

Parts List

***Tech Labels
Wiring Diagrams***

Models

Three Phase

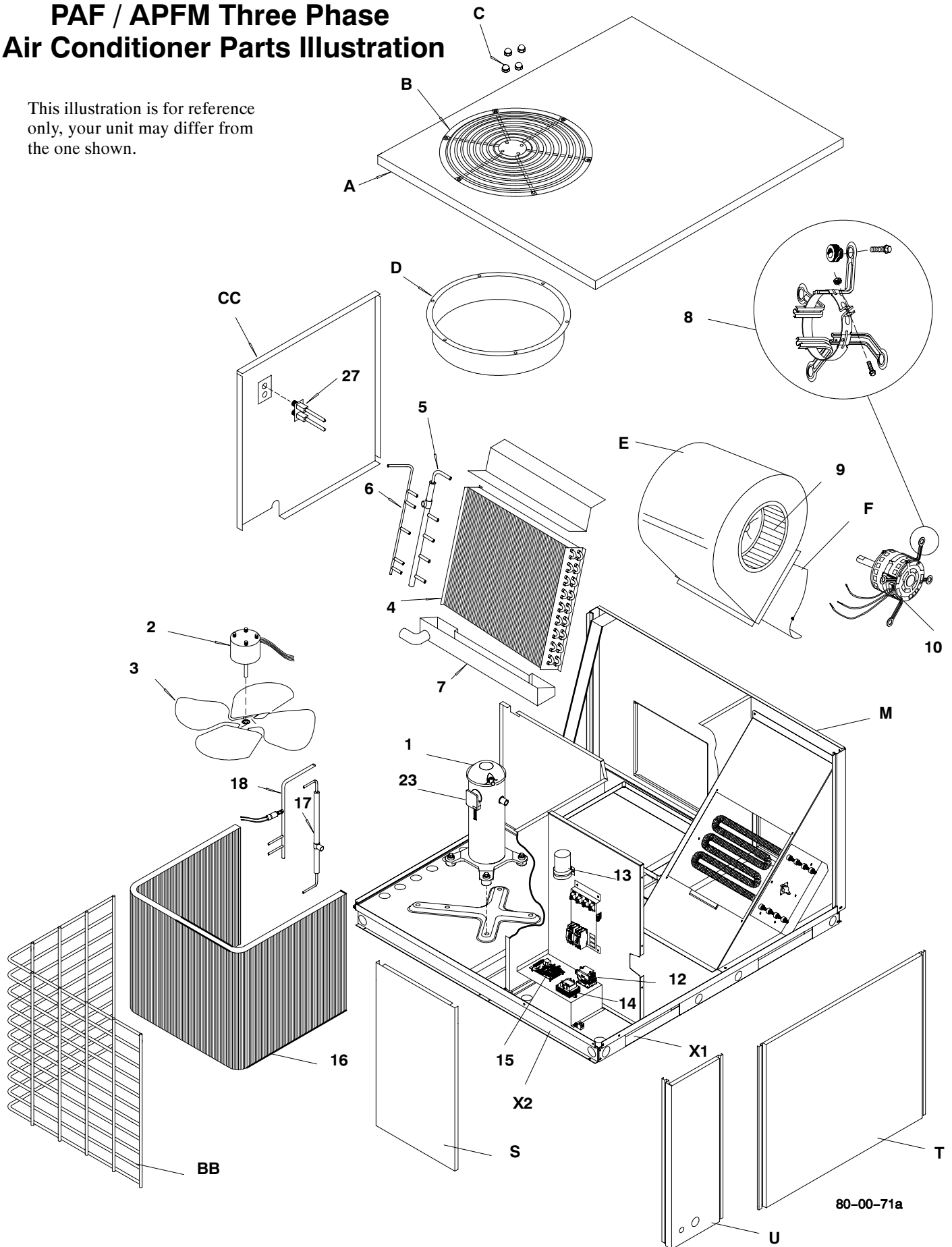
PAF036H000	APFM36H000
PAF036L000	APFM36L000
PAF036S000	APFM36S000
PAF048H000	APFM48H000
PAF048L000	APFM48L000
PAF048S000	APFM48S000
PAF060H000	APFM60H000
PAF060L000	APFM60L000
PAF060S000	APFM60S000

