

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

Model Numbers: PAF090H00AB, PAF090L00AB, PAF090S00AB, APF090H00AB, APF090L00AB, APF090S00AB

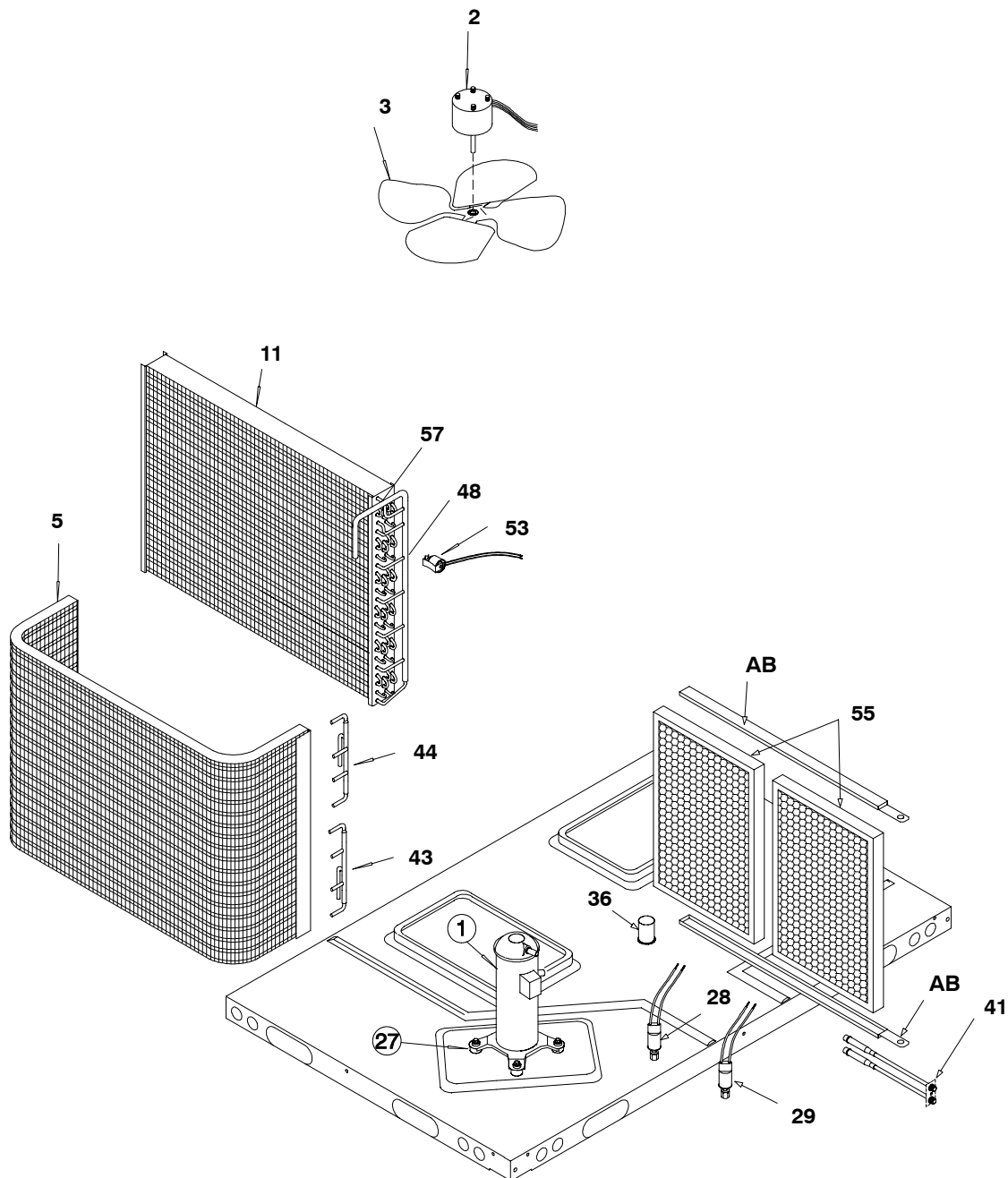
NO	DESCRIPTION	Part Number	090H00AB	090L00AB	090S00AB
1	Compressor, ZR94KCTF5	1096587	1		
1	ZR94KCTFD	1096779	*	1	
1	ZR94KCTFE	1096780	*	*	1
2	Motor, Condenser 1/240V, 3/4Hp	1098501	1		
2	1/460V, 3/4Hp	1098502	*	1	
2	1/575V, 3/4Hp	1098503	*	*	1
3	Fan Blade	1080792	1	1	1
5	Coil, Condenser	1084371	1	1	1
8	Motor, Blower 3/240/460 Volt, 2Hp	1065851	1		
8	3/460 Volt, 2Hp	1054600	*	1	
8	3/575 Volt, 2Hp	1054581	*	*	1
9	Wheel, Blower BD12x12x3/4	1099033	1	1	1
11	Coil, Evaporator	1099032	1	1	1
15	Transformer, 230 Volt, 65 VA	1054637	1		
15	460/575 Volt, 65 VA	1054638	*	1	1
19	Lug, Ground	91590	1	1	1
20	Strip, Terminal	1066159	1	1	1
24	Contactor, 40 Amp., 3 Pole	1071334	1	1	1
27	Grommet, Compressor Mounting	1053188	4	4	4
28	Switch, Low Pressure	1096252	1	1	1
29	Switch, High Pressure	1096251	1	1	1
36	Capacitor, 10 Mfd., 440Volt	1094965	1	1	1
41	Port Asy W/Switches (Test)	1096263	1	1	1
43	Manifold Condenser (Discharge)	1084382	1	1	1
44	Manifold Condenser (Liquid)	1084381	1	1	1
48	Manifold, Evaporator W/Restrictors (Liquid)	1098565	1	1	1
53	Switch, Temperature	1098701	1	1	1
55	Filter, Air (20 X 30 X 2)	1054503	2	2	2
57	Contactor, 25 Amp, 2 Pole	1068288	1	1	1
59	Manifold, Evaporator (Suction)	1098566	1	1	1

