

Parts List, Tech Labels & Wiring Diagrams for PAF & APF 7-1/2 TON

Model Numbers: PAF090H00A, PAF090L00A, APF090H00A, APF090L00A

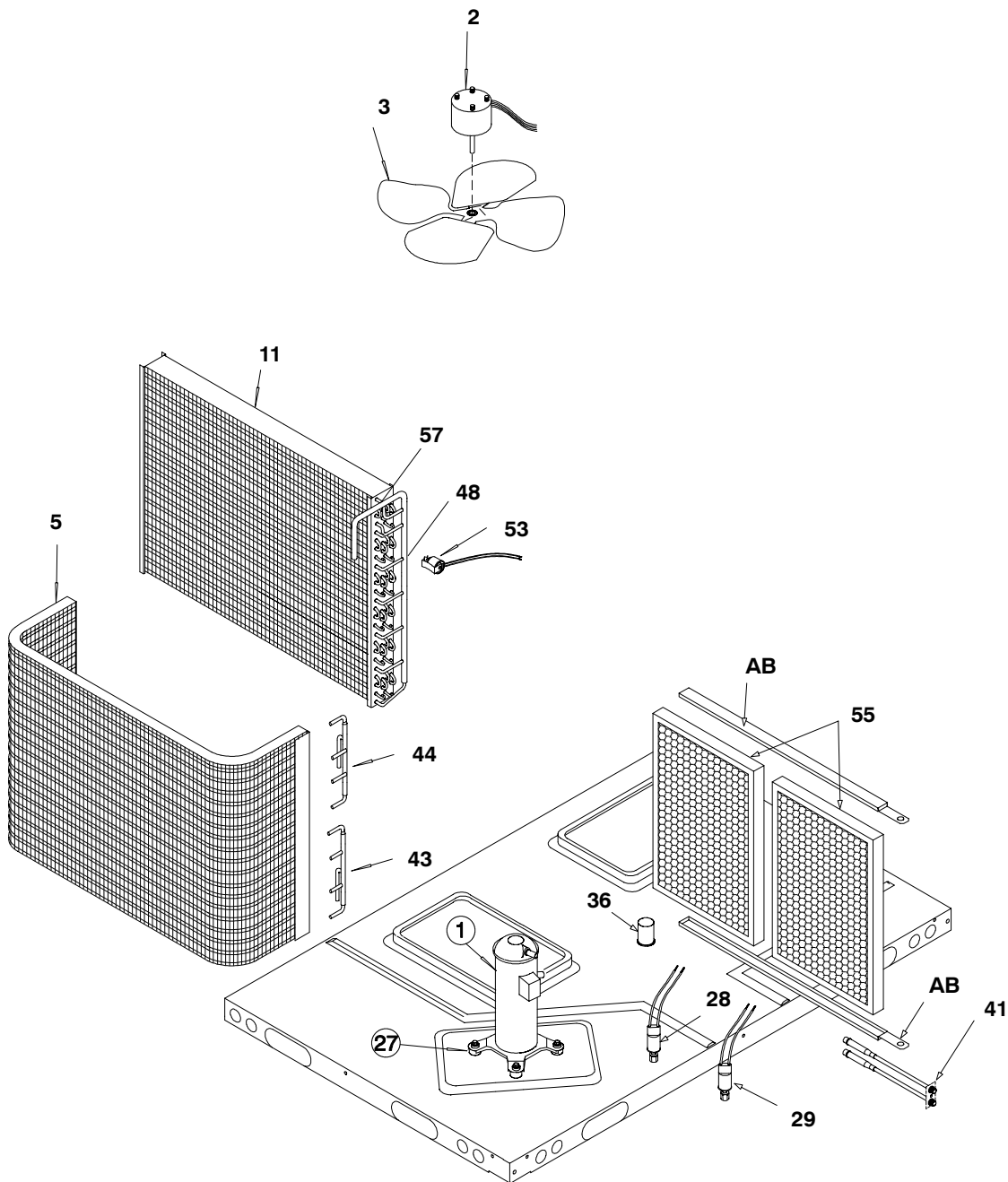
NO.	DESCRIPTION	Part Number	090H00A	090L00A
1	Compressor, ZR94KCTF5	1096587	1	
1	ZR94KCTFD	1096779	*	1
2	Motor, Condenser 1/240V, 3/4Hp	1098501	1	
2	1/460V, 3/4Hp	1098502	*	1
3	Fan Blade	1080792	1	1
5	Coil, Condenser	1084371	1	1
8	Motor, Blower 3/240/460 Volt, 2Hp	1065851	1	
8	3/460 Volt, 2Hp	1054600	*	1
9	Wheel, Blower BD12x12x3/4	1099033	1	1
11	Coil, Evaporator	1099032	1	1
15	Transformer, 230 Volt, 65 VA	1054637	1	
15	460/575 Volt, 65 VA	1054638	*	1
19	Lug, Ground	91590	1	1
20	Strip, Terminal	1066159	1	1
24	Contact, 40 Amp., 3 Pole	1071334	1	1
27	Grommet, Compressor Mounting	1053188	4	4
28	Switch, Low Pressure	1096252	1	1
29	Switch, High Pressure	1096251	1	1
36	Capacitor, 10 Mfd., 440Volt	1094965	1	1
41	Port Asy W/Switches (Test)	1096263	1	1
43	Manifold Condenser (Discharge)	1084382	1	1
44	Manifold Condenser (Liquid)	1084381	1	1
48	Manifold, Evaporator W/Restrictors (Liquid)	1098565	1	1
53	Switch, Temperature	1098701	1	1
55	Filter, Air (20 X 30 X 2)	1054503	2	2
57	Contact, 25 Amp, 2 Pole	1068288	1	1
59	Manifold, Evaporator (Suction)	1098566	1	1