Single Package Air Conditioners

Save This Manual For Future Reference

PAF / APFM Three Phase Air Conditioner Parts Illustration

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



80-00-71a

KEY NO.	DESCRIPTION	PART NUMBER	PAF036H000A APFM36H000	PAF036L000A APFM36L000A	PAF036S000A APFM36S000	PAF048H000A APFM48H000	PAF048L000A APFM48L000A	PAF048S000A APFM48S000	PAF060H000A APFM60H000	PAF060L000A APFM60L000A	PAF060S000A APFM60S000
1	Compressor, Plug connection	CR32K6TF5130	1								
1	Compressor, Plug connection	CR32K6TFD130	*	1							
1	Compressor, Plug connection	CR32K6TFE130	*	*	1						
1	Compressor, Plug connection	CR42K6TF5130	*	*	*	1					
1	Compressor, Plug connection	CR42K6TFD130	*	*	*	*	1				
1	Compressor, Plug connection	CR42K6TFE130	*	*	*	*	*	1			
1	Compressor, Plug connection	ZR57KCTF5130	*	*	*	*	*	*	1		
1	Compressor, Plug connection	ZR57KCTFD130	*	*	*	*	*	*	*	1	
1	Compressor, Plug connection	ZR57KCTFE130	*	*	*	*	*	*	*	*	1
2	Motor, Condenser Fan	1085926	1			1			1		
2		1098088	*	1			1			1	
2		1098085	*	*	1			1			1
3	Fan Blade, Condenser	1096902	1	1	1	1	1	1	1	1	1
4	Coil, Evap. With manifold & feeder assy.	1085426	1	1	1						
4	Coil, Evap. With manifold & feeder assy.	1085428	*	*	*	1	1	1			
4	Coil, Evap. With manifold & feeder assy.	1085556	*	*	*	*	*	*	1	1	1
5	Manifold, Evap, (Suction)	*****	1	1	1						
5	(Included in Evap. Coil Assembly)	*****				1	1	1			
5	(Included in Evap. Coil Assembly)	*****							1	1	1
6	Manifold, Evap, Feeder Tube Assembly	*****	1	1	1						
6	(Included in Evap. Coil Assembly)	*****	*	*	*	1	1	1			
6	(Included in Evap. Coil Assembly)	*****	*	*	*	*	*	*	1	1	1
7	Pan, Drain	1098037	1	1	1	1	1	1	1	1	1
8	Mount, Blower Motor Kit	1004905	1	1	1						
8		1002804	*	*	*	1	1	1	1	1	1
9	Wheel, Blower 10-8DD	600587	1								
9	10-8DD	1098071	*	1	1						
9	11-11DD	1097529	*	*	*	1					
9	11-11DD	1054593	*	*	*	*	1	1	1	1	1
10	Motor, Blower	1083044	1								
10		1085643	*	1							
10		1097627	*	*	1						
10		1083046	*	*	*	1					
10		1085645	*	*	*	*	1			1	
10		1097628	*	*	*	*	*	1			1
10		1054586	*	*	*	*	*	*	1		
11	Capacitor, 10Mfd 370Volt	1094956	1								
11	15Mfd 370Volt	1094959	*	1	1	1					
11	20Mfd 370Volt	1094961	*	*	*	*	1	1		1	1
11	20Mfd 440Volt	1094968	*	*	*	*	*	*	1		
12	Contact, 30Amp 3 Pole	607339	1	1	1	1	1	1	1	1	1
13	Capacitor, 5Mfd 370Volt	1094954	1	1	1	1	1	1	1	1	1
14	Transformer, 230V Pri, 24V Sec, 65VA	1054637	1			1			1		
14	460/575V Pri, 24V Sec, 65VA	1054638	*	1	1		1	1		1	1
15	Control, Board	1085914	1	1	1	1	1	1	1	1	1
16	Coil, Condenser (Includes Manifolds)	1085550	1	1	1						
16		1085553	*	*	*	1	1	1			
16		1085552	*	*	*	*	*	*	1	1	1
17	Manifold Condenser (Liquid)	*****	*	*	*	1	1	1			
17	(Included in Cond. Coil Assembly)	*****	*	*	*	*	*	*	1	1	1
18	Manifold Condenser (Discharge)	*****	1	1	1						
18	(Included in Cond. Coil Assembly)	*****	*	*	*	1	1	1	1	1	1
23	Plug, Compressor	1097674	1	1	1						
23		1096953	*	*	*	1	1	1			
23		1097526	*	*	*	*	*	*	1	1	1
27	Port Assembly	1098058	1	1	1	1	1	1	1	1	1
28	Filter, Air 14X25X1	1098022	*	*	*	2	2	2	2	2	2
28	Filter, Air 12X25X1	1098579	2	2	2						
29	Relay, SPDT	92840	*	1	1		1	1		1	1

