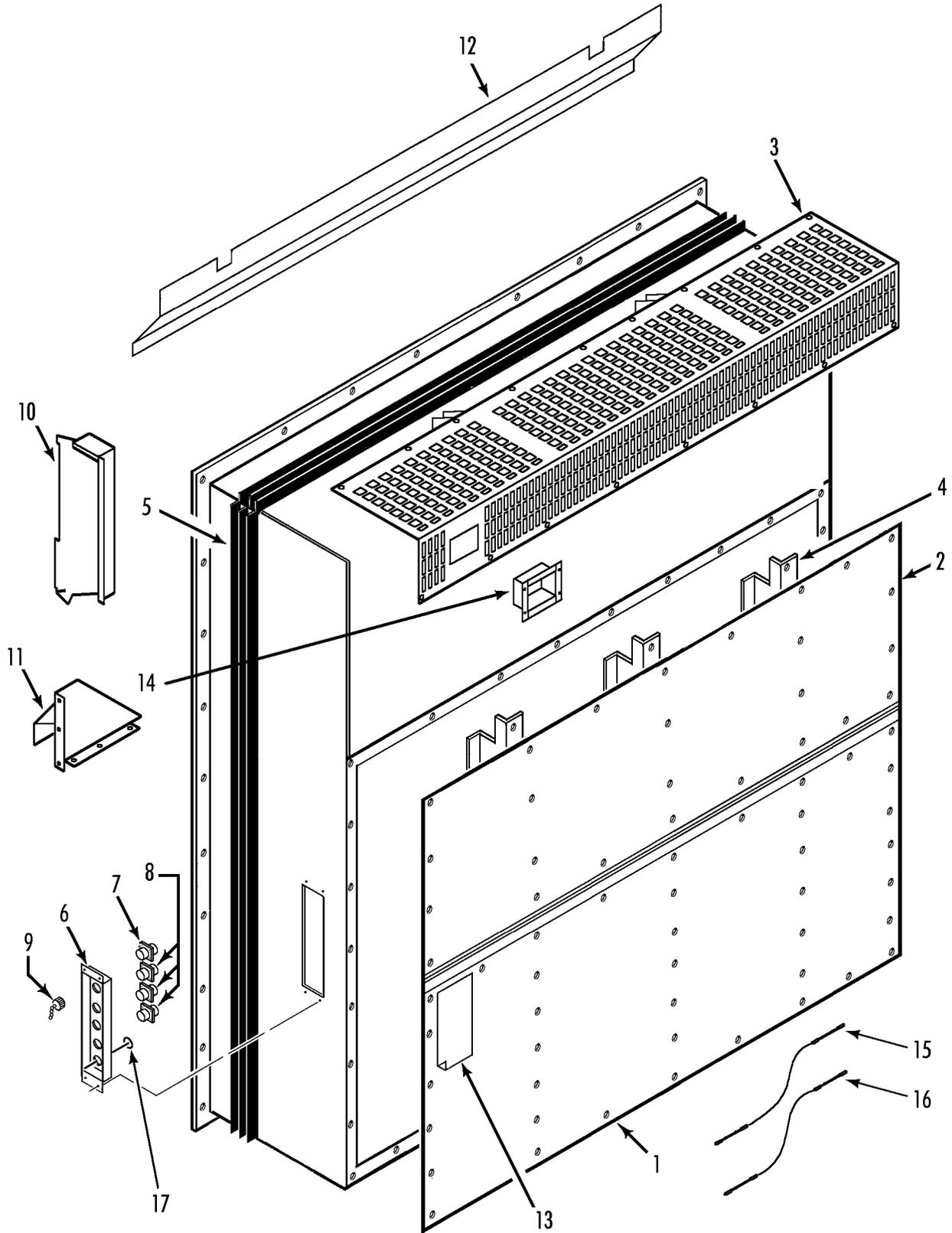


REF	PART#	DESCRIPTION	QTY
1	91-8098	RETAINER - probe	1
2	509-964	CAP - retainer (w/o hole)	1
3	91-8702	CAP - retainer (w/ hole)	1
4	33-2960	GASKET - retainer	1
5	91-9754	POCKET - sensor	1
6	55-6409	CONNECTOR - sensor	1
7	91-9754	POCKET - sensor	2



