

Parts List, Tech Labels, Wiring Diagrams

PHS072 SERIES

PACKAGE HEAT PUMP UNITS



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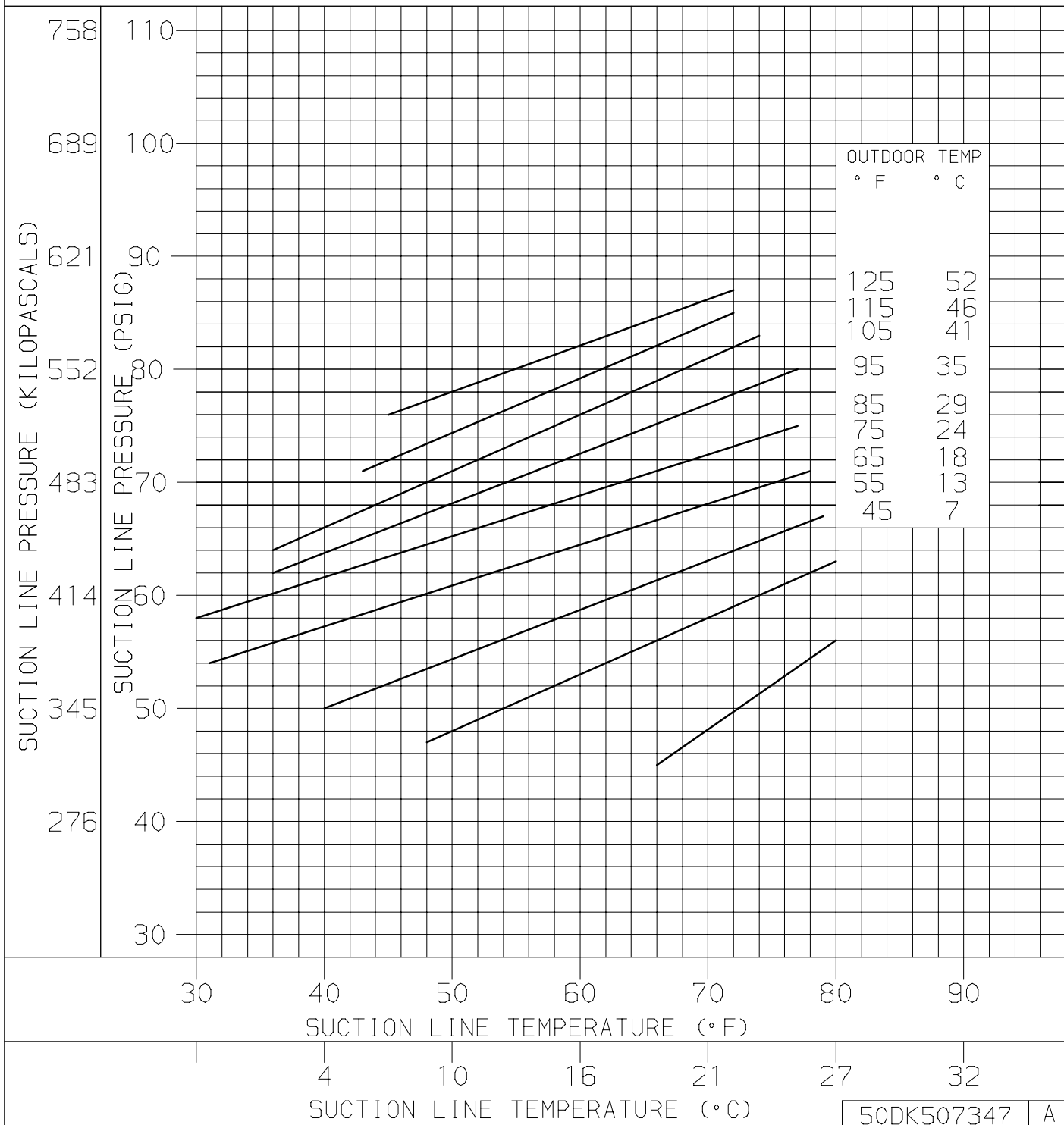
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PHS072

