Parts List, Charging Chart, Tech Labels, Wiring Diagrams

PGF3 1Phase

24-36 (A2) SERIES
42-54 (A1) SERIES

PACKAGE GAS ELECTRIC UNITS

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PGF3 24 – 36 1 Phase PARTS LIST									
KEY NO.	DESCRIPTION	FAST PART NO.	PGF324040K00A2 PGF324040K01A2	PGF324060K00A2 PGF324060K01A2	PGF330060K00A2 PGF330060K01A2	PGF330080K00A2 PGF330080K01A2	PGF336060K00A2 PGF336060K01A2	PGF336080K00A2 PGF336080K01A2	PGF336100K00A2 PGF336100K01A2
1	COMP ZR21KA-PFV-130	ZR21KAPFV130	1	1	*	*	*	*	*
1	COMP ZR26KA-PFV-130	ZR26KAPFV130	*	*	1	1	*	*	*
1	COMP ZR32KA-PFV-130	ZR32KAPFV130	*	*	*	*	1	1	1
2	MOTOR,OUTDOOR	1173699	1	1	1	1	*	*	*
2	MOTOR,OUTDOOR	1175625	*	*	*	*	1	1	1
3	PROPELLER,FAN	1173706	1	1	1	1	1	1	1
4	COIL ASY	1174221	1	1	*	*	*	*	*
4	COIL ASY	1175762	*	*	1	1	*	*	*
4	COIL ASY	1175761	*	*	*	*	1	1	1
6	TAIL PIECE KIT	1174325	1	1	1	1	1	1	1
7	DISTRIBUTOR ASY	1174240	1	1	*	*	*	*	*
7	DISTRIBUTOR ASY	1174446	*	*	1	1	*	*	*
7	DISTRIBUTOR ASY	1174242	*	*	*	*	1	1	1
8	BAFFLE, LOW NOX ONLY	1014109	2	3	3	4	3	4	4
9	KIT, BLOWER MTR MTG	1174295	1	1	1	1	1	1	1
10	WHEEL,BLOWER	1173813	1	1	1	1	*	*	*
10	WHEEL,BLOWER	1171742	*	*	*	*	1	1	1
11	MOTOR,BLOWER	1173816	1	1	1	1	*	*	*
11	MOTOR,BLOWER	1173817	*	*	*	*	1	1	1
12	CAPACITOR	1172110	1	1	*	*	*	*	*
12	CAPACITOR	1172124	*	*	1	1	*	*	*
12	CAPACITOR	1172111	*	*	*	*	1	1	1
13	CONTACTOR	1173689	1	1	1	1	1	1	1
15	TRANSFORMER	1173691	1	1	1	1	1	1	1
16	BOARD	1173823	1	1	1	1	1	1	1
17	COIL ASY,FORMED	1175731	1	1	*	*	*	*	*
17	COIL ASY,FORMED	1175732	*	*	1	1	*	*	*
17	COIL ASY,FORMED	1175733	*	*	*	*	1	1	1
18	PLUG ASY	1173826	1	1	1	1	1	1	1
20	VALVE,SERVICE	1083939	1	1	1	1	1	1	1
23	HEATER,CRANK	1173824	1	1	1	1	1	1	1
27	SWITCH,LIMIT	1065207	1	*	*	*	*	*	*
27	SWITCH,LIMIT	1065638	*	1	1	*	*	*	*
27	SWITCH,LIMIT	1066638	*	*	*	1	*	*	*
27	SWITCH,LIMIT	1095242	*	*	*	*	1	1	1
28	GASKET	1085646	1	1	1	1	1	1	1
29	IGNITER ASY	1173831	1	1	1	1	1	1	1
30	TUBE SENSOR 3/16" ID	1013088	1	1	1	1	1	1	1
31	BURNER ASY	1009178	1	*	*	*	*	*	*
31	BURNER ASY	1008724	*	1	1	*	1	*	*
31	BURNER ASY	1008725	*	*	*	1	*	1	1
32	SWITCH,ROLLOUT	1013102	1	1	1	1	1	1	1
33	IGNITER ASY	1173829	1	*	*	*	*	*	*
33	IGNITER ASY	1173828	*	1	1	1	1	1	1
34	SENSOR, FLAME	1173830	*	1	1	1	1	1	1
35	VALVE,GAS	1173845	1	1	1	1	1	1	1
37	MANIFOLD ASY	1084112	1	*	*	*	*	*	*
37	MANIFOLD ASY	1084113	*	1	1	*	1	*	*

PGF3 24 – 36 1 Phase PARTS LIST (continued)									
KEY NO.	DESCRIPTION	FAST PART NO.	PGF324040K00A2 PGF324040K01A2	PGF324060K00A2 PGF324060K01A2	PGF330060K00A2 PGF330060K01A2	PGF330080K00A2 PGF330080K01A2	PGF336060K00A2 PGF336060K01A2	PGF336080K00A2 PGF336080K01A2	PGF336100K00A2 PGF336100K01A2
37	MANIFOLD ASY	1084114	*	*	*	1	*	1	1
38	SWITCH,LIMIT	1173822	1	1	1	1	1	1	1
39	BOX,COLLECTOR	1172353	1	*	*	*	*	*	*
39	BOX,COLLECTOR	1011046	*	1	1	1	1	*	*
39	BOX,COLLECTOR	1172352	*	*	*	*	*	1	*
39	BOX,COLLECTOR	1011052	*	*	*	*	*	*	1
40	GASKET	1093661	1	1	1	*	1	*	*
40	GASKET	1093662	*	*	*	1	*	1	1
41	HEAT EXCHANGER	1084263	1	*	*	*	*	*	*
41	HEAT EXCHANGER	1012407	*	1	1	*	1	*	*
41	HEAT EXCHANGER	1011364	*	*	*	1	*	1	1
42	PANEL ASY	1084272	1	*	*	*	*	*	*
42	PANEL ASY	1012410	*	1	1	*	1	*	*
42	PANEL ASY	1008072	*	*	*	1	*	1	1
44	GASKET	1110691	1	1	1	1	1	1	1
45	BLOWER ASY	1110008	1	1	1	1	1	1	1
46	BOARD	1173838	1	1	1	1	1	1	1
56	SWITCH,PRESSURE	1172197	1	1	1	1	1	1	1
57	RAIL,BASE	1098870	2	2	2	2	2	2	2
58	RAIL,BASE	1098868	2	2	2	2	2	2	2
59	GASKET	2480904	2	*	*	*	*	*	*
59	GASKET	2480905	*	2	2	*	2	*	2
59	GASKET	2480906	*	*	*	2	*	2	*
A	PANEL ASY	1174741	1	1	1	1	1	1	1
B	GRILLE,OUTLET	1173832	1	1	1	1	1	1	1
C	GRILLE ASY	1097527	1	1	*	*	*	*	*
C	GRILLE ASY	1097528	*	*	1	1	1	1	1
D	PANEL ASY	1114527	1	1	*	*	*	*	*
E	PANEL ASY	1114528	1	1	*	*	*	*	*
E	PANEL ASY	1175533	*	*	1	1	1	1	1
F	NUT, LOCK	1172740	4	4	4	4	4	4	4
G	PANEL ASY	1114518	1	1	*	*	*	*	*
G	PANEL ASY	1111015	*	*	1	1	1	1	1
H	PLATE	1085473	1	1	1	1	1	1	1
J	HOUSING BLOWER	1174166	1	1	1	1	*	*	*
J	HOUSING BLOWER	1174167	*	*	*	*	1	1	1
K	PLATE, EVAP DRIP	1084124	1	1	*	*	*	*	*
K	PLATE, EVAP DRIP	1096955	*	*	1	1	1	1	1
L	ELBOW	1096959	1	1	1	1	1	1	1
M	COVER	1096970	1	1	1	1	1	1	1
MM	ROD	1096969	1	1	1	1	1	1	1
N	SHIELD	1084198	1	*	*	*	*	*	*
N	SHIELD	1084200	*	1	*	*	1	*	*
N	SHIELD	1084202	*	*	*	1	*	1	1
NN	SHIELD	1084199	1	*	*	*	*	*	*
NN	SHIELD	1084201	*	1	1	*	1	*	*
NN	SHIELD	1084203	*	*	*	1	*	1	1
P	PANEL ASY	1174308	1	1	*	*	*	*	*

