

Parts List, Tech Labels, Wiring Diagrams

PHM3 SERIES

PACKAGE HEAT PUMPS



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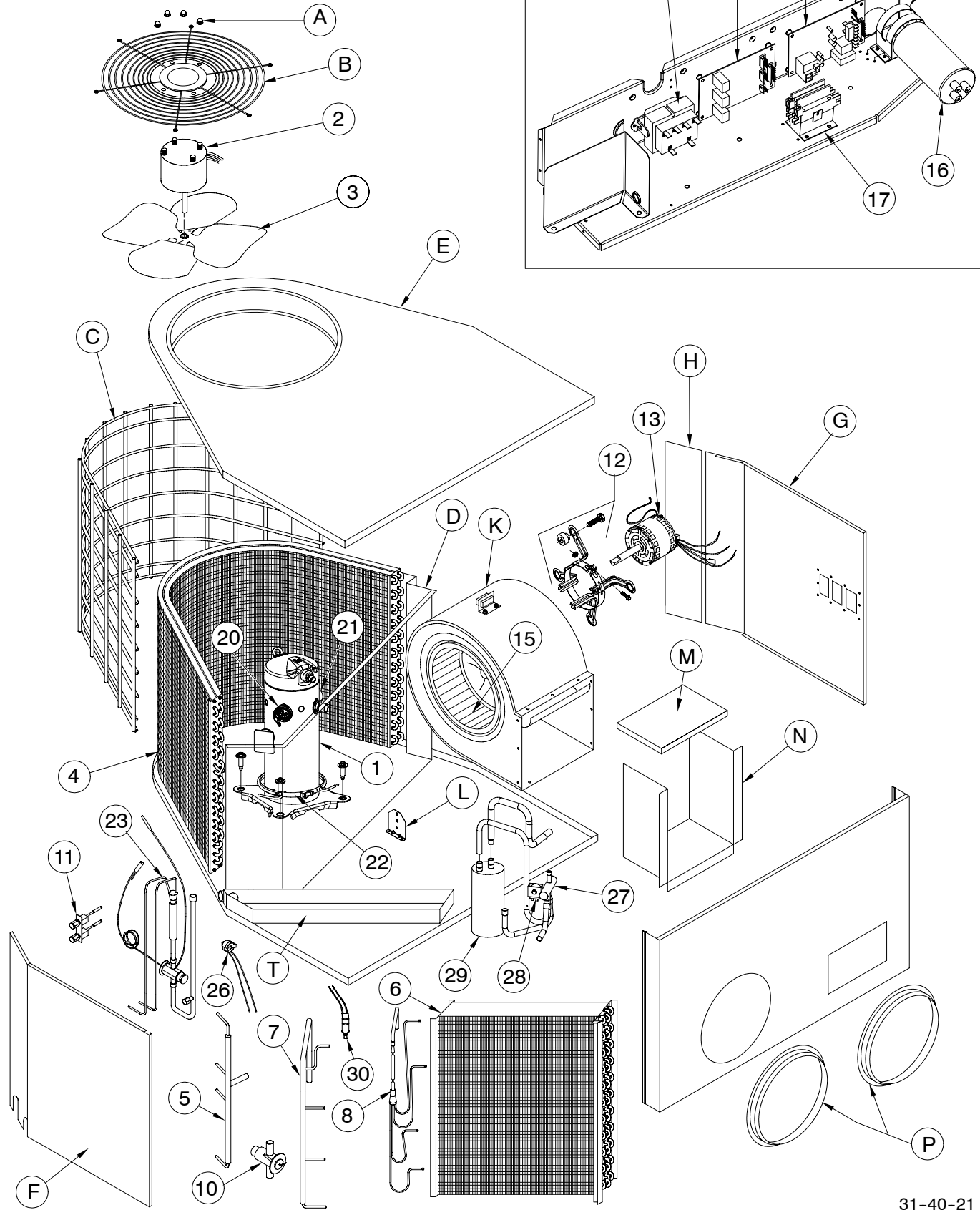
KEY NO.	DESCRIPTION	PART NUMBER	PHM324K00A1	PHM330K00A1	PHM336K00A1	PHM342K00A1	PHM348K00A1	PHM354K00A1
1	Compressor, With Plug Connector	ZR22K4PFV130	1					
1		ZR28K3PFV130	*	1				
1		ZR34K3PFV130	*	*	1			
1		ZR40K3PFV130	*	*	*	1		
1		ZRS43K4PFV130	*	*	*	*	1	
1		ZRS52K4PFV130	*	*	*	*	*	1
2	Motor, Condenser Fan	1173699	1	1				
2		1173700	*	*	1	1	1	
2		1173701	*	*	*	*	*	1
3	Fan Blade, Condenser	1173706	1	1	1	1	1	
3		1173707	*	*	*	*	*	1
4	Coil, Condenser	1173728	1					
4		1173729	*	1				
4		1173730	*	*	1			
4		1173731	*	*	*	1		
4		1173732	*	*	*	*	1	
4		1173733	*	*	*	*	*	1
5	Manifolds Included with Cond. Coil							
6	Coil, Evaporator	1173734	1					
6		1173735	*	1				
6		1173736	*	*	1			
6		1173737	*	*	*	1		
6		1173738	*	*	*	*	1	
6		1173739	*	*	*	*	*	1
7	Manifolds, Included with Evap. Coil							
8	*** Feeder Tube Assembly (Evaporator)	1174145	1					
8		1174146	*	1				
8		1174147	*	*	1			
8		1174148	*	*	*	1		
8		1174149	*	*	*	*	1	
8		1174150	*	*	*	*	*	1
9	Restrictor, Flow Control .067 (Evaporator)	1173867	1					
9	.070	1173869	*	1				
9	.082	1173870	*	*	1			
9	.086	1173872	*	*	*	1		
10	Valve, Expansion (Evaporator)	1173710	*	*	*	*	1	
10		1173711	*	*	*	*	*	1
11	Port Assembly, (Test)	1083656	1	1	1	1	1	1
12	Mount, Blower Motor Kit	1174151	1	1	1	1	1	1
13	Motor, Blower	1173682	1	1				
13		1173683	*	*	1	1		
13		1173684	*	*	*	*	1	
13		1173685	*	*	*	*	*	1
14	Motor Board	1173692	1	1	1	1		
14		1173693	*	*	*	*	1	1
15	Wheel, Blower	1173686	1	1				
15		1173687	*	*	1	1		
15		1173688	*	*	*	*	1	1
16	Capacitor, 35+5 370V	1172110	1					
16	45+5 370V	1172124	*	1				
16	50+5 370V	1172111	*	*	1			
16	55+5 370V	1172123	*	*	*	1		
16	45+10 370V	1173702	*	*	*	*	1	
16	80+10 370V	1173703	*	*	*	*	*	1
17	Contactora, 25 Amp	1173689	1	1	1			
17	40 Amp	1173690	*	*	*	1	1	1