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NO.	DESCRIPTION	Part Number	090H00A	090L00A
A	Grille, Outlet	1072842	1	1
B	Panel, Top	1068157	1	1
C	Orifice, Condenser Fan	1065725	1	1
D	Housing, Blower	1099028	1	1
E	Deck, Blower	1099046	1	1
F	Panel, Access	1068181	1	1
G	Plate, Block Off	1066107	1	1
H	Panel, Division	1065943	1	1
J	Post, Electrical Corner	1068193	1	1
K	Bracket, Lo Vo Terminal Mtg	1066106	1	1
L	Plate, Conduit	1068179	1	1
M	Panel, Electrical Access	1068186	1	1
N	Panel, Pressure Port	1068164	1	1
O	Plate, Pressure Port	1068189	1	1
R	Post, Condenser Corner	1068172	1	1
S1	Rail, Base (End)	1065001	2	2
S2	Rail, Base (Rear)	1054464	1	1
S3	Rail, Base (Front)	1084078	1	1
T	Panel, Base	1054463	1	1
U	Panel, Return Air	1068160	1	1
V	Partition, Return Air	1054471	1	1
X	Pan, Drain	1068366	1	1
Y	Bracket, Evap	1098999	1	1
Z	Panel, Supply Air	1068161	1	1
AA	Cover, Duct	1068158	2	2
CC	Bracket, Supply Air	1054525	1	1
FF	Baffle, Evap Blower	1054522	1	1
JJ	Nut, Cap	1067902	4	4
LL	Plate, Control	1066168	1	1
MM	Bracket, Filter Top	1065618	1	1
NN	Support, Filter Top	1054502	1	1
OO	Panel, Coil Support	1098509	1	1
PP	Panel, Heating Area	1098508	1	1
QQ	Baffle Coil	1082435	1	1
RR	Panel, Drain Outlet	1068162	1	1
SS	Panel, Filter Access	1068175	1	1
UU	Post, Return Air Corner	1068168	1	1
VV	Post, Center	1068163	1	1
XX	Panel, Blower Cutoff	1098556	1	1
ZZ	Handle, Filter Access	1068209	1	1
AB	Retainer, Filter	1054517	2	2
AF	Pulley, Motor	1070664	1	1
AG	Key, Motor Pulley	1065663	1	1
AH	Belt	1054601	1	1
AJ	Pulley, Blower	1098995	1	1
AK	Key, Blower Pulley	1065660	1	1
AL	Bearing / Collar	1054577	2	2
AM	Mount, Bearing Support	1054599	2	2
AN	Screw, Adjusting	1065401	1	1
AO	Base, Motor Support	1054520	1	1
AP	Plate, Motor Slide	1054521	1	1
AQ	U-Clip	1054624	1	1
AR	Shaft, Blower	1099030	1	1
)(	Manual, Parts List	51304100700	1	1
)(	Manual, installation	51301130100	1	1