KEY NO.	DESCRIPTION	PART NUMBER	PAF036H000A APFM36H000	PAF036L000A APFM36L000A	PAF036S000A APFM36S000	PAF048H000A APFM48H000	PAF048L000A APFM48L000A	PAF048S000A APFM48S000	PAF060H000A APFM60H000	PAF060L000A APFM60L000A	PAF060S000A APFM60S000
A	Panel, Top	1084120	1	1	1	1	1	1	1	1	1
B	Grille, Outlet	1084490	1	1	1	1	1	1	1	1	1
BB	Grille, Inlet	1084255	1	1	1						
BB		1084268	*	*	*	1	1	1	1	1	1
C	Nut, Cap	1067902	4	4	4	4	4	4	4	4	4
CC	Panel, Access Compressor	1098763	1	1	1						
CC		1098764	*	*	*	1	1	1	1	1	1
D	Orifice, Condenser fan	1065724	1	1	1	1	1	1	1	1	1
E	Housing, Blower	1099240	1	1	1						
E		1099241	*	*	*	1	1	1	1	1	1
F	Panel, Blower Cutoff	95143	1	1	1						
F		1065073	*	*	*	1	1	1	1	1	1
M	Panel, Rear	1084104	1	1	1						
M		1084140	*	*	*	1	1	1	1	1	1
S	Panel, Access Heating	1084134	1	1	1						
S		1097977	*	*	*	1	1	1	1	1	1
T	Panel, Access Blower	1098767	1	1	1						
T		1098768	*	*	*	1	1	1	1	1	1
U	Post, Corner	1098761	1	1	1						
U		1098762	*	*	*	1	1	1	1	1	1
X1	Rail, Base (Front & Rear)	1098868	2	2	2	2	2	2	2	2	2
X3	Rail, Base (End)	1098870	2	2	2	2	2	2	2	2	2
)	Plug, No Heat	1098026	1	1	1	1	1	1	1	1	1
)	Duct Cover	1096918	2	2	2	2	2	2	2	2	2
)	Manual, Parts List	51304160200	1	1	1	1	1	1	1	1	1
)	Manual, Installation	51301110100	1	1	1	1	1	1	1	1	1

Unit Size			PAF036H / APFM36H															
Voltage			208/230/3/60															
Ampacity			19.7															
Max. Fuse			30															
Compressor																		
RLA			11.8															
LRA			85															
CAP MFD/V			N/A															
CC HEATER			N/A															
Cond & Evap																		
Type			Cond Fan Blower															
Size			20.3 10-8A															
Motor-Hp			1/3 1/3															
FLA			1.9 3.1															
LRA			n/a n/a															
RPM			1150 1100															
Cap MFD/Volts			5/370 10/370															
Hi Pressure			N/A															
Lo Pressure			N/A															
Low Ambient			N/A															
Low Charge Sw			N/A															
R-22, oz.																		
Operating Chg.																		
See Rating Plate																		
Service Driers																		
Liquid/Chg			Field															
Suction			Field															
Unit Weight			360															