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NO.	DESCRIPTION	Part Number	090H00AB	090L00AB	090S00AB
A	Grille, Outlet	1072842	1	1	1
B	Panel, Top	1068157	1	1	1
C	Orifice, Condenser Fan	1065725	1	1	1
D	Housing, Blower	1099028	1	1	1
E	Deck, Blower	1099046	1	1	1
F	Panel, Access	1068181	1	1	1
G	Plate, Block Off	1066107	1	1	1
H	Panel, Division	1065943	1	1	1
J	Post, Electrical Corner	1068193	1	1	1
K	Bracket, Lo Vo Terminal Mtg	1066106	1	1	1
L	Plate, Conduit	1068179	1	1	1
M	Panel, Electrical Access	1068186	1	1	1
N	Panel, Pressure Port	1068164	1	1	1
O	Plate, Pressure Port	1068189	1	1	1
R	Post, Condenser Corner	1068172	1	1	1
S1	Rail, Base (End)	1065001	2	2	2
S2	Rail, Base (Rear)	1054464	1	1	1
S3	Rail, Base (Front)	1084078	1	1	1
T	Panel, Base	1054463	1	1	1
U	Panel, Return Air	1068160	1	1	1
V	Partition, Return Air	1054471	1	1	1
X	Pan, Drain	1068366	1	1	1
Y	Bracket, Evap	1098999	1	1	1
Z	Panel, Supply Air	1068161	1	1	1
AA	Cover, Duct	1068158	2	2	2
CC	Bracket, Supply Air	1054525	1	1	1
FF	Baffle, Evap Blower	1054522	1	1	1
JJ	Nut, Cap	1067902	4	4	4
LL	Plate, Control	1066168	1	1	1
MM	Bracket, Filter Top	1065618	1	1	1
NN	Support, Filter Top	1054502	1	1	1
OO	Panel, Coil Support	1098509	1	1	1
PP	Panel, Heating Area	1098508	1	1	1
QQ	Baffle Coil	1082435	1	1	1
RR	Panel, Drain Outlet	1068162	1	1	1
SS	Panel, Filter Access	1068175	1	1	1
UU	Post, Return Air Corner	1068168	1	1	1
VV	Post, Center	1068163	1	1	1
XX	Panel, Blower Cutoff	1098556	1	1	1
ZZ	Handle, Filter Access	1068209	1	1	1
AB	Retainer, Filter	1054517	2	2	2
AF	Pulley, Motor	1070664	1	1	1
AG	Key, Motor Pulley	1065663	1	1	1
AH	Belt	1054601	1	1	1
AJ	Pulley, Blower	1098995	1	1	1
AK	Key, Blower Pulley	1065660	1	1	1
AL	Bearing / Collar	1054577	2	2	2
AM	Mount, Bearing Support	1054599	2	2	2
AN	Screw, Adjusting	1065401	1	1	1
AO	Base, Motor Support	1054520	1	1	1
AP	Plate, Motor Slide	1054521	1	1	1
AQ	U-Clip	1054624	1	1	1
AR	Shaft, Blower	1099030	1	1	1
)(	Manual, Parts List	51304100700	1	1	1
)(	Manual, installation	51301130100	1	1	1