KEY NO.	DESCRIPTION	PART NUMBER	PHM324K00A1	PHM330K00A1	PHM336K00A1	PHM342K00A1	PHM348K00A1	PHM354K00A1
18	Transformer	1171496	1	1	1	1	1	1
19	HPS (compr Loading)	1173712	*	*	*	*	1	1
20	Plug, Compressor Harness	1173694	1	1	1	1	1	1
21	Plug, Compressor Solenoid	1173695	*	*	*	*	1	1
22	CC Heater	1173704	1					
22		1173705	*	1	1	1	1	1
23	***Distributor Assembly (Condenser)	1174179	1					
23		1174180	*	1				
23		1174181	*	*	1			
23		1174182	*	*	*	1		
23		1174183	*	*	*	*	1	
23		1174184	*	*	*	*	*	1
24	Distributor Orifice (Condenser)	1173868	1					
24		1173658	*	1				
24		1173871	*	*	1			
24		1173873	*	*	*	1		
24		1173869	*	*	*	*	1	1
25	Board, Defrost	1174185	1	1	1	1	1	1
26	Switch, Defrost Temperature	1173697	1	1	1	1	1	1
27	Valve, Reversing	1173708	1	1	1			
27		1172618	*	*	*	1	1	
27		1173709	*	*	*	*	*	1
28	Coil, Reversing. Valve (24V)	1172619	1	1	1	1	1	1
29	Accumulator	1172018	1	1	1			
29		1173713	*	*	*	1		
29		1173714	*	*	*	*	1	
29		1172327	*	*	*	*	*	1
30	Switch, Low Pressure	1173698	1	1	1	1	1	1
A	Nut, Cap	1174152	4	4	4	4	4	4
B	Grille, Top	1173832	1	1	1	1	1	1
C	Grille, Inlet	1174153	1	1				
C		1174154	*	*	1	1	1	1
D	Panel Center	1174155	1	1				
D		1174156	*	*	1	1	1	1
E	Panel, Top	1174157	1	1	1	1	1	1
F	Panel, Side (Evaporator)	1174158	1	1				
F		1174159	*	*	1	1	1	1
G	Panel, Side (Blower)	1174160	1	1				
G		1174161	*	*	1	1	1	1
H	Panel, Side (OD Coil)	1174162	1					
H		1174165	*	*	*	*	1	
J	Capacitor mounting strap	1172734	1	1	1		1	
J		1172735	*	*	*	1	*	1
K	Housing, Blower	1174166	1	1				
K		1174167	*	*	1	1		
K		1174168	*	*	*	*	1	1
L	Bracket, Blower Support	1174169	1	1	1	1	1	1
M	Mounting Rail (Blower Fixed)	1174170	1	1				
M		1174171	*	*	1	1		
M		1174172	*	*	*	*	1	1
N	Mounting Rail (Side Mount)	1174173	1	1				
N		1174174	*	*	1	1		
N		1174175	*	*	*	*	1	1
P	Ring, Air Duct 14"	1174176	2	2	2	2	2	2
R	Panel, Rear Duct	1174177	1	1				
R		1174178	*	*	1	1	1	1
T	Pan, Drain	1081120	1	1	1	1	1	1

