

Parts List, Charging Chart, Tech Labels, Wiring Diagram

PHX3 SERIES PACKAGE HEAT PUMP UNITS



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PHX3 PARTS LIST

KEY NO.	DESCRIPTION	FAST PART NO.	PHX32400K00A1	PHX33000K00A1	PHX33600K00A1	PHX34200K00A1	PHX34800K00A1	PHX36000K00A1
1	COMP ZPS20K4E-PFV-830	ZPS20K4EPFV830	1	*	*	*	*	*
1	COMP ZPS26K4E-PFV-830	ZPS26K4EPFV830	*	1	*	*	*	*
1	COMP ZPS30K4E-PFV-830	ZPS30K4EPFV830	*	*	1	*	*	*
1	COMP ZPS35K4E-PFV-830	ZPS35K4EPFV830	*	*	*	1	*	*
1	COMP ZPS40K4E-PFV-830	ZPS40K4EPFV830	*	*	*	*	1	*
1	COMP ZPS51K4E-PFV-830	ZPS51K4EPFV830	*	*	*	*	*	1
2	MTR CND 1/230 1/4	1171335	*	*	*	*	*	1
2	MTR CND 1/230 1/4 1100/1	1173700	*	*	1	1	1	*
2	MTR CND 1/230 1/8 825/1	1173699	1	1	*	*	*	*
3	FAN C 20" 3B 1/2" 34 INT	1173706	1	1	1	*	*	*
3	FAN C 22" 3B 1/2" 24 INT	1171220	*	*	*	1	1	*
3	FAN C 22" 3B 1/2" 28 INT	1171219	*	*	*	*	*	1
4	COIL	1174353	1	*	*	*	*	*
4	COIL	1174354	*	1	*	*	*	*
4	COIL	1174355	*	*	1	*	*	*
4	COIL	1174356	*	*	*	1	*	*
4	COIL	1174357	*	*	*	*	1	*
4	COIL	1174358	*	*	*	*	*	1
7	DISTRIBUTOR 5 CIRCUIT	1174243	*	*	*	*	*	1
7	DISTRIBUTOR COND	1174361	*	*	1	*	*	*
7	DISTRIBUTOR R410A	1174359	*	*	*	1	1	*
7	DISTRIBUTOR R410A	1174360	1	1	*	*	*	*
9	MOUNT KIT BLOWER MOTOR	1174295	1	1	1	1	1	1
10	WHEEL DD10x8x1/2 CW CV	1173813	1	1	*	*	*	*
10	WHEEL DD11x10x1/2 CW CV	1173815	*	*	*	*	1	1
10	WHEEL DD11x9x1/2 CW CV	1171742	*	*	1	1	*	*
11	MTR BLR 1/230 1 1200 GE X-13	1174282	*	*	*	*	1	*
11	MTR BLR 1/230 1 1200 GE X-13	1174362	*	*	*	*	*	1
11	MTR BLR 1/230 1/2 1200 GE X-13	1174278	1	*	*	*	*	*
11	MTR BLR 1/230 1/2 1200 GE X-13	1174279	*	1	*	*	*	*
11	MTR BLR 1/230 3/4 1200 GE X-13	1174280	*	*	1	*	*	*
11	MTR BLR 1/230 3/4 1200 GE X-13	1174281	*	*	*	1	*	*
12	CAP RN RD 370V 5+35	1172110	1	*	*	*	*	*
12	CAP RN RD 370V 5+40	1172147	*	1	1	*	*	*
12	CAP RN RD 370V 5+45	1172124	*	*	*	1	1	*
12	CAPACITOR RUN RD 370V 80+10MFD	1173703	*	*	*	*	*	1
13	CONTACTOR 1P 25A 24V	1173689	1	1	1	*	*	*
13	CONTACTOR 1P 40A 24V	1173690	*	*	*	1	1	1
14	BREAKER 3.2A 1 POLE 250V	1171114	1	1	1	1	1	1
15	TRANS 200/230/460>24 75VA	1171496	1	1	1	1	1	1
16	BOARD CIRCUIT X-13	1173693	1	1	1	1	1	1
17	COIL	1174400	1	*	*	*	*	*
17	COIL	1174401	*	1	*	*	*	*
17	COIL	1174402	*	*	1	*	*	*
17	COIL	1174403	*	*	*	1	*	*

PHX3 PARTS LIST (continued)