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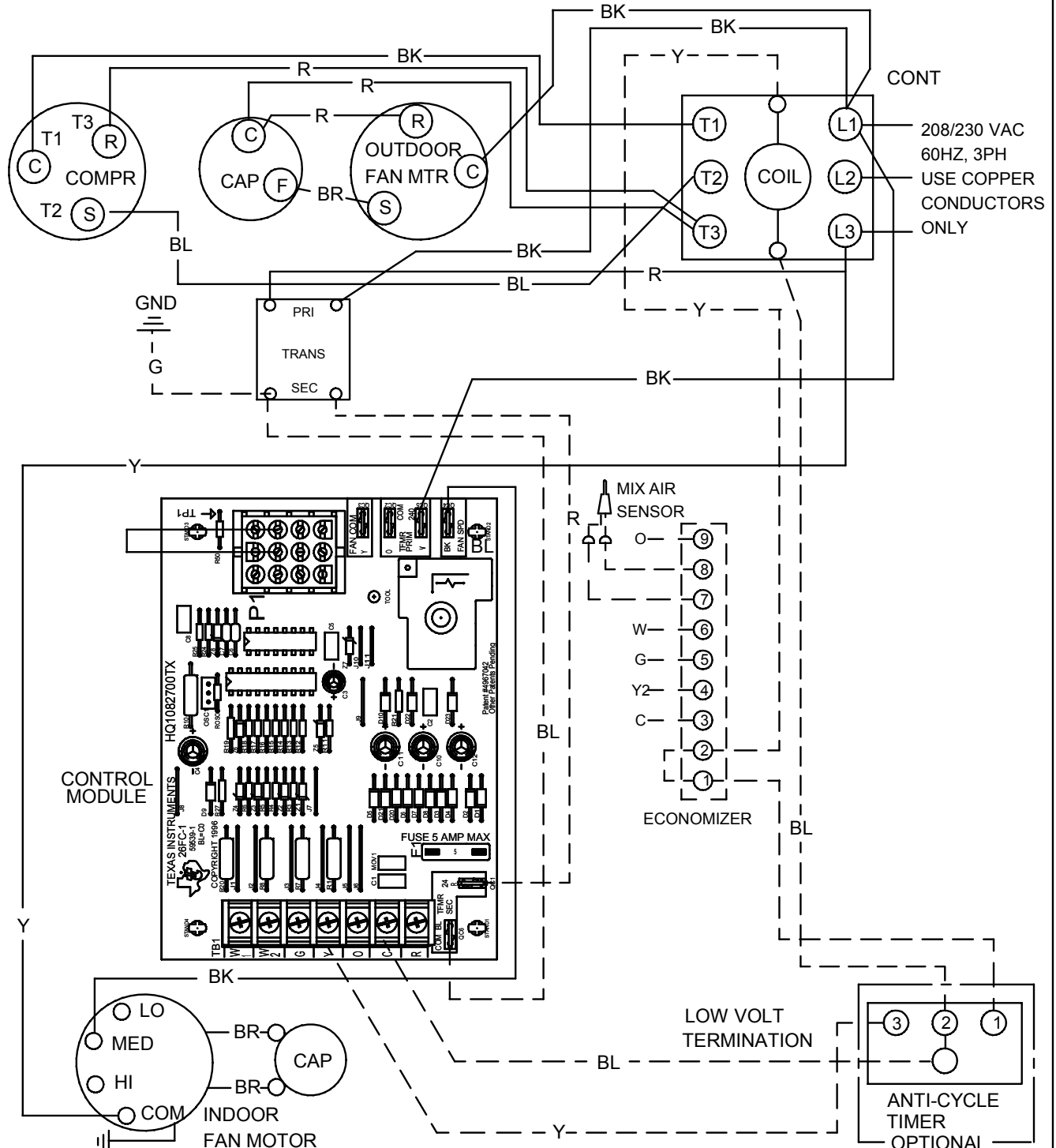
Unit Size			PAF048H / APFM48H																											
Voltage			208/230/3/60		Cooling IDB		Outdoor Ambient Temperature - Degrees F. Dry Bulb																							
Ampacity			24.7				75				85				95				105				115							
Max. Fuse			35		70		Entering Indoor Temperature - Degrees F. Wet Bulb																							
Compressor																														
RLA			13.4		70		MBh		42.4	43.9	48.1	-	41.4	42.9	47.0	-	40.4	41.8	45.8	-	38.3	39.7	43.5	-	35.5	36.8	40.3	-		
LRA			91				S/T		0.78	0.66	0.45	-	0.80	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-		
CAP MFD/V			N/A				AMPS		19.2	19.6	20.1	-	20.5	20.9	21.5	-	21.7	22.1	22.7	-	22.8	23.3	24.0	-	24.0	24.5	25.2	-		
CC HEATER			N/A				HI PR		184	198	210	-	210	226	238	-	239	257	271	-	269	289	305	-	297	320	337	-		
Cond & Evap			Cond		75		LOPR		66	71	77	-	69	73	80	-	73	77	84	-	76	81	88	-	79	84	91	-		
Type		Fan	Blower	MBh			43.1	44.4	48.0	51.5	42.1	43.3	46.9	50.3	41.0	42.3	45.7	49.1	39.0	40.1	43.4	46.6	36.1	37.2	40.2	43.2				
Size		20.3	11-11A	S/T			0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43				
Motor -Hp		1/3	3/4	AMPS			19.3	19.7	20.2	20.9	20.7	21.1	21.7	22.4	21.9	22.3	22.9	23.6	23.0	23.5	24.2	24.9	24.2	24.7	25.4	26.2				
FLA			1.9		6.0		HI PR		186	200	212	221	212	228	241	251	241	260	274	286	271	292	309	322	300	323	341	356		
LRA			n/a		n/a		LOPR		67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98		
RPM			1150		1100		80		MBh		43.9	44.8	47.9	51.2	42.8	43.7	46.7	50.0	41.8	42.7	45.5	48.7	39.7	40.5	43.3	46.3	36.8	37.6	40.1	42.9