*** Included in coil assembly

PHM Series

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



31-40-21

		PHM324K00A1														
		700					800					900				
OD Ambient (°F) db	ID Airflow (SCFM)	Entering Indoor Temperature - Degrees F, Wet Bulb														
		67	62	63††	67	72	67	62	63††	67	72	67	62	63††	67	72
75	MBh†	22.1	23.0	23.5	25.2	26.5	23.3	23.8	24.1	25.5	26.6	24.3	24.3	24.4	25.8	27.4
	S/T	1.00	0.91	0.73	0.70	0.52	1.00	0.96	0.76	0.73	0.53	1.00	0.99	0.80	0.77	0.53
	AMPS*	7.4	7.4	7.4	7.4	7.5	7.7	7.7	7.7	7.7	7.8	8.0	8.0	8.0	8.1	8.1
	HI PR	167	167	168	171	174	168	168	169	172	174	169	169	170	173	174
	LO PR	68	70	71	75	78	71	72	73	76	78	74	74	74	77	78
85	MBh†	21.3	22.0	22.5	24.5	26.3	22.5	22.7	23.1	25.1	26.4	23.5	23.5	23.7	25.5	27.1
	S/T	1.00	0.93	0.74	0.71	0.52	1.00	0.98	0.77	0.74	0.55	1.00	0.99	0.81	0.78	0.56
	AMPS*	8.2	8.2	8.2	8.2	8.3	8.5	8.5	8.5	8.5	8.6	8.9	8.9	8.9	8.9	9.0
	HI PR	194	195	195	197	201	195	196	196	198	202	196	196	196	199	203
	LO PR	69	71	72	79	84	73	73	75	80	85	76	76	76	82	85
96	MBh†	20.5	20.9	21.4	23.4	26.0	21.6	21.6	22.0	24.0	26.1	22.6	22.6	22.5	24.5	26.8
	S/T	1.01	0.96	0.75	0.72	0.52	1.00	0.99	0.79	0.76	0.55	1.00	1.00	0.83	0.80	0.56
	AMPS*	9.0	9.0	9.0	9.2	9.2	9.4	9.4	9.4	9.5	9.5	9.8	9.8	9.8	9.8	9.9
	HI PR	223	223	224	227	230	225	225	225	227	231	226	226	226	228	232
	LO PR	71	72	73	80	88	75	75	75	82	89	78	78	77	84	90
105	MBh†	19.6	19.8	20.2	22.1	24.9	20.7	20.7	20.8	22.7	25.5	21.6	21.6	21.2	23.2	26.0
	S/T	1.00	0.99	0.77	0.74	0.53	1.00	0.99	0.81	0.78	0.55	1.00	1.00	0.85	0.82	0.57
	AMPS*	10.0	10.0	10.0	10.1	10.2	10.3	10.3	10.3	10.4	10.5	10.7	10.7	10.7	10.8	10.9
	HI PR	255	255	255	259	262	257	257	256	260	263	259	259	257	260	263
	LO PR	73	73	74	81	89	77	77	76	83	91	80	80	78	84	93
115	MBh†	18.6	18.7	19.0	20.9	23.6	19.6	19.7	19.5	21.4	24.2	20.5	20.5	19.9	21.9	24.6
	S/T	1.00	1.00	0.79	0.76	0.54	1.00	0.99	0.84	0.80	0.56	1.00	0.99	0.88	0.85	0.58
	AMPS*	11.0	11.0	11.0	11.1	11.3	11.4	11.4	11.4	11.5	11.7	11.8	11.8	11.7	11.8	12.0
	HI PR	289	289	289	293	297	291	291	290	295	298	293	293	291	296	298
	LO PR	75	76	75	82	90	79	79	77	83	92	82	82	78	85	94
125	MBh†	17.5	17.6	17.6	19.4	22.1	18.5	18.6	18.0	20.0	22.7	19.4	19.4	18.4	20.4	23.1
	S/T	1.00	0.99	0.82	0.79	0.55	1.00	1.00	0.87	0.83	0.57	1.00	1.00	0.91	0.88	0.60
	AMPS*	12.1	12.1	12.1	12.3	12.4	12.5	12.5	12.4	12.6	12.8	12.9	12.9	12.8	13.0	13.2
	HI PR	326	326	325	330	336	329	329	328	332	336	331	331	327	333	337
	LO PR	78	78	76	83	91	81	81	78	84	93	84	84	79	86	95
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		1078	833	783	720	681	615	489	435	378	317					
2		1170	1102	1052	1006	964	921	881	838	789	684					
3		-	-	-	-	-	-	-	-	-						
4		-	-	-	-	-	-	-	-	-						
5		-	-	-	-	-	-	-	-	-						

Notes: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
† Total capacities are net capacities. Blower heat has been subtracted
†† At TVA rating indoor condition (75° F db/ 63° F wb). All other indoor air temperatures are at 80° F db
* System amps is total unit amps

50CT500138 - 2.0

		PHM330K00A1														
		875					1000					1125				
OD Ambient (°F)	ID Airflow (SCFM)	Entering Indoor Temperature - Degrees F, Wet Bulb														
		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72
75	MBh†	27.0	28.2	28.9	30.7	32.0	28.7	29.1	29.5	31.1	32.9	29.9	29.9	29.9	31.3	33.1
	S/T	0.99	0.91	0.72	0.70	0.50	0.99	0.96	0.75	0.74	0.49	0.99	0.99	0.79	0.78	0.49
	AMPS*	9.1	9.1	9.1	9.2	9.3	9.4	9.4	9.5	9.5	9.6	9.8	9.8	9.8	9.9	9.9
	HI PR	171	171	172	175	178	172	172	173	176	178	173	173	174	177	178
	LO PR	70	72	73	77	80	73	74	75	78	80	76	76	76	79	80
85	MBh†	26.7	26.4	27.1	30.0	32.4	27.3	27.4	28.0	30.7	32.7	28.7	28.8	28.8	31.2	32.9
	S/T	0.99	0.94	0.74	0.70	0.52	0.99	0.99	0.77	0.74	0.54	0.99	0.99	0.81	0.78	0.56
	AMPS*	10.0	10.0	10.0	10.1	10.2	10.4	10.4	10.4	10.4	10.5	10.7	10.7	10.7	10.8	10.9
	HI PR	198	199	199	201	205	199	200	200	202	206	200	200	200	203	207
	LO PR	71	73	74	81	86	75	75	76	82	87	78	78	78	83	87
95	MBh†	24.5	24.8	25.4	28.1	31.7	25.9	26.0	26.2	29.0	32.3	27.2	27.3	26.9	29.7	32.6
	S/T	0.99	0.97	0.76	0.72	0.52	0.99	0.99	0.79	0.76	0.54	0.99	0.99	0.83	0.80	0.56
	AMPS*	10.9	10.9	10.9	11.1	11.2	11.3	11.3	11.3	11.5	11.5	11.7	11.7	11.7	11.8	11.9
	HI PR	227	227	228	234	234	229	229	229	231	235	230	230	230	232	236
	LO PR	73	74	75	82	89	77	77	77	84	91	80	80	79	85	92
105	MBh†	23.2	23.3	23.7	26.3	30.0	24.6	24.7	24.5	27.1	30.9	25.8	25.8	25.0	27.7	31.6
	S/T	0.99	0.99	0.78	0.75	0.53	0.99	0.99	0.82	0.79	0.55	0.99	0.99	0.86	0.83	0.57
	AMPS*	12.0	12.0	12.0	12.1	12.4	12.3	12.3	12.3	12.5	12.6	12.8	12.8	12.7	12.9	13.0
	HI PR	259	259	259	263	266	261	261	260	264	267	263	263	261	264	267
	LO PR	75	75	76	83	91	79	79	78	85	93	82	82	80	86	95
115	MBh†	21.8	21.9	21.9	24.4	28.0	23.2	23.3	22.6	25.1	28.9	24.3	24.4	23.1	25.7	29.5
	S/T	0.99	0.99	0.81	0.77	0.54	0.99	0.99	0.85	0.82	0.56	0.99	0.99	0.90	0.86	0.59
	AMPS*	13.1	13.1	13.1	13.3	13.5	13.5	13.5	13.5	13.6	13.9	14.0	14.0	13.9	14.0	14.3
	HI PR	293	293	293	297	301	295	295	294	299	302	297	297	295	300	302
	LO PR	77	77	77	83	92	81	81	79	85	94	83	84	80	87	96
125	MBh†	20.3	20.4	19.8	22.5	26.0	21.6	21.7	20.4	23.2	26.7	22.8	22.8	20.9	23.7	27.3
	S/T	0.99	0.99	0.85	0.80	0.55	0.99	0.99	0.90	0.85	0.58	0.99	0.99	0.95	0.90	0.61
	AMPS*	14.4	14.4	14.3	14.6	14.8	14.8	14.8	14.7	14.9	15.1	15.2	15.2	15.1	15.3	15.5
	HI PR	330	330	329	334	340	333	333	330	336	340	335	335	331	337	341
	LO PR	80	80	78	84	93	83	83	80	86	95	85	86	81	88	96
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		-	-	-	-	-	-	-	-	-						
2		1170	1102	1052	1006	964	921	881	838	789	684					
3		1266	1221	1184	1152	1121	1089	1047	1017	985	951					
4		-	-	-	-	-	-	-	-	-						
5		-	-	-	-	-	-	-	-	-						