6 TON, CIRCUIT 1, 60HZ

CHARGING CHART



PHS072 PARTS LIST

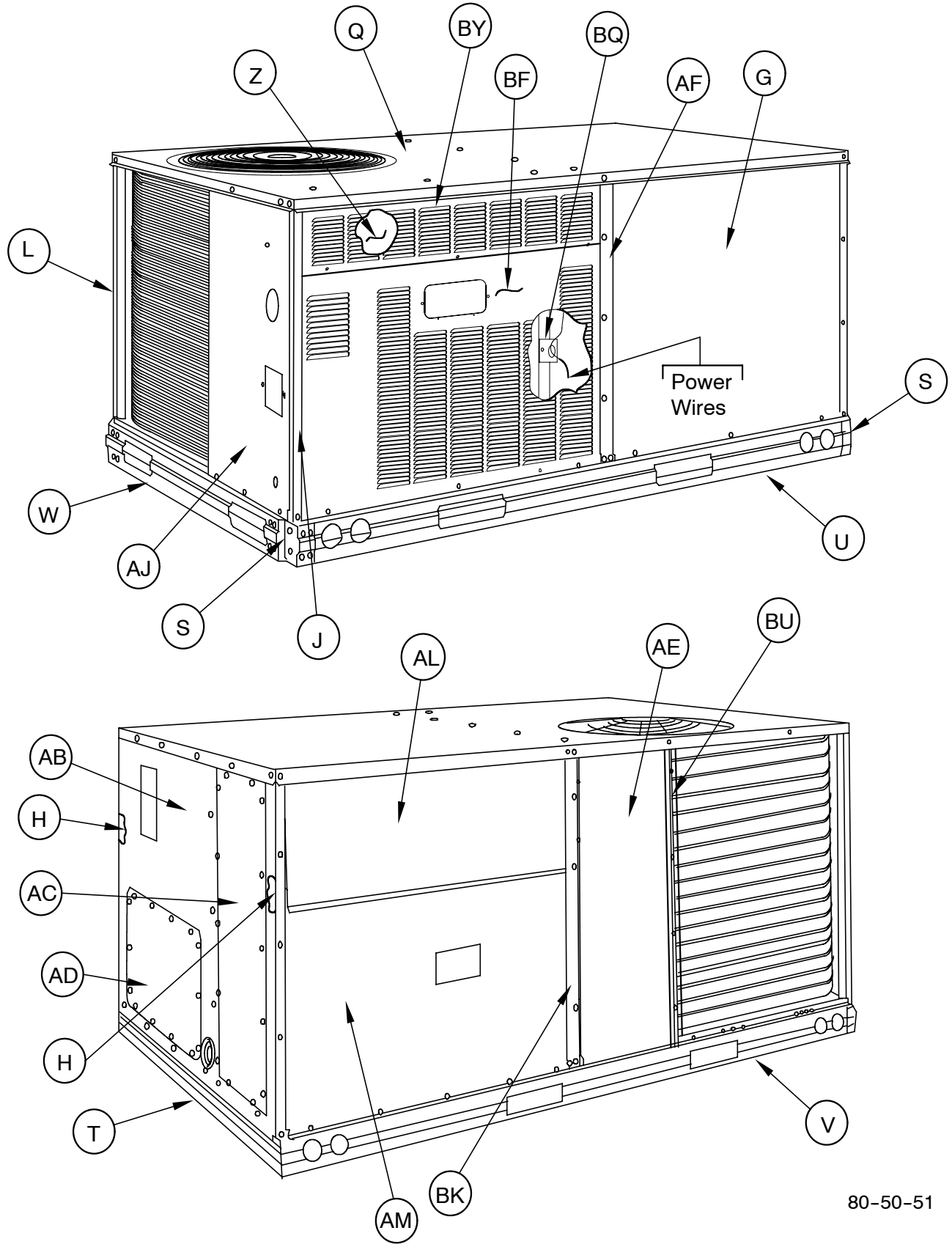
KEY NO.	DESCRIPTION	FAST PARTS NO.	PHS072H000AA	PHS072L000AA	PHS072S000AA
01	CONTACTOR	1171554	1	1	1
02	TRANSFORMER	1171496	1	1	1
03	CAPACITOR	1171807	1	1	1
04	RELAY	1171809	1	1	1
05	TERMINAL BOARD	1171488	1	1	1
06	BLOWER ASY	1175283	1	1	1
07	BEARING	1175424	2	2	2
08	WHEEL,BLOWER	1175318	1	1	1
09	KEY	1175493	1	1	1
10	MOTOR,INDOOR	1175478	1	1	1
11	PULLEY,BLOWER	1175314	1	1	1
12	PULLEY,MOTOR	1175494	1	1	1
13	BELT	1170556	1	1	1
14	COIL ASY,FORMED	1175349	1	1	1
15	COIL ASY	1175346	1	1	1
16	CONDUIT	1171428	1	1	1
17	FILTER	1175312	4	4	4
18	MOTOR,OUTDOOR	1171335	1	1	1
19	PROPELLER,FAN	1171220	1	1	1
20	SWITCH,LIMIT	1171483	1	1	1
21	COMP SRY752AE	1172107	1	1	1
22	SWITCH,THERMAL	1171252	1	1	1
52	SWITCH,PRESSURE	1171805	1	1	1
53	SWITCH,PRESSURE	1175321	1	1	1
55	CIRCUIT BREAKER	1171114	1	1	1
56	RELAY	1171433	1	1	1
58	TERMINAL BLOCK	1171487	1	1	1
59	CIRCUIT BOARD	1171190	1	1	1
62	SWITCH,TEMP	1171481	1	1	1
63	VALVE,4WAY	1173709	1	1	1
64	ACCUMULATOR	1171556	1	1	1
67	COIL, 4-WAY VLV	1172619	1	1	1
68	VALVE,CHECK	1171113	1	1	1
69	STRAINER	1171463	1	1	1
A	SCROLL,FAN	1175260	1	1	1
B	STRAP,CAPACITOR	1171552	1	1	1
C	CONTROL BOX	1175257	1	1	1
D	PLATE,WIRING	1171373	1	1	1
E	SUPPORT BRACKET	1175483	1	1	1
F	BRACKET ASY	1175423	2	2	2
G	PANEL ASY	1175229	1	1	1
H	POST,CORNER	1175230	2	2	2
J	POST,CORNER	1175255	1	1	1
K	PAN ASY	1175243	1	1	1
L	POST,CORNER	1175256	1	1	1
M	DECK,FAN	1175259	1	1	1
N	BRACKET, COIL	1171070	1	1	1
P	PLATE,MOUNTING	1175270	1	1	1
Q	COVER ASY	1175280	1	1	1

PHS072 PARTS LIST (continued)

KEY NO.	DESCRIPTION	FAST PARTS NO.	PHS072H000AA	PHS072L000AA	PHS072S000AA
R	BASE PAN ASY	1175231	1	1	1
S	BRACKET,BASE	1171071	2	2	2
T	GUARD,BASERAIL	1175263	1	1	1
U	RAIL,BASE	1175265	1	1	1
V	RAIL,BASE	1175266	1	1	1
W	RAIL,BASE	1175279	1	1	1
Y	GRILLE,OUTLET	1171267	1	1	1
Z	COVER,CONTROL	1171169	1	1	1
AB	PANEL ASY	1175226	1	1	1
AC	COVER ASY	1175227	1	1	1
AD	COVER,SUPPLY	1175228	1	1	1
AE	PANEL,ACCESS	1175293	1	1	1
AF	POST,CENTER	1175331	1	1	1
AG	PARTITION,GAS	1175292	1	1	1
AH	BRACKET,COIL	1175262	1	1	1
AJ	PANEL,OUTDOOR	1171846	1	1	1
AK	GROMMET	1171270	4	4	4
AL	PANEL ASY	1175241	1	1	1
AM	PANEL ASY	1175242	1	1	1
BF	PANEL,ACCESS	1175341	1	1	1
BK	POST,CENTER	1175254	1	1	1
BL	FRAME ASY	1175238	1	1	1
BP	PLATE ASY, MTR MTG	1175664	1	1	1
BQ	BRACKET,MOUNT	1175335	1	1	1
BR	PANEL,BLOCKOFF	1175337	1	1	1
BS	COVER,HEAT	1175332	2	2	2
BT	BRACKET,HEAT	1175333	1	1	1
BU	PANEL,COIL	1175327	1	1	1
BV	BASE PAN ASY	1175328	1	1	1
CA	PLATE,BLOCKOFF	1175294	1	1	1
PARTS NOT SHOWN					
)	(HARNES ASY	1175343	1	1	1
)	(HARNES ASY	1175344	1	1	1
)	(PLUG,WIRING ASY	1175342	1	1	1
)	(HARNES ASY	1175663	1	1	1
)	(PLUG ASY	1171405	1	1	1