PGF3 24 – 36 1 Phase PARTS LIST (continued)									
KEY NO.	DESCRIPTION	FAST PART NO.	PGF324040K00A2 PGF324040K01A2	PGF324060K00A2 PGF324060K01A2	PGF330060K00A2 PGF330060K01A2	PGF330080K00A2 PGF330080K01A2	PGF336060K00A2 PGF336060K01A2	PGF336080K00A2 PGF336080K01A2	PGF336100K00A2 PGF336100K01A2
P	PANEL ASY	1174309	*	*	1	1	1	1	1
R	COVER ASY	1114525	2	2	2	2	2	2	2
S	PANEL	1084134	1	1	*	*	*	*	*
S	PANEL	1097977	*	*	1	1	1	1	1
T	PANEL ASY	1114531	1	1	*	*	*	*	*
T	PANEL ASY	1174310	*	*	1	1	1	1	1
U	PANEL ASY	1114529	1	1	*	*	*	*	*
U	PANEL ASY	1114536	*	*	1	1	1	1	1
W	SUPPORT BRACKET	1011820	2	2	2	2	2	2	2
ZZ	PAN,EVAPORATOR	1172243	1	1	1	1	1	1	1
PARTS NOT SHOWN									
)(	BRACKET	1175767	*	*	*	*	1	1	1
)(	BRACKET, COIL	1175765	1	1	*	*	*	*	*
)(	BRACKET, COIL	1175766	*	*	1	1	*	*	*
)(	BRACKET,COIL	1113337	1	1	1	1	1	1	1
)(	BRACKET,FILTER	1097531	1	1	1	1	1	1	1
)(	CONDUIT	1171428	1	1	1	1	1	1	1
)(	GROMMET	1171270	4	4	4	4	4	4	4
)(	HARNESS ASY	1174311	1	1	1	1	1	1	1
)(	KIT, CONV LP>NAT	1173863	1	1	1	1	1	1	1
)(	KIT, CONV NAT>LP	1173857	1	1	1	1	1	1	1
)(	KIT, CONV NAT>LP HIGH ALT	1173859	1	1	1	1	1	1	1
)(	KIT, CONV NAT>LP HIGH ALT	1173861	1	1	1	1	1	1	1
)(	ORIFICE	1011352	2	3	3	4	3	4	*
)(	ORIFICE	1096942	*	*	*	*	*	*	4
)(	SHIELD	1110690	1	1	1	1	1	1	1

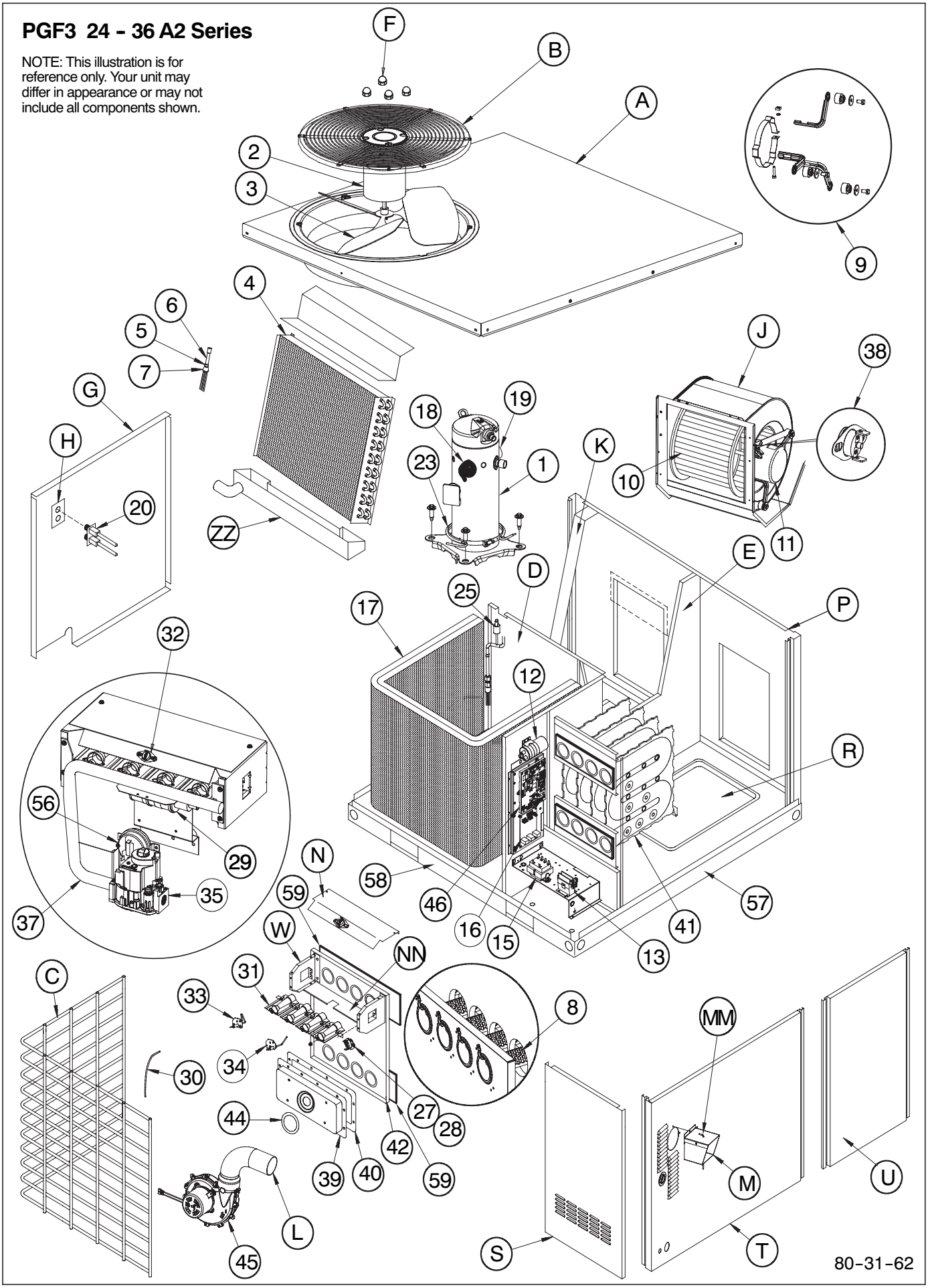
PGF3 42 – 54 1 Phase PARTS LIST									
KEY NO.	DESCRIPTION	FAST PART NO.	PGF342080K00A1 PGF342080K01A1	PGF342100K00A1 PGF342100K01A1	PGF348080K00A1 PGF348080K01A1	PGF348120K00A1 PGF348120K01A1	PGF354100K00A1 PGF354100K01A1	PGF354140K00A1 PGF354140K01A1
1	COMPRESSOR (R-22, 36,000 BTU, 208/230V-1)	ZR36K3PFV130	1	1	*	*	*	*
1	COMPRESSOR (R-22, 43,000 BTU, 2 STAGE, 208/230V-1)	ZRS43K4PFV130	*	*	1	1	*	*
1	COMPRESSOR (R-22, 52,000 BTU, 2 STAGE, 208/230V-1)	ZRS52K4PFV130	*	*	*	*	1	1
2	MOTOR, CONDENSER FAN (1/8 HP, 208/230V-1 PH)	1173700	1	1	1	1	*	*
2	MOTOR, CONDENSER FAN (1/8 HP, 208/230V-1 PH, 2SP)	1173701	*	*	*	*	1	1
3	FAN, CONDENSER (20" DIA.)	1173706	1	1	1	1	1	1
4	COIL, EVAPORATOR -MANIFOLDS INCLUDED-	1174224	1	1	*	*	*	*
4	COIL, EVAPORATOR -MANIFOLDS INCLUDED-	1174225	*	*	1	1	*	*
4	COIL, EVAPORATOR -MANIFOLDS INCLUDED-	1174226	*	*	*	*	1	1
7	DISTRIBUTOR (R-22)	1174244	*	*	*	*	1	1
7	DISTRIBUTOR (R-22)	1174243	1	1	1	1	*	*
8	BAFFLE, GAS (LOW NOX ONLY)	1014019	4	4	4	5	4	6
9	KIT, BLOWER MOTOR MOUNTING	1174295	1	1	*	*	*	*
9	KIT, BLOWER MOTOR MOUNTING	1114377	*	*	1	1	1	1
10	WHEEL, BLOWER (11-11DD)	1097529	*	*	1	1	1	1
10	WHEEL, BLOWER (11-9DD)	1171742	1	1	*	*	*	*
11	MOTOR, BLOWER (208-230 VAC, 6A, 1 PHASE, 3/4 HP)	1173817	1	1	*	*	*	*
11	MOTOR, BLOWER (208-230 VAC, 7.6A, 1 PHASE, 1 HP)	1173819	*	*	1	1	*	*
11	MOTOR, BLOWER (208-230 VAC, 7.6A, 1 PHASE, 1 HP)	1173820	*	*	*	*	1	1
12	CAPACITOR (45 + 5 MFD, 370V)	1172124	*	*	1	1	*	*
12	CAPACITOR (50 + 5 MFD, 370V)	1172111	1	1	*	*	*	*
12	CAPACITOR (80 + 10 MFD, 370V)	1173703	*	*	*	*	1	1
13	CONTACTOR (SPST, NO, 25A, 24VAC)	1173689	*	*	*	*	*	*
13	CONTACTOR (SPST, NO, 40A, 24VAC)	1173690	1	1	1	1	1	1
15	TRANSFORMER (200/230/460V-24V 75VA)	1171496	*	*	1	1	1	1
15	TRANSFORMER (208/230V-24V 40VA)	1173691	1	1	*	*	*	*
16	CONTROL BOARD (MOTOR)	1173823	1	1	*	*	*	*
16	CONTROL BOARD (MOTOR)	1174144	*	*	1	1	1	1
17	COIL, CONDENSER -MANIFOLDS INCLUDED-	1174249	1	1	*	*	*	*
17	COIL, CONDENSER -MANIFOLDS INCLUDED-	1174250	*	*	1	1	*	*
17	COIL, CONDENSER -MANIFOLDS INCLUDED-	1174251	*	*	*	*	1	1
18	PLUG, COMPRESSOR	1173826	1	1	1	1	1	1
19	PLUG, SOLENOID	1173827	*	*	1	1	1	1
20	VALVE, SERVICE (HI/LO PORT)	1083939	1	1	1	1	1	1
23	HEATER, CRANKCASE (40W, 240V, FIT 17" DIA.)	1173825	1	1	1	1	1	1
25	SWITCH, HIGH PRESSURE CUT OUT	1173712	*	*	1	1	1	1
27	SWITCH, LIMIT (160 DEG.)	1065207	*	*	1	1	1	1
27	SWITCH, LIMIT (170 DEG.)	1095242	1	1	*	*	*	*
29	IGNITER CONTROL, REMOTE SPARK	1173831	1	1	1	1	1	1
30	TUBE, VACUUM (12.5" LONG)	1013088	1	1	1	1	1	1
31	BURNER ASY (4 SECTION)	1008725	1	1	1	*	1	*
31	BURNER ASY (5 SECTION)	1008726	*	*	*	1	*	*
31	BURNER ASY (6 SECTION)	1009179	*	*	*	*	*	1
32	SWITCH, ROLLOUT (300 DEG.)	1013102	1	1	1	1	1	1
33	IGNITER CONTROL, SPARKER	1173828	1	1	1	1	1	1
34	SENSOR, FLAME	1173830	1	1	1	1	1	1
35	VALVE, GAS	1173845	1	1	1	1	1	1
37	MANIFOLD (4 SPUD)	1084114	1	1	1	*	1	*