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FUNCTIONAL PARTS

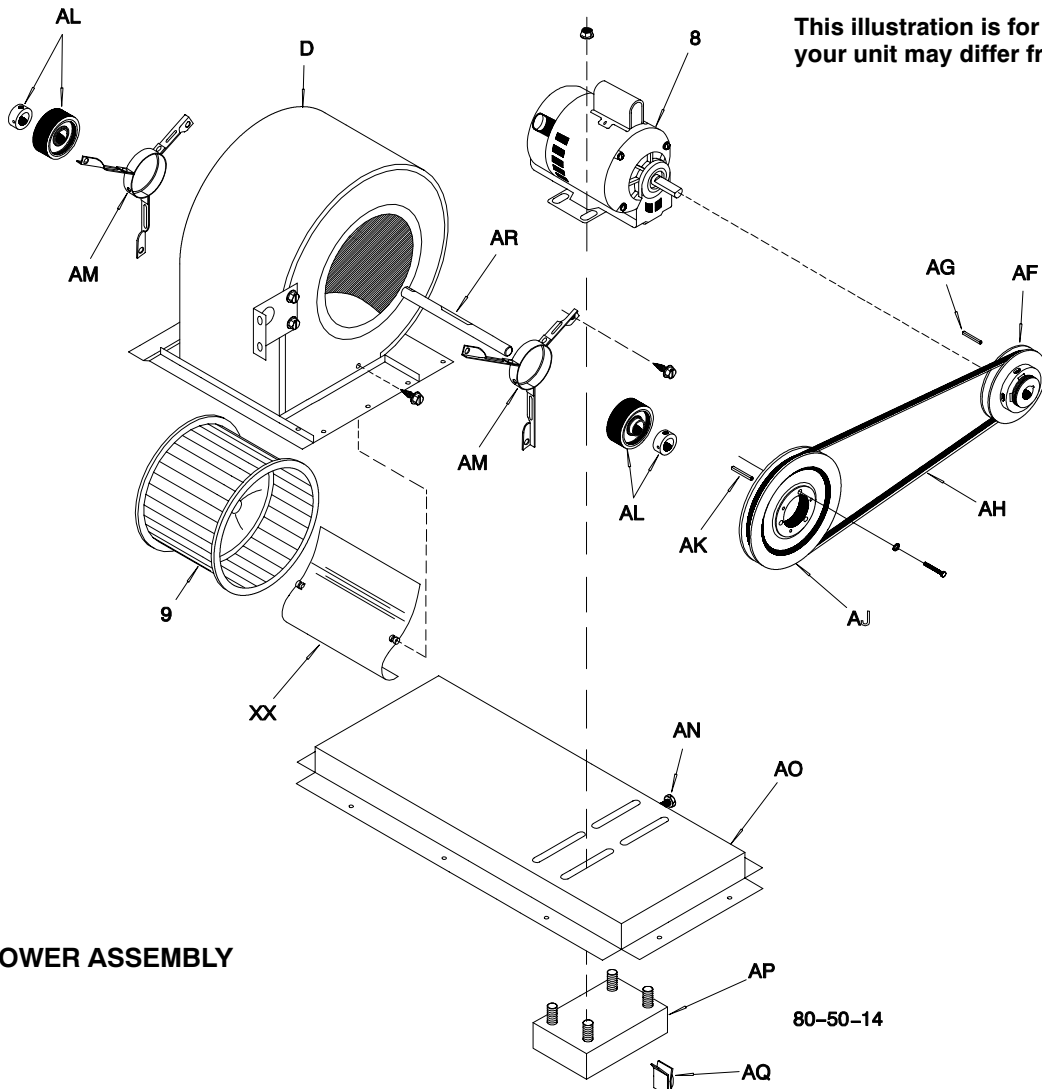
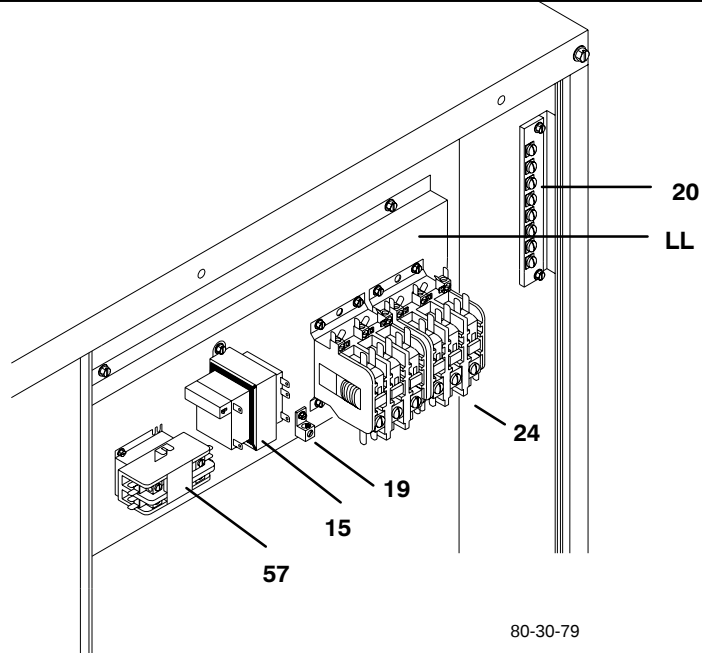


This illustration is for reference only,
your unit may differ from the one shown.