PHS072 6 Ton

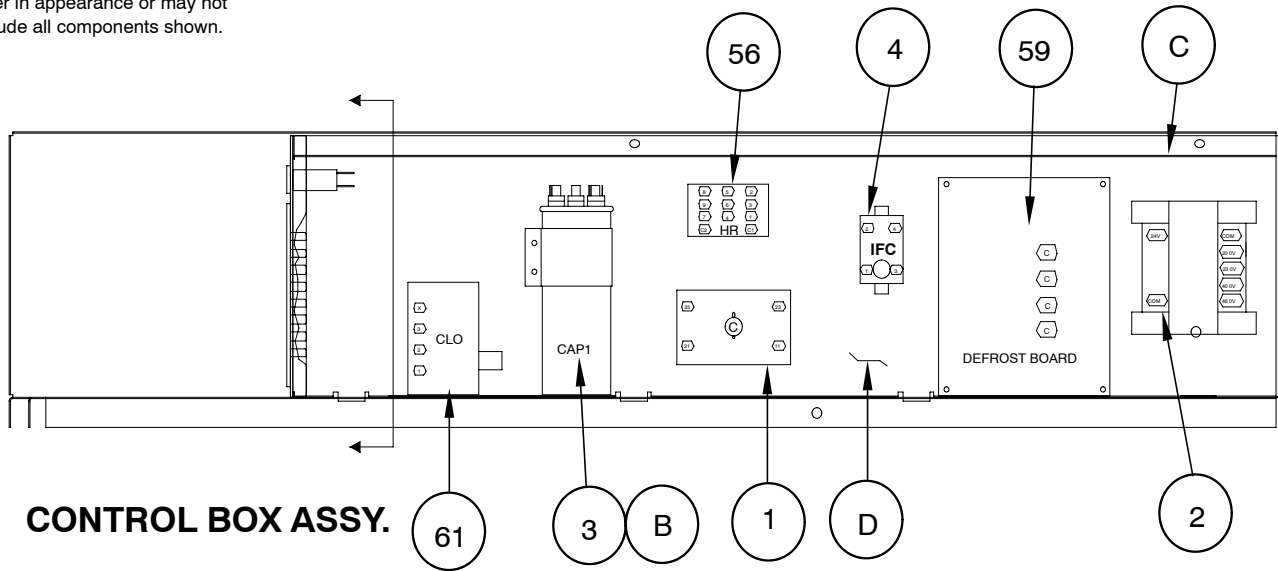
NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown.



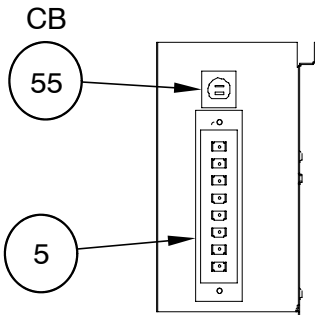
80-50-51

PHS072 6 Ton

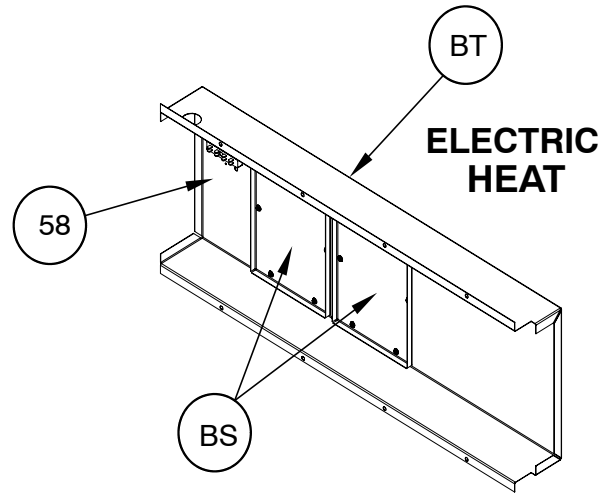
NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown.



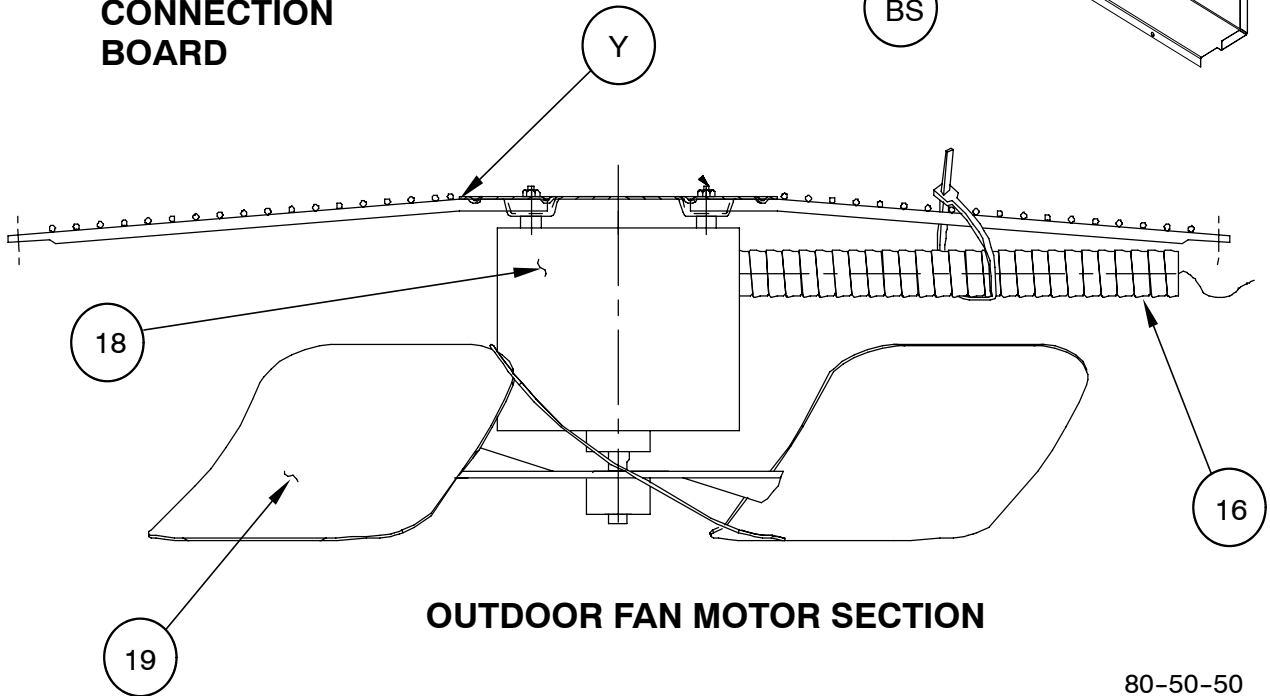
CONTROL BOX ASSY.



