

Parts List, Tech Labels, Wiring Diagrams

PAX3 3Phase SERIES

PACKAGE AIR CONDITIONER UNITS



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PAX3 SUBCOOLING & CHARGING CHARTS

Required Liquid Line Temperature for a Specific Subcooling (R-410A)

Required Subcooling (°F)					Required Subcooling (°C)				
Pressure (psig)	5	10	15	25	Pressure (kPa)	3	6	8	14
174	56	51	46	36	1200	13	11	8	2
181	59	54	49	39	1248	15	12	9	4
188	61	56	51	41	1296	16	13	10	5
195	63	58	53	43	1344	17	14	12	6
202	65	60	55	45	1393	18	16	13	7
209	67	62	57	47	1441	20	17	14	9
216	69	64	59	49	1489	21	18	15	10
223	71	66	61	51	1537	22	19	16	11
189	61	56	51	41	1303	16	13	11	5
196	63	58	53	43	1351	17	15	12	6
203	66	61	56	46	1399	19	16	13	8
210	68	63	58	48	1448	20	17	14	9
217	70	65	60	50	1496	21	18	15	10
224	72	67	62	52	1544	22	19	16	11
231	74	69	64	54	1593	23	20	18	12
238	76	71	66	56	1641	24	21	19	13
245	77	72	67	57	1689	25	22	20	14
252	79	74	69	59	1737	26	23	21	15
260	81	76	71	61	1792	27	25	22	16
268	83	78	73	63	1848	29	26	23	17
276	85	80	75	65	1903	30	27	24	19
284	87	82	77	67	1958	31	28	25	20
292	89	84	79	69	2013	32	29	26	21
300	91	86	81	71	2068	33	30	27	22
309	93	88	83	73	2130	34	31	28	23
318	95	90	85	75	2192	35	32	29	24
327	97	92	87	77	2254	36	33	31	25
336	99	94	89	79	2316	37	34	32	26
345	101	96	91	81	2378	38	35	33	27
354	103	98	93	83	2440	39	36	34	28
364	105	100	95	85	2509	40	38	35	29
374	107	102	97	87	2578	41	39	36	30
384	108	103	98	88	2647	42	40	37	31
394	110	105	100	90	2716	44	41	38	32
404	112	107	102	92	2785	45	42	39	33
414	114	109	104	94	2854	46	43	40	34
424	116	111	106	96	2923	47	44	41	35
434	118	113	108	98	2992	48	45	42	36
444	119	114	109	99	3061	48	46	43	37
454	121	116	111	101	3130	49	47	44	38
464	123	118	113	103	3199	50	48	45	39
474	124	119	114	104	3268	51	48	46	40
484	126	121	116	106	3337	52	49	47	41
494	127	122	117	107	3406	53	50	47	42
504	129	124	119	109	3475	54	51	48	43
514	131	126	121	111	3544	55	52	49	44
524	132	127	122	112	3612	56	53	50	45
534	134	129	124	114	3681	56	54	51	45

Model Size	Required Subcooling (°F (°C))				
	Outdoor Ambient Temperature				
	75 (24)	82 (28)	85 (29)	95 (35)	105 (41)
024	17.4 (9.6)	17.5 (9.7)	17.6 (9.8)	17.9 (9.9)	18.2 (10.1)
030	17.6 (9.8)	17.4 (9.7)	17.3 (9.6)	16.9 (9.4)	16.5 (9.2)
036	18.6 (10.3)	18.7 (10.4)	18.7 (10.4)	18.9 (10.5)	19.1 (10.6)
042	16.9 (9.4)	16.8 (9.2)	16.5 (9.2)	16 (8.9)	15.5 (8.6)
048	18 (10)	17.8 (9.9)	17.7 (9.8)	17.3 (9.6)	16.9 (9.4)
060	22.2 (12.3)	22 (12.2)	21.9 (12.2)	21.5 (11.9)	21.1 (11.7)

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Charging Procedure

- 1• Measure Discharge line pressure by attaching a gauge to the service port.
- 2• Measure the Liquid line temperature by attaching a temperature sensing device to it.
- 3• Insulate the temperature sensing device so that the Outdoor Ambient doesn't affect the reading.
- 4• Refer to the required Subcooling in the table based on the model size and the Outdoor Ambient temperature.
- 5• Interpolate if the Outdoor temperature lies in between the table values. Extrapolate if the temperature lies beyond the table range.
- 6• Find the Pressure Value corresponding to the measured Pressure on the Compressor Discharge line.
- 7• Read across from the Pressure reading to obtain the Liquid line temperature for a required Subcooling.
- 8• Add Charge if the measured temperature is higher than the liquid line temperature value in the table.
- 9• Add Charge using the service connection on the Suction line of the Compressor.

PHX3 3PHASE PARTS LIST

KEY NO.	FAST PARTS	DESCRIPTION				
			PAX336000H00A1	PAX342000H00A1	PAX348000H00A1	PAX360000H00A1
1	ZPS30K4ETF5130	COMP (R-22, 30K BTU, 2 STAGE, 208/230V-3 PH)	1	*	*	*
1	ZPS35K4ETF5130	COMP (R-22, 35K BTU, 2 STAGE, 208/230V-3 PH)	*	1	*	*
1	ZPS40K4ETF5130	COMP (R-22, 40K BTU, 2 STAGE, 208/230V-3 PH)	*	*	1	*
1	ZPS51K4ETF5130	COMP (R-22, 51K BTU, 2 STAGE, 208/230V-3 PH)	*	*	*	1
2	1173700	MTR CND 1/230 1/8 825/1	1	1	1	*
2	1171335	MTR CND 1/230 1/4	*	*	*	1
3	1173706	FAN C 20" 3B 1/2" 34 INT	1	*	*	*
3	1171220	FAN C 22" 3B 1/2" 24 INT	*	1	1	*
3	1171219	FAN C 22" 3B 1/2" 28 INT	*	*	*	1
4	1174355	COIL, EVAP	1	*	*	*
4	1174356	COIL, EVAP	*	1	*	*
4	1174357	COIL, EVAP	*	*	1	*
4	1174358	COIL, EVAP	*	*	*	1
7	1174243	DISTRIBUTOR (R-22)	*	*	*	1
7	1174359	DISTRIBUTOR (R-22)	*	1	1	*
7	1174361	DISTRIBUTOR (R-22)	1	*	*	*
9	1174295	KIT, BLW MTR MTG	1	1	1	1
10	1171742	WHEEL DD11x9x1/2 CW CV	1	1	*	*
10	1173815	WHEEL DD11x10x1/2 CW CV	*	*	1	1
11	1174280	MTR, BLW (208-230 VAC, 6A, 1 PH, 3/4 HP)	1	*	*	*
11	1174281	MTR, BLW (208-230 VAC, 6A, 1 PH, 3/4 HP)	*	1	*	*
11	1174282	MTR, BLW (208-230 VAC, 7.6A, 1 PH, 1 HP)	*	*	1	*
11	1174362	MTR, BLW (208-230 VAC, 7.6A, 1 PH, 1 HP)	*	*	*	1
12	1172149	CAP RN RD 5 MFD 370V	1	1	1	*
12	1171807	CAP RN RD 10 MFD 370V	*	*	*	1
13	1171160	CONTACTOR (SPST, NO, 25A, 24VAC)	1	1	*	*
13	1174905	CONTACTOR (SPST, NO, 40A, 24VAC)	*	*	1	1
14	1171114	BREAKER 3.2A 1 POLE 250V	1	1	1	1
15	1171496	TRANS 200/230/460>24 75VA	1	1	1	1
16	1173693	BOARD CIRCUIT X-13	1	1	1	1
17	1174402	COIL, COND	1	*	*	*
17	1174403	COIL, COND	*	1	*	*
17	1174404	COIL, COND	*	*	1	*
17	1174405	COIL, COND	*	*	*	1
18	1174904	PLUG COMP WIRE (SM)	1	1	1	1
19	1173827	PLUG COMP SOLENOID COIL 185"LD	1	1	1	1
20	1083619	PORT ASY VLV/SWT LK	1	1	1	1
23	1173705	HTR CC WP 40W240V	1	1	1	1
25	1174407	SWITCH, HIGH PRESS	1	1	1	1
26	1174409	VALVE, TXV	1	*	*	*
26	1174410	VALVE, TXV	*	1	1	*
26	1174411	VALVE, TXV	*	*	*	1
48	1174412	SWITCH, LOW PRESS	1	1	1	1
54	1174413	SWITCH, PRESS (COMP LOADING)	1	1	1	1
55	1173679	DRIER LIQ 08 CU IN 3/8 SWEAT	1	1	1	1
57	1069172	TUBE, EVAP DRAIN PAN	1	*	*	*
58	1084078	RAIL, BASE W/FORK SLOTS	*	1	1	1
59	1054464	RAIL, BASE WO/FORK SLOTS	*	1	1	1
60	1065001	RAIL, BASE W/FORK SLOTS	2	1	1	1