PGF3 42 – 54 1 Phase PARTS LIST (continued)								
KEY NO.	DESCRIPTION	FAST PART NO.	PGF342080K00A1 PGF342080K01A1	PGF342100K00A1 PGF342100K01A1	PGF348080K00A1 PGF348080K01A1	PGF348120K00A1 PGF348120K01A1	PGF354100K00A1 PGF354100K01A1	PGF354140K00A1 PGF354140K01A1
37	MANIFOLD (5 SPUD)	1084115	*	*	*	1	*	*
37	MANIFOLD (6 SPUD)	1084116	*	*	*	*	*	1
38	SWITCH, TEMPERATURE (SECONDARY 120 DEG.)	1173822	1	1	1	1	1	1
39	BOX, COLLECTOR (1.42 DIA.)	1172352	1	1	1	1	*	*
39	BOX, COLLECTOR (1.75 DIA.)	1011052	*	*	*	*	1	1
40	GASKET, COLLECTOR	1093662	1	1	1	1	1	1
41	HEAT EXCHANGER (120K BTUH)	1012408	*	*	*	1	*	*
41	HEAT EXCHANGER (140K BTUH)	1011366	*	*	*	*	*	1
41	HEAT EXCHANGER (80K & 100 BTUH)	1011364	1	1	*	*	*	*
41	HEAT EXCHANGER (80K BTUH)	1011363	*	*	1	*	1	*
42	PANEL ASY, PARTITION (4 BURNER)	1008071	*	*	1	*	1	*
42	PANEL ASY, PARTITION (4 BURNER)	1008072	1	1	*	*	*	*
42	PANEL ASY, PARTITION (5 BURNER)	1012411	*	*	*	1	*	*
42	PANEL ASY, PARTITION (6 BURNER)	1008074	*	*	*	*	*	1
44	GASKET, COMBUSTION BLOWER	1110691	1	1	1	1	1	1
45	BLOWER, COMBUSTION	1110008	1	1	1	1	1	1
46	CONTROL BOARD (IGNITION)	1173838	1	1	1	1	1	1
56	SWITCH, VACUUM (BG & CG)	1172197	1	1	1	1	1	1
A	PANEL, TOP	1174741	1	1	*	*	*	*
A	PANEL, TOP	1174460	*	*	1	1	1	1
B	GRILLE, OUTLET (20” FAN)	1173832	1	1	1	1	1	1
C	GRILLE, INLET	1097528	1	1	1	1	1	1
F	NUT, CAP	1174152	4	4	4	4	4	4
G	PANEL, ACCESS COMPRESSOR	1111015	1	1	1	1	1	1
H	PLATE, HI/LO PORT	1085473	1	1	1	1	1	1
J	HOUSING, BLOWER	1099242	*	*	1	1	1	1
J	HOUSING, BLOWER	1174167	1	1	*	*	*	*
L	PIPE COMB BLR	1096959	1	1	*	*	*	*
L	PIPE COMB BLR	1084138	*	*	1	1	1	1
M	COVER, FLUE OR VENT	1096961	1	1	1	1	1	1
N	SHIELD, BURNER TOP	1084202	1	1	1	*	1	*
N	SHIELD, BURNER TOP	1084204	*	*	*	1	*	*
N	SHIELD, BURNER TOP	1084206	*	*	*	*	*	1
NN	SHIELD, BURNER BOTTOM	1084203	1	1	1	*	1	*
NN	SHIELD, BURNER BOTTOM	1084205	*	*	*	1	*	*
NN	SHIELD, BURNER BOTTOM	1084207	*	*	*	*	*	1
P	PANEL, REAR	1174309	1	1	*	*	*	*
P	PANEL, REAR	1114532	*	*	1	1	1	1
R	COVER, DUCTS	1114525	1	1	1	1	1	1
S	PANEL, ACCESS CONTROL BOX	1097977	1	1	*	*	*	*
S	PANEL, ACCESS CONTROL BOX	1084150	*	*	1	1	1	1
T	POST, CORNER	1174310	1	1	*	*	*	*
T	POST, CORNER	1114538	*	*	1	1	1	1
U	PANEL, ACCESS BLOWER	1114536	1	1	1	1	1	1
W	BRACKET, SUPPORT (MANIFOLD)	1011820	2	2	2	2	2	2
ZZ	PAN, DRAIN (EVAPORATOR)	1172243	1	1	1	1	1	1

PGF3 42 – 54 1 Phase PARTS LIST (continued)								
KEY NO.	DESCRIPTION	FAST PART NO.	PGF342080K00A1 PGF342080K01A1	PGF342100K00A1 PGF342100K01A1	PGF348080K00A1 PGF348080K01A1	PGF348120K00A1 PGF348120K01A1	PGF354100K00A1 PGF354100K01A1	PGF354140K00A1 PGF354140K01A1
PARTS NOT SHOWN								
)(	CIRCUIT BREAKER (250VAC, 3.2 A)	1171114	*	*	1	1	1	1
)(	HARNESS, WIRE (DUAL CAPACITY ADAPTER)	1174320	*	*	1	1	1	1
)(	HARNESS, WIRE (DUAL CAPACITY YAC)	1174319	*	*	1	1	1	1
)(	HARNESS, WIRE (SINGLE CAPACITY YAC)	1174311	1	1	*	*	*	*
)(	ORIFICE, SPUD (#41)	1096942	*	4	*	*	4	*
)(	ORIFICE, SPUD (#42)	1011351	*	*	*	5	*	6
)(	ORIFICE, SPUD (#44)	1011352	4	*	4	*	*	*
)(	VALVE, EXPANSION 3/8 ODF INLET X 3/8 ODM OUTLET	1173834	*	*	1	1	*	*
)(	VALVE, EXPANSION 3/8 ODF INLET X 3/8 ODM OUTLET	1173835	*	*	*	*	1	1
)(	VALVE, EXPANSION 3/8 ODF INLET X 3/8 ODM OUTLET	1173833	1	1	*	*	*	*
)(	CONV KIT NAT>LP PGF 100–140	1173855	*	1	*	1	1	1
)(	CONV KIT NAT>LP 0–4000’	1173857	1	1	1	1	1	1
)(	CONV KIT NAT>LP 4001’–9000’	1173859	1	1	1	1	1	1
)(	CONV KIT NAT>LP 9000’–10,000’	1173861	1	*	1	*	*	*
)(	CONV KIT LP>NAT	1173863	1	*	1	*	*	*
)(	CONV KIT LP>NAT	1173865	*	1	*	1	1	1