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CONTROL BOX

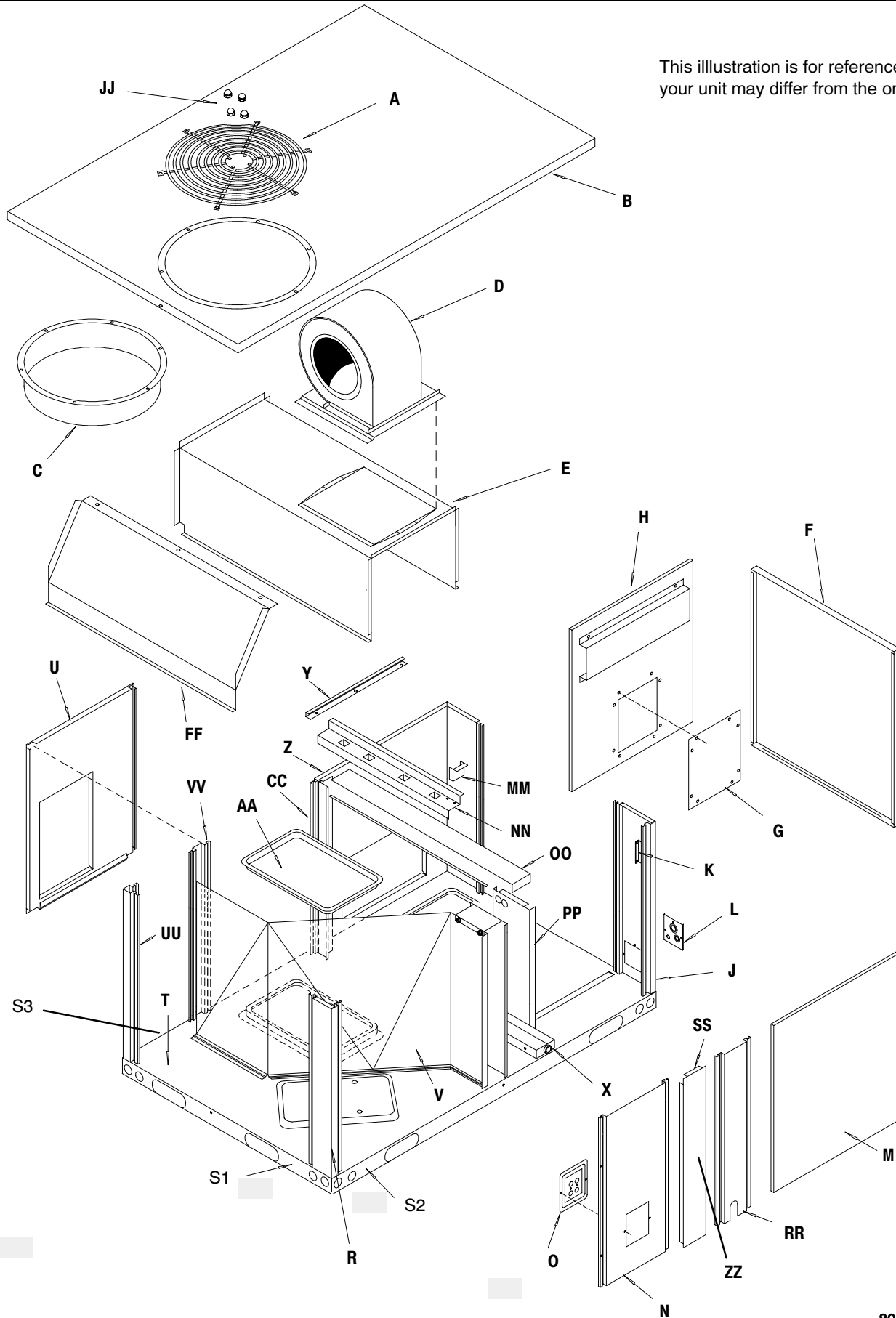


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BLOWER ASSEMBLY

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208/230 VOLT

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460 VOLT

Unit Size 7-1/2 Ton Belt Drive Package Air																										
Voltage/Ph/Hz 460/3/60			Outdoor Ambient Temperature - Degrees F. Dry Bulb 758595105115																							
Ampacity 23.0																										
Max. Fuse 35																										
Compressor			IDB	Entering Indoor Temperature - Degrees F. Wet Bulb																						
				59636771	59636771	59636771	59636771	59636771	59636771	59636771	59636771	59636771	59636771	59636771	59636771	59636771	59636771									
RLA 14.74			70	MBh	84.6	87.6	96.0	-	82.5	85.6	93.7	-	80.5	83.5	91.5	-	76.5	79.3	86.9	-	70.9	73.5	80.5	-		
LRA 95.0				S/T	0.73	0.61	0.43	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-		
Cond & Evap				AMPS	13.9	14.1	14.5	-	14.8	15.1	15.5	-	15.6	15.9	16.4	-	16.4	16.7	17.2	-	17.2	17.6	18.1	-		
				HI PR	195	210	222	-	222	239	252	-	253	272	287	-	284	306	323	-	314	338	357	-		
			LOPR	57	60	66	-	59	63	68	-	62	66	72	-	65	69	75	-	67	71	78	-			
Type Fan			Evap Blower	75	MBh	86.0	88.5	95.8	102.9	83.9	86.4	93.6	100.4	81.9	84.3	91.3	98.0	77.8	80.1	86.7	93.1	72.1	74.2	80.3	86.2	
					S/T	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40	
Size/Pitch 22/28			BD12-12A		AMPS	14.0	14.2	14.6	15.0	14.9	15.2	15.6	16.1	15.7	16.0	16.5	17.0	16.5	16.9	17.3	17.9	17.3	17.7	18.2	18.8	
Motor-Hp .75			2		HI PR	197	212	224	234	224	241	255	266	255	275	290	303	287	309	326	340	317	341	361	376	
FLA 1.5			3.0	LOPR	57	61	67	71	60	63	69	74	63	67	73	77	66	70	76	81	68	72	79	84		
LRA 5.0			24.9	80	MBh	87.5	89.4	95.6	102.1	85.4	87.3	93.3	99.7	83.4	85.2	91.0	97.3	79.2	80.9	86.5	92.4	73.4	75.0	80.1	85.6	