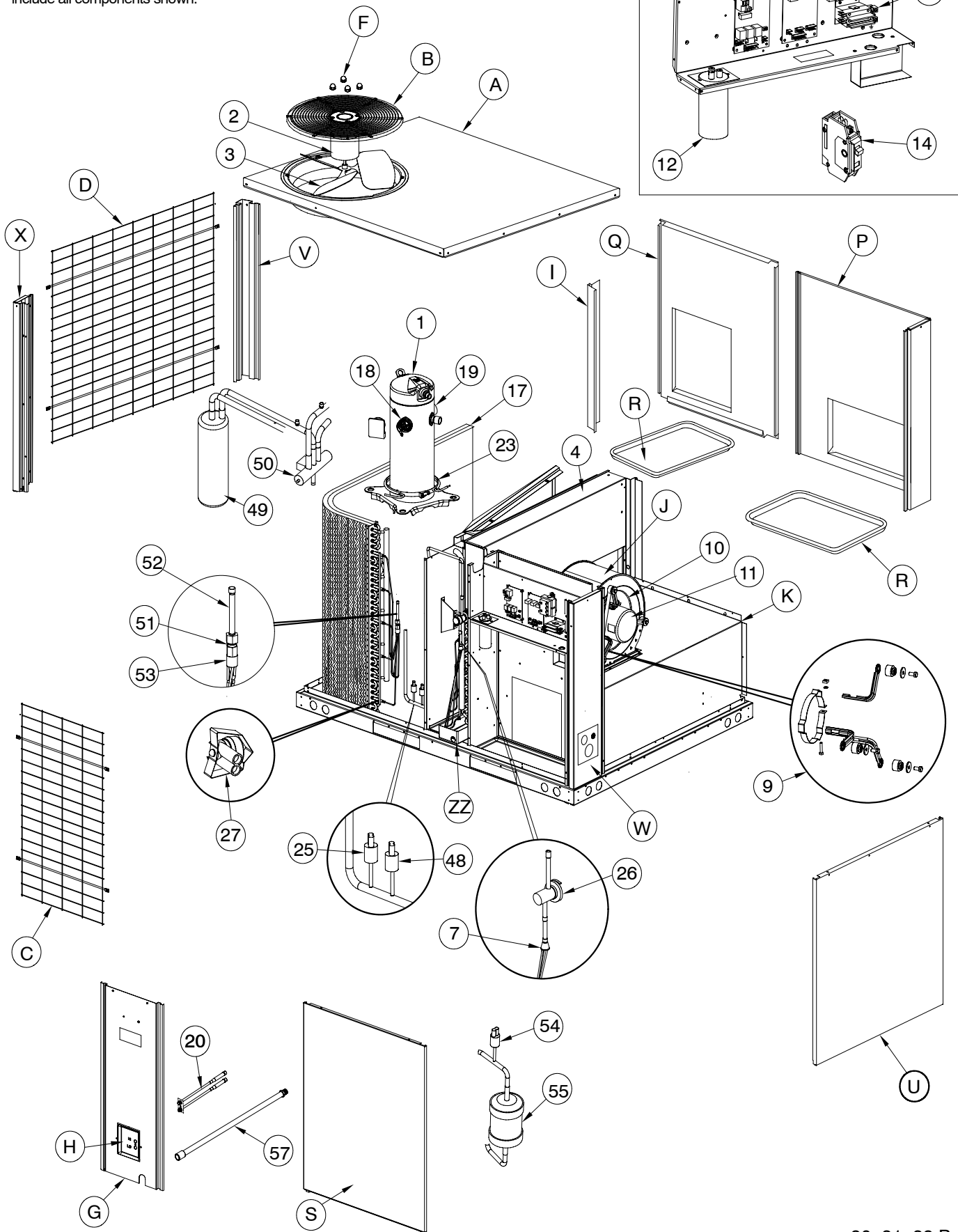
KEY NO.	DESCRIPTION	FAST PART NO.	PHX324000K00A1	PHX330000K00A1	PHX336000K00A1	PHX342000K00A1	PHX348000K00A1	PHX360000K00A1
			*	*	*	*	*	*
17	COIL	1174404	*	*	*	*	1	*
17	COIL	1174405	*	*	*	*	*	1
18	PLUG COMP WIRE (SM)	1173826	1	1	1	1	1	1
19	PLUG COMP SOLENOID COIL 185"LD	1173827	1	1	1	1	1	1
20	PORT ASY VLV/SWT LK	1083619	1	1	1	1	1	1
23	HTR CC WP 40W240V	1173705	1	1	1	1	1	1
25	SWITCH PRESS HI O650 C420	1174407	1	1	1	1	1	1
26	VALVE TXV 2.0 R410 SHT 86	1174408	1	*	*	*	*	*
26	VALVE TXV 2.0 R410 SHT 95	1174409	*	1	1	*	*	*
26	VALVE TXV 4.0 R410 SHT 88	1174410	*	*	*	1	1	*
26	VALVE TXV 5.0 R410 SHT 90	1174411	*	*	*	*	*	1
27	SENSOR DEFROST O80 C30 3/8	1173697	1	1	1	1	1	1
47	BOARD DEFROST	1174185	1	1	1	1	1	1
48	SWITCH PRESS LO O20 C45	1174412	1	1	1	1	1	1
49	ACCUMULATOR	1172313	*	*	*	1	*	1
49	ACCUMULATOR 120 3/4 NH	1172018	1	1	1	*	*	*
49	ACCUMULATOR 174 IN3 7/8	1173714	*	*	*	*	1	*
50	VALVE REV W/COIL 24V	1172618	*	*	*	1	1	*
50	VALVE REV W/COIL 24V	1173708	1	1	1	*	*	*
50	VALVE REV W/COIL 24V	1173709	*	*	*	*	*	1
51	METERING DEVICE	1174858	1	*	*	*	*	*
51	PISTON .040	1173990	1	*	*	*	*	*
51	PISTON .052	1174060	*	*	1	*	*	*
51	PISTON CHATLEFF .049	1173868	*	1	*	*	*	*
51	PISTON CHATLEFF .057	1173658	*	*	*	1	*	*
51	PISTON CHATLEFF .061	1173663	*	*	*	*	1	*
51	PISTON CHATLEFF .065	1173873	*	*	*	*	*	1
52	KIT TAILPIECE	1174325	1	1	1	1	1	1
53	DISTRIBUTOR 3 CIRCUIT	1174241	1	*	1	*	*	*
53	DISTRIBUTOR 5 CIRCUIT	1174242	*	*	*	1	1	1
53	DISTRIBUTOR COND	1174446	*	1	*	*	*	*
54	SWITCH PRESS COMP SOL	1174413	1	1	1	1	1	1
55	DRIER BIFLOW 06 CI 3/8 SWEAT	1172311	1	1	1	1	1	1
57	TUBE DRAIN LK	1069172	1	1	1	*	*	*
58	RAIL BASE GALV	1084078	*	*	*	1	1	1
59	RAIL BASE GALV LK	1054464	*	*	*	1	1	1
60	RAIL BASE GALV	1065001	2	2	2	2	2	2
61	RAIL BASE GALV	1113559	2	2	2	1	1	1
A	PANEL	1174392	1	1	1	*	*	*
A	PANEL TOP	1174393	*	*	*	1	1	1
B	GRILLE	1174394	*	*	*	1	1	1
B	GRILLE OUTLET	1173832	1	1	1	*	*	*
C	GRILLE COND INLET	1064543	1	1	1	*	*	*
C	GRILLE COND INLET	1064544	1	1	1	*	*	*
C	GRILLE COND INLET	1064545	*	*	*	1	1	1