Notes: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
† Total capacities are net capacities. Blower heat has been subtracted
†† At TVA rating indoor condition (75° F db/ 63° F wb). All other indoor air temperatures are at 80° F db
* System amps is total unit amps

50CT500176 - 2.0

		PHM336K00A1															
		1050					1200					1350					
OD Ambient (°F)	ID Airflow (SCFM)	Entering Indoor Temperature - Degrees F, Wet Bulb															
		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	
75	MBh†	33.1	35.1	35.8	38.8	40.9	33.7	36.2	36.8	39.6	41.5	33.7	37.3	37.5	40.0	41.8	
	S/T	1.00	0.91	0.72	0.69	0.55	1.08	0.95	0.75	0.72	0.52	1.08	0.98	0.79	0.76	0.53	
	AMPS*	11.2	11.5	11.5	11.5	11.5	11.5	11.8	11.8	11.9	12.0	11.9	12.2	12.2	12.2	12.3	
	HI PR	168	168	169	172	175	169	169	170	173	175	170	170	171	174	175	
	LO PR	68	70	72	76	79	72	72	73	77	78	74	74	74	77	78	
86	MBh†	32.5	33.3	34.0	37.1	40.5	32.7	34.4	34.9	38.1	40.9	33.4	35.7	35.6	38.9	41.4	
	S/T	1.00	0.93	0.73	0.71	0.52	1.00	0.97	0.77	0.74	0.54	1.00	0.98	0.80	0.78	0.55	
	AMPS*	12.5	12.6	12.6	12.7	12.8	12.8	12.9	12.9	13.0	13.1	13.2	13.3	13.3	13.4	13.5	
	HI PR	195	196	196	198	202	196	197	197	199	203	197	197	197	200	204	
	LO PR	70	71	73	79	84	74	74	75	81	85	77	77	77	82	86	
95	MBh†	31.2	31.5	32.1	35.1	39.4	31.4	32.7	32.9	36.0	40.3	32.3	34.0	33.5	36.7	40.9	
	S/T	1.00	0.96	0.75	0.72	0.52	1.00	0.98	0.79	0.76	0.54	1.00	0.98	0.83	0.80	0.56	
	AMPS*	13.8	13.7	13.8	13.9	14.1	14.2	14.1	14.1	14.2	14.4	14.6	14.5	14.5	14.6	14.7	
	HI PR	224	224	225	228	231	226	226	226	228	232	227	227	227	229	233	
	LO PR	72	72	74	80	88	75	75	76	82	89	78	79	77	84	90	
105	MBh†	29.4	29.6	30.1	33.0	37.2	30.1	31.1	30.8	33.8	38.1	30.4	32.3	31.4	34.4	38.8	
	S/T	1.00	0.98	0.77	0.74	0.53	1.00	0.98	0.81	0.78	0.55	1.00	0.98	0.85	0.82	0.57	
	AMPS*	15.3	15.0	15.0	15.2	15.4	15.7	15.4	15.4	15.5	15.7	16.1	15.8	15.8	15.9	16.1	
	HI PR	256	256	256	260	263	258	258	257	261	264	260	260	258	261	264	
	LO PR	74	74	75	81	90	77	77	77	83	92	80	80	78	85	93	
115	MBh†	28.4	29.3	29.4	32.4	34.8	28.7	29.4	28.7	31.5	35.6	29.4	30.5	29.3	32.1	36.3	
	S/T	1.00	0.99	0.82	0.79	0.54	1.00	0.98	0.84	0.81	0.56	1.00	0.98	0.88	0.85	0.59	
	AMPS*	16.9	16.6	16.6	16.8	16.8	17.3	16.8	16.8	16.9	17.1	17.7	17.2	17.2	17.3	17.5	
	HI PR	290	290	290	294	298	292	292	291	296	299	294	294	292	297	299	
	LO PR	76	76	76	82	91	79	79	77	84	93	82	82	79	85	94	
125	MBh†	28.0	29.1	28.7	31.8	32.4	28.3	27.4	29.0	30.7	33.1	28.2	28.7	29.2	29.8	33.7	
	S/T	1.00	0.98	0.80	0.77	0.55	1.00	0.98	0.92	0.87	0.58	1.00	0.98	0.98	0.89	0.60	
	AMPS*	18.6	18.2	18.1	18.3	18.3	19.0	18.4	18.5	18.6	18.7	19.4	18.8	18.8	18.8	19.0	
	HI PR	327	327	326	331	337	330	330	327	333	337	332	332	328	334	338	
	LO PR	78	78	77	83	92	81	81	78	85	93	84	84	80	86	95	
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		1420	1288	1209	1170	1153	1106	1065	1011	967	910						
2		1497	1438	1387	1334	1294	1292	1247	1208	1171	1117						
3		-	-	-	-	-	-	-	-	-	-						
4		-	-	-	-	-	-	-	-	-	-						
5		-	-	-	-	-	-	-	-	-	-						

Notes: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
† Total capacities are net capacities. Blower heat has been subtracted
†† At TVA rating indoor condition (75° F db/ 63° F wb), All other indoor air temperatures are at 80° F db
* System amps is total unit amps