CONNECTION BOARD



ELECTRIC HEAT

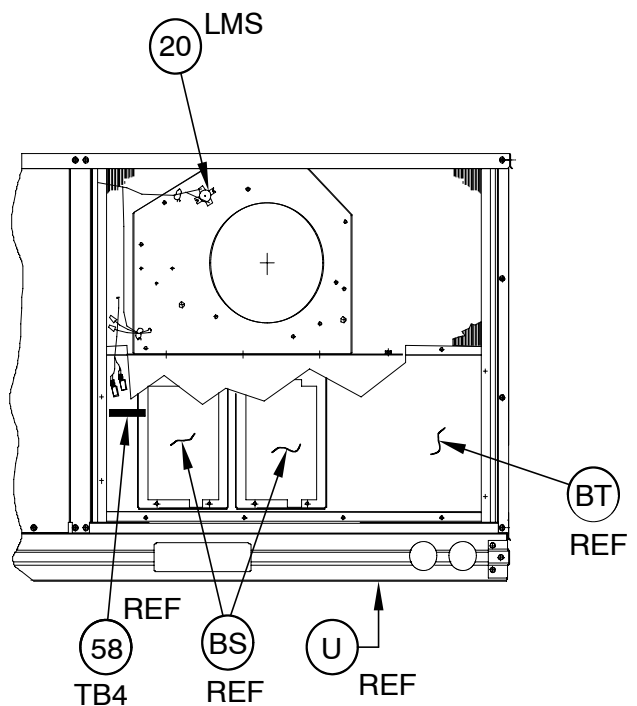
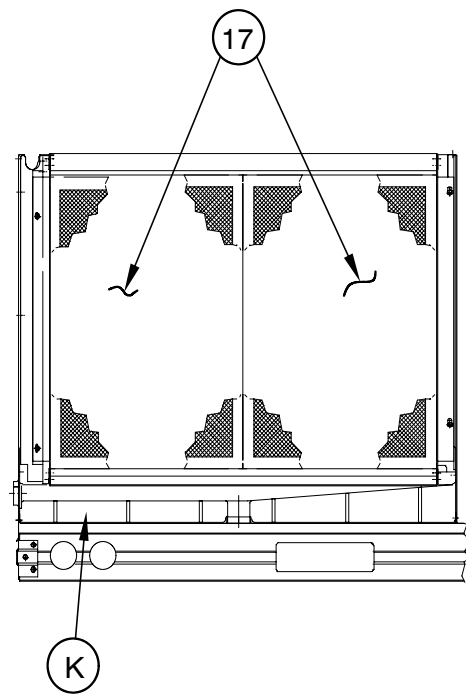
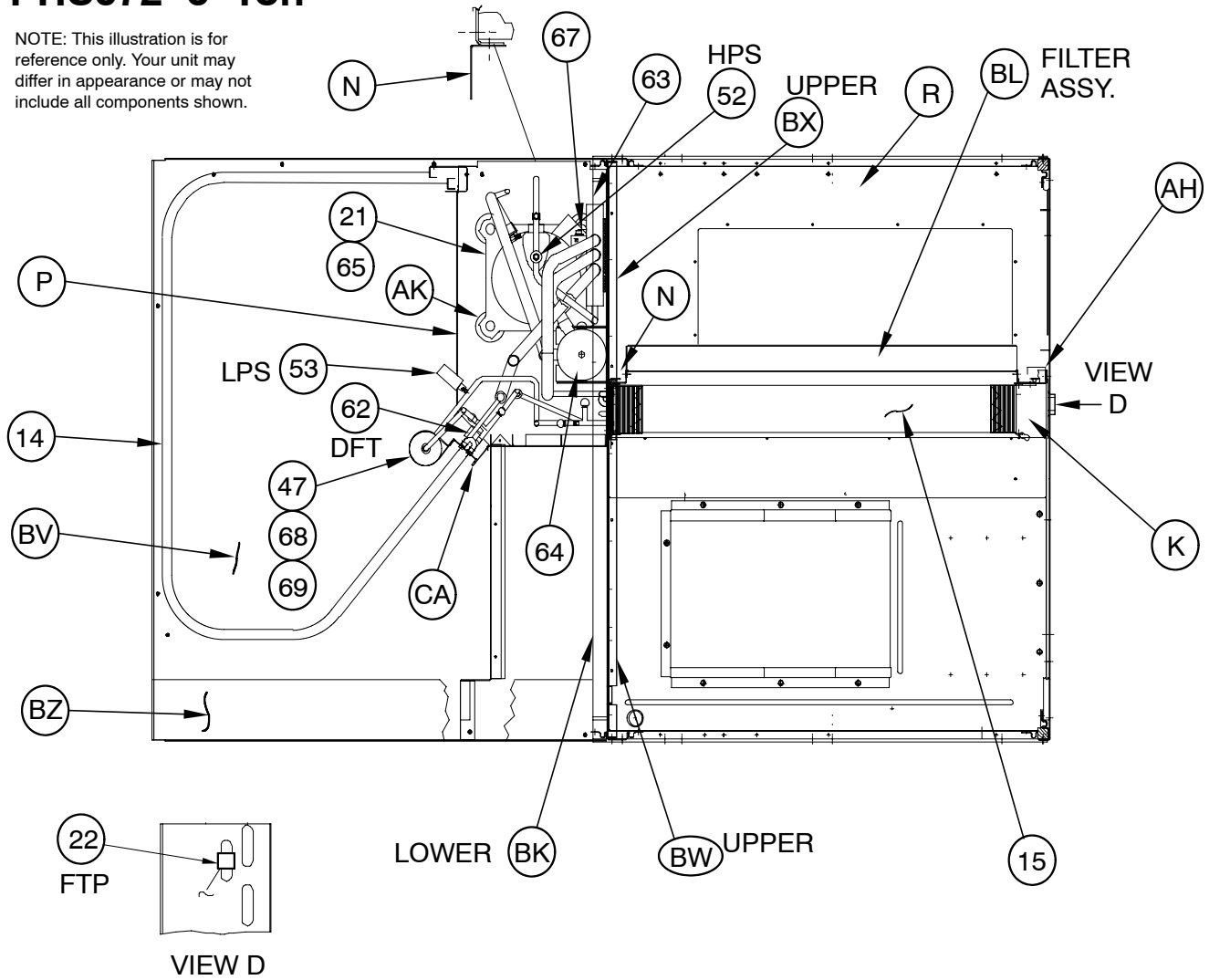