RPM 1140			1400		S/T	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58	
Cap MFD/Volts 10/440			N/A		AMPS	14.1	14.3	14.7	15.1	15.0	15.3	15.7	16.2	15.9	16.2	16.6	17.1	16.7	17.0	17.5	18.0	17.5	17.8	18.3	18.9	
Hi Pressure 420					HI PR	199	214	226	236	226	244	257	268	258	277	293	306	290	312	330	344	320	345	364	380	
Lo Pressure 5				LOPR	58	62	67	72	60	64	70	74	63	67	73	78	66	70	77	82	69	73	80	85		
R-22, oz.				85	MBh	89.1	90.8	95.1	101.4	86.9	88.6	92.8	99.0	84.8	86.5	90.5	96.6	80.6	82.1	86.0	91.8	74.6	76.1	79.7	85.0	
Operating Chg. See Rating Plate			S/T		0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75		
			AMPS		14.2	14.4	14.8	15.3	15.1	15.4	15.8	16.3	16.0	16.3	16.7	17.2	16.8	17.1	17.6	18.2	17.6	18.0	18.5	19.1		
			HI PR		201	216	228	238	229	246	260	271	260	280	296	309	293	315	333	347	324	348	368	384		
				LOPR	58	62	68	72	61	65	71	75	64	68	74	79	67	71	78	83	69	74	80	86		
EXTERNAL STATIC PRESSURE IN INCHES WATER COLUMN																										
Number of Turns	.2			.4			.6			.8			1.0			1.2										
	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM								
0													2996	2246	1345	2654	2077	1355								
1							3095	2107	1295	2885	1992	1297	2571	1825	1300	2473	1775	1305								
2				3041	1890	1240	2802	1772	1242	2578	1649	1245	2241	1487	1253	2091	1403	1255								
3	3127	1850	1180	2812	1667	1190	2599	1564	1192	2333	1436	1195	1978	1281	1196	1873	1188	1200								
4	2993	1590	1126	2752	1492	1133	2478	1376	1136	2228	1228	1140	1895	1096	1142	1754	1043	1145								
5	2826	1355	1075	2574	1232	1080	2339	1161	1082	2097	1056	1085	1750	923	1088	1647	873	1090								
Pulley Turns Open			0	1	2 *	3	4	5																		
RPM with 2 HP																										
STD Pulley			1344	1299	1245	1191	1136	1082																		
* Factory Setting Turns Open																										
1098987 6-29-99																										