50CT500178 - 2.0

		PHM342K00A1															
		1225					1400					1575					
OD Ambient (°F)	ID Airflow (SCFM)	Entering Indoor Temperature - Degrees F, Wet Bulb															
		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	
75	MBh†	37.9	38.8	40.2	40.9	43.7	37.7	40.3	39.6	43.6	43.9	37.6	40.1	40.2	42.5	44.7	
	S/T	1.00	0.99	0.72	0.71	0.51	1.22	0.99	0.76	0.73	0.53	1.22	0.95	0.78	0.77	0.55	
	AMPS*	13.2	14.2	14.2	14.1	15.6	13.5	14.4	14.4	14.4	14.4	14.8	14.7	15.0	14.9	14.8	
	HI PR	171	171	172	175	178	172	172	173	176	178	173	173	174	177	178	
	LO PR	69	71	73	77	80	73	73	74	78	79	75	75	75	78	79	
86	MBh†	36.1	36.7	38.5	40.1	42.7	37.2	38.6	39.0	40.6	43.6	37.4	39.8	39.6	42.2	44.6	
	S/T	1.00	0.99	0.73	0.71	0.52	1.00	0.99	0.77	0.76	0.55	1.00	0.99	0.81	0.79	0.57	
	AMPS*	14.6	14.6	14.9	15.0	15.5	14.9	15.1	15.1	15.8	15.0	15.4	15.4	15.4	15.5	15.6	
	HI PR	198	199	199	201	205	199	200	200	202	206	200	200	200	203	207	
	LO PR	71	72	74	80	85	75	75	76	82	86	78	78	78	83	87	
95	MBh†	35.1	35.9	36.7	39.3	42.2	36.6	37.2	37.4	40.0	42.4	37.0	38.1	38.5	40.5	42.8	
	S/T	1.00	1.00	0.75	0.72	0.53	1.00	1.00	0.79	0.76	0.55	1.00	0.99	0.84	0.81	0.58	
	AMPS*	16.1	15.9	16.0	16.1	16.2	16.4	16.3	16.3	16.4	16.5	16.7	16.6	16.6	16.8	16.9	
	HI PR	227	227	228	231	234	229	229	229	231	235	230	230	230	232	236	
	LO PR	73	73	75	81	89	76	76	77	83	90	79	80	78	85	91	
106	MBh†	32.8	33.9	34.3	36.8	39.3	34.8	35.2	34.9	37.4	39.7	33.9	34.1	33.4	36.0	39.9	
	S/T	1.00	0.99	0.77	0.74	0.54	1.00	1.00	0.81	0.79	0.56	1.00	0.99	0.86	0.84	0.57	
	AMPS*	17.8	17.2	17.2	17.4	17.6	17.4	17.6	17.6	17.7	17.9	17.9	17.8	17.8	18.0	18.3	
	HI PR	259	259	259	263	266	261	261	260	264	267	263	263	261	264	267	
	LO PR	75	75	76	82	91	78	78	78	84	93	81	81	79	86	94	
115	MBh†	31.3	32.2	32.3	34.8	36.0	31.3	31.7	31.3	33.7	37.6	32.1	32.7	30.5	32.7	36.6	
	S/T	1.00	1.00	0.79	0.76	0.53	1.00	0.99	0.85	0.82	0.58	1.00	0.99	1.01	1.01	0.61	
	AMPS*	19.6	18.7	18.7	19.0	18.8	19.9	20.5	19.0	19.2	19.5	21.0	20.7	20.7	21.0	21.3	
	HI PR	293	293	293	297	301	295	295	294	299	302	297	297	295	300	302	
	LO PR	77	77	77	83	92	80	80	78	85	94	83	83	80	86	95	
125	MBh†	28.0	28.6	27.4	31.3	33.0	28.2	28.8	27.6	30.0	32.9	29.0	29.7	27.9	30.6	32.8	
	S/T	1.00	1.00	0.90	0.80	0.59	1.00	0.99	0.90	0.87	0.59	1.00	0.99	0.97	0.92	0.55	
	AMPS*	21.6	21.3	21.2	20.9	22.0	20.4	20.5	20.3	20.7	22.1	21.3	21.3	21.1	21.1	21.3	
	HI PR	330	330	329	334	340	333	333	330	336	340	335	335	331	337	341	
	LO PR	79	79	78	84	93	82	82	79	86	94	85	85	81	87	96	
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		-	-	-	-	-	-	-	-	-	-						
2		-	-	-	-	-	-	-	-	-	-						
3		1559	1520	1480	1438	1401	1359	1318	1268	1218	1181						
4		1694	1657	1620	1583	1550	1514	1474	1437	1389	-						
5		-	-	-	-	-	-	-	-	-	-						

Notes: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
† Total capacities are net capacities. Blower heat has been subtracted
†† At TVA rating indoor condition (75° F db/ 63° F wb), All other indoor air temperatures are at 80° F db
* System amps is total unit amps