OUTDOOR FAN MOTOR SECTION

80-50-50

PHS072 6 Ton

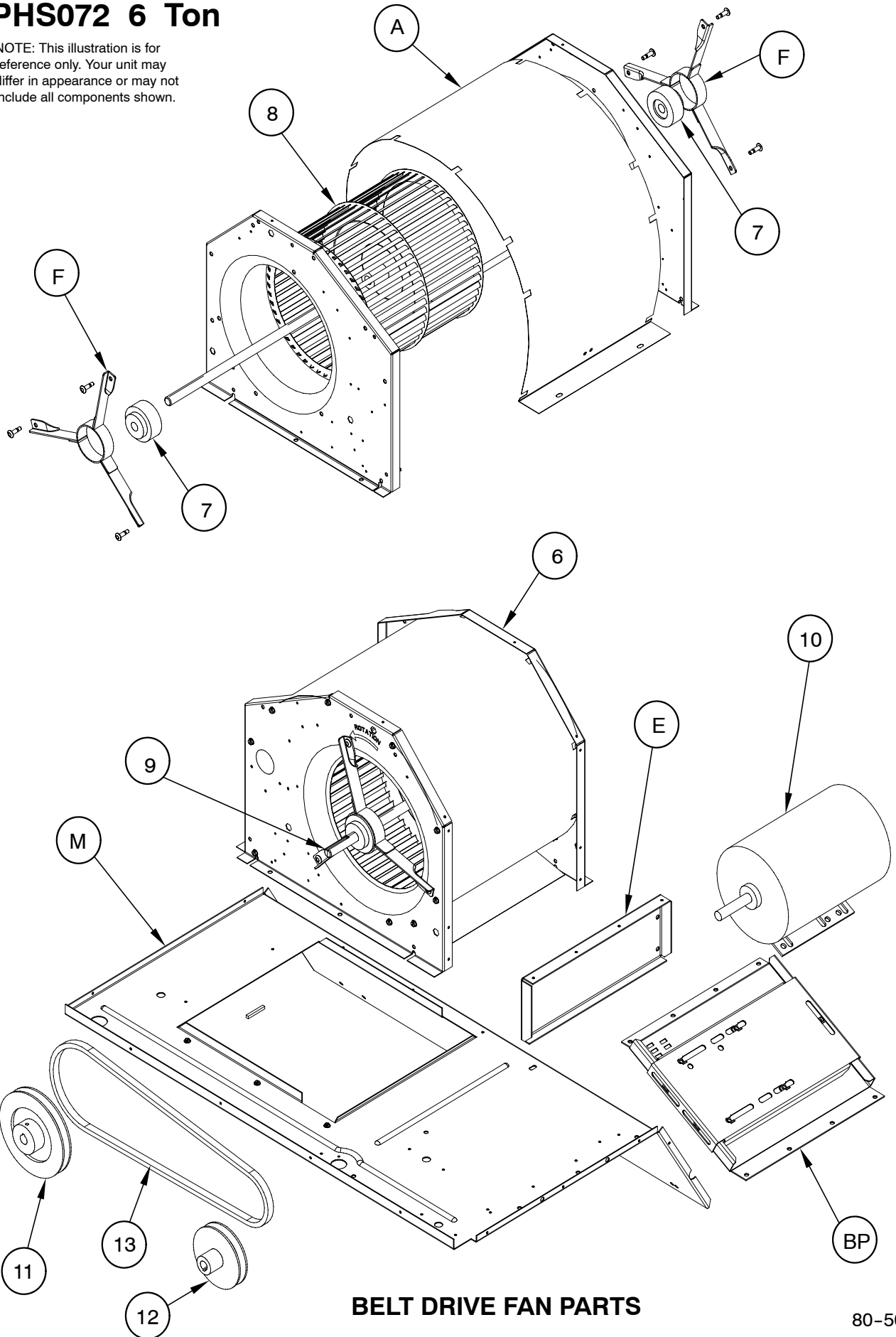
NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown.



80-50-49

PHS072 6 Ton

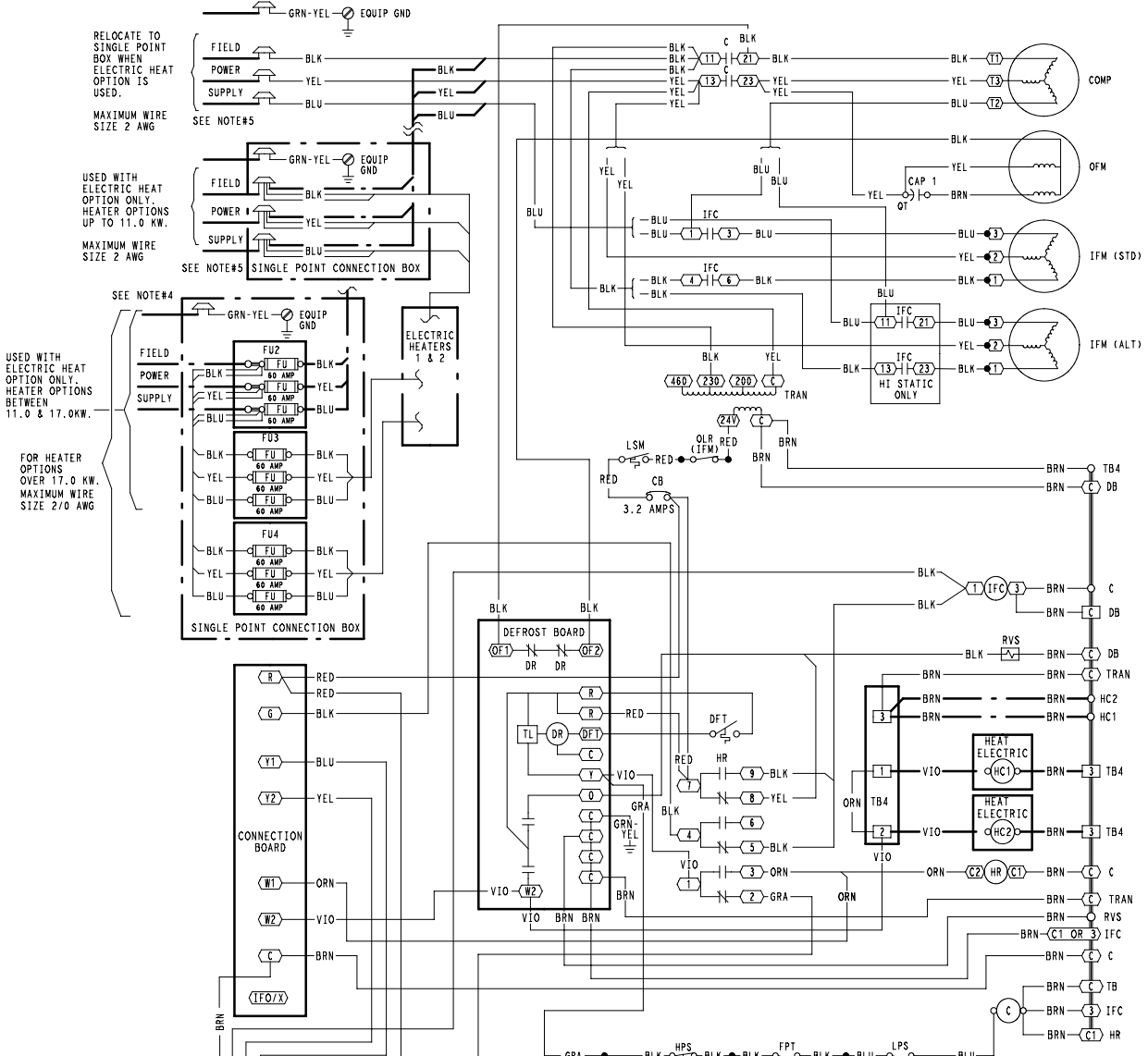
NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown.