PHX3 PARTS LIST (continued)

KEY NO.	DESCRIPTION	FAST PART NO.	PHX324000K00A1	PHX330000K00A1	PHX336000K00A1	PHX342000K00A1	PHX348000K00A1	PHX360000K00A1
D	GRILLE COND INLET	1064547	*	*	*	1	1	1
E	GRILLE COND INLET	1064546	*	*	*	*	*	1
F	NUT CAP	1172740	4	4	4	4	4	4
G	PANEL PORT	1068164	*	*	*	1	1	1
G	PANEL PORT P250	1068182	1	1	1	*	*	*
H	PLATE PORT P250	1068189	1	1	1	1	1	1
I	BRACKET EVAP	1098999	1	1	1	*	*	*
I	BRACKET EVAP GALV	1099106	*	*	*	1	1	1
J	HOUSING BLOWER	1174166	1	1	*	*	*	*
J	HOUSING BLOWER	1174167	*	*	1	1	*	*
J	HOUSING BLOWER	1174168	*	*	*	*	1	1
K	BOX	1174395	1	1	1	*	*	*
K	BOX	1174396	*	*	*	1	1	1
L	FILTER FG 20X30X2	1054503	*	*	*	2	2	2
O	POST CENTER	1068163	*	*	*	1	1	1
P	COVER	1111268	*	*	*	1	1	1
P	PANEL	1110951	1	1	1	*	*	*
Q	PANEL RETURN AIR	1110952	1	1	1	*	*	*
Q	PANEL RETURN AIR	1111269	*	*	*	1	1	1
R	COVER	1110961	2	2	2	*	*	*
R	COVER	1111275	*	*	*	2	2	2
S	PANEL ACCESS	1068186	*	*	*	1	1	1
S	PANEL ACCESS P250	1068185	1	1	1	*	*	*
U	PANEL ACCESS HT EX	1110953	1	1	1	*	*	*
U	PANEL BLR ACC	1111270	*	*	*	1	1	1
V	POST CNR	1068172	*	*	*	1	1	1
V	POST RETURN AIR P250	1068167	2	2	2	*	*	*
W	POST	1174397	1	1	1	*	*	*
W	POST	1174398	*	*	*	1	1	1
X	POST RETURN AIR	1068168	*	*	*	1	1	1
Y	PANEL FILTER	1111271	*	*	*	1	1	1
Z	PANEL	1111281	*	*	*	*	*	1
ZZ	PAN	1110954	1	1	1	*	*	*
ZZ	PAN DRAIN	1172244	*	*	*	1	1	1
ZZ	PANEL	1111281	*	*	*	1	1	*
PARTS NOT SHOWN								
]]	HARNESS	1174320	1	1	1	1	1	1
]]	HARNESS ASY (DUAL CAP PAC)	1174406	1	1	1	1	1	1
]]	PAINT DARK GREY 16OZ AEROSOL	1171357	1	1	1	1	1	1
]]	VALVE SOLENOID	1174447	1	*	*	*	*	*