PHX3 3PHASE PARTS LIST (continued)

KEY NO.	FAST PARTS	DESCRIPTION				
			PAX336000H00A1	PAX342000H00A1	PAX348000H00A1	PAX360000H00A1
61	1113559	RAIL, BASE WO/FORK SLOTS	2	1	1	1
A	1174392	PANEL, TOP	1	*	*	*
A	1174393	PANEL, TOP	*	1	1	1
B	1173832	GRILLE, COND OUTLET	1	*	*	*
B	1174394	GRILLE, COND OUTLET	*	1	1	1
C	1064544	GRILLE COND INLET	1	*	*	*
C	1064545	GRILLE COND INLET	*	1	1	1
D	1064543	GRILLE COND INLET	1	*	*	*
D	1064547	GRILLE COND INLET	*	1	1	1
E	1064546	GRILLE COND INLET	*	*	*	1
F	1172740	NUT, CAP	4	4	4	4
G	1068182	PANEL PORT P250 L	1	*	*	*
G	1068164	PANEL PORT P250 L	*	1	1	1
H	1068189	PLATE PORT P250 L	1	1	1	1
I	1098999	BRACKET, EVAP	*	1	1	1
I	1099106	BRACKET, EVAP	1	*	*	*
J	1174167	HOUSING, BLW	1	1	*	*
J	1174168	HOUSING, BLW	*	*	1	1
K	1174395	BOX, BLW	1	*	*	*
K	1174396	BOX, BLW	*	1	1	1
O	1068163	POST, CNTR	*	1	1	1
P	1110951	PANEL, SUPPLY AIR	1	*	*	*
P	1111268	PANEL, SUPPLY AIR	*	1	1	1
Q	1110952	PANEL RETURN AIR	1	*	*	*
Q	1111269	PANEL RETURN AIR	*	1	1	1
R	1110961	COVER, DUCTS	2	*	*	*
R	1111275	COVER, DUCTS	*	2	2	2
S	1068185	PANEL, ACCESS	1	*	*	*
S	1068186	PANEL, ACCESS	*	1	1	1
U	1110953	PANEL BLR ACC	1	*	*	*
U	1111270	PANEL BLR ACC	*	1	1	1
V	1068167	POST RETURN AIR	2	*	*	*
V	1068168	POST RETURN AIR	*	1	1	1
W	1174397	POST, CNR (ELEC HP/PAC)	1	*	*	*
W	1174398	POST, CNR (ELEC HP/PAC)	*	1	1	1
X	1068172	POST CNR (COND)	*	1	1	1
Y	1068162	PANEL, DRAIN OUTLET	*	1	1	1
Z	1111271	PANEL, FILTER ACCESS	*	1	1	1
ZZ	1110954	PAN, EVAP DRAIN	1	*	*	*
ZZ	1172244	PAN, EVAP DRAIN	*	1	1	1
)	1174369	HARNESS, WIRE (DUAL CAP PAC)	1	1	1	1
)	1174323	HARNESS, WIRE (DUAL CAP ADP)	1	1	1	1
)	1174903	HARNESS, WIRE (ECONOMIZER)	1	1	1	1
)	1054503	FILTER FG 20X30X2	*	2	2	2

PAX3 3PHASE PARTS LIST

KEY NO.	FAST PARTS	DESCRIPTION				
			PAX336000L00A1	PAX342000L00A1	PAX348000L00A1	PAX360000L00A1
001	ZPS30K4ETFD830	COMP ZPS30K4E-TFD-130	1	*	*	*
001	ZPS35K4ETFD830	COMP ZPS35K4E-TFD-130	*	1	*	*
001	ZPS40K4ETFD830	COMP ZPS40K4E-TFD-130	*	*	1	*
001	ZPS51K4ETFD830	COMP ZPS51K4E-TFD-130	*	*	*	1
002	1175525	MOTOR, OUTDOOR	1	1	1	*
002	1171334	MOTOR, OUTDOOR	*	*	*	1
003	1173706	PROPELLER, FAN	1	*	*	*
003	1171220	PROPELLER, FAN	*	1	1	*
003	1171219	PROPELLER, FAN	*	*	*	1
004	1174355	COIL ASY, INDOOR (36)	1	*	*	*
004	1174356	COIL ASY, INDOOR (42)	*	1	*	*
004	1174357	COIL ASY, INDOOR (48)	*	*	1	*
004	1174358	COIL ASY, INDOOR (60)	*	*	*	1
007	1174243	DISTRIBUTOR (R-22)	*	*	*	1
007	1174359	DISTRIBUTOR (R-22)	*	1	1	*
007	1174361	DISTRIBUTOR	1	*	*	*
009	1174295	KIT, BLW MTR MTG	1	1	1	1
10	1171742	WHEEL, BLW	1	1	*	*
10	1173815	WHEEL, BLW	*	*	1	1
11	1174280	MOTOR, BLW	1	*	*	*
11	1174281	MOTOR, BLW	*	1	*	*
11	1174282	MOTOR, BLW	*	*	1	*
11	1174362	MOTOR, BLW	*	*	*	1
12	1172149	CAPACITOR	1	1	1	*
12	1171807	CAPACITOR	*	*	*	1
13	1171160	CONTACTOR	1	1	*	*
13	1174905	CONTACTOR	*	*	1	1
14	1171114	CIRCUIT BREAKER	1	1	1	1
15	1171496	TRANSFORMER	1	1	1	1
16	1173693	CIRCUIT BOARD, MOTOR	1	1	1	1
17	1174365	COIL ASY, OUTDOOR (36 AC)	1	*	*	*
17	1174366	COIL ASY, OUTDOOR (42 AC)	*	1	*	*
17	1174367	COIL ASY, OUTDOOR (48 AC)	*	*	1	*
17	1174368	COIL ASY, OUTDOOR (60 AC)	*	*	*	1
18	1175778	PLUG ASY	1	*	*	*
18	1175782	PLUG ASY	*	1	1	1
19	1175779	PLUG ASY	1	*	*	*
19	1173695	PLUG ASY	*	1	1	1
20	1083619	VALVE, SERVICE	1	1	1	1
23	1175776	HEATER, CRANKCASE	1	*	*	*
23	1175781	HEATER, CRANKCASE	*	1	1	1
25	1174407	SWITCH, HIGH PRESS	1	1	1	1
26	1174409	VALVE, TXV	1	*	*	*
26	1174410	VALVE, TXV	*	1	1	*
26	1174411	VALVE, TXV	*	*	*	1
48	1174412	SWITCH, LOW PRESS	1	1	1	1
54	1174413	SWITCH, PRESS	1	1	1	1
55	1173679	FILTER DRIER	1	1	1	1
57	1069172	TUBE	1	*	*	*