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FUNCTIONAL PARTS

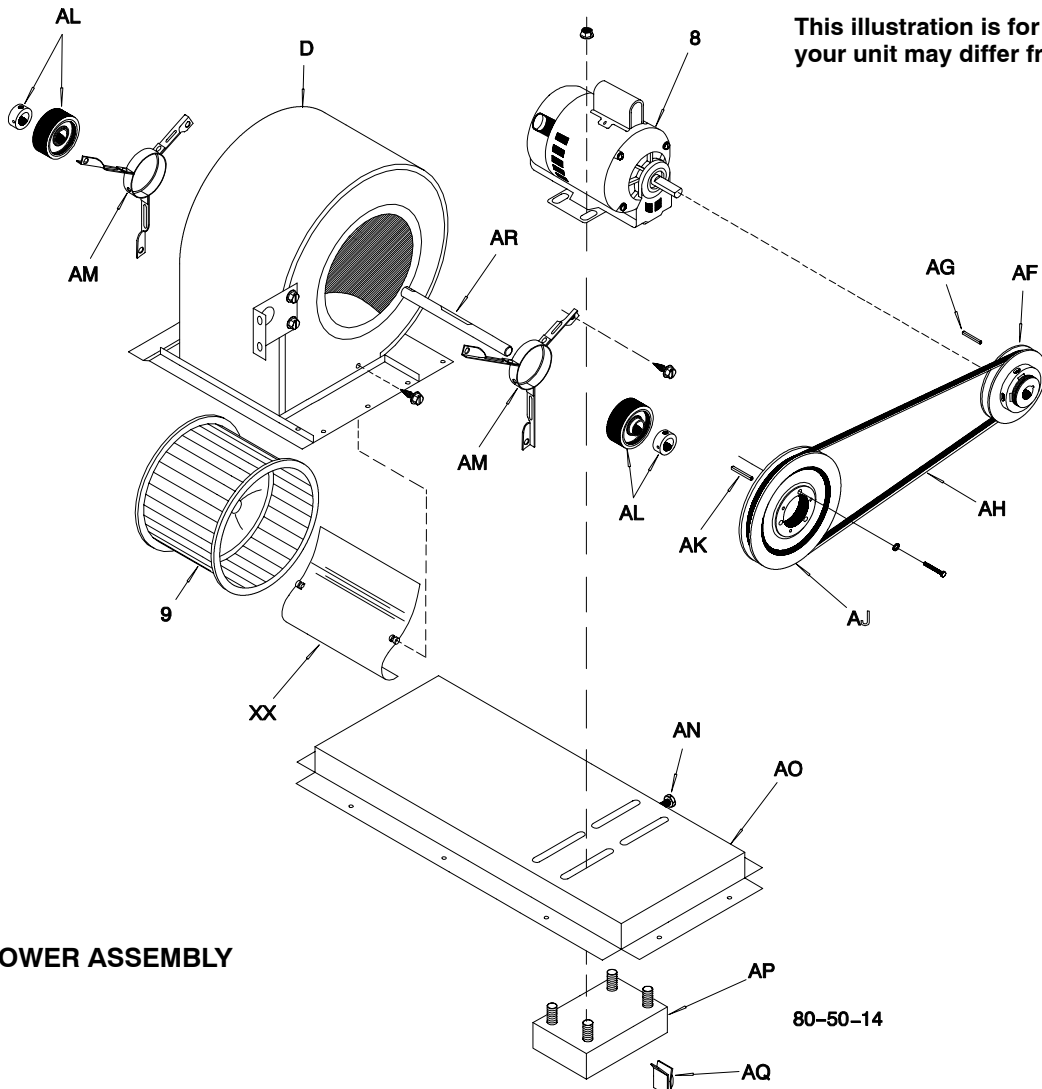
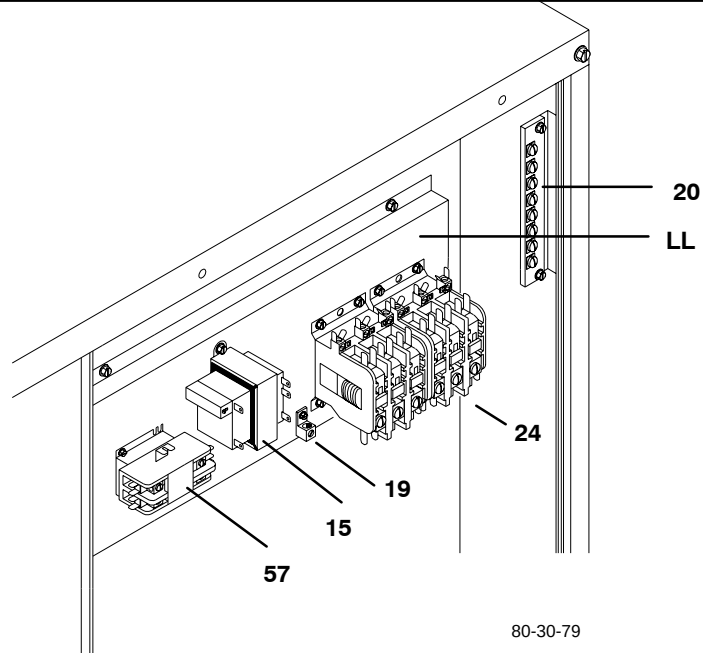