BELT DRIVE FAN PARTS

80-50-52

PHS072 208 - 230 - 3 - 60



RELOCATE TO SINGLE POINT CONNECTION BOX WHEN ELECTRIC HEAT OPTION IS USED.
MAXIMUM WIRE SIZE 2 AWG

USED WITH ELECTRIC HEAT OPTION ONLY. HEATER OPTIONS UP TO 11.0 KW.
MAXIMUM WIRE SIZE 2 AWG

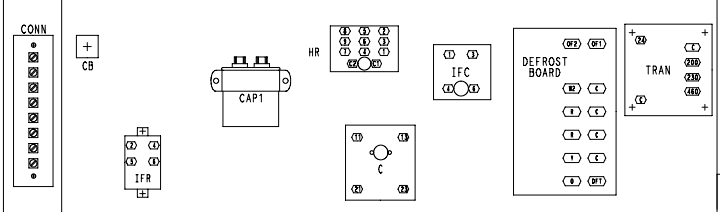
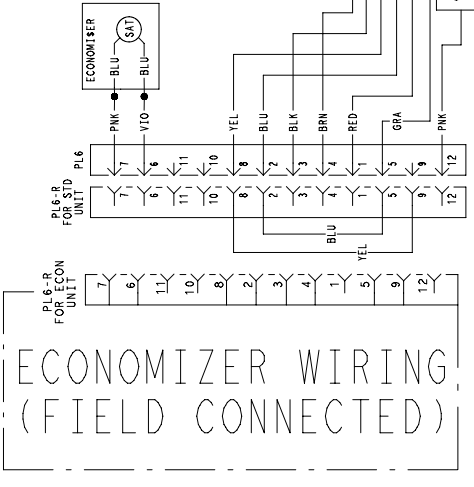
FOR HEATER OPTIONS OVER 17.0 KW. HEATER OPTIONS BETWEEN 11.0 & 17.0 KW.
MAXIMUM WIRE SIZE 2/0 AWG

- NOTES**
- IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 - COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
 - TRAN IS WIRED FOR 230V UNIT. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY DISCONNECT BLK WIRE FROM 230V TAP (ORN) AND CONNECT TO 208V TAP (RED). INSULATE END OF 230V WIRE.
 - USE COPPER, COPPER CLAD, ALUMINUM OR ALUMINUM CONNECTORS.
 - USE COPPER CONDUCTOR ONLY.

VOLTAGE RATING	CB	MUST
	MFG. PT. NO.	TRIP
24V	POTTER & BRUMFIELD	AMPS
	W28X-1024-3.2	3.2

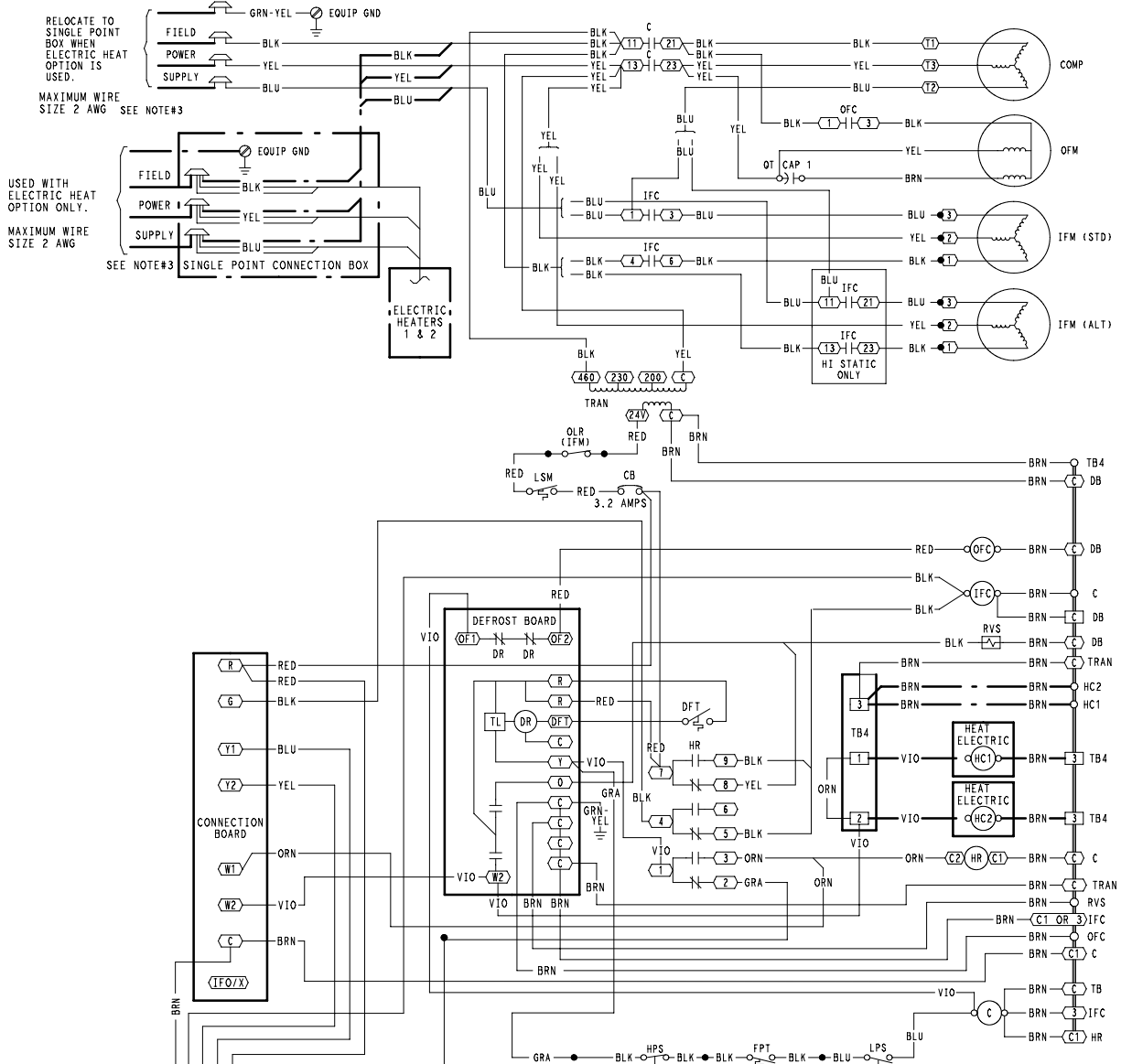
- LEGEND**
- FIELD SPLICE
 - MARKED WIRE
 - TERMINAL (MARKED)
 - TERMINAL (UNMARKED)
 - TERMINAL BLOCK
 - SPLICE
 - SPLICE (MARKED)
 - FACTORY WIRING
 - FIELD CONTROL WIRING
 - FIELD POWER WIRING
 - ACCESSORY OR OPTIONAL WIRING
 - TO INDICATE COMMON POTENTIAL ONLY:
 - NOT TO REPRESENT WIRING