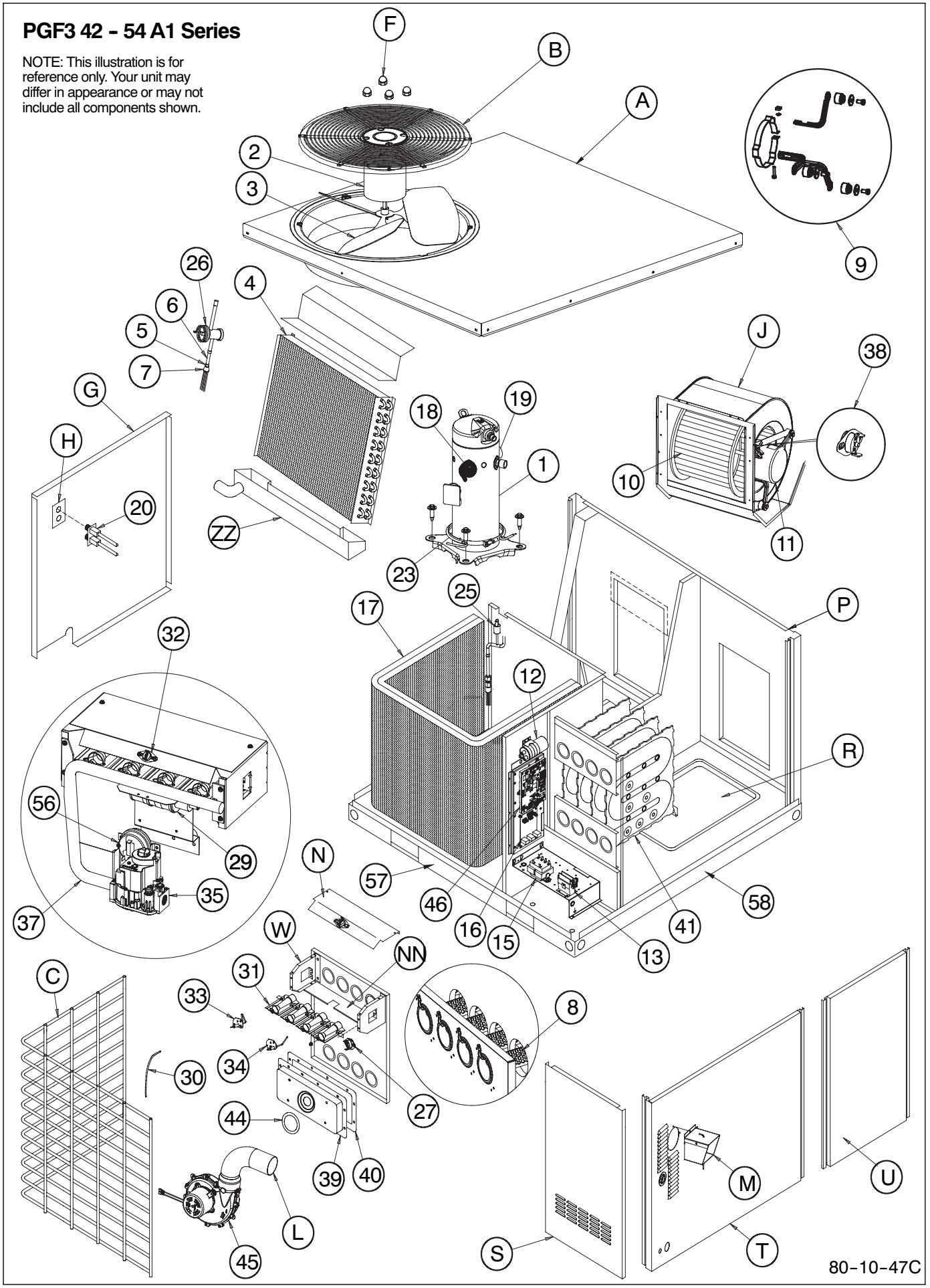
PGF3 24 – 36 A2 Series

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



PGF3 42 – 54 A1 Series

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



CHARGING CHART PGF3 24 - 36

Suction Line Temperature (°F)															
OD Temp. (°F)	Suction Line Pressure (PSIG)														
	52	54	56	59	61	64	67	70	73	76	79	82	85	89	92
45	51	55	60	64	69	-	-	-	-	-	-	-	-	-	-
55	-	-	53	57	62	66	70	-	-	-	-	-	-	-	-
65	-	-	-	-	53	57	62	66	71	75	-	-	-	-	-
75	-	-	-	-	-	-	-	56	61	66	71	76	-	-	-
85	-	-	-	-	-	-	-	-	53	58	63	67	72	-	-
95	-	-	-	-	-	-	-	-	-	50	54	58	62	66	-
105	-	-	-	-	-	-	-	-	-	-	50	53	57	60	64
115	-	-	-	-	-	-	-	-	-	-	49	52	55	58	61
125	-	-	-	-	-	-	-	-	-	-	-	50	53	56	59

Suction Line Temperature (°C)															
OD Temp. (°C)	Suction Line Pressure (kPa)														
	361	370	387	405	423	442	462	482	502	523	544	566	589	612	636
7	11	13	15	18	21	-	-	-	-	-	-	-	-	-	-
13	-	-	12	14	16	19	21	-	-	-	-	-	-	-	-
18	-	-	-	-	12	14	17	19	21	24	-	-	-	-	-
24	-	-	-	-	-	-	-	13	16	19	22	24	-	-	-
29	-	-	-	-	-	-	-	-	12	14	17	20	22	-	-
35	-	-	-	-	-	-	-	-	-	10	12	14	17	19	-
41	-	-	-	-	-	-	-	-	-	-	10	12	14	16	18
46	-	-	-	-	-	-	-	-	-	-	9	11	13	14	16
52	-	-	-	-	-	-	-	-	-	-	-	10	11	13	15

CHARGING CHART PGF3 42 - 54

Model Size	Required Subcooling oF (°C) Outdoor Ambient Temperature				
	75 (24)	82 (28)	85 (29)	95 (35)	105 (41)
042	22.5 (12.5)	22.1 (12.3)	22 (12.2)	21.6 (12)	21.1 (11.7)
048	26.1 (14.5)	26.8 (14.9)	27 (15)	28 (15.5)	28.9 (16)
060	17.8 (9.9)	18.9 (10.5)	19.3 (10.7)	20.8 (11.6)	22.3 (12.4)

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.

Required Liquid Line Temperature for a Specific Subcooling (R-22)

Pressure (psig)	Required Subcooling (°F) 5	10	15	20	25	30	Pressure (kPa)	Required Subcooling (°C) 3	6	8	11	14	17
174	87	82	77	72	67	62	1200	31	28	25	22	19	17
181	88	83	78	73	68	63	1248	31	28	26	23	20	17
188	92	87	82	77	72	67	1296	33	31	28	25	22	19
195	95	90	85	80	75	70	1344	35	32	29	27	24	21
202	97	92	87	82	77	72	1393	36	33	31	28	25	22
209	100	95	90	85	80	75	1441	38	35	32	29	27	24
216	102	97	92	87	82	77	1489	39	36	33	31	28	25
223	104	99	94	89	84	79	1537	40	37	34	32	29	26
134	71	66	61	56	51	46	924	22	19	16	13	11	8
141	74	69	64	59	54	49	972	23	21	18	15	12	10
156	80	75	70	65	60	55	1075	27	24	21	19	16	13
163	83	78	73	68	63	58	1124	28	26	23	20	17	15
170	86	81	76	71	66	61	1172	30	27	24	22	19	16
177	89	84	79	74	69	64	1220	31	29	26	23	20	18
184	91	86	81	76	71	66	1268	33	30	27	24	22	19
191	94	89	84	79	74	69	1317	34	31	29	26	23	20
198	96	91	86	81	76	71	1365	36	33	30	27	24	22
205	98	93	88	83	78	73	1413	37	34	31	29	26	23
213	101	96	91	86	81	76	1468	38	36	33	30	27	24
221	104	99	94	89	84	79	1524	40	37	34	31	29	26
229	106	101	96	91	86	81	1579	41	38	36	33	30	27
237	108	103	98	93	88	83	1634	42	40	37	34	31	29
245	111	106	101	96	91	86	1689	44	41	38	35	33	30
253	113	108	103	98	93	88	1744	45	42	40	37	34	31
262	116	111	106	101	96	91	1806	46	44	41	38	35	33
271	118	113	108	103	98	93	1868	48	45	42	40	37	34
280	121	116	111	106	101	96	1930	49	46	44	41	38	35
289	123	118	113	108	103	98	1992	51	48	45	42	39	37
298	125	120	115	110	105	100	2054	52	49	46	44	41	38
307	128	123	118	113	108	103	2116	53	50	48	45	42	39
317	130	125	120	115	110	105	2185	54	52	49	46	43	41
327	132	127	122	117	112	107	2254	56	53	50	47	45	42
337	130	125	120	115	110	105	2323	54	52	49	46	43	41
347	137	132	127	122	117	112	2392	58	56	53	50	47	45
357	139	134	129	124	119	114	2461	60	57	54	51	49	46
367	142	137	132	127	122	117	2530	61	58	55	53	50	47

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		Outdoor Ambient Temperature - Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature - Degrees F, Wet Bulb																								
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72
700	MBh†	21.85	22.28	22.56	23.95	25.64	21.34	21.66	21.92	23.38	25.22	20.73	20.94	21.21	22.67	24.54	20.00	20.08	20.33	21.86	23.77	19.12	19.12	19.24	20.85	22.87
	S/T‡	1.00	0.91	0.73	0.70	0.52	1.00	0.93	0.75	0.72	0.53	1.00	0.95	0.76	0.73	0.53	1.00	0.98	0.78	0.74	0.54	1.00	1.00	0.79	0.76	0.55
	Total Unit Amps	6.94	6.94	6.96	6.98	7.03	7.70	7.70	7.72	7.73	7.78	8.57	8.57	8.58	8.59	8.65	9.54	9.54	9.55	9.55	9.62	10.61	10.61	10.61	10.61	10.67
	HI PR	167	168	169	171	175	195	195	196	199	203	225	226	226	229	234	259	260	260	263	268	297	297	297	300	304
	LO PR	73	74	75	80	85	75	76	77	82	88	77	78	79	84	90	79	80	80	86	93	82	82	82	88	95
800	MBh†	22.64	22.75	22.89	24.27	25.91	22.13	22.16	22.27	23.71	25.51	21.55	21.50	21.55	23.00	24.85	20.84	20.84	20.70	22.19	24.07	19.97	19.97	19.63	21.21	23.17
	S/T‡	1.00	0.96	0.76	0.73	0.53	1.00	0.98	0.78	0.74	0.54	1.00	1.00	0.79	0.76	0.55	1.00	1.00	0.81	0.78	0.56	1.00	1.00	0.84	0.80	0.57
	Total Unit Amps	7.04	7.04	7.06	7.08	7.13	7.80	7.80	7.82	7.84	7.88	8.66	8.66	8.68	8.70	8.75	9.63	9.63	9.64	9.65	9.72	10.70	10.70	10.70	10.71	10.78
	HI PR	169	169	170	172	175	197	197	197	200	204	227	227	227	230	235	261	261	261	264	269	298	298	298	300	306
	LO PR	76	76	76	81	86	78	78	78	83	89	80	80	80	85	92	83	83	82	87	94	85	85	84	90	96
900	MBh†	23.19	23.11	23.13	24.49	26.11	22.71	22.71	22.51	23.96	25.72	22.14	22.14	21.81	23.23	25.07	21.47	21.47	20.98	22.44	24.28	20.63	20.63	19.92	21.48	23.38
	S/T‡	1.00	1.00	0.79	0.75	0.54	1.00	1.00	0.81	0.77	0.55	1.00	1.00	0.83	0.79	0.56	1.00	1.00	0.85	0.81	0.57	1.00	1.00	0.87	0.84	0.59
	Total Unit Amps	7.15	7.15	7.16	7.18	7.23	7.91	7.91	7.92	7.94	7.99	8.77	8.77	8.78	8.80	8.85	9.73	9.73	9.73	9.75	9.83	10.79	10.79	10.79	10.81	10.89
	HI PR	170	170	170	173	176	198	198	198	200	204	229	229	228	231	236	262	262	261	264	270	300	300	298	301	307
	LO PR	78	78	77	82	87	81	81	79	85	90	83	83	81	87	93	85	85	83	89	95	88	88	85	91	97