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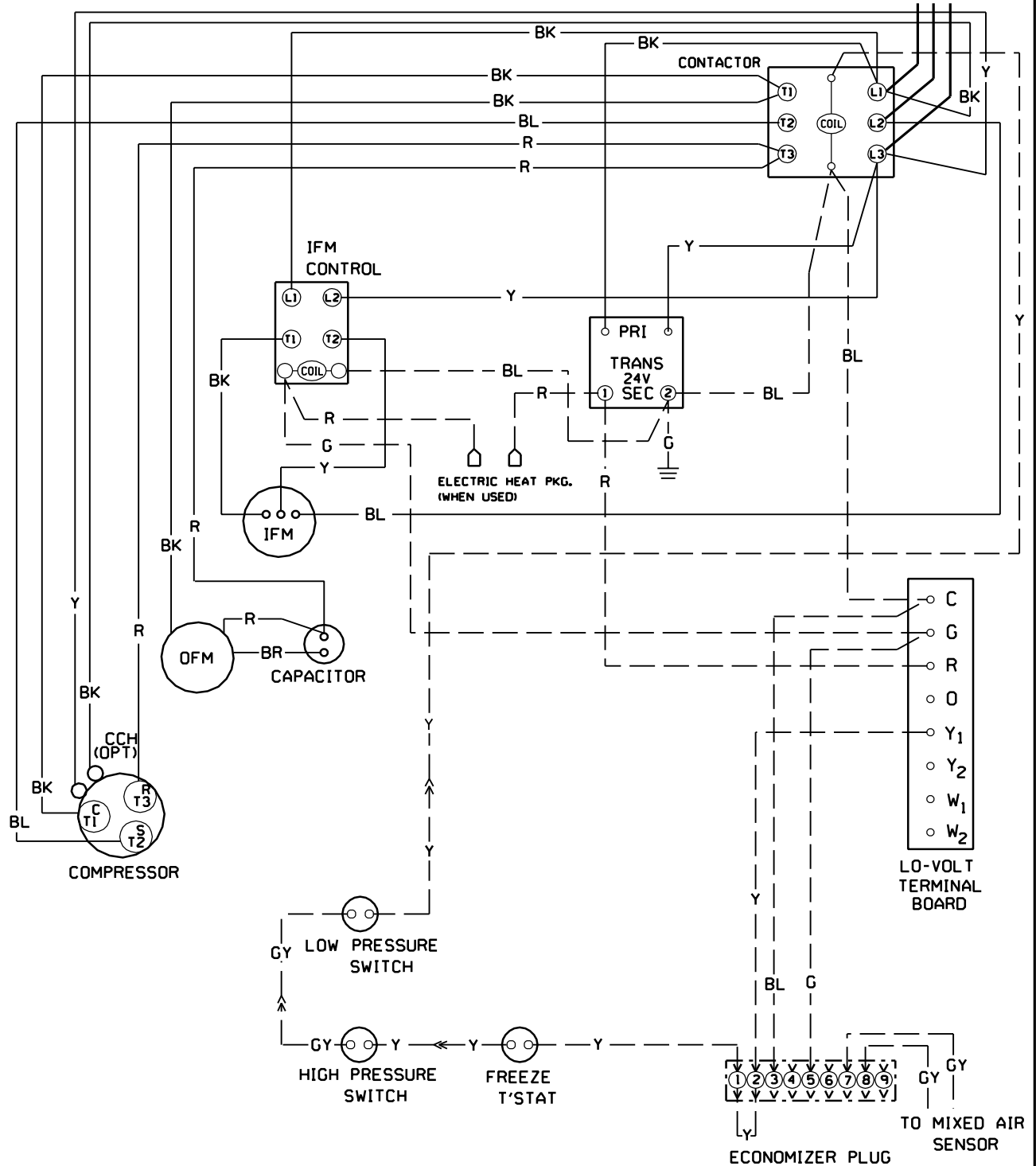
208/230 Volt

CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

USE COPPER CONDUCTORS ONLY

208/230 V 60HZ 3PH



IF ANY OF THE ORIGINAL WIRE SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C OR ITS EQUIVALENT.