PHX3 24 - 36

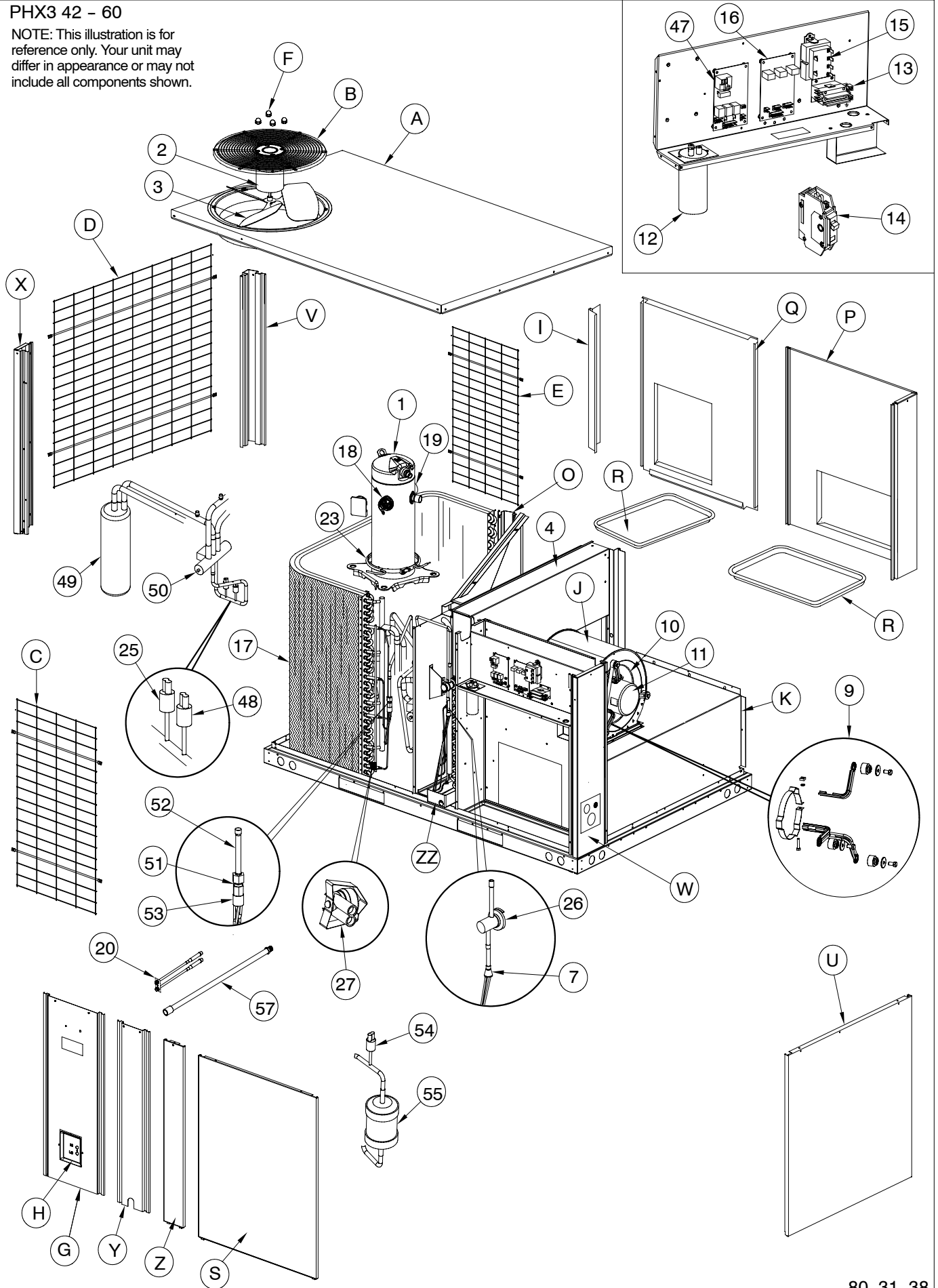
NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown.



80-31-38 B

PHX3 42 - 60

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PHX3 24 - 60

Model Size	Required Subcooling of (°C)				
	75 (24)	82 (28)	85 (29)	95 (35)	105 (41)
024	17.8 (9.9)	17.5 (9.7)	17.4 (9.6)	16.9 (9.4)	16.4 (9.1)
030	16.6 (9.2)	16.4 (9.1)	16.3 (9.1)	16 (8.9)	15.7 (8.7)
036	24.2 (13.5)	24.5 (13.6)	24.6 (13.7)	25 (13.9)	25.4 (14.1)
042	23.8 (13.2)	23.5 (13.1)	23.4 (13)	23 (12.8)	22.6 (12.6)
048	26.1 (14.5)	25 (13.9)	24.5 (13.6)	23 (12.8)	21.5 (11.9)
060	20.8 (11.5)	20.5 (11.4)	20.4 (11.3)	20 (11.1)	19.6 (10.9)

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 to find the required Subcooling 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.