PAX3 3PHASE PARTS LIST (continued)

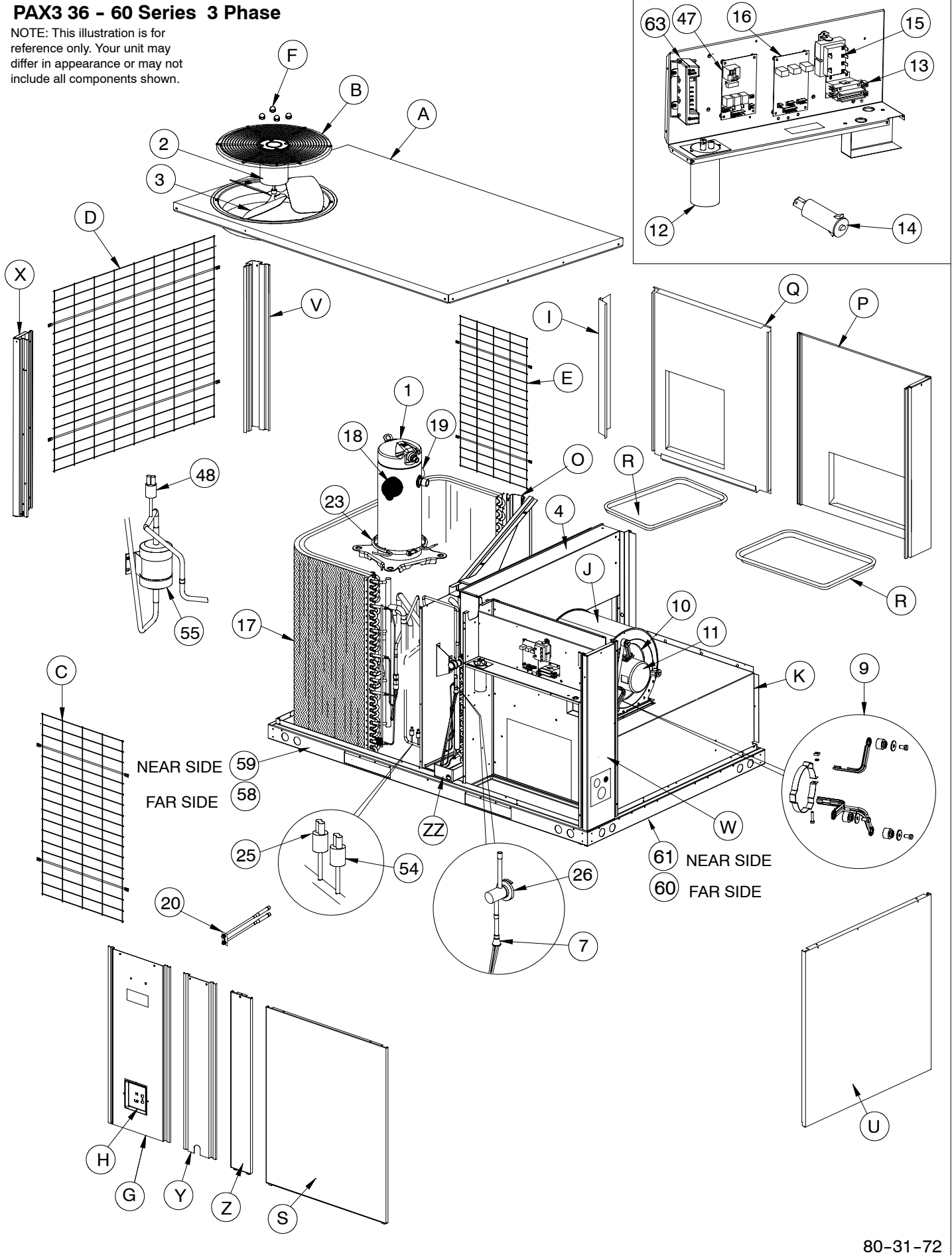
KEY NO.	FAST PARTS	DESCRIPTION				
			PAX336000L00A1	PAX342000L00A1	PAX348000L00A1	PAX360000L00A1
58	1084078	RAIL, BASE	*	1	1	1
59	1054464	RAIL, BASE	*	1	1	1
60	1065001	RAIL, BASE	2	1	1	1
61	1113559	RAIL, BASE	2	1	1	1
62	1175526	TRANSFORMER	1	1	1	1
A	1174392	PANEL ASY	1	*	*	*
A	1174393	PANEL ASY	*	1	1	1
B	1173832	GRILLE, COND OUTLET	1	*	*	*
B	1174394	GRILLE, COND OUTLET	*	1	1	1
C	1064544	GRILLE COND INLET	1	*	*	*
C	1064545	GRILLE COND INLET	*	1	1	1
D	1064543	GRILLE COND INLET	1	*	*	*
D	1064547	GRILLE COND INLET	*	1	1	1
E	1064546	GRILLE COND INLET	*	*	*	1
F	1172740	NUT, CAP	4	4	4	4
G	1068182	PANEL ASY	1	*	*	*
G	1068164	PANEL	*	1	1	1
H	1068189	PLATE, MOUNTING	1	1	1	1
I	1098999	SUPPORT, COIL	*	1	1	1
I	1099106	BRACKET, EVAP	1	*	*	*
J	1174168	HOUSING, BLW	1	1	*	*
J	1174169	HOUSING, BLW	*	*	1	1
K	1174395	BOX, BLW	1	*	*	*
K	1174396	BOX, BLW	*	1	1	1
L	1066107	PLATE, BLOCKOFF	1	1	1	1
O	1068163	POST, CENTER	*	1	1	1
P	1110951	PANEL ASY	1	*	*	*
P	1111268	PANEL ASY	*	1	1	1
Q	1110952	PANEL ASY	1	*	*	*
Q	1111269	PANEL ASY	*	1	1	1
R	1110961	COVER ASY	2	*	*	*
R	1111275	COVER ASY	*	2	2	2
S	1068185	PANEL, ACCESS	1	*	*	*
S	1068186	PANEL, ACCESS	*	1	1	1
U	1110953	PANEL BLR ACC	1	*	*	*
U	1111270	PANEL ASY	*	1	1	1
V	1068167	POST RETURN AIR	2	*	*	*
V	1068168	POST CORNER	*	1	1	1
W	1174397	POST ASY, CORNER	1	*	*	*
W	1174398	POST ASY, CORNER	*	1	1	1
X	1068172	POST CORNER (COND)	*	1	1	1
Y	1068162	PANEL, DRAIN OUTLET	*	1	1	1
Z	1111271	PANEL ASY	*	1	1	1
ZZ	1065795	PAN, EVAP DRAIN	1	*	*	*
ZZ	1172244	PAN, EVAP DRAIN	*	1	1	1
)	1174369	HARNESS ASY (460V PAC)	1	1	1	1
)	1174320	HARNESS ASY (DUAL CAP ADP)	1	1	1	1
)	1174903	HARNESS ASY (ECONOMIZER)	1	1	1	1
)	1175777	HARNESS ASY	1	*	*	*