- C CONTACTOR, COMPRESSOR
- CAP CAPACITOR
- CB CIRCUIT BREAKER
- CC COOLING COMPENSATOR
- CLO COMPRESSOR LOCKOUT
- COMP COMPRESSOR MOTOR
- DB DEFROST BOARD
- DFT DEFROST THERMOSTAT
- FPT FREEZE UP PROTECTION THERMOSTAT
- FU FUSE
- GND GROUND
- HC HEAT CONTACTOR (STRIP HEAT)
- HP HEAT PUMP
- HPS HIGH PRESSURE SWITCH
- HR HEATER RELAY
- IAQ INDOOR AIR QUALITY SENSORS
- IARH INDOOR AIR RELATIVE HUMIDITY SEN
- IFC INDOOR FAN CONTACTOR
- IFM INDOOR FAN MOTOR
- LA LOW AMBIENT LOCKOUT
- LPS LOW PRESSURE SWITCH
- LSM LIMIT SWITCH (MANUAL RESET)
- OARH OUTDOOR AIR RELATIVE HUMIDITY SEN
- OAT OUTDOOR AIR TEMP. SEN
- OAT OUTDOOR FAN MOTOR
- OLR OVERLOAD RELAY
- P PLUG
- PL PLUG ASSEMBLY
- POT POTENTIOMETER
- QT QUADRUPLER TERMINAL
- R RELAY
- RAT RETURN AIR TEMP. SEN
- RVS REVERSING VALVE SOLENOID
- SAT SUPPLY AIR TEMP. SEN
- TB TERMINAL BLOCK
- TDR TIME DELAY RELAY
- TRAN TRANSFORMER



50DK509548 | 2.0

PHS072 460 - 3 - 60



RELOCATE TO SINGLE POINT BOX WHEN ELECTRIC HEAT OPTION IS USED.
MAXIMUM WIRE SIZE 2 AWG SEE NOTE#3

USED WITH ELECTRIC HEAT OPTION ONLY.
MAXIMUM WIRE SIZE 2 AWG
SEE NOTE#3

SINGLE POINT CONNECTION BOX

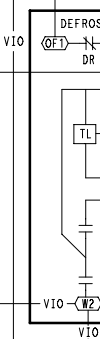
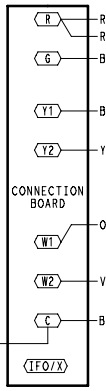
ELECTRIC HEATERS 1 & 2

HI STATIC ONLY

460 (230) (200) C

24V

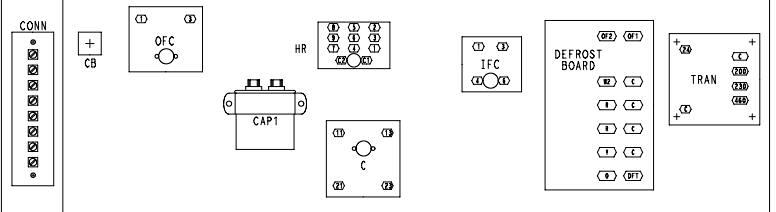
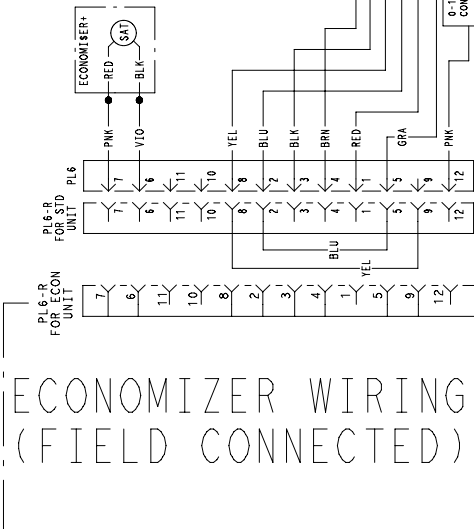
3.2 AMPS



- NOTES
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED. IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 2. COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
 3. USE COPPER CONDUCTORS ONLY.
 4. VOLTAGE RATING CB MUST