Pressure (psig)	Required Liquid Line Temperature for a Specific Subcooling (°F)				
	5	10	15	20	25
189	61	56	51	46	41
196	63	58	53	48	43
203	66	61	56	51	46
210	68	63	58	53	48
217	70	65	60	55	50
224	72	67	62	57	52
231	74	69	64	59	54
238	76	71	66	61	56
245	77	72	67	62	57
252	79	74	69	64	59
260	81	76	71	66	61
268	83	78	73	68	63
276	85	80	75	70	65
284	87	82	77	72	67
292	89	84	79	74	69
300	91	86	81	76	71
309	93	88	83	78	73
318	95	90	85	80	75
327	97	92	87	82	77
336	99	94	89	84	79
345	101	96	91	86	81
354	103	98	93	88	83
364	105	100	95	90	85
374	107	102	97	92	87
384	108	103	98	93	88
394	110	105	100	95	90
404	112	107	102	97	92
414	114	109	104	99	94
424	116	111	106	101	96
434	118	113	108	103	98
444	119	114	109	104	99
454	121	116	111	106	101
464	123	118	113	108	103
474	124	119	114	109	104
484	126	121	116	111	106
494	127	122	117	112	107
504	129	124	119	114	109
514	131	126	121	116	111
524	132	127	122	117	112
534	134	129	124	119	114

Pressure (kPa)	Required Subcooling (R-410A)				
	3	6	8	11	14
1303	13	13	11	8	5
1351	13	15	12	9	6
1399	13	16	13	10	8
1448	13	17	14	11	9
1496	13	18	15	13	10
1544	13	19	16	14	11
1593	13	20	18	15	12
1641	13	21	19	16	13
1689	13	22	20	17	14
1737	13	23	21	18	15
1792	13	25	22	19	16
1848	13	26	23	20	17
1903	13	27	24	21	19
1958	13	28	25	22	20
2013	13	29	26	23	21
2068	13	30	27	24	22
2130	13	31	28	26	23
2192	13	32	29	27	24
2254	13	33	31	28	25
2316	13	34	32	29	26
2378	13	35	33	30	27
2440	13	36	34	31	28
2509	13	38	35	32	29
2578	13	39	36	33	30
2647	13	40	37	34	31
2716	13	41	38	35	32
2785	13	42	39	36	33
2854	13	43	40	37	34
2923	13	44	41	38	35
2992	13	45	42	39	36
3061	13	46	43	40	37
3130	13	47	44	41	38
3199	13	48	45	42	39
3268	13	48	46	43	40
3337	13	49	47	44	41
3406	13	50	47	45	42
3475	13	51	48	46	43
3544	13	52	49	46	44
3612	13	53	50	47	45
3681	13	54	51	48	45

		PHX324**														
		700					800					900				
		Entering Indoor Temperature - Degrees F, Wet Bulb														
ID Airflow (SCFM)		57	62	63 ††	67	72	57	62	63 ††	67	72	57	62	63 ††	67	72
75	MBh†	21.7	22.5	22.9	24.7	27.1	22.8	23.2	23.5	25.3	27.7	23.7	23.8	24.0	25.8	28.2
	S/T‡	0.99	0.90	0.72	0.69	0.51	0.99	0.95	0.75	0.73	0.53	0.99	0.99	0.79	0.76	0.54
	AMPS*	7.0	7.5	7.5	7.6	7.7	7.3	7.3	7.3	7.4	7.5	7.5	7.5	7.5	7.6	7.7
	HI PR	314	315	316	322	331	316	316	317	323	332	321	321	319	326	334
	LO PR	128	129	131	141	154	131	131	132	142	156	138	139	136	146	160
85	MBh†	21.0	21.5	21.9	23.6	25.9	22.0	22.2	22.5	24.2	26.5	22.8	22.9	22.9	24.6	26.9
	S/T‡	0.99	0.92	0.73	0.71	0.52	0.99	0.97	0.77	0.74	0.53	0.99	0.99	0.80	0.78	0.55
	AMPS*	7.8	8.3	8.3	8.4	8.5	8.1	8.1	8.1	8.2	8.3	8.3	8.3	8.3	8.4	8.6
	HI PR	357	357	358	364	373	359	359	359	365	374	364	364	361	368	377
	LO PR	131	131	132	143	156	134	134	134	144	158	141	141	138	148	161
95	MBh†	20.2	20.5	20.9	22.5	24.6	21.1	21.1	21.4	23.0	25.2	21.9	21.9	21.8	23.4	25.6
	S/T‡	0.99	0.95	0.75	0.72	0.52	0.99	0.99	0.79	0.76	0.54	0.99	0.99	0.82	0.80	0.56
	AMPS*	8.7	9.2	9.2	9.3	9.4	9.0	9.0	9.0	9.1	9.2	9.2	9.3	9.2	9.3	9.4
	HI PR	404	404	404	411	420	406	406	405	412	421	411	411	408	414	423
	LO PR	133	134	134	144	158	136	137	135	146	159	144	144	139	150	163
105	MBh†	19.3	19.5	19.7	21.3	23.3	20.2	20.2	20.2	21.7	23.8	20.9	21.0	20.6	22.1	24.2
	S/T‡	0.99	0.97	0.77	0.74	0.53	0.99	0.99	0.81	0.78	0.55	0.99	0.99	0.85	0.82	0.58
	AMPS*	9.7	10.2	10.2	10.3	10.4	10.0	10.0	10.0	10.1	10.2	10.2	10.2	10.2	10.3	10.4
	HI PR	456	456	455	462	471	458	458	456	463	472	463	463	459	465	474
	LO PR	136	137	136	146	160	139	140	137	148	161	147	147	141	151	165
115	MBh†	18.4	18.4	18.5	20.0	21.9	19.2	19.2	18.9	20.4	22.3	19.8	19.9	19.3	20.7	22.6
	S/T‡	0.99	0.99	0.79	0.76	0.54	0.99	0.99	0.83	0.81	0.57	0.99	0.99	0.87	0.85	0.59
	AMPS*	10.8	11.3	11.3	11.4	11.5	11.1	11.1	11.1	11.2	11.3	11.3	11.3	11.3	11.4	11.5
	HI PR	512	512	511	517	526	514	514	512	518	526	519	519	514	521	529
	LO PR	139	140	137	148	162	142	143	139	149	163	150	150	142	153	166