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	891	845	804	758	707	649	582	509	-	-
2	-	-	-	-	-	-	-	-	-	-
3	1136	1098	1056	1020	980	920	785	569	318	-
4	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-

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		Outdoor Ambient Temperature - Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature - Degrees F, Wet Bulb																								
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72
875	MBh†	27.34	27.92	28.36	30.33	32.58	26.26	26.62	27.12	29.35	31.87	25.10	25.23	25.72	28.05	30.81	23.62	23.62	23.67	26.55	29.51	22.02	22.02	21.35	24.66	28.00
	S/T‡	1.00	0.90	0.72	0.69	0.51	1.00	0.92	0.73	0.70	0.52	1.00	0.94	0.75	0.72	0.52	1.00	1.00	0.78	0.73	0.53	1.00	1.00	0.82	0.76	0.54
	Total Unit Amps	8.44	8.46	8.48	8.57	8.72	9.38	9.39	9.40	9.48	9.63	10.42	10.43	10.44	10.50	10.64	11.54	11.54	11.54	11.65	11.77	12.75	12.75	12.72	12.88	13.00
	HI PR	168	169	170	172	176	197	198	198	201	205	229	229	230	232	236	263	263	263	267	271	300	300	299	304	308
	LO PR	74	76	77	82	88	76	77	78	84	91	79	79	80	86	93	82	82	82	87	95	85	85	84	89	97
1000	MBh†	28.60	28.66	28.88	30.76	32.95	27.57	27.52	27.71	29.87	32.28	26.44	26.44	26.32	28.60	31.26	25.22	25.22	24.53	27.12	29.97	23.50	23.50	22.13	25.45	28.48
	S/T‡	1.00	0.94	0.75	0.72	0.52	1.00	1.00	0.76	0.73	0.53	1.00	1.00	0.78	0.75	0.54	1.00	1.00	0.81	0.77	0.55	1.00	1.00	0.85	0.80	0.56
	Total Unit Amps	8.61	8.61	8.63	8.73	8.88	9.54	9.54	9.55	9.63	9.79	10.58	10.58	10.58	10.65	10.80	11.73	11.73	11.70	11.79	11.92	12.95	12.95	12.88	13.05	13.16
	HI PR	170	170	170	173	177	199	199	199	201	206	230	230	230	233	237	265	265	264	267	272	302	302	300	305	309
	LO PR	78	78	78	83	89	80	80	80	86	92	82	82	81	87	94	84	84	83	89	96	87	87	85	90	98
1125	MBh†	29.47	29.47	29.23	31.06	33.19	28.59	28.58	28.15	30.22	32.57	27.47	27.47	26.78	29.01	31.58	26.23	26.22	25.21	27.55	30.28	24.79	24.78	22.78	25.88	28.82
	S/T‡	1.00	1.00	0.78	0.75	0.53	1.00	1.00	0.80	0.77	0.55	1.00	1.00	0.82	0.79	0.56	1.00	1.00	0.84	0.81	0.57	1.00	1.00	0.89	0.84	0.58
	Total Unit Amps	8.78	8.78	8.78	8.88	9.03	9.70	9.70	9.69	9.78	9.94	10.74	10.74	10.72	10.80	10.96	11.89	11.89	11.86	11.93	12.08	13.15	13.15	13.04	13.18	13.31
	HI PR	171	171	171	174	178	200	200	199	202	207	232	232	231	234	238	267	267	265	268	273	304	304	301	306	310
	LO PR	80	80	79	84	90	83	83	81	87	93	85	85	83	89	96	87	87	84	90	98	89	89	86	92	99

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	986	949	908	856	819	781	717	664	612	554
2	1076	1038	997	973	913	875	840	786	717	659
3	1286	1225	1186	1158	1129	1085	1044	1004	948	755
4	1352	1311	1274	1233	1203	1162	1119	1066	989	774
5	-	-	-	-	-	-	-	-	-	-

Notes: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

† 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 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree above 80 F

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		Outdoor Ambient Temperature - Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature - Degrees F, Wet Bulb																								
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72
1050	MBh†	34.17	34.72	35.50	39.51	45.18	32.24	32.28	32.76	36.69	42.31	30.54	30.54	30.48	34.08	39.29	28.61	28.60	27.82	31.47	36.63	26.45	26.45	24.81	28.49	33.68
	S/T‡	1.00	0.86	0.68	0.65	0.47	1.00	0.89	0.71	0.67	0.48	1.00	1.00	0.73	0.69	0.49	1.00	1.00	0.76	0.72	0.50	1.00	1.00	0.81	0.76	0.52
	Total Unit Amps (230-1-60/230-3-60)	10.5 / 7.25	10.52 / 7.26	10.54 / 7.27	10.68 / 7.37	10.83 / 7.47	11.53 / 7.96	11.53 / 7.96	11.55 / 7.97	11.7 / 8.07	11.92 / 8.23	12.7 / 8.76	12.7 / 8.76	12.69 / 8.76	12.85 / 8.87	13.06 / 9.01	13.96 / 9.63	13.96 / 9.63	13.92 / 9.61	14.11 / 9.74	14.36 / 9.91	15.32 / 10.57	15.32 / 10.57	15.22 / 10.5	15.44 / 10.65	15.75 / 10.87
	HI PR	176	177	178	182	188	203	203	204	209	217	234	234	234	239	247	267	267	265	272	280	303	303	299	307	316
	LO PR	75	75	76	81	88	78	78	78	83	90	80	80	80	85	92	83	83	82	87	94	87	87	84	89	96
1200	MBh†	36.19	36.17	36.57	40.70	46.07	34.06	34.05	33.69	37.76	43.55	32.23	32.23	31.32	35.00	40.41	30.24	30.24	28.62	32.34	37.57	28.00	28.00	25.60	29.32	34.54
	S/T‡	1.00	0.99	0.71	0.67	0.49	1.00	1.00	0.74	0.70	0.49	1.00	1.00	0.76	0.72	0.51	1.00	1.00	0.80	0.75	0.52	1.00	1.00	0.85	0.80	0.54
	Total Unit Amps (230-1-60/230-3-60)	10.73 / 7.4	10.73 / 7.4	10.74 / 7.41	10.88 / 7.51	10.98 / 7.58	11.76 / 8.12	11.76 / 8.12	11.74 / 8.1	11.9 / 8.21	12.13 / 8.37	12.93 / 8.92	12.93 / 8.92	12.89 / 8.89	13.04 / 9	13.27 / 9.16	14.21 / 9.81	14.21 / 9.81	14.12 / 9.74	14.31 / 9.87	14.57 / 10.05	15.58 / 10.75	15.58 / 10.75	15.43 / 10.65	15.66 / 10.81	15.96 / 11.01
	HI PR	179	179	179	184	189	206	206	205	211	219	237	237	235	241	249	270	270	267	273	282	306	306	301	308	318
	LO PR	77	77	78	83	90	80	80	80	85	92	83	83	81	87	94	86	86	83	89	96	89	89	86	91	98
1350	MBh†	37.91	37.91	37.44	41.97	46.72	35.70	35.70	34.50	38.65	44.82	33.68	33.68	32.00	35.74	41.29	31.63	31.63	29.30	33.06	38.29	29.32	29.31	26.34	30.03	35.21
	S/T‡	1.00	1.00	0.74	0.70	0.50	1.00	1.00	0.77	0.72	0.51	1.00	1.00	0.80	0.76	0.52	1.00	1.00	0.84	0.79	0.54	1.00	1.00	0.89	0.83	0.56
	Total Unit Amps (230-1-60/230-3-60)	10.94 / 7.55	10.94 / 7.55	10.92 / 7.54	11.09 / 7.65	11.14 / 7.69	11.98 / 8.27	11.98 / 8.27	11.93 / 8.23	12.09 / 8.34	12.32 / 8.5	13.15 / 9.07	13.15 / 9.07	13.08 / 9.03	13.23 / 9.13	13.48 / 9.3	14.44 / 9.96	14.44 / 9.96	14.32 / 9.88	14.51 / 10.01	14.76 / 10.19	15.82 / 10.92	15.82 / 10.92	15.63 / 10.79	15.86 / 10.94	16.16 / 11.15
	HI PR	181	181	180	186	189	208	208	207	212	220	239	239	236	242	250	273	273	268	275	283	309	309	303	310	320
	LO PR	80	80	79	84	92	83	83	81	86	93	85	85	83	88	95	88	88	84	90	97	91	91	87	92	99