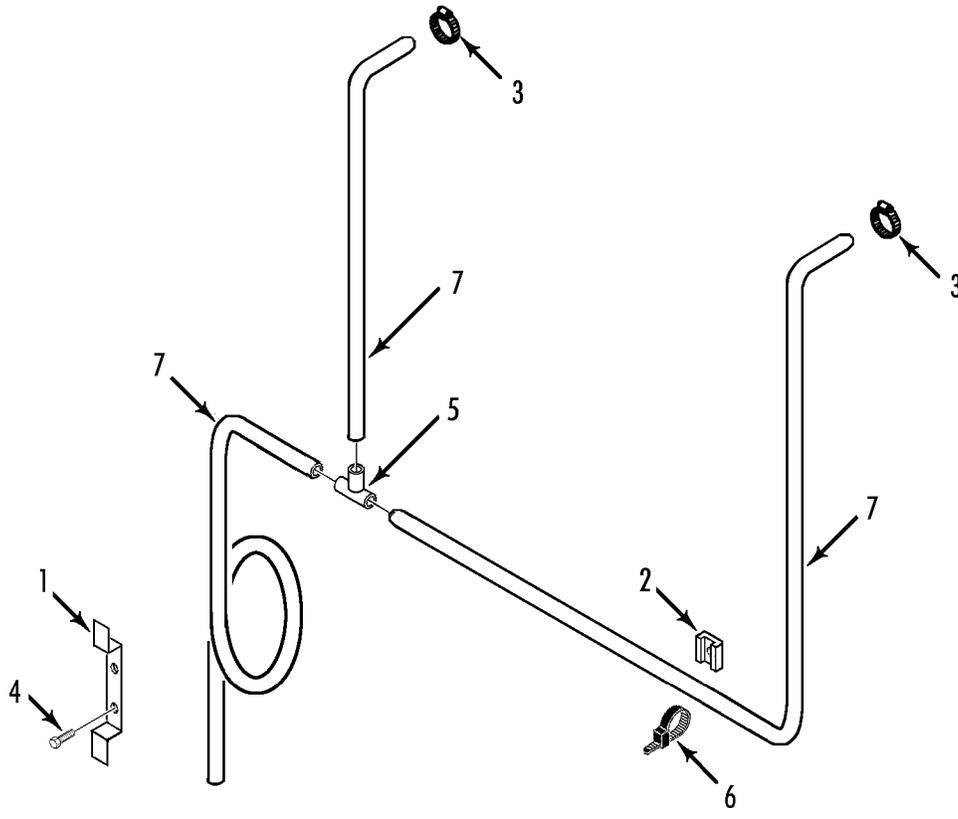


REF	PART#	DESCRIPTION	QTY
	91-8252	VENT - air (complete)	1
1	91-9048	• BRACKET - air vent handle	1
2	51-1426	• SCREW - handle	1
	51-1474	• SCREW (M8 x 1.25 x 65, ss)	1
	55-9541	• WASHER (nylon)	4
	51-1427	• NUT	1
3	91-8100	• SPRING	1
4	92-440	• NAMEPLATE - Do Not Open Below 0 C	1
5	91-8102	• HANDLE - air vent	1
6	77-2467	• BEARING - slide	1
7	91-8104	• BRACKET - handle	1
8	51-1428	• NUT	2
	51-1429	• LOCKWASHER	1
	51-1430	• FLATWASHER	1
9	51-1431	• NUT - wing	1
10	91-8103	DISK - air vent	1
11	33-4255	• GASKET - air vent	1
12	91-8105	• PLATE - air vent	1
	55-7172	• SCREW - plate	4
	55-7075	• FLATWASHER	4
	55-9541	• WASHER (nylon)	4
13	33-2944	• GASKET - air vent	1
14	91-8663	• PROTECTOR - edge	1
15	91-8106	• PIN - hinge	1
16	91-8107	• NAMEPLATE - Do Not Open Below 0 C	1
17	55-9168	• ADAPTER - hose	1
18	92-411	• HINGE - air vent	1
	51-619	SCREW - vent	8
	55-8933	WASHER - insulator (6.4 id)	4
	55-7075	FLATWASHER	4
	55-9054	WASHER - insulator (8.4 id)	6
	55-8893	FLATWASHER	6
	55-7339	NUT	6