VOLTAGE RATING	CB MFG. PT. NO.	MUST TRIP AMPS
24V	POTTER & BRUMFIELD W28X-1024-3.2	3.2

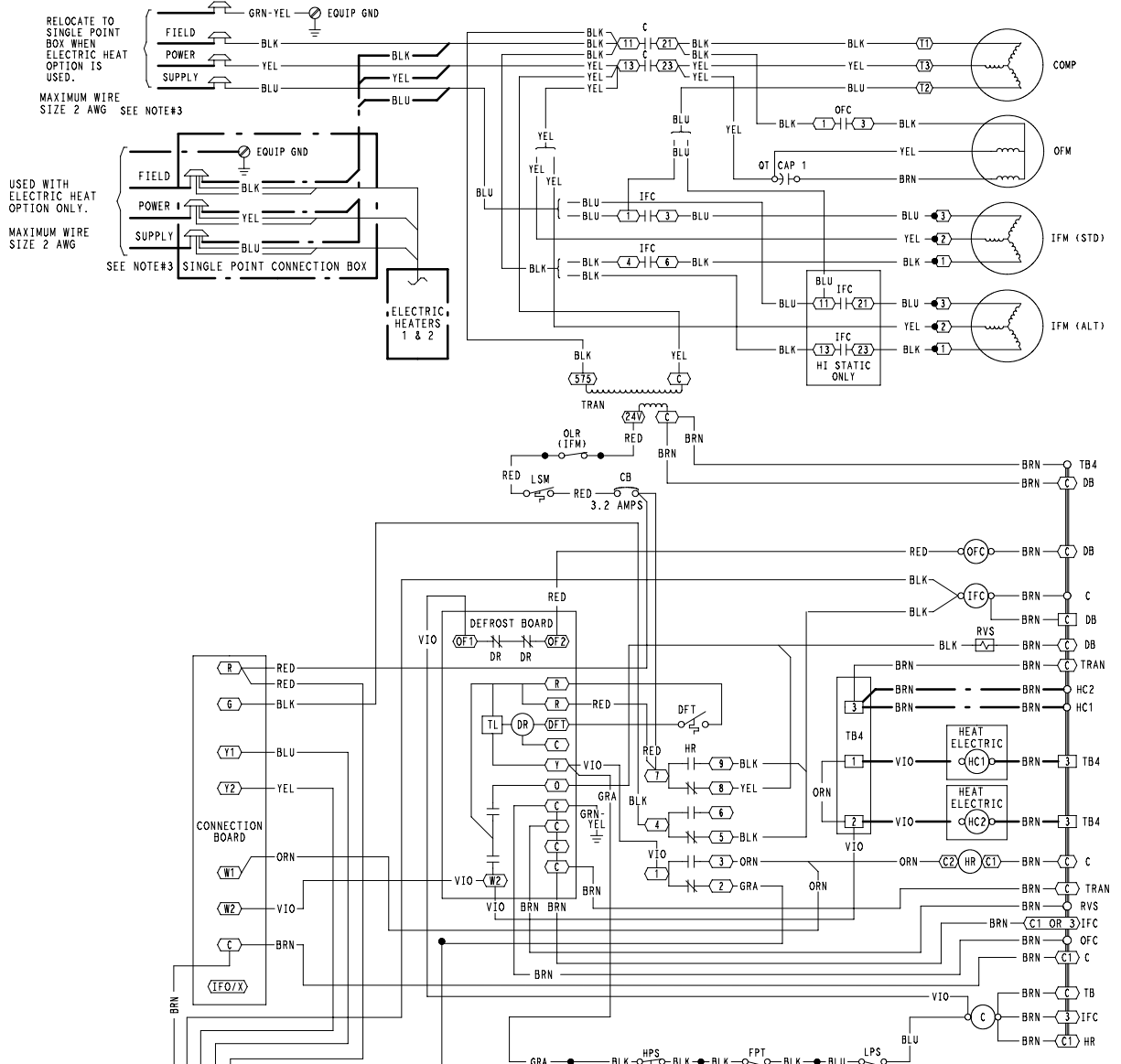
- LEGEND
- FIELD SPLICE
 - MARKED WIRE
 - TERMINAL (MARKED)
 - TERMINAL (UNMARKED)
 - TERMINAL BLOCK
 - SPLICE
 - SPLICE (MARKED)
 - FACTORY WIRING
 - FIELD CONTROL WIRING
 - FIELD POWER WIRING
 - ACCESSORY OR OPTIONAL WIRING
 - TO INDICATE COMMON POTENTIAL ONLY; NOT TO REPRESENT WIRING



50DK509549 2.0

COMPONENT ARRANGEMENT

PHS072 575 - 3 - 60



- NOTES
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90 C WIRE OR ITS EQUIVALENT.
 2. COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED. THREE PHASE MOTORS ARE PROTECTED AGAINST PRIMARY SINGLE PHASING CONDITIONS.
 3. USE COPPER CONDUCTOR ONLY.
 4.

VOLTAGE RATING	CB MFG. PT. NO. POTTER & BRUMFIELD W28-X0TA-3.2	MUST TRIP AMPS 3.2
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- LEGEND
- FIELD SPLICE
 - MARKED WIRE
 - TERMINAL (MARKED)
 - TERMINAL (UNMARKED)
 - TERMINAL BLOCK
 - 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, COMPRESSOR
CAP CAPACITOR
CB CIRCUIT BREAKER
CC COOLING COMPENSATOR
CLO COMPRESSOR LOCKOUT
COMP COMPRESSOR MOTOR
DB DEFROST BOARD
DFT DEFROST THERMOSTAT
FPT FREEZE UP PROTECTION THERMOSTAT
FU FUSE
GND GROUND
HC HEATER CONTACTOR (STRIP HEAT)
HP HEAT PUMP
HPS HIGH PRESSURE SWITCH
HR HEATER RELAY
IAQ INDOOR AIR QUALITY SENSORS
IARH INDOOR AIR RELATIVE HUMIDITY SEN
IFC INDOOR FAN CONTACTOR
IFM INDOOR FAN MOTOR
LA LOW AMBIENT LOCKOUT
LPS LOW PRESSURE SWITCH
LSM LIMIT SWITCH (MANUAL RESET)
OARH OUTDOOR AIR RELATIVE HUMIDITY SEN
OAT OUTDOOR AIR TEMP. SEN
OFM OUTDOOR FAN MOTOR
OLR OVERLOAD RELAY
P PLUG
PL PLUG ASSEMBLY
POT POTENTIOMETER
QT QUADRUPE TERMINAL
R RELAY
RAT RETURN AIR TEMP. SEN
RVS REVERSING VALVE SOLENOID
SAT SUPPLY AIR TEMP. SEN
TB TERMINAL BLOCK
TDR TIME DELAY RELAY
TRAN TRANSFORMER