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		661	478	334	262	219	196	-	-	-	-					
2		711	655	623	564	529	481	431	392	334	305					
3		869	842	809	768	736	684	650	599	569	523					
4		951	914	883	858	811	775	733	697	658	618					
5		1251	1218	1194	1170	1139	1100	1063	988	871	745					

50CY501168 - 2.0

		PHX330**														
		875					1000					1125				
		Entering Indoor Temperature - Degrees F, Wet Bulb														
OD Ambient (°F)		57	62	63 ††	67	72	57	62	63 ††	67	72	57	62	63 ††	67	72
75	MBh†	26.6	27.6	28.0	30.1	32.9	27.9	28.3	28.7	30.9	33.7	29.0	29.0	29.3	31.4	34.2
	S/T‡	1.03	0.94	0.75	0.72	0.53	1.03	0.98	0.78	0.75	0.54	1.03	1.03	0.81	0.79	0.56
	AMPS*	9.1	9.6	9.6	9.7	9.9	9.4	9.4	9.4	9.5	9.7	9.6	9.6	9.7	9.8	9.9
	HI PR	318	319	320	326	335	320	320	321	327	336	325	325	323	330	338
	LO PR	128	129	131	141	154	131	131	132	142	156	138	139	136	146	160
85	MBh†	25.7	26.4	26.8	28.8	31.5	26.9	27.1	27.4	29.5	32.1	27.9	27.9	27.9	30.0	32.7
	S/T‡	1.03	0.96	0.76	0.73	0.53	1.03	1.01	0.79	0.77	0.55	1.03	1.03	0.83	0.81	0.57
	AMPS*	10.1	10.6	10.6	10.7	10.9	10.4	10.4	10.4	10.5	10.7	10.6	10.6	10.6	10.8	10.9
	HI PR	361	361	362	368	377	363	363	363	369	378	368	368	365	372	381
	LO PR	131	131	132	143	156	134	134	134	144	158	141	141	138	148	161
95	MBh†	24.7	25.1	25.5	27.4	29.9	25.8	25.8	26.1	28.0	30.5	26.7	26.8	26.5	28.5	31.0
	S/T‡	1.03	0.98	0.77	0.75	0.54	1.03	1.03	0.81	0.79	0.56	1.03	1.03	0.85	0.83	0.58
	AMPS*	11.2	11.6	11.7	11.8	11.9	11.5	11.5	11.5	11.6	11.7	11.7	11.7	11.7	11.8	12.0
	HI PR	408	408	408	415	424	410	410	409	416	425	415	415	412	418	427
	LO PR	133	134	134	144	158	136	137	135	146	159	144	144	139	150	163
105	MBh†	23.6	23.8	24.1	25.9	28.3	24.6	24.7	24.6	26.4	28.8	25.5	25.5	25.0	26.9	29.2
	S/T‡	1.03	1.01	0.79	0.77	0.55	1.03	1.03	0.83	0.81	0.57	1.03	1.03	0.88	0.85	0.60
	AMPS*	12.4	12.8	12.8	13.0	13.1	12.7	12.7	12.7	12.8	12.9	12.9	12.9	12.9	13.0	13.2
	HI PR	460	460	459	466	475	462	462	460	467	476	467	467	463	469	478
	LO PR	136	137	136	146	160	139	140	137	148	161	147	147	141	151	165
115	MBh†	22.4	22.4	22.6	24.3	26.5	23.3	23.4	23.1	24.8	26.9	24.1	24.1	23.4	25.1	27.3
	S/T‡	1.03	1.03	0.82	0.79	0.56	1.03	1.03	0.86	0.84	0.59	1.03	1.03	0.91	0.88	0.61
	AMPS*	13.7	14.1	14.1	14.2	14.4	14.0	14.0	13.9	14.1	14.2	14.2	14.2	14.2	14.3	14.4
	HI PR	516	516	515	521	530	518	518	516	522	530	523	523	518	525	533
	LO PR	139	140	137	148	162	142	143	139	149	163	150	150	142	153	166

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		754	708	671	618	584	524	494	443	382	342					
2		789	747	714	668	630	582	542	495	460	403					
3		958	923	894	857	828	786	750	712	661	630					
4		1106	1080	1048	1017	992	954	924	881	838	755					
5		1255	1227	1201	1164	1138	1112	1077	1027	934	809					

† 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.