Cap MFD/Volts			5/370		15/370				S/T		0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
Hi Pressure			N/A						AMPS		19.5	19.9	20.4	21.0	20.8	21.3	21.8	22.5	22.0	22.5	23.1	23.8	23.2	23.7	24.4	25.1	24.4	24.9	25.6	26.4
Lo Pressure			N/A						HI PR		188	203	214	223	214	230	243	254	244	262	277	289	274	295	312	325	303	326	344	359
Low Ambient			N/A				LOPR		68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99		
Low Charge Sw			N/A				85		MBh		44.6	45.5	47.6	50.8	43.6	44.4	46.5	49.6	42.5	43.3	45.4	48.4	40.4	41.2	43.1	46.0	37.4	38.1	39.9	42.6
R-22, oz.									S/T		1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
Operating Chg.									AMPS		19.6	20.0	20.5	21.2	21.0	21.4	22.0	22.7	22.2	22.6	23.3	24.0	23.4	23.9	24.5	25.3	24.6	25.1	25.8	26.6
See Rating Plate									HI PR		190	205	216	225	216	233	246	256	246	265	280	292	277	298	315	328	306	329	348	363
Service Driers							LOPR		69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100		
Liquid/Chg			Field				Air Delivery in CFM - Dry Coil (Add .08 static W/Internal Filters - Subtract 25 CFM for Wet Coil)																							
Suction			Field																											
Unit Weight			490				230 Volt		External Static Pressure (Inch Water Column))																					
							Motor Speed		0.10	0.20	0.30	0.40	0.50	0.60																
							Hi		2147	2065	1993	1929	1860	1787																
							MD HI		2075	2020	1966	1901	1832	1757																
							MD LO		1997	1940	1875	1815	1746	1677																
							LO		1914	1853	1807	1747	1683	1616																
																				1098539			11-25-98							