This illustration is for reference only,
your unit may differ from the one shown.

80-30-18

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

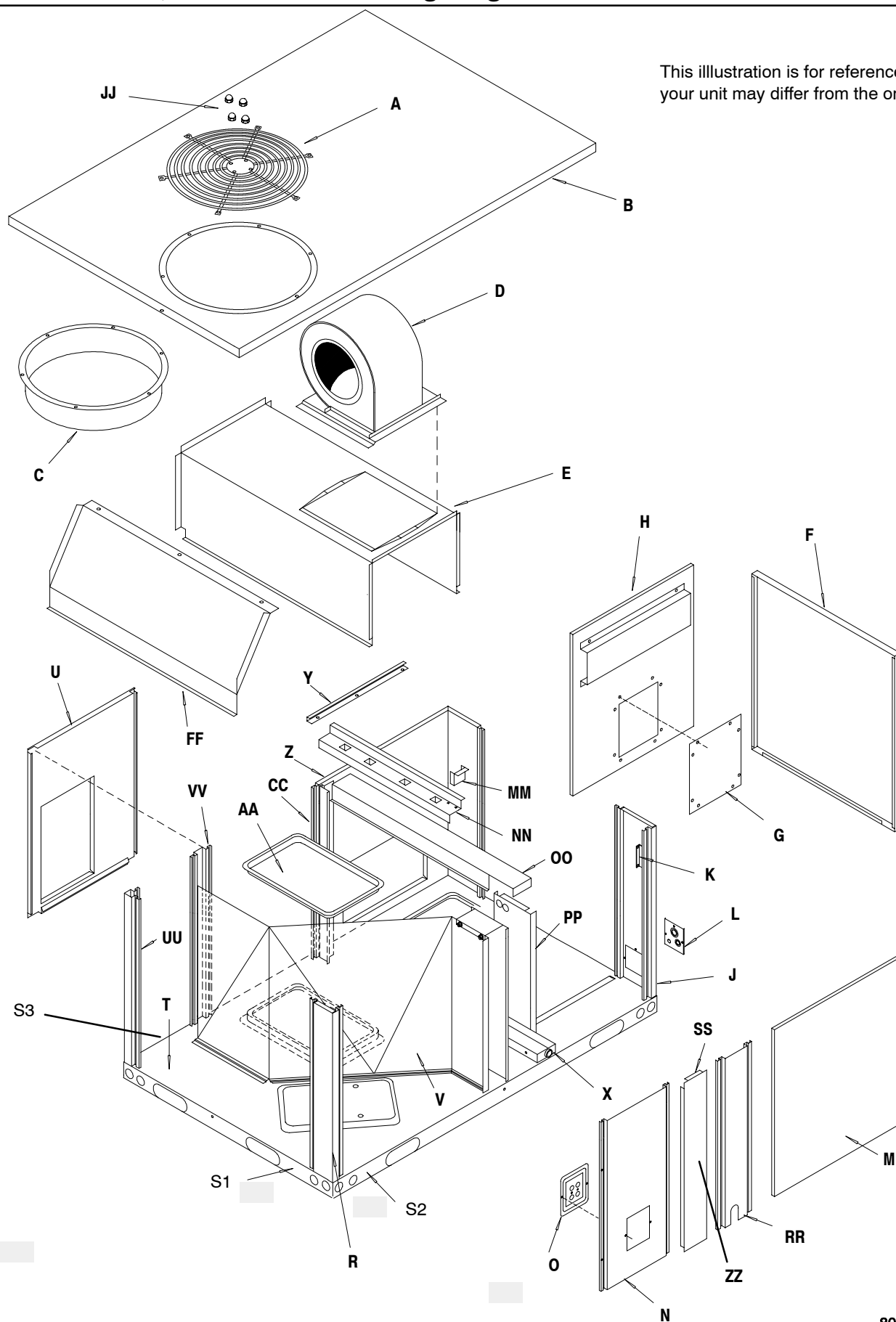
CONTROL BOX



BLOWER ASSEMBLY

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

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80-31-25

208/230 VOLT

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

460 VOLT

Unit Size 7-1/2 Ton Belt Drive Package Air																
Voltage/Ph/Hz 460/3/60			IDB													
Ampacity 23.0																
Max. Fuse 35																
Compressor																
RLA 14.74																
LRA 95.0																
Cond & Evap																
Type																
Fan																
Blower																
Size/Pitch																
22/28																
BD12-12A																
Motor-Hp																
.75																
2																
FLA																
1.5																
3.0																
LRA																
5.0																
24.9																
RPM																
1140																
1400																
Cap MFD/Volts																
10/440																
N/A																
Hi Pressure																
420																
Lo Pressure																
5																
R-22, oz.																
Operating Chg.																
See Rating Plate																
Outdoor Ambient Temperature - Degrees F. Dry Bulb																
75 85 95 105 115																
Entering Indoor Temperature - Degrees F. Wet Bulb																
59 63 67 71 59 63 67 71 59 63 67 71 59 63 67 71 59 63 67 71																
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 -																
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 -																
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 -																
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																
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																
HI PR 197 212 224 234 224 241 255 266 255 275 290 303 287 309 326 340 317 341 361 376																
LOPR 57 61 67 71 60 63 69 74 63 67 73 77 66 70 76 81 68 72 79 84																
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																
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																
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 PR 199 214 226 236 226 244 257 268 258 277 293 306 290 312 330 344 320 345 364 380																
LOPR 58 62 67 72 60 64 70 74 63 67 73 78 66 70 77 82 69 73 80 85																
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																
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																