50CY501169 - 2.0

		PHX336**														
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
	AMPS*	11.9	12.4	12.5	12.6	12.7	12.2	12.3	12.3	12.4	12.5	12.5	12.5	12.5	12.6	12.8
	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
	AMPS*	13.3	13.8	13.8	13.9	14.1	13.6	13.6	13.6	13.7	13.9	13.9	13.9	13.9	14.0	14.2
	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
	AMPS*	14.8	15.2	15.3	15.4	15.6	15.1	15.1	15.1	15.2	15.4	15.3	15.3	15.3	15.5	15.6
	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	0.55	1.00	1.00	0.85	0.82	0.57
	AMPS*	16.4	16.8	16.8	17.0	17.2	16.7	16.7	16.7	16.8	17.0	16.9	16.9	16.9	17.1	17.2
	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
	AMPS*	18.1	18.5	18.5	18.7	18.9	18.4	18.4	18.4	18.5	18.7	18.7	18.7	18.6	18.8	19.0
	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	994	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		-	-	-	-	-	-	-	-	-	-					

50CY501170 - 2.0

		PHX342**														
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
	AMPS*	14.2	14.3	14.3	14.5	14.7	14.3	14.3	14.4	14.5	14.7	14.4	14.4	14.4	14.6	14.8
	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
	AMPS*	15.6	15.6	15.7	15.8	16.1	15.7	15.7	15.7	15.9	16.1	15.8	15.8	15.8	15.9	16.2
	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
	AMPS*	17.1	17.1	17.2	17.3	17.6	17.2	17.2	17.2	17.4	17.6	17.3	17.3	17.3	17.4	17.7
	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
	AMPS*	18.8	18.8	18.8	19.0	19.2	18.9	18.9	18.9	19.0	19.3	18.9	19.0	18.9	19.1	19.3
	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
	AMPS*	20.6	20.6	20.6	20.8	21.0	20.7	20.7	20.6	20.8	21.0	20.8	20.8	20.7	20.9	21.1
	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	1226	1186	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.

50CY501171 - 2.0

		PHX348**														
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
	AMPS*	15.9	16.4	16.5	16.6	16.9	16.2	16.3	16.3	16.5	16.7	16.5	16.5	16.6	16.8	17.0
	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
	AMPS*	17.4	17.9	17.9	18.1	18.4	17.7	17.7	17.8	18.0	18.2	18.0	18.0	18.0	18.2	18.5
	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
	AMPS*	19.0	19.5	19.5	19.7	20.0	19.3	19.3	19.4	19.6	19.8	19.6	19.7	19.6	19.8	20.1
	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
	AMPS*	20.8	21.2	21.3	21.5	21.8	21.1	21.1	21.1	21.3	21.6	21.4	21.4	21.4	21.6	21.9
	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
	AMPS*	22.8	23.2	23.2	23.4	23.7	23.1	23.1	23.0	23.3	23.5	23.4	23.4	23.3	23.5	23.8
	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					

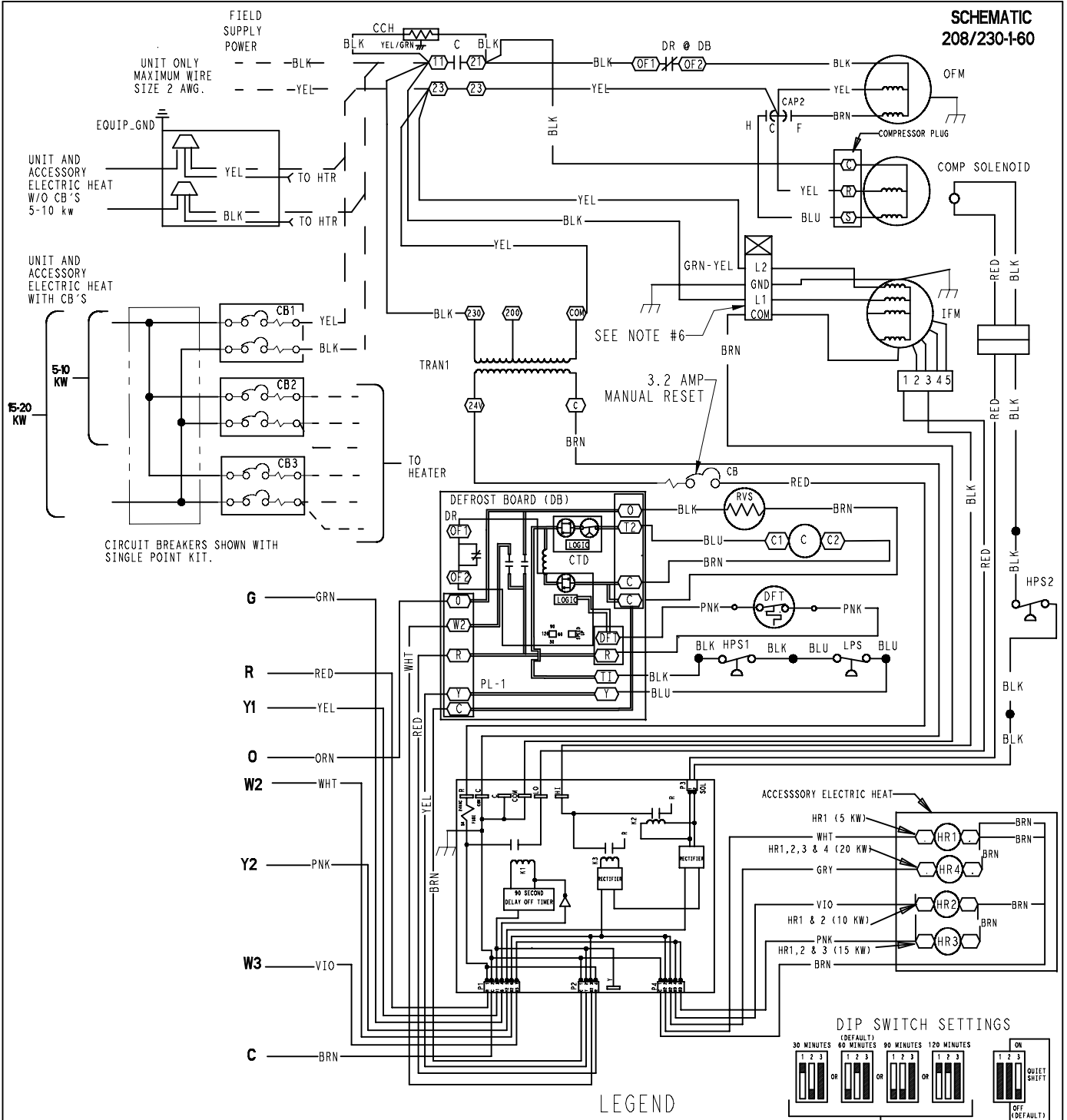
50CY501172 - 2.0

		PHX360**														
ID Airflow (SCFM)		1750					2000					2250				
		Entering Indoor Temperature - Degrees F/ Degrees C, Wet Bulb														
OD Ambient (° F/ ° C) db		57/14	62/17	63/17 ^{††}	67/19	72/22	57/14	62/17	63/17 ^{††}	67/19	72/22	57/14	62/17	63/17 ^{††}	67/19	72/22
75/24	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
	Amps *	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
85/29	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
	Amps *	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
95/35	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
	Amps *	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
105/41	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
	Amps *	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
115/46	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
	Amps *	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		1839	1807	1772	1735	1702	1667	1629	1590	1535	1460					
4		2091	2056	2023	1987	1935	1878	1811	1729	1640	1536					
5		2188	2140	2096	2039	1974	1905	1827	1745	1642	1537					

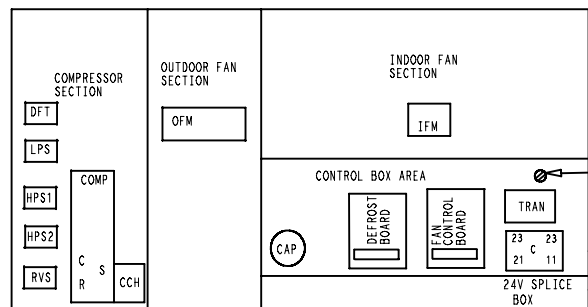
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Notes: † Net Capacity (BTU/HR / 1000)
‡ Sensible Heat Ratio (Sensible Capacity / Net Capacity)
†† At 75°F entering dry bulb - Tennessee Valley Authority [TVA] rating conditions; all others at 80°F entering dry bulb.
S/T are based on 80°F db entering air at the indoor coil. For sensible capacities at other than 80°F db, deduct 835 Btu/h per 1000 cfm of indoor coil air from MBh x S/T for each degree below 80°F, or add 835 Btu/h per 1000 cfm of indoor coil air from MBh x S/T for each degree above 80°F
* System amps is total unit amps

**SCHEMATIC
208/230-160**



UNIT COMPONENT ARRANGEMENT



- NOTES:**
1. IF ANY OF THE ORIGINAL WIRES FURNISHED ARE REPLACED, IT MUST BE REPLACED WITH TYPE 90 DEGREE C WIRE OR IT'S EQUIVALENT.
 2. SEE PRICE PAGES FOR THERMOSTAT AND SUBBASES.
 3. USE 75 DEGREE COPPER CONDUCTORS FOR FIELD INSTALLATION.
 4. DEFROST TIMER TO BE SET AT 60 MIN.
 5. RELOCATION OF SPEED TAPS MAY BE REQUIRED WHEN USING FIELD INSTALLED ELECTRIC HEATERS. CONSULT INSTALLATION INSTRUCTIONS TO DETERMINE CORRECT SPEED TAP SETTING.
 6. *DO NOT DISCONNECT PLUG UNDER LOAD.*

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