Unit Size		PAF048L / APFM48L																						
Voltage	460/3/60		Cooling IDB	75	Outdoor Ambient Temperature - Degrees F. Dry Bulb																			
Ampacity	10.4				70	Entering Indoor Temperature - Degrees F. Wet Bulb																		
Max. Fuse	15					115																		
Compressor			70	MBh	42.4	43.9	48.1	-	41.4	42.9	47.0	-	40.4	41.8	45.8	-	38.3	39.7	43.5	-	35.5	36.8	40.3	-
RLA	6.1	S/T		0.78	0.66	0.45	-	0.80	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-	
LRA	42	AMPS		19.2	19.6	20.1	-	20.5	20.9	21.5	-	21.7	22.1	22.7	-	22.8	23.3	24.0	-	24.0	24.5	25.2	-	
CAP MFD/V	N/A	HI PR		184	198	210	-	210	226	238	-	239	257	271	-	269	289	305	-	297	320	337	-	
CC HEATER	N/A	LOPR		66	71	77	-	69	73	80	-	73	77	84	-	76	81	88	-	79	84	91	-	
Cond & Evap			75	MBh	43.1	44.4	48.0	51.5	42.1	43.3	46.9	50.3	41.0	42.3	45.7	49.1	39.0	40.1	43.4	46.6	36.1	37.2	40.2	43.2
Type	Fan	Blower		S/T	0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43
Size	20.3	11-11A		AMPS	19.3	19.7	20.2	20.9	20.7	21.1	21.7	22.4	21.9	22.3	22.9	23.6	23.0	23.5	24.2	24.9	24.2	24.7	25.4	26.2
Motor-Hp	1/3	1		HI PR	186	200	212	221	212	228	241	251	241	260	274	286	271	292	309	322	300	323	341	356
FLA	.74	2.1		LOPR	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98
LRA	n/a	n/a	80	MBh	43.9	44.8	47.9	51.2	42.8	43.7	46.7	50.0	41.8	42.7	45.5	48.7	39.7	40.5	43.3	46.3	36.8	37.6	40.1	42.9
RPM	1150	1100		S/T	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
Cap MFD/Volts	5/370	20/370		AMPS	19.5	19.9	20.4	21.0	20.8	21.3	21.8	22.5	22.0	22.5	23.1	23.8	23.2	23.7	24.4	25.1	24.4	24.9	25.6	26.4
Hi Pressure	N/A			HI PR	188	203	214	223	214	230	243	254	244	262	277	289	274	295	312	325	303	326	344	359
Lo Pressure	N/A			LOPR	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99
Low Ambient	N/A		85	MBh	44.6	45.5	47.6	50.8	43.6	44.4	46.5	49.6	42.5	43.3	45.4	48.4	40.4	41.2	43.1	46.0	37.4	38.1	39.9	42.6
Low Charge Sw	N/A			S/T	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
R-22, oz.				AMPS	19.6	20.0	20.5	21.2	21.0	21.4	22.0	22.7	22.2	22.6	23.3	24.0	23.4	23.9	24.5	25.3	24.6	25.1	25.8	26.6
Operating Chg.	See Rating Plate			HI PR	190	205	216	225	216	233	246	256	246	265	280	292	277	298	315	328	306	329	348	363
Service Driers				LOPR	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100
Liquid/Chg	Field																							
Suction	Field																							
Unit Weight 490			Air Delivery in CFM - Dry Coil																					
			(Add .08 static W/Internal Filters - Subtract 25 CFM for Wet Coil)																					
			230 Volt	External Static Pressure (Inch Water Column))																				
			Motor Speed	0.10	0.20	0.30	0.40	0.50	0.60															
			Hi	2147	2065	1993	1929	1860	1787															
			MD HI	2075	2020	1966	1901	1832	1757															
			MD LO	1997	1940	1875	1815	1746	1677															
			LO	1914	1853	1807	1747	1683	1616															
1098542																								
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ALL 208/230 VOLT Models Connection Wiring Diagram