50CT500179 - 2.0

		PHM348K00A1															
		1400					1600					1800					
OD Ambient (°F)	ID Airflow (SCFM)	Entering Indoor Temperature - Degrees F, Wet Bulb															
		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	
75	MBh†	42.4	43.6	44.3	47.7	52.3	44.4	44.8	45.3	48.7	53.4	46.0	46.0	46.1	49.5	54.3	
	S/T	0.98	0.91	0.72	0.70	0.51	0.98	0.95	0.76	0.73	0.53	0.98	0.98	0.79	0.77	0.55	
	AMPS*	15.6	15.6	15.6	15.7	15.9	15.9	15.9	15.9	16.1	16.2	16.3	16.3	16.3	16.4	16.6	
	HI PR	195	196	196	200	205	197	197	198	202	207	199	199	199	203	208	
	LO PR	72	74	75	82	90	76	76	77	84	92	79	79	79	85	94	
85	MBh†	41.2	42.0	42.6	45.9	50.5	43.0	43.2	43.6	46.9	51.5	44.5	44.6	44.4	47.7	52.3	
	S/T	0.98	0.92	0.73	0.71	0.52	0.98	0.97	0.77	0.75	0.54	0.98	0.98	0.80	0.78	0.56	
	AMPS*	17.1	17.1	17.1	17.2	17.4	17.4	17.4	17.4	17.5	17.7	17.8	17.8	17.8	17.9	18.1	
	HI PR	223	224	224	228	234	225	225	226	230	235	227	227	226	231	236	
	LO PR	74	75	76	83	91	77	78	78	85	93	80	80	80	86	95	
95	MBh†	39.8	40.4	40.9	44.1	48.5	41.6	41.6	41.8	45.0	49.4	43.0	43.1	42.5	45.7	50.2	
	S/T	0.98	0.94	0.75	0.72	0.52	0.98	0.98	0.78	0.76	0.54	0.98	0.98	0.82	0.80	0.57	
	AMPS*	18.7	18.7	18.7	18.9	19.0	19.1	19.1	19.1	19.2	19.3	19.5	19.5	19.4	19.6	19.7	
	HI PR	253	254	255	259	264	256	256	256	260	266	258	258	257	261	267	
	LO PR	75	76	77	84	92	79	79	79	86	94	82	82	81	87	96	
105	MBh†	38.4	38.7	39.1	42.2	46.4	40.1	40.1	40.0	43.0	47.3	41.4	41.5	40.6	43.7	48.0	
	S/T	0.98	0.96	0.76	0.74	0.53	0.98	0.98	0.80	0.78	0.55	0.98	0.98	0.84	0.82	0.58	
	AMPS*	20.5	20.5	20.5	20.6	20.8	20.9	20.9	20.8	21.0	21.1	21.3	21.3	21.2	21.3	21.5	
	HI PR	287	288	288	292	298	290	290	289	294	299	292	292	290	295	300	
	LO PR	77	78	78	85	93	81	81	80	87	95	84	84	82	88	97	
115	MBh†	36.9	37.0	37.3	40.2	44.3	38.5	38.5	38.1	41.0	45.1	39.8	39.8	38.7	41.6	45.7	
	S/T	0.98	0.98	0.78	0.75	0.54	0.98	0.98	0.82	0.80	0.56	0.98	0.98	0.86	0.84	0.59	
	AMPS*	22.4	22.4	22.4	22.6	22.7	22.8	22.8	22.8	22.9	23.1	23.2	23.2	23.1	23.3	23.4	
	HI PR	324	324	324	328	334	326	326	326	330	335	328	328	326	331	336	
	LO PR	79	79	80	86	95	82	83	81	88	96	85	86	83	89	98	
125	MBh†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	S/T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	AMPS*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	HI PR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	LO PR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Air Delivery in CFM - Dry Coil - No Filter (Add .05 Static Press for Wet Coil)																	
Speed Tap		External Static Pressure (Inch Water Coil)															
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0						
1		1213	1028	909	825	762	667	613	-	-	-						
2		1299	1226	1157	1094	1037	961	915	841	769	719						
3		1698	1652	1601	1542	1494	1442	1390	1324	1265	1201						
4		1974	1924	1859	1813	1761	1706	1651	1602	1538	1485						
5		-	-	-	-	-	-	-	-	-	-						

Notes: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
† Total capacities are net capacities. Blower heat has been subtracted.
†† At TVA rating indoor condition (75° F db/ 63° F wb), All other indoor air temperatures are at 80° F db
* System amps is total unit amps