PAX3 3PHASE PARTS LIST (continued)

KEY NO.	FAST PARTS	DESCRIPTION				
			PAX336000L00A1	PAX342000L00A1	PAX348000L00A1	PAX360000L00A1
) (	117524	HARNESS ASY	*	1	1	1
) (	1054503	FILTER	*	2	2	2
) (	1171270	GROMMET	4	4	4	4

PAX3 36 - 60 Series 3 Phase

NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown.



PAX3 36

OD Ambient (°F)	ID Airflow (SCFM)	1050					1200					1350				
		Entering Indoor Temperature - Degrees F, Wet Bulb														
		57	62	63"	67	72	57	62	63"	67	72	57	62	63"	67	72
75	MBh†	33.2	34.4	35.0	37.9	41.7	34.8	35.5	36.0	38.9	42.7	36.2	36.4	36.7	39.7	43.6
	S/T‡	1.00	0.91	0.72	0.69	0.50	1.00	0.95	0.75	0.72	0.52	1.00	0.99	0.78	0.76	0.54
	Total Unit Amps (460-3-80)	4.0	4.1	4.1	4.2	4.2	4.0	4.1	4.1	4.1	4.2	4.1	4.1	4.1	4.2	4.2
	HI PR	321	322	323	329	338	323	323	324	330	339	328	328	326	333	341
	LO PR	129	130	132	142	155	132	132	133	143	157	139	140	137	147	161
85	MBh†	31.9	32.8	33.3	36.1	39.7	33.4	33.8	34.2	37.0	40.7	34.7	34.8	34.9	37.7	41.4
	S/T‡	1.00	0.93	0.73	0.71	0.51	1.00	0.97	0.77	0.74	0.53	1.00	1.00	0.80	0.78	0.55
	Total Unit Amps (460-3-80)	4.4	4.6	4.6	4.6	4.7	4.5	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.7
	HI PR	364	364	365	371	380	366	366	366	372	381	371	371	368	375	384
	LO PR	132	132	133	144	157	135	135	135	145	159	142	142	139	149	162
95	MBh†	30.5	31.1	31.5	34.2	37.7	32.0	32.0	32.3	35.0	38.6	33.2	33.2	33.0	35.7	39.2
	S/T‡	1.00	0.95	0.75	0.72	0.52	1.00	1.00	0.79	0.76	0.54	1.00	1.00	0.82	0.80	0.56
	Total Unit Amps (460-3-80)	4.9	5.0	5.0	5.1	5.1	5.0	5.0	5.0	5.0	5.1	5.1	5.1	5.1	5.1	5.2
	HI PR	411	411	411	418	427	413	413	412	419	428	418	418	415	421	430
	LO PR	134	135	135	145	159	137	138	136	147	160	145	145	140	151	164
105	MBh†	29.1	29.3	29.7	32.2	35.6	30.4	30.5	30.4	33.0	36.3	31.6	31.6	31.0	33.6	36.9
	S/T‡	1.00	0.98	0.77	0.74	0.53	1.00	1.00	0.81	0.78	0.56	1.00	1.00	0.85	0.82	0.57
	Total Unit Amps (460-3-80)	5.4	5.6	5.6	5.6	5.7	5.5	5.5	5.5	5.6	5.6	5.6	5.6	5.6	5.6	5.7
	HI PR	463	463	462	469	478	465	465	463	470	479	470	470	466	472	481
	LO PR	137	138	137	147	161	140	141	138	149	162	148	148	142	152	166
115	MBh†	27.6	27.6	27.8	30.2	33.3	28.8	28.9	28.4	30.8	34.0	29.9	29.9	28.9	31.4	34.6
	S/T‡	1.00	1.00	0.79	0.77	0.54	1.00	1.00	0.84	0.81	0.56	1.00	1.00	0.88	0.85	0.59
	Total Unit Amps (460-3-80)	6.0	6.1	6.1	6.2	6.2	6.1	6.1	6.1	6.1	6.2	6.2	6.2	6.2	6.2	6.3
	HI PR	519	519	518	524	533	521	521	519	525	533	526	526	521	528	536
	LO PR	140	141	138	149	163	143	144	140	150	164	151	151	143	154	167
Air Delivery in CFM - Dry Coil - No Filter (Add .05 Static Press for Wet Coil)																
Speed Tap		External Static Pressure (Inch Water Col)														
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0					
1		876	841	794	756	694	651	598	543	499	464					
2		1026	984	949	913	871	841	793	735	683	638					
3		1276	1242	1209	1179	1150	1117	1086	1045	998	946					
4		1630	1588	1526	1477	1415	1354	1287	1216	1145	1070					
5		-	-	-	-	-	-	-	-	-	-					

† Net Capacity (BTU/HR / 1000)
 ‡ Sensible Heat Ratio (Sensible Capacity / Net Capacity)
 †† At 75° F entering dry bulb - Tennessee Valley Authority (TVA) rating conditions; all others at 80° F entering dry bulb.

50CY501900 - 2.0

PAX3 42

OD Ambient (°F)	ID Airflow (SCFM)	1225					1400					1575				
		Entering Indoor Temperature - Degrees F, Wet Bulb														
		57	62	63"	67	72	57	62	63"	67	72	57	62	63"	67	72
75	MBh†	38.4	39.6	40.2	43.3	47.2	40.2	40.7	41.2	44.3	48.2	41.7	41.8	42.0	45.1	49.0
	S/T‡	0.98	0.90	0.72	0.69	0.50	0.98	0.95	0.75	0.72	0.52	0.98	0.98	0.78	0.76	0.54
	Total Unit Amps (460-3-80)	4.7	4.7	4.7	4.8	4.9	4.7	4.8	4.8	4.8	4.9	4.8	4.8	4.8	4.8	4.9
	HI PR	316	317	318	324	333	318	318	319	325	334	323	323	321	328	336
	LO PR	127	128	130	140	153	130	130	131	141	155	137	138	135	145	159
85	MBh†	37.0	37.8	38.4	41.3	45.0	38.7	38.8	39.3	42.2	45.9	40.1	40.2	40.0	42.9	46.6
	S/T‡	0.98	0.92	0.73	0.70	0.51	0.98	0.97	0.77	0.74	0.53	0.98	0.98	0.80	0.78	0.55
	Total Unit Amps (460-3-80)	5.2	5.2	5.2	5.3	5.3	5.2	5.2	5.2	5.3	5.3	5.2	5.2	5.2	5.3	5.4
	HI PR	359	359	360	366	375	361	361	361	367	376	366	366	363	370	379
	LO PR	130	130	131	142	155	133	133	133	143	157	140	140	137	147	160
95	MBh†	35.4	35.9	36.4	39.2	42.7	37.0	37.1	37.3	40.0	43.5	38.4	38.4	37.9	40.7	44.1
	S/T‡	0.98	0.95	0.75	0.72	0.52	0.98	0.98	0.78	0.76	0.54	0.98	0.98	0.82	0.80	0.56
	Total Unit Amps (460-3-80)	5.7	5.7	5.7	5.7	5.8	5.7	5.7	5.7	5.8	5.8	5.7	5.7	5.7	5.8	5.9
	HI PR	406	406	406	413	422	408	408	407	414	423	413	413	410	416	425
	LO PR	132	133	133	143	157	135	136	134	145	158	143	143	138	149	162
105	MBh†	33.8	34.0	34.4	37.0	40.2	35.3	35.3	35.1	37.7	41.0	36.5	36.5	35.7	38.3	41.5
	S/T‡	0.98	0.97	0.76	0.74	0.53	0.98	0.98	0.81	0.78	0.55	0.98	0.98	0.85	0.83	0.58
	Total Unit Amps (460-3-80)	6.2	6.2	6.2	6.3	6.4	6.3	6.3	6.2	6.3	6.4	6.3	6.3	6.3	6.3	6.4
	HI PR	458	458	457	464	473	460	460	458	465	474	465	465	461	467	476
	LO PR	135	136	135	145	159	138	139	136	147	160	146	146	140	150	164
115	MBh†	32.0	32.1	32.2	34.6	37.6	33.4	33.4	32.8	35.2	38.2	34.4	34.5	33.3	35.7	38.7
	S/T‡	0.98	0.98	0.79	0.76	0.54	0.98	0.98	0.83	0.81	0.57	0.98	0.98	0.88	0.86	0.59
	Total Unit Amps (460-3-80)	6.8	6.8	6.8	6.9	7.0	6.8	6.9	6.8	6.9	7.0	6.9	6.9	6.9	6.9	7.0
	HI PR	514	514	513	519	528	516	516	514	520	528	521	521	516	523	531
	LO PR	138	139	136	147	161	141	142	138	148	162	149	149	141	152	165
Air Delivery in CFM - Dry Coil - No Filter (Add .05 Static Press for Wet Coil)																
Speed Tap		External Static Pressure (Inch Water Col)														
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0					
1		973	900	853	797	749	702	642	581	529	476					
2		1028	969	924	881	838	789	731	680	617	562					
3		1302	1260	1219	1179	1138	1103	1060	1015	963	923					
4		1481	1448	1412	1374	1336	1298	1263	1228	1188	1143					
5		1569	1537	1500	1463	1423	1389	1353	1317	1276	1208					

† Net Capacity (BTU/HR / 1000)
 ‡ Sensible Heat Ratio (Sensible Capacity / Net Capacity)
 †† At 75° F entering dry bulb - Tennessee Valley Authority (TVA) rating conditions; all others at 80° F entering dry bulb.

50CY501901 - 2.0

PAX3 48

OD Ambient (°F)	ID Airflow (SCFM)	1400					1600					1800				
		Entering Indoor Temperature - Degrees F, Wet Bulb														
		57	62	63 [†]	67	72	57	62	63 [†]	67	72	57	62	63 [†]	67	72
75	MBh†	42.8	44.1	44.9	48.4	53.1	44.9	45.4	46.0	49.6	54.3	46.7	46.7	46.9	50.5	55.3
	S/T‡	0.98	0.91	0.72	0.69	0.50	0.98	0.95	0.75	0.73	0.52	0.98	0.98	0.79	0.76	0.54
	Total Unit Amps (460-3-60)	5.3	5.4	5.4	5.5	5.6	5.4	5.4	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.6
	HI PR	323	324	325	331	340	325	325	326	332	341	330	330	328	335	343
	LO PR	125	126	128	138	151	128	128	129	139	153	135	136	133	143	157
85	MBh†	41.3	42.1	42.8	46.3	50.7	43.2	43.4	43.9	47.3	51.9	44.9	44.9	44.7	48.2	52.7
	S/T‡	0.98	0.93	0.73	0.70	0.51	0.98	0.97	0.77	0.74	0.53	0.98	0.98	0.80	0.78	0.55
	Total Unit Amps (460-3-60)	5.8	5.9	5.9	6.0	6.1	5.9	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.1
	HI PR	366	366	367	373	382	368	368	368	374	383	373	373	370	377	386
	LO PR	128	128	129	140	153	131	131	131	141	155	138	138	135	145	158
95	MBh†	39.6	40.1	40.7	44.0	48.3	41.5	41.5	41.7	45.0	49.3	43.0	43.1	42.5	45.8	50.1
	S/T‡	0.98	0.95	0.75	0.72	0.51	0.98	0.98	0.79	0.76	0.54	0.98	0.98	0.82	0.80	0.56
	Total Unit Amps (460-3-60)	6.3	6.4	6.5	6.5	6.6	6.4	6.4	6.4	6.5	6.6	6.5	6.5	6.5	6.6	6.6
	HI PR	413	413	413	420	429	415	415	414	421	430	420	420	417	423	432
	LO PR	130	131	131	141	155	133	134	132	143	156	141	141	136	147	160
105	MBh†	37.9	38.0	38.5	41.7	45.7	39.6	39.7	39.4	42.6	46.6	41.1	41.1	40.1	43.3	47.4
	S/T‡	0.98	0.98	0.77	0.74	0.52	0.98	0.98	0.81	0.78	0.55	0.98	0.98	0.85	0.82	0.57
	Total Unit Amps (460-3-60)	6.9	7.0	7.0	7.1	7.2	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.2
	HI PR	465	465	464	471	480	467	467	465	472	481	472	472	468	474	483
	LO PR	133	134	133	143	157	136	137	134	145	158	144	144	138	148	162
115	MBh†	36.0	36.1	36.2	39.1	43.0	37.6	37.7	37.0	39.9	43.8	38.9	39.0	37.6	40.6	44.4
	S/T‡	0.98	0.98	0.79	0.76	0.53	0.98	0.98	0.83	0.81	0.56	0.98	0.98	0.88	0.85	0.59
	Total Unit Amps (460-3-60)	7.5	7.7	7.7	7.7	7.8	7.6	7.6	7.6	7.7	7.8	7.7	7.7	7.7	7.8	7.9
	HI PR	521	521	520	526	535	523	523	521	527	535	528	528	523	530	538
	LO PR	136	137	134	145	159	139	140	136	146	160	147	147	139	150	163

Air Delivery in CFM - Dry Coil - No Filter (Add .05 Static Press for Wet Coil)																
Speed Tap	External Static Pressure (Inch Water Col)															
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0						
1	1173	1127	1085	1027	983	927	881	821	764	710						
2	1304	1256	1216	1167	1126	1077	1026	979	921	875						
3	1680	1650	1614	1578	1544	1507	1470	1427	1373	1289						
4	1831	1797	1763	1732	1696	1661	1621	1559	1446	1339						
5	2103	2051	2001	1942	1878	1809	1723	1632	1526	1388						

† Net Capacity (BTU/HR / 1000)
 ‡ Sensible Heat Ratio (Sensible Capacity / Net Capacity)
 †† At 75° F entering dry bulb - Tennessee Valley Authority (TVA) rating conditions; all others at 80° F entering dry bulb.

50CY501902 - 2.0

PAX3 60

OD Ambient (°F)	ID Airflow (SCFM)	1750					2000					2250				
		Entering Indoor Temperature - Degrees F, Wet Bulb														
		57	62	63 [†]	67	72	57	62	63 [†]	67	72	57	62	63 [†]	67	72
75	MBh†	55.9	57.2	58.1	62.1	67.2	58.3	58.7	59.4	63.4	68.4	60.4	60.5	60.4	64.4	69.4
	S/T‡	0.96	0.90	0.71	0.68	0.49	0.96	0.95	0.74	0.72	0.51	0.96	0.96	0.78	0.76	0.53
	Total Unit Amps (460-3-60)	6.8	6.9	7.0	7.1	7.2	6.9	6.9	6.9	7.0	7.2	7.0	7.0	7.0	7.1	7.3
	HI PR	325	326	327	333	342	327	327	328	334	343	332	332	330	337	345
	LO PR	125	126	128	138	151	128	128	129	139	153	135	136	133	143	157
85	MBh†	53.7	54.5	55.4	59.1	63.9	56.0	56.0	56.5	60.3	65.0	57.9	57.9	57.5	61.2	65.9
	S/T‡	0.96	0.92	0.72	0.70	0.50	0.96	0.96	0.76	0.74	0.52	0.96	0.96	0.80	0.78	0.55
	Total Unit Amps (460-3-60)	7.4	7.5	7.6	7.7	7.8	7.5	7.5	7.5	7.6	7.8	7.6	7.6	7.6	7.7	7.9
	HI PR	368	368	369	375	384	370	370	370	376	385	375	375	372	379	388
	LO PR	128	128	129	140	153	131	131	131	141	155	138	138	135	145	158
95	MBh†	51.3	51.7	52.4	56.0	60.5	53.5	53.5	53.5	57.0	61.5	55.2	55.3	54.3	57.8	62.3
	S/T‡	0.96	0.95	0.74	0.72	0.51	0.96	0.96	0.78	0.76	0.53	0.96	0.96	0.82	0.80	0.56
	Total Unit Amps (460-3-60)	8.0	8.2	8.2	8.3	8.5	8.2	8.2	8.2	8.3	8.4	8.3	8.3	8.3	8.4	8.5
	HI PR	415	415	415	422	431	417	417	416	423	432	422	422	419	425	434
	LO PR	130	131	131	141	155	133	134	132	143	156	141	141	136	147	160
105	MBh†	48.8	48.9	49.3	52.6	56.8	50.7	50.8	50.3	53.5	57.7	52.3	52.4	51.0	54.3	58.4
	S/T‡	0.96	0.96	0.76	0.74	0.52	0.96	0.96	0.80	0.79	0.55	0.96	0.96	0.85	0.83	0.57
	Total Unit Amps (460-3-60)	8.7	8.9	8.9	9.0	9.2	8.9	8.9	8.9	9.0	9.1	9.0	9.0	9.0	9.1	9.2
	HI PR	467	467	466	473	482	469	469	467	474	483	474	474	470	476	485
	LO PR	133	134	133	143	157	136	137	134	145	158	144	144	138	148	162
115	MBh†	46.0	46.1	45.9	48.9	52.8	47.7	47.8	46.7	49.7	53.5	49.1	49.2	47.4	50.4	54.1
	S/T‡	0.96	0.96	0.78	0.77	0.53	0.96	0.96	0.83	0.82	0.56	0.96	0.96	0.88	0.87	0.59
	Total Unit Amps (460-3-60)	9.5	9.6	9.6	9.7	9.9	9.6	9.6	9.6	9.7	9.8	9.8	9.8	9.7	9.8	9.9
	HI PR	523	523	522	528	537	525	525	523	529	537	530	530	525	532	540
	LO PR	136	137	134	145	159	139	140	136	146	160	147	147	139	150	163

Air Delivery in CFM - Dry Coil - No Filter (Add .05 Static Press for Wet Coil)																
Speed Tap	External Static Pressure (Inch Water Col)															
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0						
1	1300	1263	1214	1169	1117	1073	1026	975	926	862						
2	1368	1321	1283	1231	1197	1144	1105	1038	969	913						
3	1833	1807	1772	1735	1702	1627	1623	1550	1535	1460						
4	2091	2056	2023	1987	1935	1875	1811	1729	1640	1536						
5	2188	2140	2096	2039	1974	1905	1827	1745	1642	1537						

† Net Capacity (BTU/HR / 1000)
 ‡ Sensible Heat Ratio (Sensible Capacity / Net Capacity)
 †† At 75° F entering dry bulb - Tennessee Valley Authority (TVA) rating conditions; all others at 80° F entering dry bulb.

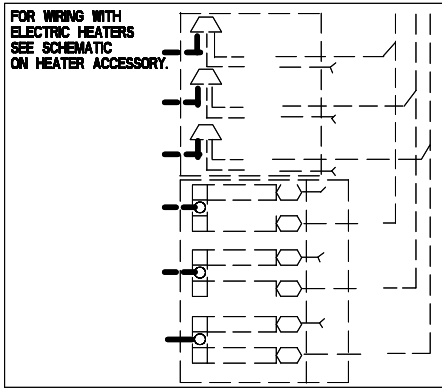
50CY501903 - 2.0

PAX3 208/230V 3PHASE

SCHEMATIC
208/230-3-60

FIELD
SUPPLY
POWER

UNIT ONLY
MAXIMUM WIRE
SIZE 2 AWG.



EQUIP. GND

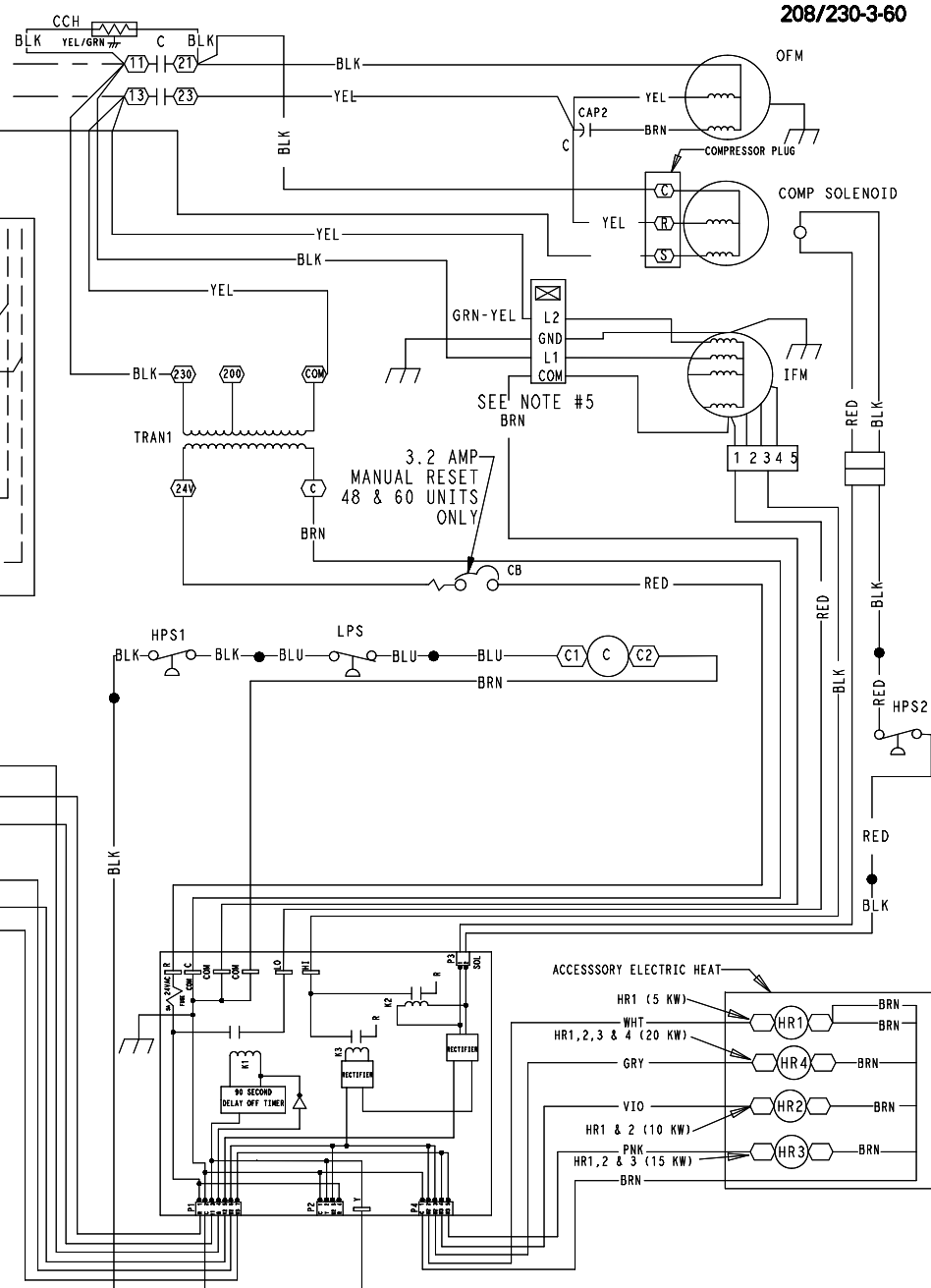
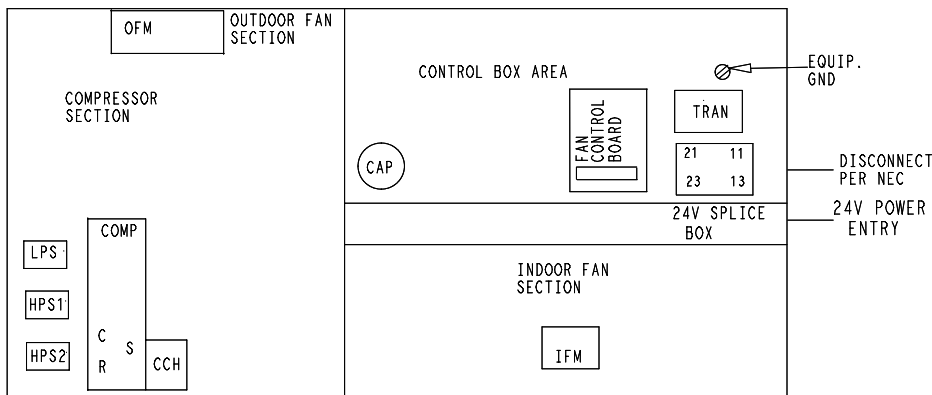
G — GRN
R — RED
Y1 — YEL
O — ORN
W2 — WHT
Y2 — PNK
W3 — VIO
C — BRN

ECONOMIZER PLUG

12 — PNK
11 — ORN
10 — GRY
9 — GRY
8 — WHT
7 — WHT
6 — GRN
5 — BLU
4 — BRN
3 — YEL
2 — YEL
1 — RED

SEE ECONOMIZER
ACCESSORY INSTALLATION
INSTRUCTIONS FOR
PROPER WIRING

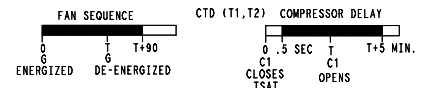
UNIT COMPONENT ARRANGEMENT



LEGEND

- △ FIELD SPLICE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- SPLICE
- SPLICE (MARKED)
- FACTORY WIRING
- - - FIELD CONTROL WIRING
- - - FIELD POWER WIRING
- - - ACCESSORY OR OPTIONAL WIRING
- TO INDICATE COMMON POTENTIAL ONLY; NOT TO REPRESENT WIRING
- C CONTACTOR
- CAP CAPACITOR
- CCH CRANK CASE HEATER
- COMP COMPRESSOR MOTOR
- CTD COMPRESSOR TIME DELAY
- FCR FAN CONTROL BOARD
- GND GROUND
- HR HEATER RELAY
- HPS1 HIGH PRESSURE SWITCH
- HPS2 HIGH PRESSURE SWITCH
- IFM INDOOR FAN MOTOR
- LPS LOW PRESSURE SWITCH
- OFM OUTDOOR FAN MOTOR
- TRAN TRANSFORMER

- NOTES:
- IF ANY OF THE ORIGINAL WIRES FURNISHED ARE REPLACED, IT MUST BE REPLACED WITH TYPE 90 DEGREE C WIRE OR IT'S EQUIVALENT.
 - SEE PRICE PAGES FOR THERMOSTAT AND SUBBASES.
 - USE 75 DEGREE COPPER CONDUCTORS FOR FIELD INSTALLATION.
 - RELOCATION OF SPEED TAPS MAY BE REQUIRED WHEN USING FIELD INSTALLED ELECTRIC HEATERS, CONSULT INSTALLATION INSTRUCTIONS TO DETERMINE CORRECT SPEED TAP SETTING.
 - *DO NOT DISCONNECT PLUG UNDER LOAD.*