CONNECTION WIRING DIAGRAM

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 AWM-105°C OR ITS EQUIVALENT.

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

—— LINE VOLTAGE FACTORY
 - - - LINE VOLTAGE FIELD

—— LOW VOLTAGE FACTORY
 - - - LOW VOLTAGE FIELD

== INTERNAL CIRCUIT BOARD WIRING

COLOR CODE:

GREEN G
 ORANGE O

BLACK BK
 BLUE BL

BROWN BR
 GRAY GY

RED R
 VIOLET V

WHITE W
 YELLOW Y

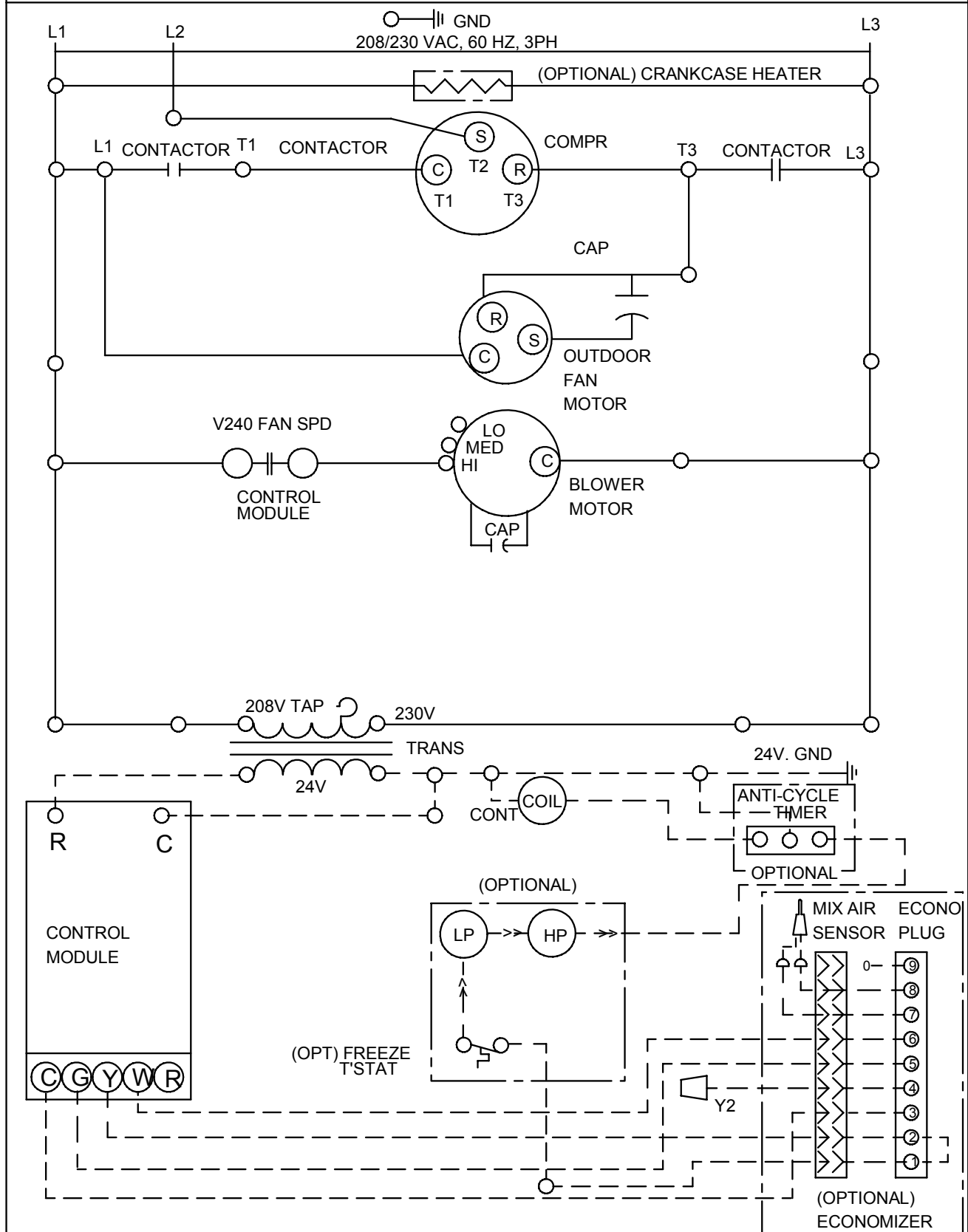
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513 04 1602 00