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	1162	1118	1062	1014	958	892	826	780	735	675
2	1278	1233	1191	1149	1108	1060	1005	943	892	844
3	1529	1484	1440	1402	1364	1326	1284	1238	1179	1123
4	1652	1607	1574	1541	1501	1462	1426	1384	1338	1277
5	-	-	-	-	-	-	-	-	-	-

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	ID Airflow (SCFM)	1225					1400					1575				
		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 †	37.6	38.7	39.5	42.1	44.9	39.2	39.6	40.2	42.7	45.3	40.4	40.4	40.6	43.0	45.6
	S/T ‡	1.00	0.91	0.73	0.70	0.51	1.00	0.95	0.76	0.73	0.53	1.00	1.00	0.79	0.76	0.54
	Total Unit Amps (230-1-60/230-3-60)	12.8 / 8.3	12.8 / 8.3	12.8 / 8.3	13.0 / 8.5	13.3 / 8.6	13.0 / 8.5	13.1 / 8.5	13.1 / 8.5	13.3 / 8.6	13.6 / 8.8	13.3 / 8.7	13.3 / 8.7	13.4 / 8.7	13.6 / 8.8	13.9 / 9.0
	HI PR	195	196	197	202	210	197	198	199	204	211	199	199	200	206	213
	LO PR	73	76	77	82	87	77	78	79	83	88	80	80	80	84	89
85/29	MBh †	36.3	37.1	38.0	41.0	44.3	37.9	38.0	38.7	41.7	44.8	39.3	39.3	39.3	42.1	45.1
	S/T ‡	1.00	0.93	0.74	0.71	0.52	1.00	1.00	0.77	0.74	0.54	1.00	1.00	0.81	0.78	0.55
	Total Unit Amps (230-1-60/230-3-60)	14.2 / 9.2	14.2 / 9.2	14.3 / 9.3	14.4 / 9.3	14.7 / 9.5	14.5 / 9.4	14.5 / 9.4	14.5 / 9.4	14.7 / 9.5	15.0 / 9.7	14.8 / 9.6	14.8 / 9.6	14.8 / 9.6	14.9 / 9.7	15.3 / 9.9
	HI PR	226	227	228	232	240	228	228	229	234	242	230	230	230	235	243
	LO PR	75	77	78	84	90	79	79	80	86	92	82	82	82	87	93
95/35	MBh †	34.8	35.3	36.1	39.3	43.1	36.5	36.5	36.9	40.0	43.7	37.8	37.8	37.5	40.5	44.1
	S/T ‡	1.00	0.95	0.75	0.72	0.53	1.00	1.00	0.79	0.76	0.55	1.00	1.00	0.83	0.80	0.57
	Total Unit Amps (230-1-60/230-3-60)	15.6 / 10.1	15.6 / 10.2	15.7 / 10.2	15.9 / 10.4	16.2 / 10.5	16.0 / 10.4	16.0 / 10.4	16.1 / 10.4	16.2 / 10.5	16.5 / 10.7	16.3 / 10.6	16.3 / 10.6	16.3 / 10.6	16.5 / 10.7	16.8 / 10.9
	HI PR	260	260	261	266	273	262	262	263	267	275	264	264	264	268	277
	LO PR	77	78	79	86	93	81	81	81	87	94	84	84	83	89	96
105/41	MBh †	33.3	33.4	34.1	37.3	41.5	34.9	34.9	34.9	38.0	42.1	36.2	36.2	35.4	38.5	42.6
	S/T ‡	1.00	1.00	0.77	0.74	0.53	1.00	1.00	0.81	0.78	0.56	1.00	1.00	0.85	0.82	0.58
	Total Unit Amps (230-1-60/230-3-60)	17.2 / 11.1	17.2 / 11.1	17.2 / 11.2	17.6 / 11.5	17.9 / 11.6	17.6 / 11.4	17.6 / 11.4	17.6 / 11.4	17.9 / 11.7	18.2 / 11.8	18.0 / 11.7	18.0 / 11.7	17.9 / 11.6	18.2 / 11.8	18.5 / 12.0
	HI PR	297	297	298	302	309	299	299	299	304	311	301	301	300	305	312
	LO PR	79	79	81	87	95	83	83	82	89	96	86	86	84	90	98
115/46	MBh †	31.7	31.7	32.0	35.1	39.4	33.2	33.2	32.7	35.8	40.1	34.4	34.4	33.2	36.3	40.6
	S/T ‡	1.00	1.00	0.79	0.76	0.54	1.00	1.00	0.84	0.80	0.57	1.00	1.00	0.88	0.84	0.59
	Total Unit Amps (230-1-60/230-3-60)	18.8 / 12.2	18.8 / 12.2	18.9 / 12.3	19.3 / 12.5	19.7 / 12.8	19.3 / 12.5	19.3 / 12.5	19.2 / 12.5	19.6 / 12.7	20.0 / 13.0	19.7 / 12.8	19.7 / 12.8	19.5 / 12.7	19.9 / 13.0	20.3 / 13.2
	HI PR	336	336	337	342	349	339	339	338	343	350	342	342	339	345	352
	LO PR	81	81	82	88	96	85	85	84	90	98	88	88	85	91	100

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	1589	1537	1500	1463	1423	1389	1353	1317	1276	1208

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 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree below 80°F, or add 835 Btuh per 1000 cfm of indoor air from MBhxS/T for each degree above 80°F

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OD Ambient (° F/ ° C) db	ID Airflow (SCFM)	1400					1600					1800				
		Entering Indoor Temperature - Degrees F/ Degrees C, Wet Bulb														
		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 †	41.8	43.1	44.0	47.0	50.3	43.6	44.0	44.8	47.7	50.8	45.0	45.0	45.3	48.1	51.2
	S/T ‡	1.00	0.92	0.74	0.71	0.52	1.00	0.97	0.77	0.74	0.54	1.00	1.00	0.80	0.77	0.55
	Total Unit Amps (230-1-60/230-3-60)	15.0 / 9.8	15.1 / 9.8	15.1 / 9.8	15.3 / 10.0	15.7 / 10.2	15.3 / 10.0	15.3 / 10.0	15.4 / 10.0	15.7 / 10.2	16.1 / 10.4	15.7 / 10.2	15.6 / 10.2	15.7 / 10.2	16.0 / 10.4	16.3 / 10.6
	HI PR	204	205	206	211	219	206	207	208	213	221	208	208	209	215	222
	LO PR	72	74	75	81	86	75	76	77	82	88	78	78	78	83	89
85/29	MBh †	40.5	41.4	42.3	45.6	49.3	42.2	42.4	43.2	46.3	49.9	43.7	43.7	43.7	46.8	50.3
	S/T ‡	1.00	0.94	0.75	0.72	0.53	1.00	0.99	0.78	0.76	0.55	1.00	1.00	0.82	0.79	0.56
	Total Unit Amps (230-1-60/230-3-60)	16.6 / 10.8	16.7 / 10.8	16.7 / 10.9	16.9 / 11.0	17.3 / 11.2	17.0 / 11.0	17.0 / 11.0	17.0 / 11.1	17.2 / 11.2	17.6 / 11.5	17.3 / 11.2	17.3 / 11.2	17.3 / 11.2	17.5 / 11.4	17.9 / 11.6
	HI PR	236	237	238	242	250	238	238	239	244	252	240	240	240	246	254
	LO PR	73	75	77	82	89	77	77	78	84	90	80	80	80	85	91
95/35	MBh †	39.0	39.5	40.4	43.7	47.8	40.7	40.7	41.2	44.5	48.5	42.1	42.1	41.8	45.1	48.9
	S/T ‡	1.00	0.96	0.76	0.73	0.54	1.00	1.00	0.80	0.77	0.56	1.00	1.00	0.84	0.81	0.58
	Total Unit Amps (230-1-60/230-3-60)	18.2 / 11.9	18.3 / 11.9	18.4 / 12.0	18.7 / 12.1	19.0 / 12.4	18.7 / 12.2	18.7 / 12.2	18.8 / 12.2	19.0 / 12.3	19.3 / 12.6	19.1 / 12.4	19.1 / 12.4	19.1 / 12.4	19.2 / 12.5	19.6 / 12.8
	HI PR	271	271	272	277	284	273	273	274	278	287	275	275	275	280	288
	LO PR	75	76	78	84	91	79	79	79	85	93	82	82	81	87	94
105/41	MBh †	37.3	37.5	38.3	41.6	46.0	39.0	39.0	39.1	42.4	46.7	40.4	40.4	39.6	42.9	47.2
	S/T ‡	1.00	0.99	0.78	0.75	0.54	1.00	1.00	0.82	0.79	0.57	1.00	1.00	0.86	0.83	0.59
	Total Unit Amps (230-1-60/230-3-60)	20.0 / 13.0	20.0 / 13.0	20.1 / 13.1	20.6 / 13.4	20.9 / 13.6	20.5 / 13.3	20.5 / 13.3	20.5 / 13.3	20.9 / 13.6	21.2 / 13.8	21.0 / 13.6	21.0 / 13.6	20.8 / 13.5	21.2 / 13.7	21.5 / 14.0
	HI PR	308	309	310	315	322	311	311	311	316	324	313	313	312	317	325
	LO PR	77	77	79	85	93	81	80	80	87	94	83	83	82	88	96
115/46	MBh †	35.6	35.6	36.0	39.3	43.8	37.2	37.2	36.7	40.0	44.5	38.5	38.5	37.2	40.6	45.0
	S/T ‡	1.00	1.00	0.80	0.77	0.55	1.00	1.00	0.84	0.81	0.58	1.00	1.00	0.89	0.85	0.60
	Total Unit Amps (230-1-60/230-3-60)	21.9 / 14.2	21.9 / 14.2	21.9 / 14.3	22.5 / 14.6	22.9 / 14.9	22.4 / 14.5	22.4 / 14.5	22.3 / 14.5	22.8 / 14.8	23.2 / 15.1	22.9 / 14.9	22.9 / 14.9	22.6 / 14.7	23.2 / 15.1	23.5 / 15.3
	HI PR	349	349	350	355	362	352	352	351	357	364	354	354	352	358	366
	LO PR	79	79	80	86	94	83	83	81	88	96	85	85	83	89	97