50CY501644 3.0

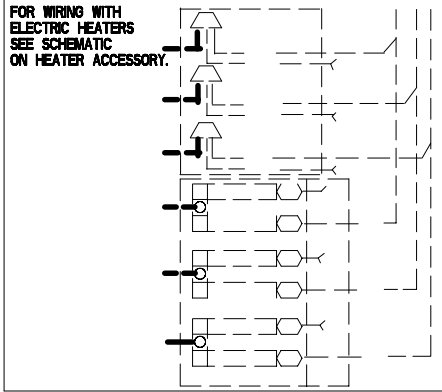
PAX3 460V 3PHASE

PAX3 SCHEMATIC 460-3-60

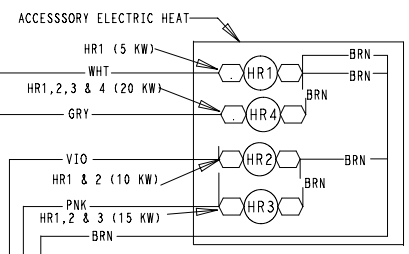
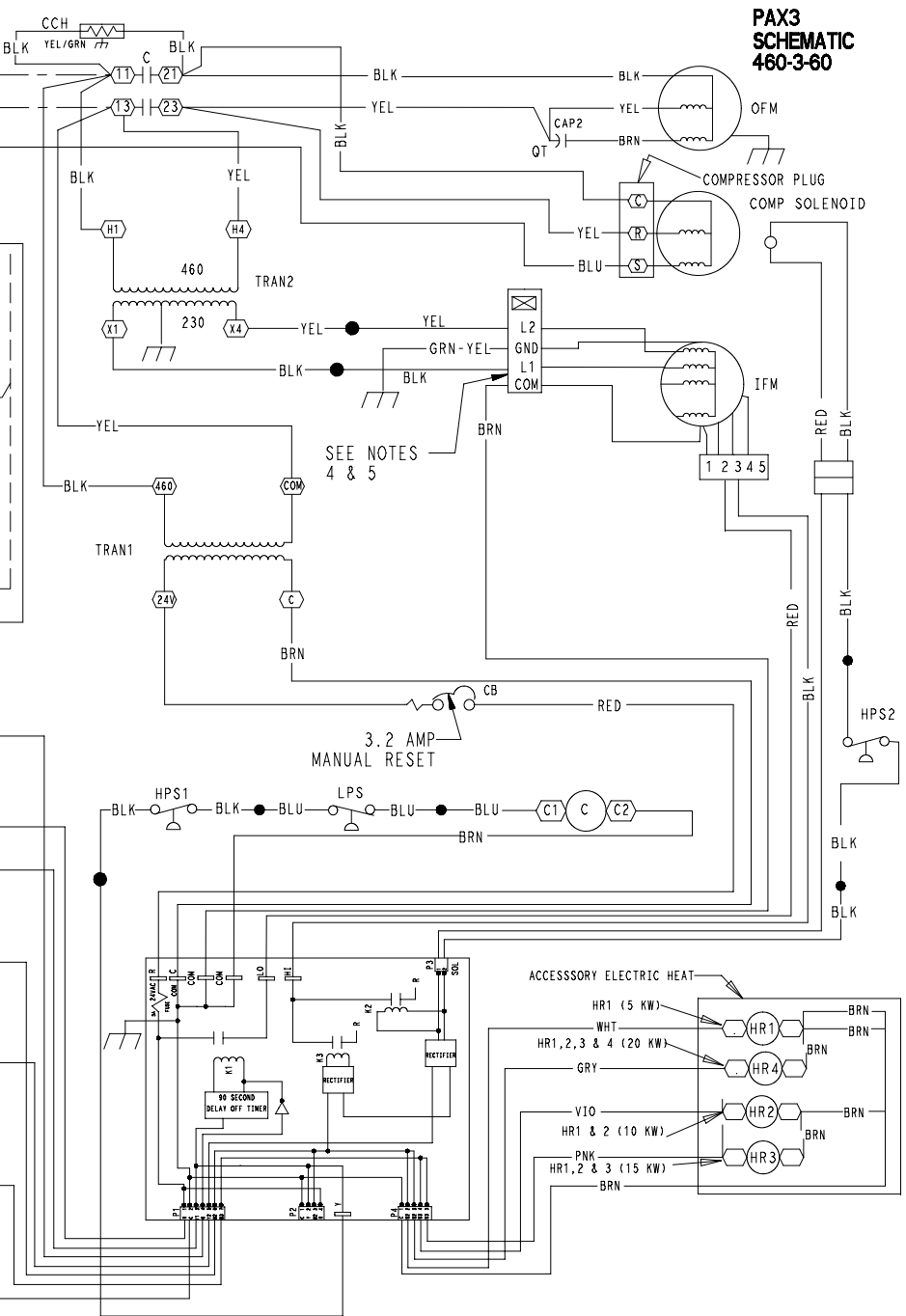
FIELD SUPPLY POWER

UNIT ONLY
MAXIMUM WIRE SIZE 2 AWG.

EQUIP_GND



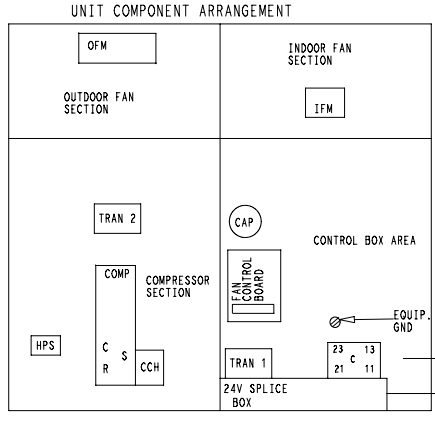
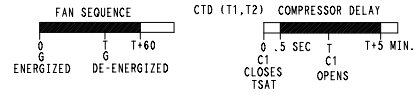
SEE ECONOMIZER ACCESSORY INSTALLATION INSTRUCTIONS FOR PROPER WIRING



LEGEND

- △ FIELD SPLICE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- SPLICE
- SPLICE (MARKED)
- FACTORY WIRING
- - - FIELD CONTROL WIRING
- - - FIELD POWER WIRING
- - - ACCESSORY OR OPTIONAL WIRING
- TO INDICATE COMMON
- POTENTIAL ONLY: NOT TO REPRESENT WIRING
- C CONTACTOR
- CAP CAPACITOR
- CB CIRCUIT BREAKER
- CCH CRANK CASE HEATER
- COMP COMPRESSOR MOTOR
- CTD COMPRESSOR TIME DELAY
- FCB FAN CONTROL BOARD
- GND GROUND
- HR HEATER RELAY
- IFM INDOOR FAN MOTOR
- HPS HIGH PRESSURE SWITCH
- OFM OUTDOOR FAN MOTOR
- TRAN 1 TRANSFORMER 460-24
- TRAN 2 TRANSFORMER 460-230

- NOTES:
- IF ANY OF THE ORIGINAL WIRES FURNISHED ARE REPLACED, IT MUST BE REPLACED WITH TYPE 90 DEGREE C WIRE OR IT'S EQUIVALENT.
 - SEE PRICE PAGES FOR THERMOSTAT AND SUBBASES.
 - USE 75 DEGREE COPPER CONDUCTORS FOR FIELD INSTALLATION.
 - RELOCATION OF SPEED TAPS MAY BE REQUIRED WHEN USING FIELD INSTALLED ELECTRIC HEATERS. CONSULT INSTALLATION INSTRUCTIONS TO DETERMINE CORRECT SPEED TAP SETTING.
 - *DO NOT DISCONNECT PLUG UNDER LOAD.*



DISCONNECT PER NEC
24V POWER ENTRY

50CY501850 2.0