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

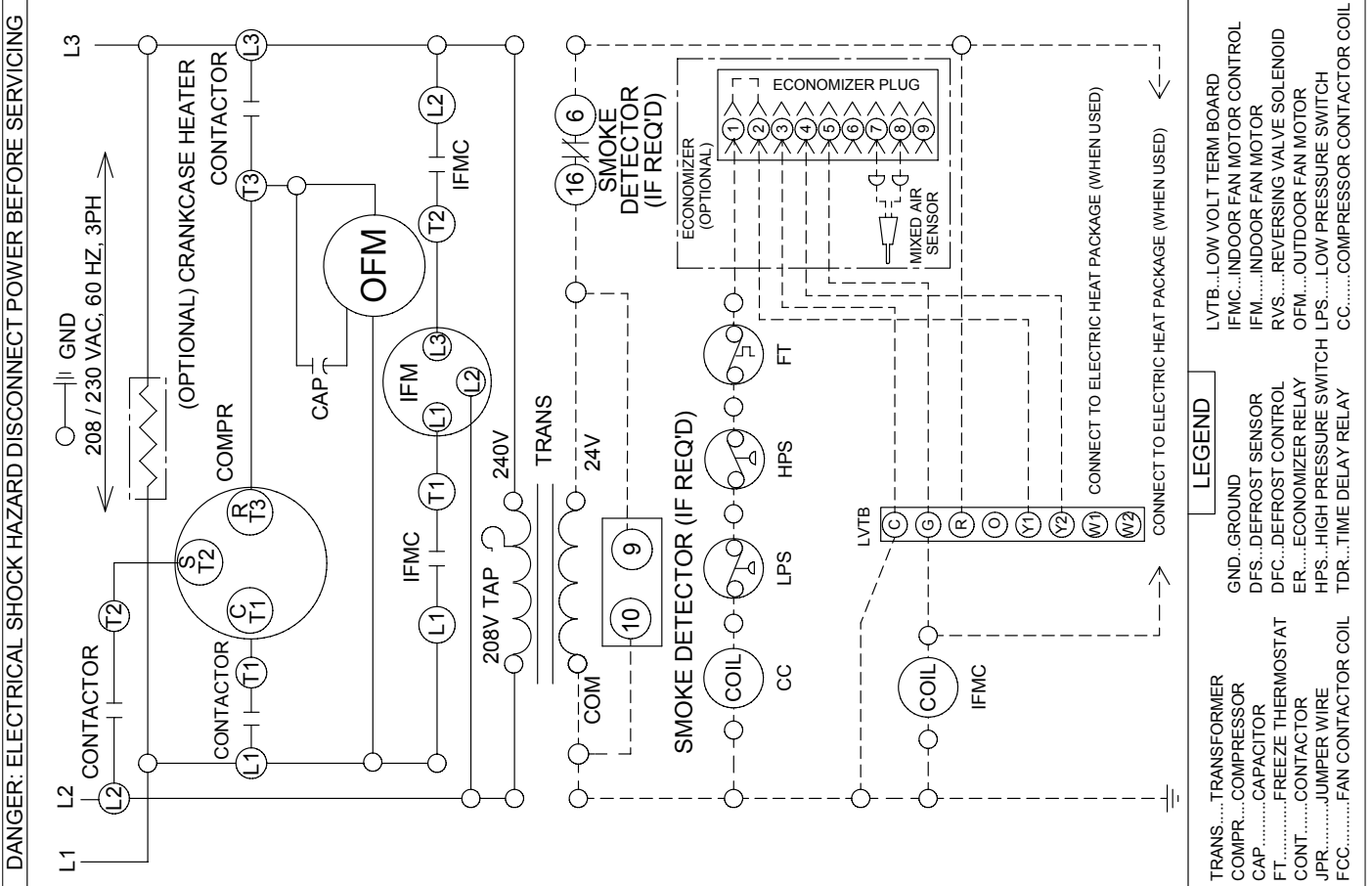
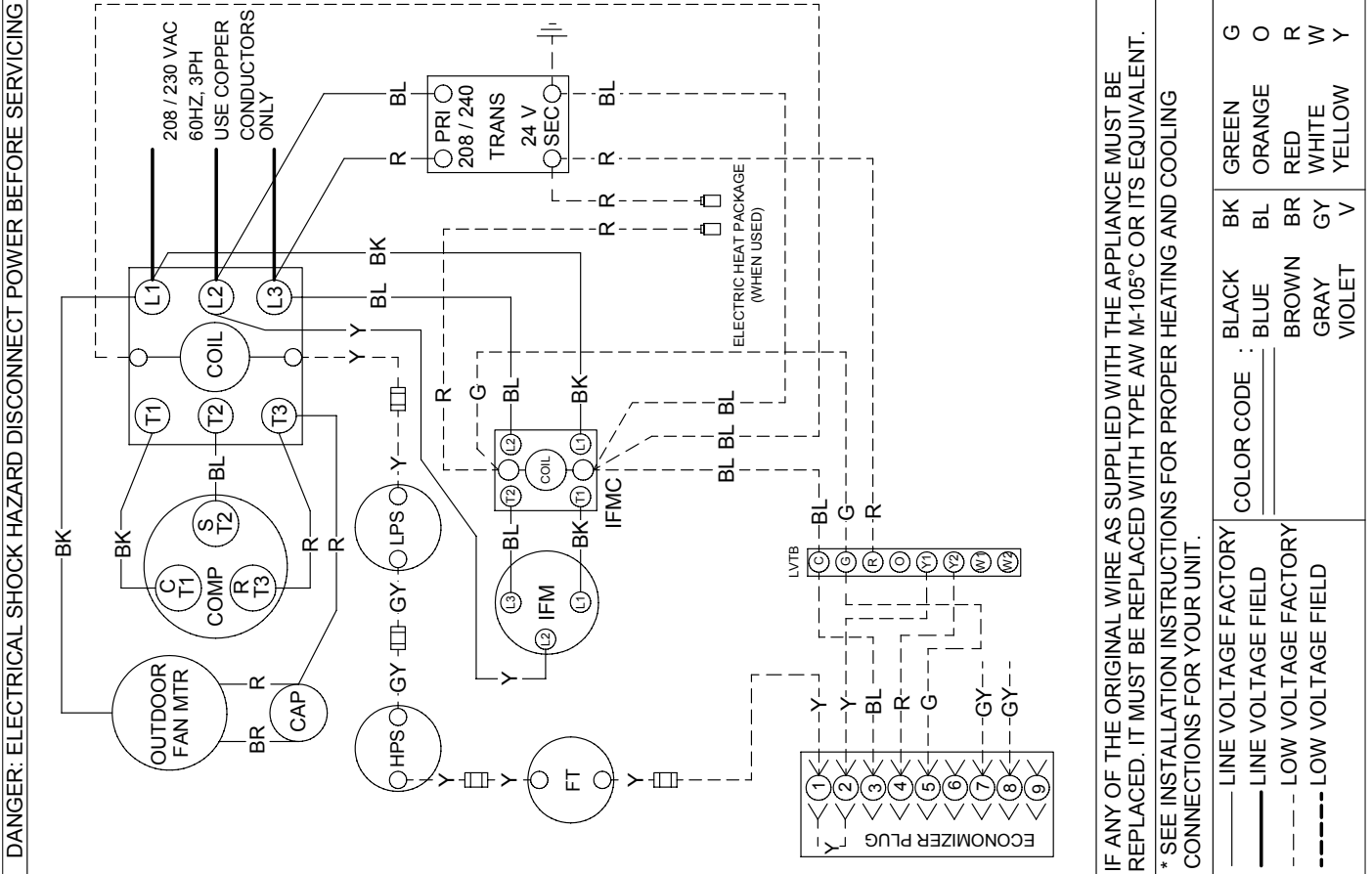
575 VOLT