ALL 208/230 VOLT Models Ladder Wiring Diagram

LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

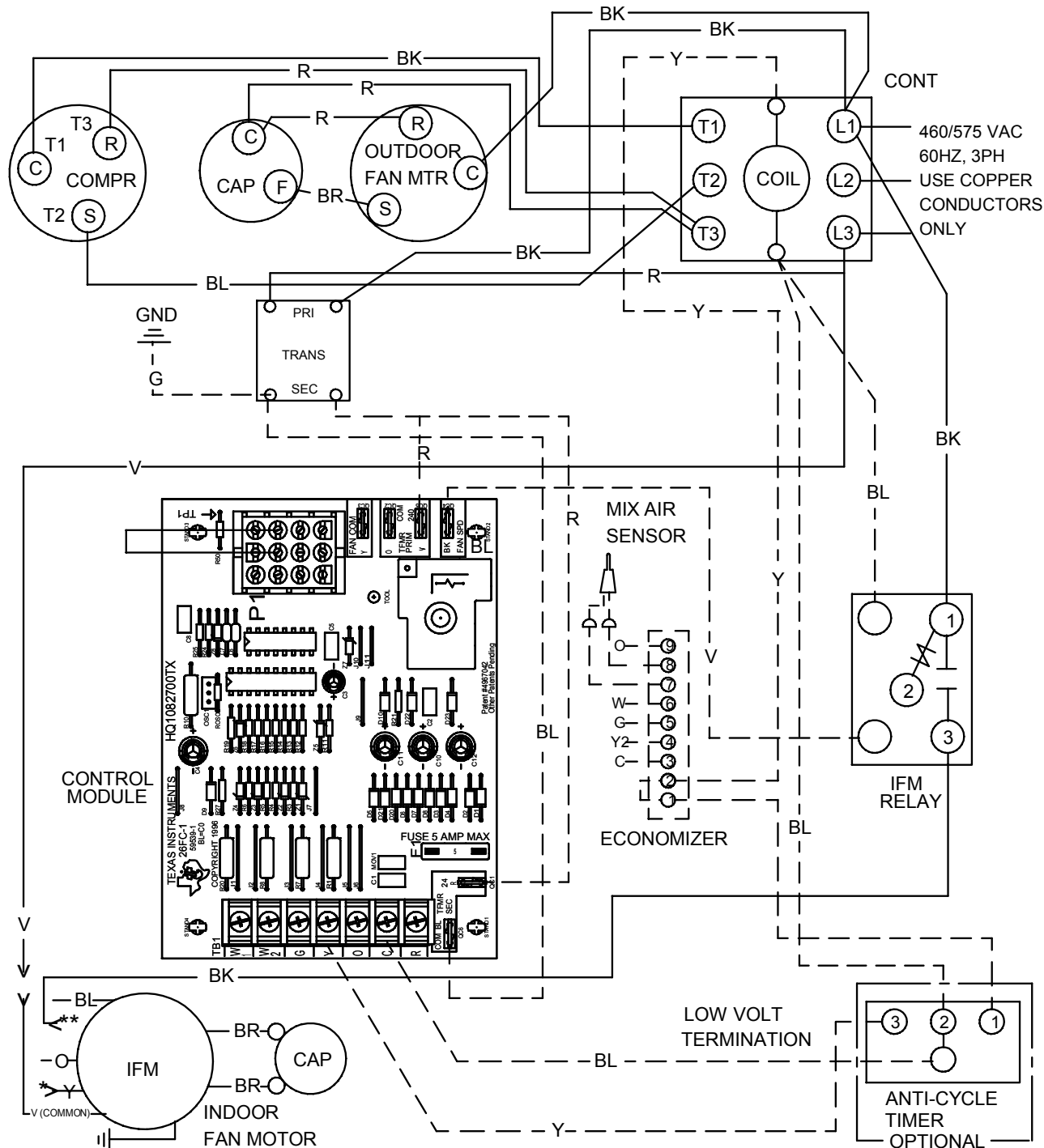


1098528

ALL 460 & 575 VOLT MODELS Connection Wiring Diagram

CONNECTION WIRING DIAGRAM

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 AWM-105°C OR ITS EQUIVALENT.

** FOR PROPER SPEED TAP CONNECTIONS (HEATING & COOLING) REFER TO INSTALLATION INSTRUCTIONS OR MOTOR CONNECTION LABEL IN CONTROL BOX.

— LINE VOLTAGE FACTORY — — LOW VOLTAGE FACTORY = = INTERNAL CIRCUIT
— LINE VOLTAGE FIELD — — LOW VOLTAGE FIELD BOARD WIRING

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

* YELLOW WIRE ON 4 SPEED MOTORS ONLY.

1098535-A

ALL 460 & 575 VOLT Models Ladder Wiring Diagram

LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