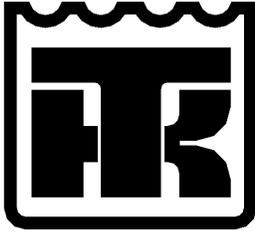


REF	PART#	DESCRIPTION	QTY
1	91-8258	PLATE - rear (bottom)	1
2	98-5335	PLATE - rear (top)	1
	55-3136	RIVET - plate	63
3	98-5523	GRILLE - evaporator (Transfresh)	1
	55-2264	RIVET - grille	17
4	91-8097	CHANNEL - Z	3
	55-9055	RIVET - channel	21
5	33-2983	GASKET - unit	1
6	91-9834	PANEL - USDA receptacle	1
	55-9211	RIVET - panel	4
7	41-2405	CONNECTOR - receptacle (5 pin, bayonet)	1
8	504-209	RECEPTACLE (4 pin, bayonet)	3
	55-9322	RIVET - receptacle	16
9	41-2406	CAP - dust (receptacle)	1
	309-1998	CHAIN (only one chain)	1
	55-9323	RIVET - cap	1
10	91-9329	CHANNEL - air	1
	203-389	SEALER - polyurethane (white)	A/R
	55-8902	RIVET - channel	8
11	91-9330	INLET - fresh air	1
	55-8902	RIVET - inlet	8
	203-389	SEALER - polyurethane (white)	A/R
12	91-9331	CHANNEL - fresh air	1
	55-8891	SCREW - channel	11
	55-2270	RIVET - channel	10
13	91-8734	NAMEPLATE - USDA Connections	1
14	91-8715	BOX - Transfresh	1
	55-7713	RIVET - box	4
15	41-2554	CABLE - Transfresh (red bandwrap)	1
16	41-2555	CABLE - Transfresh (green bandwrap)	1
17	41-3588	PLUG	1





REF	PART#	DESCRIPTION	QTY
1	91-8244	BRACKET - hose	1
2	99-3281	MOUNT - cable tie	5
	55-2260	RIVET - anchor	5
3	55-2686	CLAMP - hose	2
4	55-8891	SCREW - bracket	2
5	55-9208	CONNECTOR - T-hose	1
6	55-2330	BANDWRAP	6
7	11-8983	HOSE - flex	1



1

**INGERSOLL-RAND**  
**THERMO KING**

2

4



3

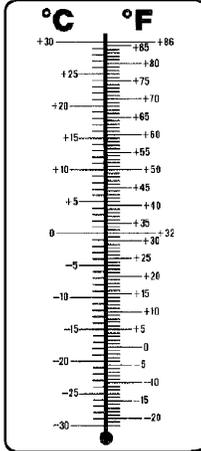
**R 402A**

5

**WARNING**  
FANS START  
AUTOMATICALLY



6



8

**CAUTION**  
COMPRESSOR MAY SOFT START  
3 ON / OFF CYCLES  
REFERENCE SERVICE MANUAL.

9



10

**WARNING**  
Hot Components  
Compressor discharge  
may be hot!



7

**WARNING !**  
TURN POWER OFF  
BEFORE DISCONNECTING  
DATALOGGER OR  
CONTROLLER.

11

Phase selector.



509-1173

12

CLOSED

CO2 ADAPTER

DO NOT OPEN BELOW 0°C 32°F

- 15 m<sup>3</sup>/h 9 CFM
- 35 m<sup>3</sup>/h 21 CFM
- 50 m<sup>3</sup>/h 30 CFM
- 75 m<sup>3</sup>/h 45 CFM
- 100 m<sup>3</sup>/h 60 CFM
- 125 m<sup>3</sup>/h 75 CFM

PART NO: 3B1008H01

14

DO NOT OPEN BELOW 0°C 32°F

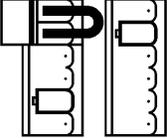
- 150 m<sup>3</sup>/h 90 CFM 55%
- 225 m<sup>3</sup>/h 135 CFM 80%
- 280 m<sup>3</sup>/h 165 CFM 100%

15

**R 404A**

17

**MANUAL CONTROL**



- 1. COOL 1
- 2. COOL 2
- 3. NOT IN USE
- 4. NOT IN USE
- 5. DEFROST
- 6. HEAT

509-1174

13

DATA DOWNLOAD PORT

USDA #1 SPARE 1

USDA #2 SPARE 2

USDA #3 SPARE 3

PULP/ SPARE 5

16

**POWER Saver**



Burns Less Fuel

18



REF	PART#	DESCRIPTION	QTY
1	91-9511	NAMEPLATE - TK	1
2	91-8746	NAMEPLATE - Ingersoll Rand	1
3	91-8665	NAMEPLATE - Smart Reefer	1
4	91-9778	NAMEPLATE - Thermo King	1
5	91-5882	NAMEPLATE - R404A	1
6	91-8694	NAMEPLATE - Warning, Fan Start	1
7	91-8695	NAMEPLATE - Warning, Hot Components	1
8	91-8755	NAMEPLATE - Temperature Conversion	1
9	91-7475	NAMEPLATE - Compressor	1
10	91-9833	NAMEPLATE - Caution	1
11	91-9382	NAMEPLATE - Warning	1
12	91-9383	NAMEPLATE - Main Relay Board	1
13	91-9384	NAMEPLATE - Main Relay Board	1
14	91-8107	NAMEPLATE - Air Exchanger	1
15	91-9441	NAMEPLATE - Air Exchanger	1
16	91-8734	NAMEPLATE - USDA Connections	1
17	91-8154	NAMEPLATE - R404A	1
18	92-259	NAMEPLATE - Power Saver	1

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