— LINE VOLTAGE FACTORY
 — LINE VOLTAGE FIELD
 - - - LOW VOLTAGE FACTORY
 - - - LOW VOLTAGE FIELD

COLOR CODE: BLACK BK GREEN G WHITE W
 BLUE BL ORANGE O YELLOW Y
 BROWN BR RED R
 GRAY GY VIOLET V

LEGEND
 T'STAT.....THERMOSTAT
 OFM.....OUTDOOR FAN MOTOR
 IFM.....INDOOR FAN MOTOR
 TRANS.....TRANSFORMER
 CCH.....CRANKCASE HEATER

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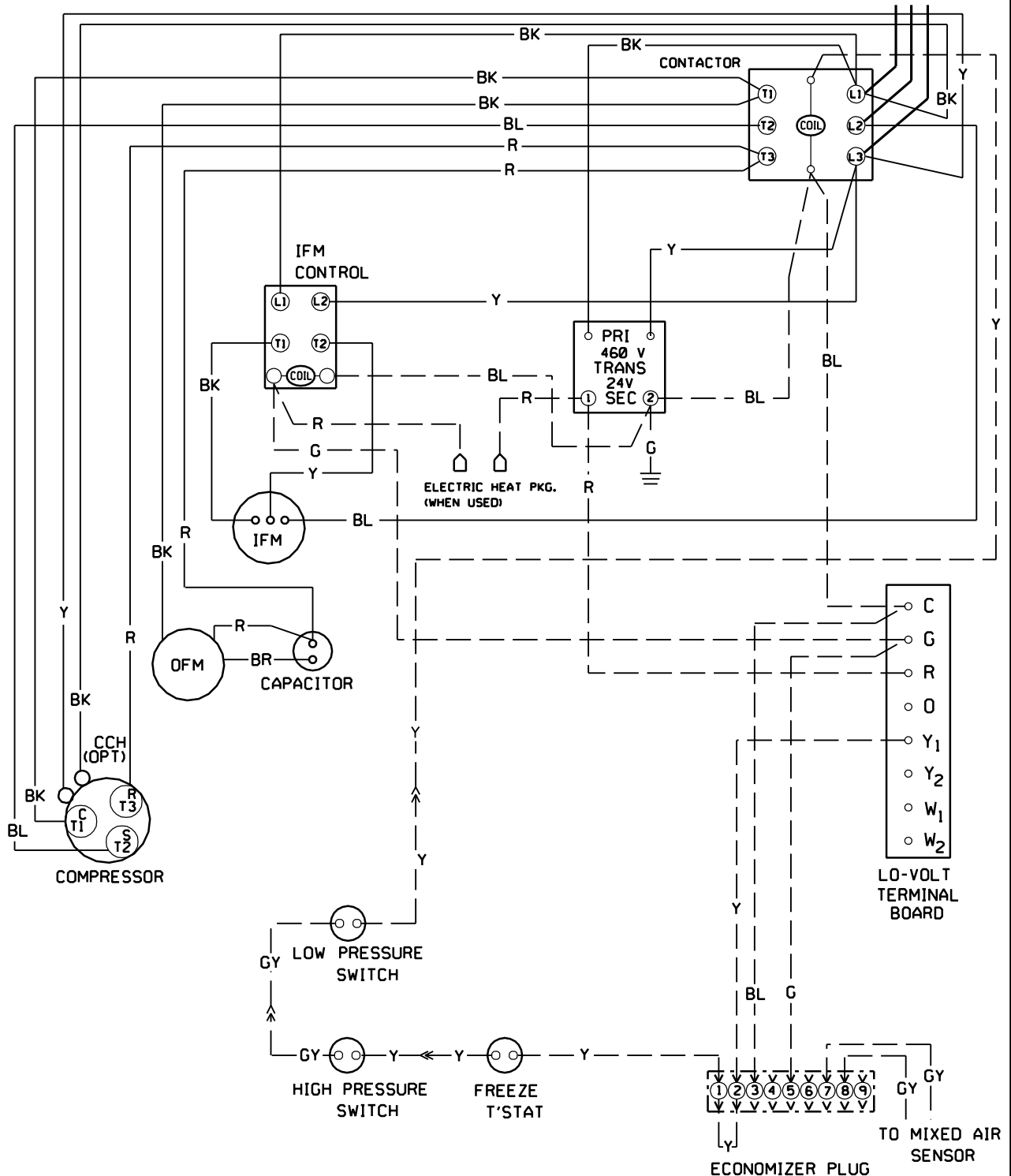
460 Volt

CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

USE COPPER CONDUCTORS ONLY

460 V 60HZ 3PH



IF ANY OF THE ORIGINAL WIRE SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C OR ITS EQUIVALENT.