Unit Size 7-1/2 Ton Belt Drive Package Air																							
Voltage/Ph/Hz 575/3/60			IDB																				
Ampacity 17.2																							
Max. Fuse 25																							
Compressor			75 85 95 105 115																				
RLA 10.77																							
LRA 88.0																							
Cond & Evap			Entering Indoor Temperature - Degrees F. Wet Bulb																				
Type Fan Blower																							
Size/Pitch 22/28 BD12-12A																							
Motor-Hp .75 2			59 63 67 71 59 63 67 71 59 63 67 71 59 63 67 71 59 63 67 71																				
FLA 1.33 2.4																							
LRA 3.9 16.3																							
RPM 1140 1400			70 75 80 85																				
Cap MFD/Volts 10/440 N/A																							
Hi Pressure 420																							
Lo Pressure 5			75 85 95 105 115																				
R-22, oz.																							
Operating Chg. See Rating Plate																							
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																			1113656 9/3/01				

Parts List, Tech Labels & Wiring Diagrams for PAF & APF 7-1/2 TON 208/230 Volt

CONNECTION WIRING DIAGRAM

LADDER WIRING DIAGRAM

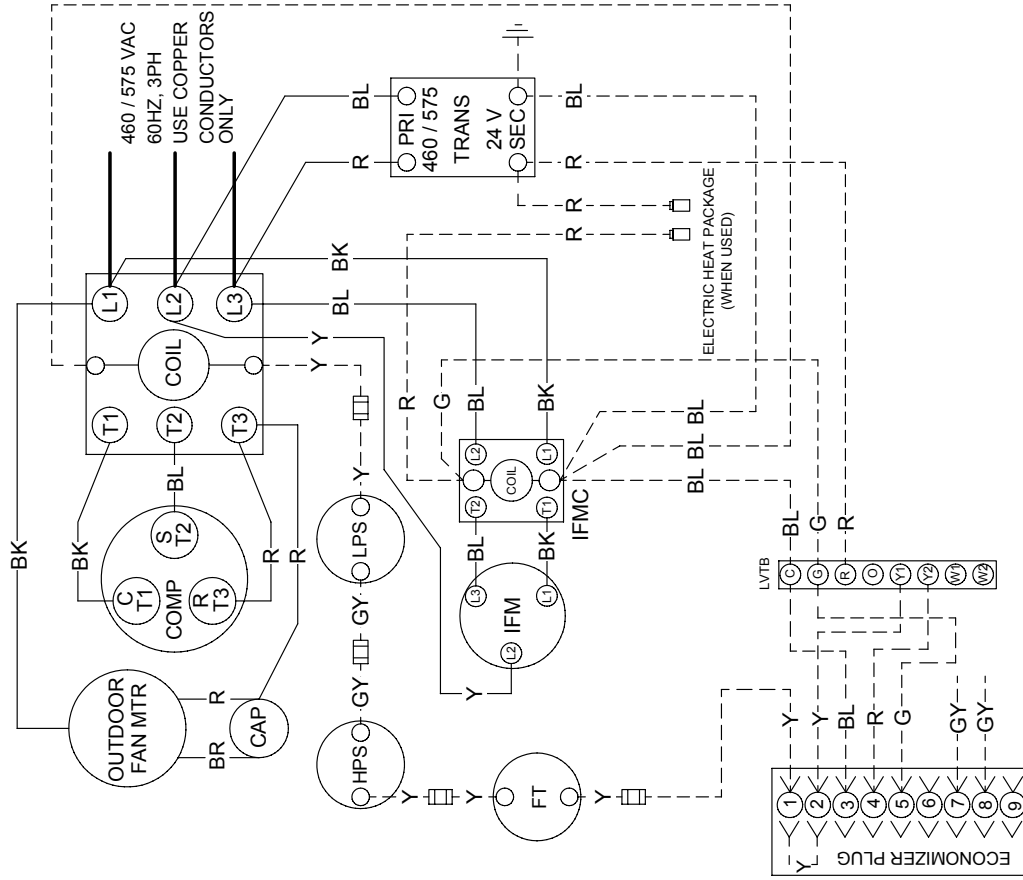


CONNECTION WIRING DIAGRAM

LADDER WIRING DIAGRAM

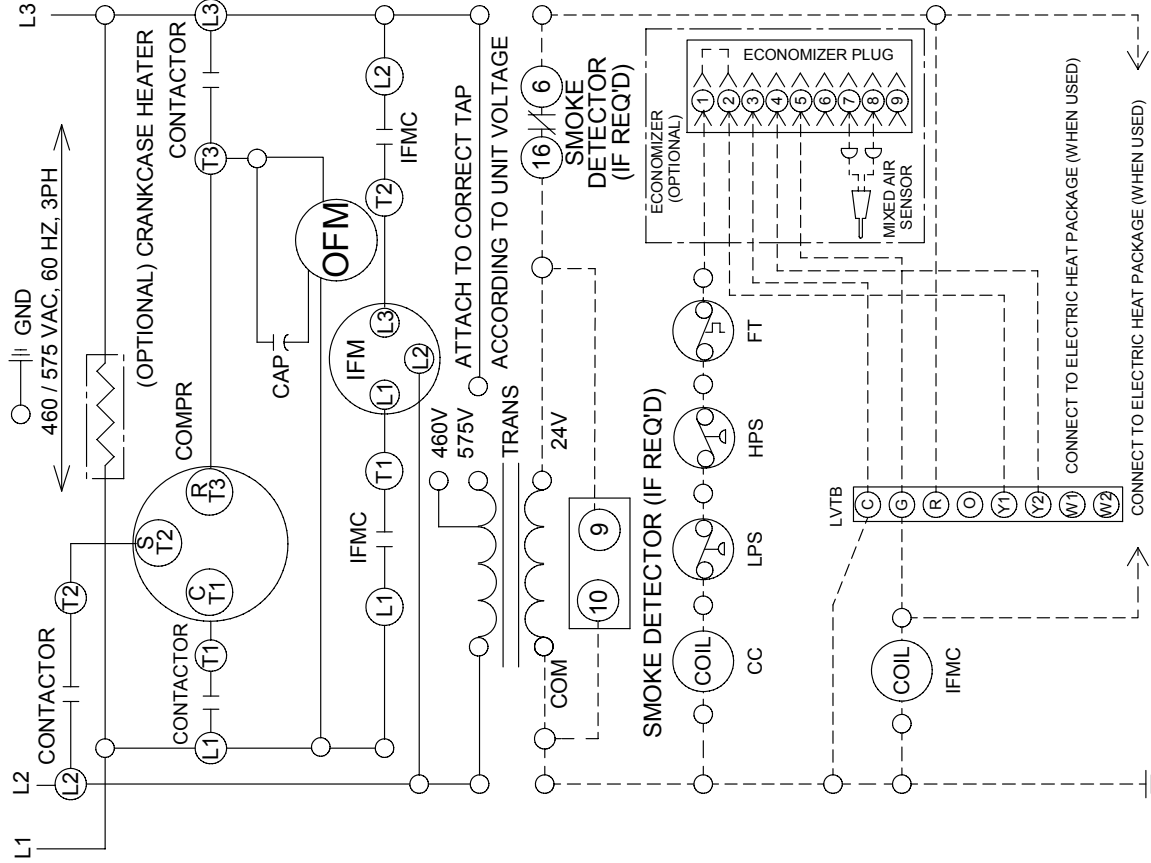
DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING



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

* SEE INSTALLATION INSTRUCTIONS FOR PROPER HEATING AND COOLING CONNECTIONS FOR YOUR UNIT.



TRANSFORMER
COMPRESSOR
CAPACITOR
FREEZE THERMOSTAT
CONTACTOR
JUMPER WIRE
FAN CONTACTOR COIL

GROUND
DFS...DEFROST SENSOR
DFC...DEFROST CONTROL
ER...ECONOMIZER RELAY
HPS...HIGH PRESSURE SWITCH
TDR...TIME DELAY RELAY

LVTB...LOW VOLT TERM BOARD
IFMC...INDOOR FAN MOTOR CONTROL
IFM...INDOOR FAN MOTOR
RVS...REVERSING VALVE SOLENOID
OFM...OUTDOOR FAN MOTOR
LPS...LOW PRESSURE SWITCH
CC...COMPRESSOR CONTACTOR COIL

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