50CT500183 - 2.0

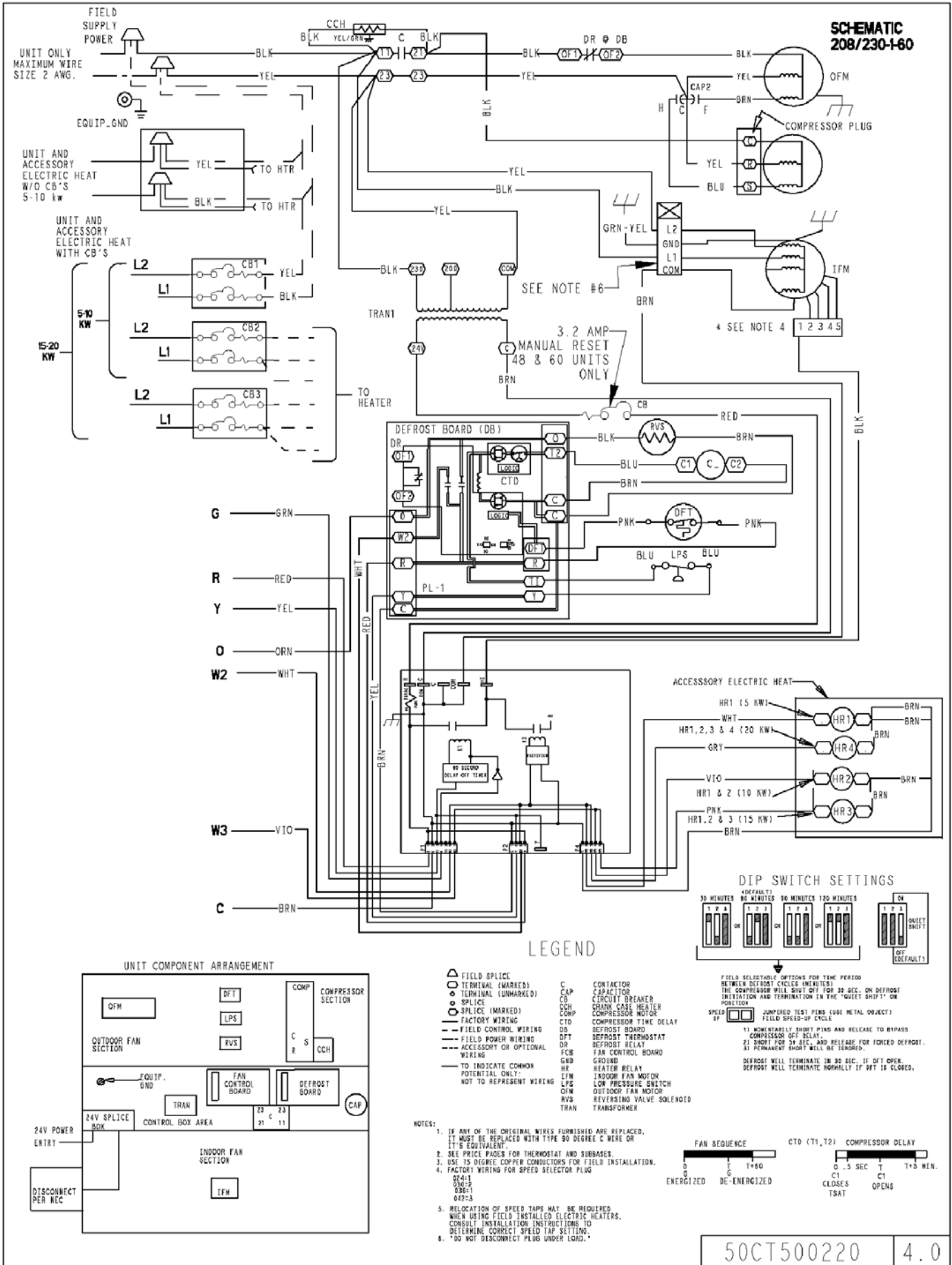
		PHM354K00A1															
		1750					1875					2000					
OD Ambient (°F)	ID Airflow (SCFM)	Entering Indoor Temperature - Degrees F, Wet Bulb															
		67	62	63††	67	72	67	62	63††	67	72	67	62	63††	67	72	
75	MBh†	51.5	52.1	52.8	56.7	62.0	52.7	52.8	53.4	57.2	62.6	55.5	55.5	54.8	58.6	64.0	
	S/T	0.95	0.92	0.73	0.71	0.51	0.95	0.94	0.75	0.73	0.52	0.95	0.95	0.80	0.78	0.55	
	AMPS*	18.7	18.7	18.8	19.2	19.8	19.1	19.1	19.2	19.6	20.1	19.8	19.8	19.7	20.1	20.6	
	HI PR	193	193	194	198	203	194	194	194	198	204	197	197	196	200	206	
	LO PR	74	75	76	82	91	76	76	77	83	92	81	81	79	86	94	
85	MBh†	49.7	49.9	50.5	54.1	59.2	50.7	50.8	51.0	54.6	59.7	53.3	53.4	52.2	55.9	60.9	
	S/T	0.95	0.94	0.74	0.72	0.52	0.95	0.95	0.76	0.74	0.53	0.95	0.95	0.82	0.80	0.56	
	AMPS*	20.6	20.6	20.6	21.0	21.5	20.9	20.9	20.9	21.3	21.9	21.6	21.6	21.4	21.8	22.4	
	HI PR	220	220	221	225	230	221	221	221	225	231	224	224	223	227	232	
	LO PR	76	76	77	83	92	78	78	78	84	93	83	83	80	87	95	
95	MBh†	47.8	47.8	48.1	51.5	56.3	48.7	48.8	48.6	52.0	56.8	51.2	51.2	49.7	53.1	57.9	
	S/T	0.95	0.95	0.76	0.74	0.53	0.95	0.95	0.78	0.76	0.54	0.95	0.95	0.84	0.83	0.58	
	AMPS*	22.6	22.6	22.6	23.0	23.5	23.0	23.0	23.0	23.3	23.8	23.6	23.6	23.4	23.8	24.3	
	HI PR	250	250	250	254	260	251	251	251	255	260	254	254	252	256	262	
	LO PR	78	78	78	85	93	79	80	79	86	94	84	84	81	88	96	
105	MBh†	45.8	45.9	46.8	49.0	53.5	46.7	46.8	46.2	49.4	53.9	48.9	49.0	47.2	50.4	54.8	
	S/T	0.95	0.95	0.78	0.76	0.54	0.95	0.95	0.80	0.78	0.55	0.95	0.95	0.87	0.85	0.59	
	AMPS*	24.9	24.9	24.8	25.2	25.6	25.2	25.2	25.2	25.5	26.0	25.8	25.8	25.6	26.0	26.4	
	HI PR	283	283	282	286	292	284	284	283	287	293	287	287	284	289	294	
	LO PR	79	80	79	86	94	81	81	80	87	95	86	86	82	89	97	
115	MBh†	43.8	43.8	43.4	46.3	50.4	44.6	44.7	43.7	46.7	50.6	46.6	46.7	44.7	47.6	51.4	
	S/T	0.95	0.95	0.80	0.78	0.55	0.95	0.95	0.82	0.80	0.56	0.95	0.95	0.89	0.88	0.61	
	AMPS*	27.3	27.3	27.3	27.6	28.0	27.7	27.7	27.6	27.9	28.3	28.3	28.3	28.1	28.4	28.8	
	HI PR	318	318	317	321	327	319	319	318	322	327	322	322	319	324	328	
	LO PR	81	82	80	87	96	83	83	81	88	97	88	88	83	90	99	
125	MBh†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	S/T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	AMPS*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	HI PR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	LO PR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Air Delivery in CFM - Dry Coil - No Filter (Add .05 Static Press for Wet Coil)																	
Speed Tap		External Static Pressure (Inch Water Coil)															
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0						
1		1389	1292	1228	1159	1104	1043	988	940	873	828						
2		1461	1417	1364	1296	1243	1180	1129	1083	1026	978						
3		2050	2008	1965	1923	1874	1828	1783	1734	1680	1622						
4		2179	2132	2093	2049	2011	1968	1921	1877	1830	1760						
5		-	-	-	-	-	-	-	-	-	-						

Notes: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
† Total capacities are net capacities. Blower heat has been subtracted.
†† At TVA rating indoor condition (75° F db/ 63° F wb), All other indoor air temperatures are at 80° F db
* System amps is total unit amps

50CT500195 - 2.0

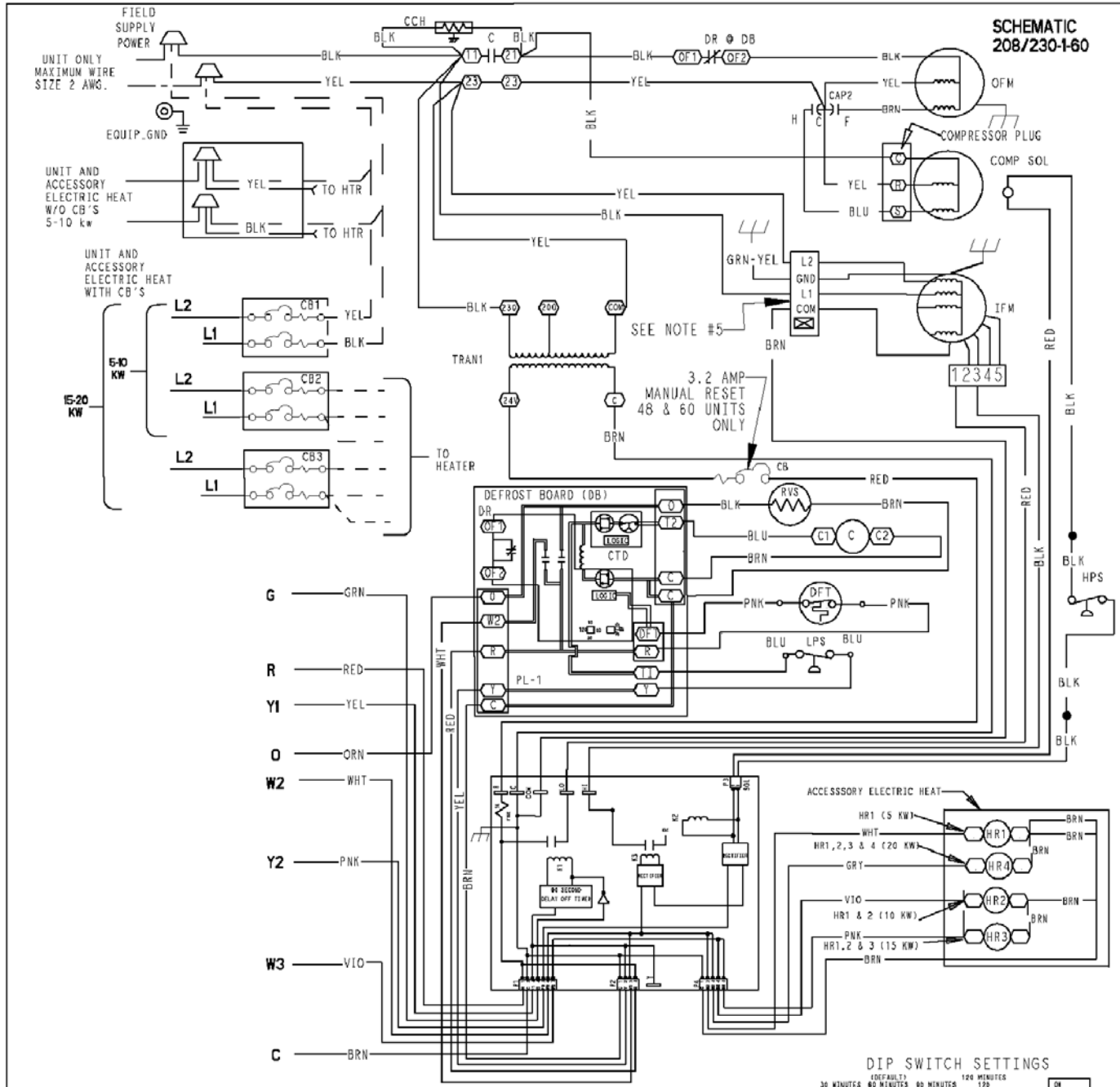
PHM324 - 42

**SCHEMATIC
208/230-160**

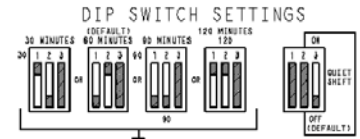


PHM48 - 54

SCHEMATIC
208/230-1-60



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



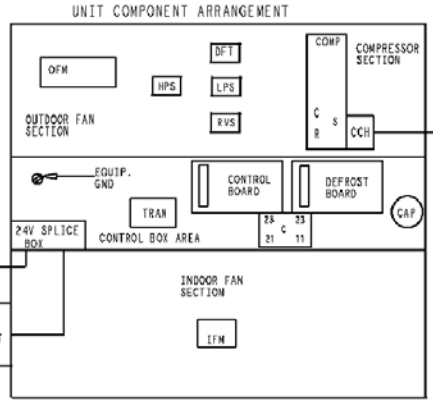
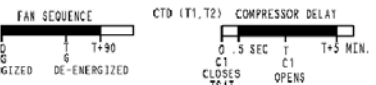
LEGEND

- Δ 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 CAPACITOR
- CB CIRCUIT BREAKER
- CCH CORK CASE HEATER
- COMP COMPRESSOR MOTOR
- CTD COMPRESSOR TIME DELAY
- DB DEFROST BOARD
- DR DEFROST RELAY
- FCS FAN CONTROL BOARD
- GND GROUND
- HR HEATER RELAY
- IFM INDOOR FAN MOTOR
- LPS LOW PRESSURE SWITCH
- HPS HIGH PRESSURE SWITCH
- OFM OUTDOOR FAN MOTOR
- RVS REVERSING VALVE SOLENOID
- TRAN TRANSFORMER

FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES): THE COMPRESSOR WILL SHUT OFF FOR 30 SEC. ON DEFROST INITIATION AND TERMINATION IN THE 'QUIET SHIFT' ON POSITION

DEFROST TERMINATION DELAY: 1) MOMENTARILY SHORT (PUSH AND RELEASE TO BYPASS COMPRESSOR OFF DELAY). 2) SHORT FOR 30 SEC. AND RELEASE FOR FORCED DEFROST. 3) PERMANENT SHORT WILL BE IGNORED. DEFROST WILL TERMINATE IN 30 SEC. IF DFT IS CLOSED. DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.

- 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 15 DEGREE COPPER CONDUCTORS FOR FIELD INSTALLATION.
 - RELOCATION OF SPEED TAP MAY BE REQUIRED WHEN USING FIELD INSTALLED ELECTRIC HEATERS. CONSULT INSTALLATION INSTRUCTIONS TO DETERMINE CORRECT SPEED TAP SETTING.
 - DO NOT DISCONNECT PLUG WHILE UNDER LOAD.



50CT500221 4.0