— LINE VOLTAGE FACTORY
 — LINE VOLTAGE FIELD
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COLOR CODE: BLACK BK GREEN G WHITE W
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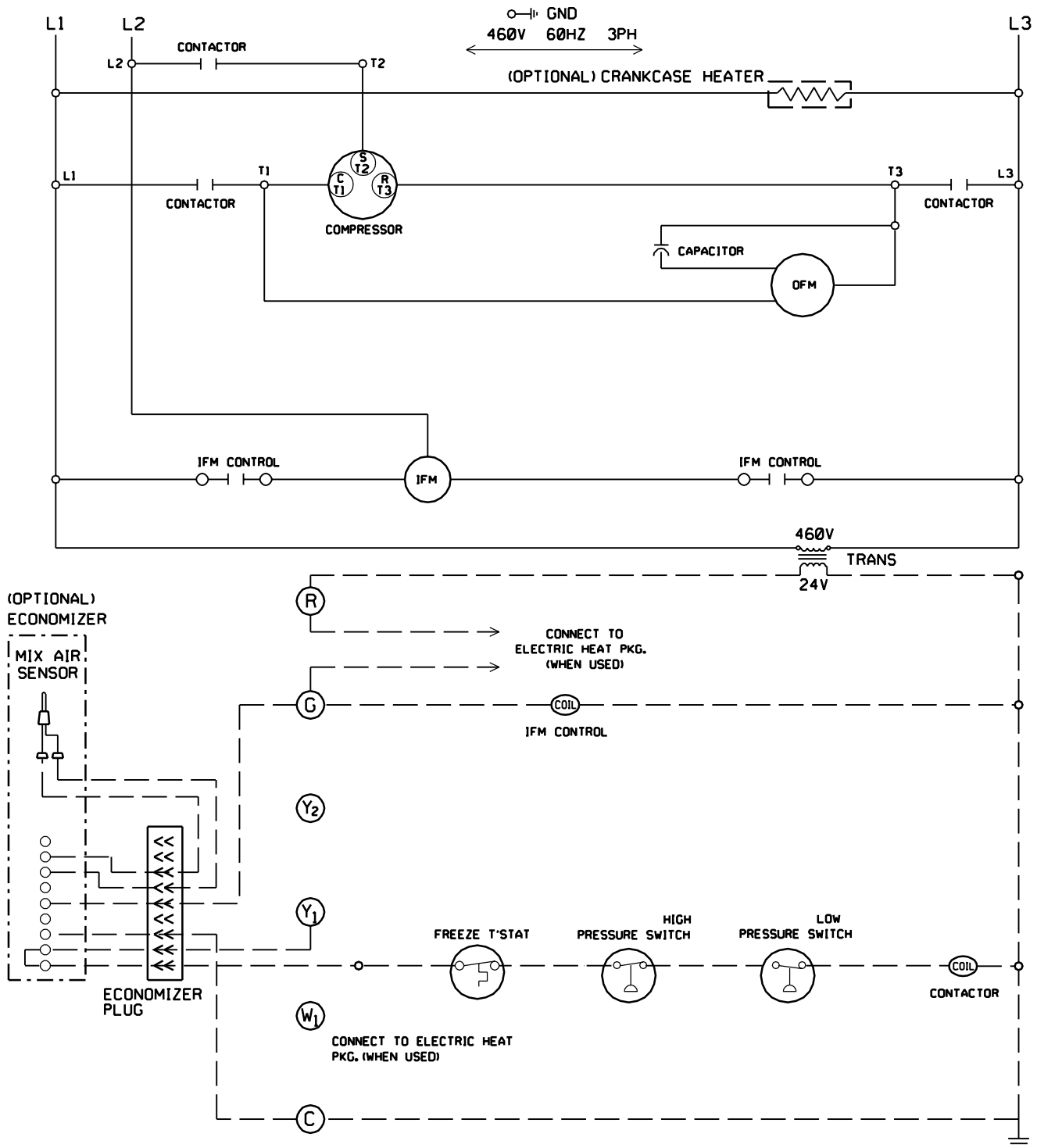
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Parts List, Tech Labels & Wiring Diagrams for PAF & APF 7-1/2 TON

460 Volt

LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING



1099042-A