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

50CU500484 - 2.0

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OD Ambient (° F/ ° C) db	ID Airflow (SCFM)	1575					1800					2025				
		Entering Indoor Temperature - Degrees F/ Degrees C, Wet Bulb														
		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 †	49.4	51.4	52.5	56.4	61.8	51.4	52.5	53.5	57.4	62.9	51.4	52.5	53.5	57.4	62.9
	S/T ‡	1.00	0.90	0.72	0.69	0.52	1.00	0.94	0.75	0.73	0.53	1.00	0.94	0.75	0.73	0.53
	Total Unit Amps (230-1-60/230-3-60)	18.5 / 12.0	18.7 / 12.1	18.8 / 12.2	19.2 / 12.5	19.7 / 12.8	19.2 / 12.5	19.3 / 12.5	19.4 / 12.6	19.8 / 12.9	20.3 / 13.2	19.2 / 12.5	19.3 / 12.5	19.4 / 12.6	19.8 / 12.9	20.3 / 13.2
	HI PR	206	209	210	215	222	209	211	212	217	224	209	211	212	217	224
	LO PR	70	73	75	81	90	74	76	77	83	92	74	76	77	83	92
85/29	MBh †	47.9	49.5	50.6	54.4	59.6	49.8	50.5	51.5	55.3	60.5	49.8	50.5	51.5	55.3	60.5
	S/T ‡	1.00	0.91	0.73	0.71	0.52	1.00	0.96	0.77	0.74	0.54	1.00	0.96	0.77	0.74	0.54
	Total Unit Amps (230-1-60/230-3-60)	20.3 / 13.2	20.4 / 13.3	20.6 / 13.4	21.0 / 13.6	21.5 / 14.0	21.0 / 13.6	21.1 / 13.7	21.2 / 13.7	21.6 / 14.0	22.1 / 14.4	21.0 / 13.6	21.1 / 13.7	21.2 / 13.7	21.6 / 14.0	22.1 / 14.4
	HI PR	238	240	241	247	254	241	242	243	249	256	241	242	243	249	256
	LO PR	72	74	76	82	91	76	77	78	85	93	76	77	78	85	93
95/35	MBh †	46.4	47.6	48.6	52.2	57.2	48.2	48.5	49.4	53.0	58.1	48.2	48.5	49.4	53.0	58.1
	S/T ‡	1.00	0.93	0.75	0.72	0.53	1.00	0.98	0.78	0.75	0.55	1.00	0.98	0.78	0.75	0.55
	Total Unit Amps (230-1-60/230-3-60)	22.2 / 14.4	22.4 / 14.5	22.5 / 14.6	22.9 / 14.9	23.5 / 15.3	23.0 / 14.9	23.0 / 15.0	23.1 / 15.0	23.5 / 15.3	24.1 / 15.7	23.0 / 14.9	23.0 / 15.0	23.1 / 15.0	23.5 / 15.3	24.1 / 15.7
	HI PR	272	274	275	281	289	275	276	277	283	291	275	276	277	283	291
	LO PR	74	76	77	83	92	77	78	79	86	94	77	78	79	86	94
105/41	MBh †	44.8	45.6	46.5	50.0	54.8	46.4	46.5	47.2	50.7	55.5	46.4	46.5	47.2	50.7	55.5
	S/T ‡	1.00	0.95	0.76	0.73	0.54	1.00	1.00	0.80	0.77	0.56	1.00	1.00	0.80	0.77	0.56
	Total Unit Amps (230-1-60/230-3-60)	24.4 / 15.8	24.5 / 15.9	24.6 / 16.0	25.0 / 16.3	25.6 / 16.7	25.1 / 16.3	25.1 / 16.3	25.2 / 16.4	25.6 / 16.7	26.2 / 17.0	25.1 / 16.3	25.1 / 16.3	25.2 / 16.4	25.6 / 16.7	26.2 / 17.0
	HI PR	309	311	312	318	326	313	313	314	320	328	313	313	314	320	328
	LO PR	75	77	78	85	93	79	79	80	87	95	79	79	80	87	95
115/46	MBh †	43.1	43.5	44.3	47.7	52.2	44.7	44.6	44.9	48.3	52.9	44.7	44.6	44.9	48.3	52.9
	S/T ‡	1.00	0.97	0.77	0.75	0.54	1.00	1.00	0.81	0.79	0.57	1.00	1.00	0.81	0.79	0.57
	Total Unit Amps (230-1-60/230-3-60)	26.7 / 17.3	26.7 / 17.4	26.8 / 17.4	27.3 / 17.8	27.9 / 18.2	27.4 / 17.8	27.4 / 17.8	27.4 / 17.8	27.9 / 18.1	28.5 / 18.6	27.4 / 17.8	27.4 / 17.8	27.4 / 17.8	27.9 / 18.1	28.5 / 18.6
	HI PR	350	350	352	358	367	353	353	354	360	369	353	353	354	360	369
	LO PR	77	78	80	86	95	81	81	81	88	97	81	81	81	88	97

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	1386	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

50CU500486 - 2.0

Notes: † Net Capacity (BTU/ HR/1000)

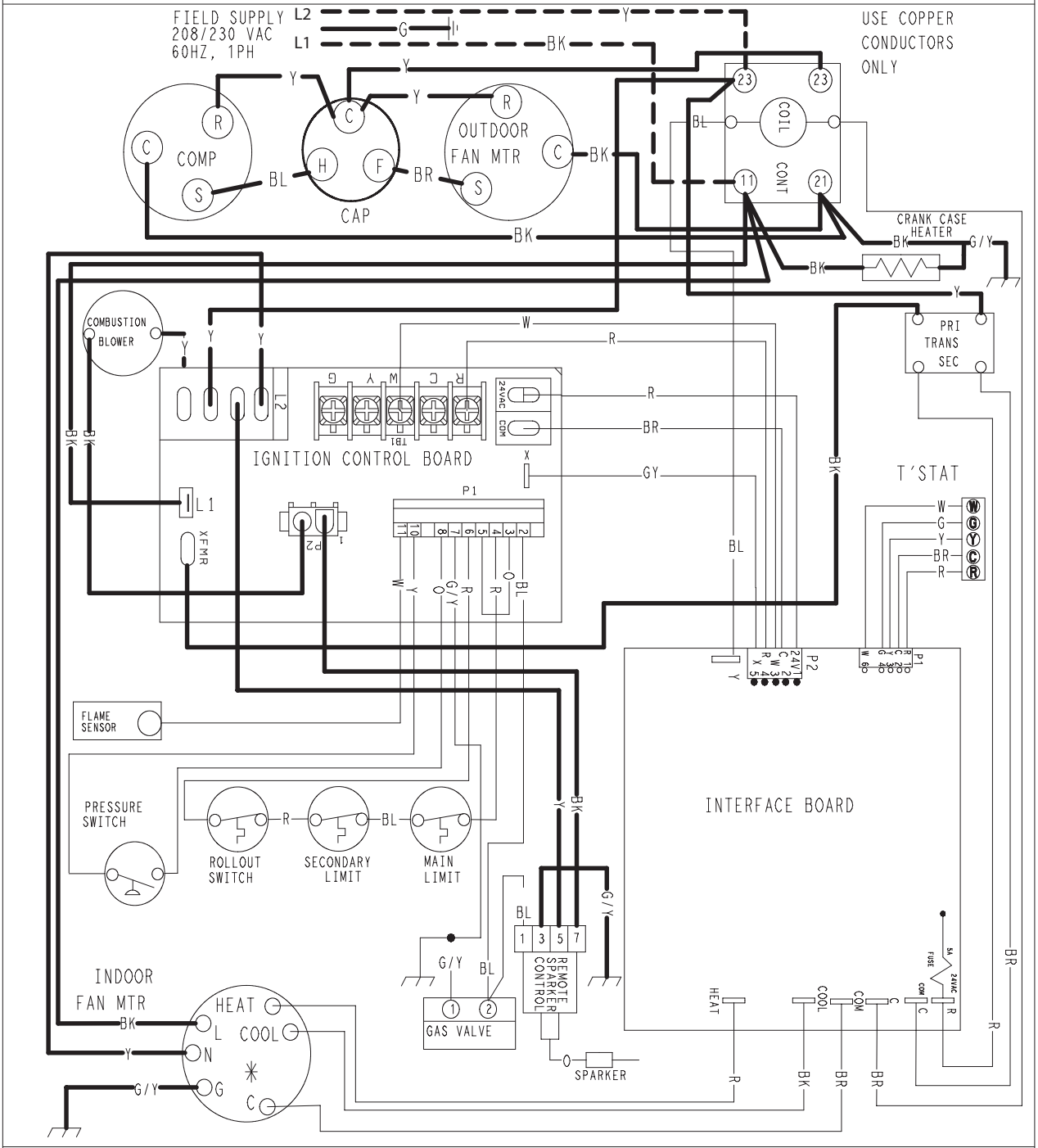
‡ Sensible Heat Ratio (Sensible Capacity / Net Capacity)

†† 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 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree below 80°F, or add 835 Btuh per 1000 cfm of indoor air from MBhxS/T for each degree above 80°F

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. INDOOR FAN MOTOR PLUGS- "Do Not Disconnect Under Load"

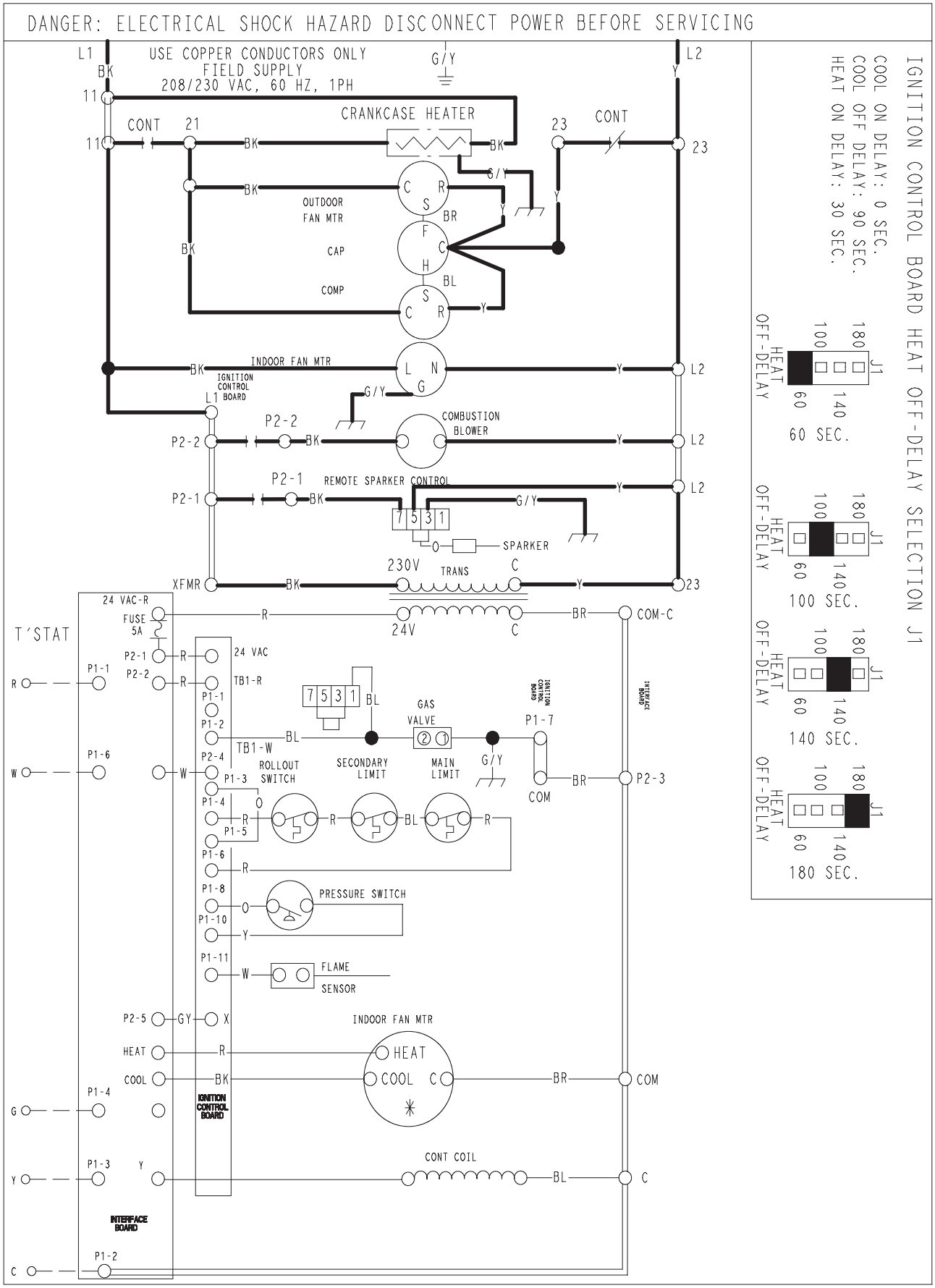
- LINE VOLTAGE FACTORY
- LOW VOLTAGE FIELD
- LOW VOLTAGE FACTORY
- LINE VOLTAGE FIELD
- INTERNAL CIRCUIT BOARD WIRING

COLOR CODE :

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

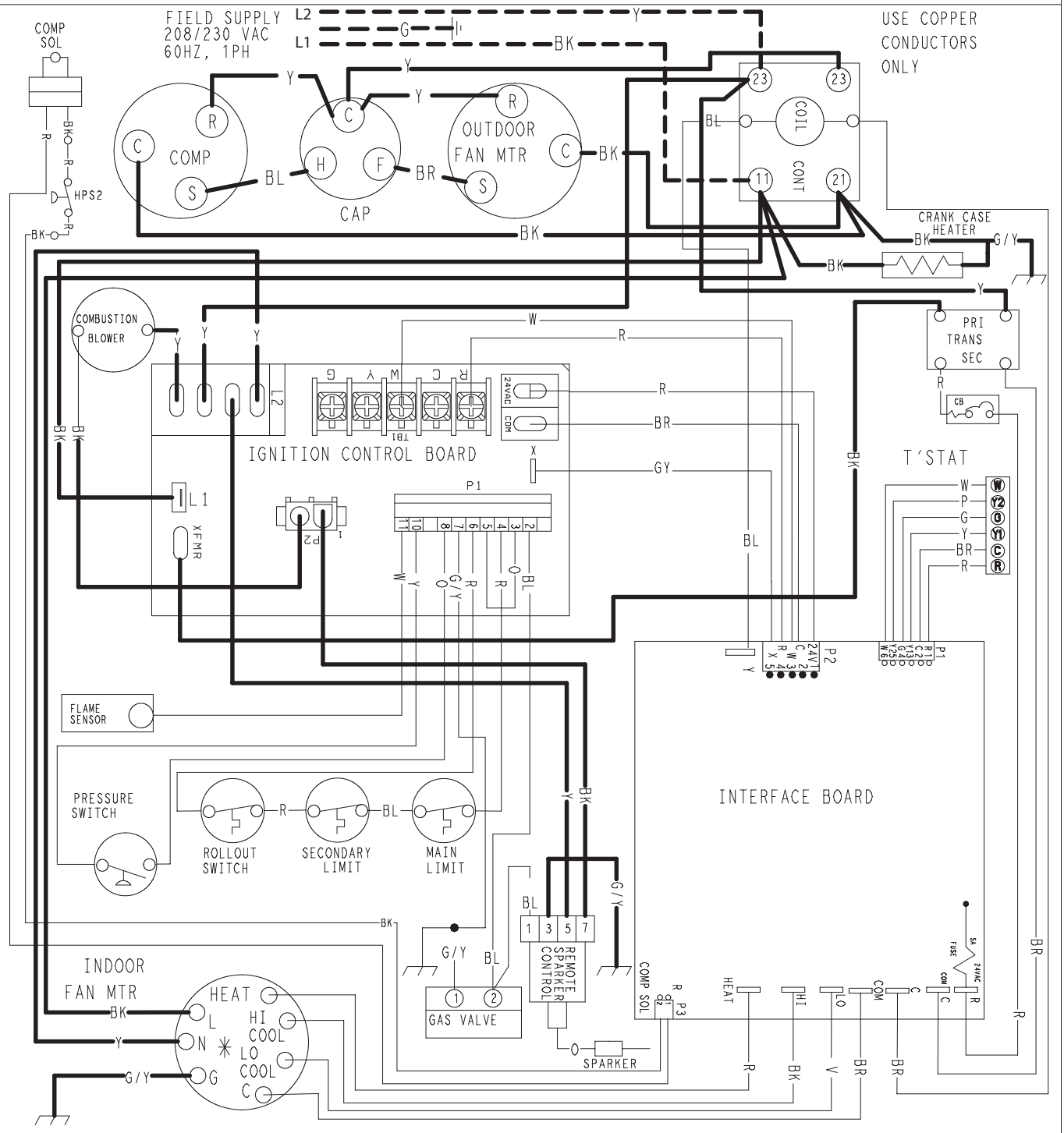
FOR WIRING OF ECONOMIZER ACCESSORY SEE ACCESSORY WIRING LABEL.

LADDER 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. INDOOR FAN MOTOR PLUGS- "Do Not Disconnect Under Load"

LINE VOLTAGE FACTORY	COLOR CODE : BLACK BK	GREEN G	WHITE W
LOW VOLTAGE FIELD	BLUE BL	ORANGE O	YELLOW Y
LOW VOLTAGE FACTORY	BROWN BR	RED R	
LINE VOLTAGE FIELD	GRAY GY	VIOLET V	
INTERNAL CIRCUIT BOARD WIRING	PINK P		

FOR WIRING OF ECONOMIZER ACCESSORY SEE ACCESSORY WIRING LABEL.

LADDER WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING