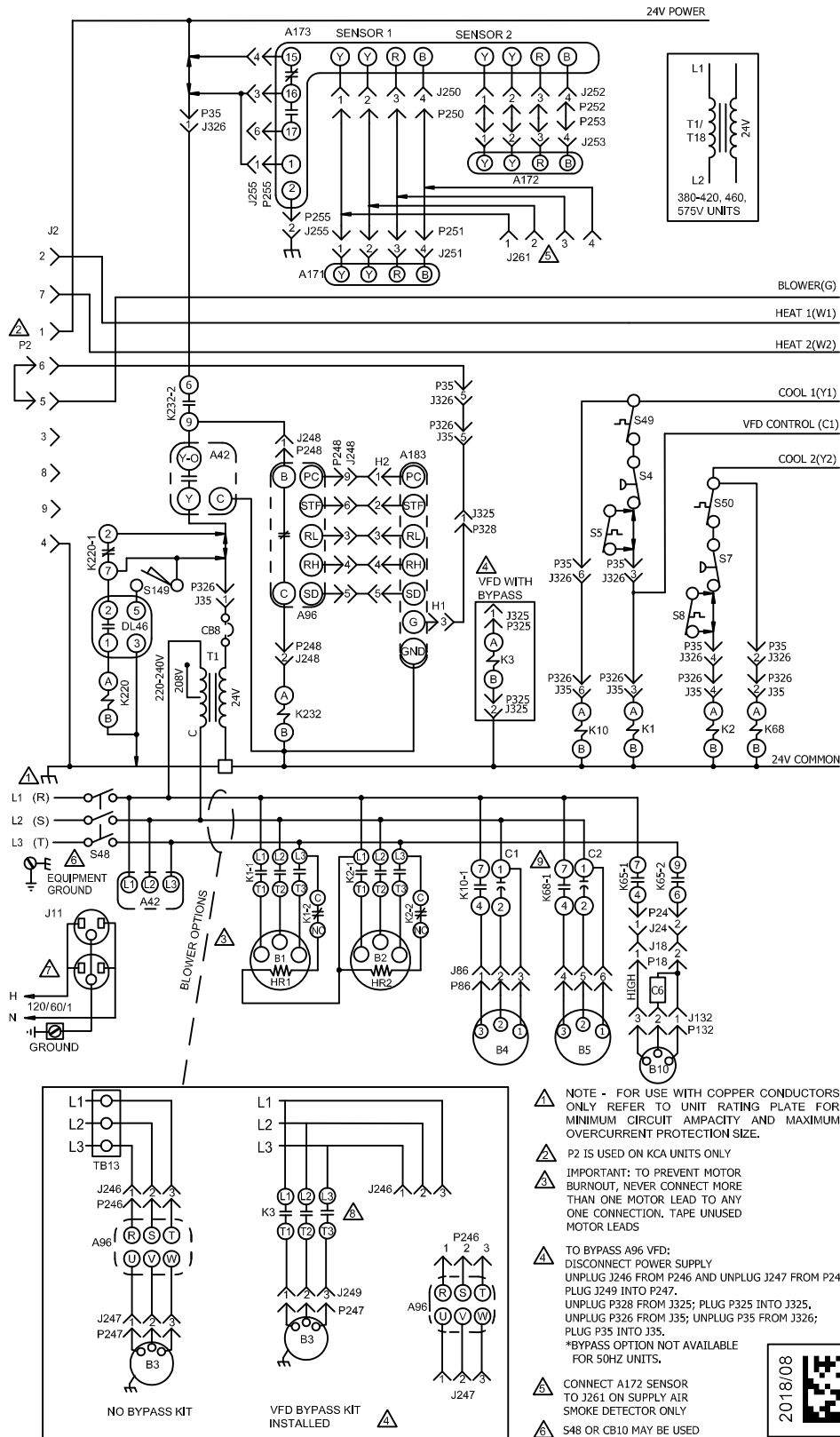




KEY	COMPONENT
A42	MONITOR, PHASE PROTECTION
A96	CONTROL, INVERTER
A171	SENSOR ONE, SMOKE, RETURN AIR
A172	SENSOR TWO, SMOKE, SUPPLY AIR
A173	MODULE, CONTROL SMOKE DETECTION
A183	CONTROL, VFD BOARD
B1	COMPRESSOR 1
B2	COMPRESSOR 2
B3	MOTOR, BLOWER
B4	MOTOR, OUTDOOR FAN 1
B5	MOTOR, OUTDOOR FAN 2
B10	MOTOR, EXHAUST FAN 1
C1	CAPACITOR, OUTDOOR FAN 1
C2	CAPACITOR, OUTDOOR FAN 2
C6	CAPACITOR, EXHAUST FAN 1
CB8	CIRCUIT, BREAKER T1
DL46	DELAY, OVERFLOW SWITCH
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
J11	JACK, GFI, RECEPTACLE
K1-1,-2	CONTACTOR, COMPRESSOR 1
K2-1,-2	CONTACTOR, COMPRESSOR 2
K3, -1	CONTACTOR, BLOWER
K10-1	RELAY, OUTDOOR FAN 1
K65-1,2	RELAY, EXHAUST FAN
K68-1	RELAY, OUTDOOR FAN 2
K220-1	RELAY, OVERFLOW DELAY
K232-2	RELAY, INVERTER PROTECTION
S4	SWITCH, LIMIT HI PRESS COMP 1
S5	SWITCH, LIMIT HI TEMP COMPRESSOR 1
S7	SWITCH, LIMIT HI PRESS COMP 2
S8	SWITCH, LIMIT HI TEMP COMPRESSOR 2
S48	SWITCH, DISCONNECT
S49	SWITCH, FREEZESTAT COMP 1
S50	SWITCH, FREEZESTAT COMP 2
S149	SWITCH, OVERFLOW
T1	TRANSFORMER, CONTROL
T18	TRANSFORMER, REHEAT
TB13	TERMINAL STRIP, POWER DISTRIBUTION

J/P	JACK/PLUG DESCRIPTION
2	HEAT
18	EXHAUST FAN COMPT
24	EXHAUST FAN
35	RUN TEST
86	OUTDOOR FANS 1
132	EXHAUST FAN MOTOR 1
246	POWER TO VFD
247	POWER VFD TO MOTOR
248	VFD CONTROL
249	CONTACTOR BYPASS
250	SMOKE DETECTOR ONE
251	SMOKE DETECTOR ONE
252	SMOKE DETECTOR TWO
253	SMOKE DETECTOR TWO
255	MODULE, CONTROL SMOKE DETECTION
261	SMOKE DETECTOR JUMPER
326	VFD CONTROL ADD-ON
328	VFD CONTROL ADD-ON
H1	HEADER 1, A183 VFD BOARD
H2	HEADER 2, A183 VFD BOARD

NOTE - FOR USE WITH COPPER CONDUCTORS ONLY REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.

P2 IS USED ON KCA UNITS ONLY

IMPORTANT: TO PREVENT MOTOR BURNOUT, NEVER CONNECT MORE THAN ONE MOTOR LEAD TO ANY ONE CONNECTION. TAPE UNUSED MOTOR LEADS

TO BYPASS A96 VFD: DISCONNECT POWER SUPPLY UNPLUG J246 FROM P246 AND UNPLUG J247 FROM P247. PLUG J249 INTO P247. UNPLUG P328 FROM J325; PLUG P325 INTO J325. UNPLUG P326 FROM J35; UNPLUG P35 FROM J326; PLUG P35 INTO J35. *BYPASS OPTION NOT AVAILABLE FOR 50HZ UNITS.

CONNECT A172 SENSOR TO J261 ON SUPPLY AIR SMOKE DETECTOR ONLY

S48 OR CB10 MAY BE USED

120V FIELD PROVIDED POWER SUPPLY IS REQUIRED

K3 REPLACES TB13 WHEN A96 VFD BYPASS OPTION IS INSTALLED

REFERENCE LOW AMBIENT KIT INSTRUCTIONS FOR WIRING DIAGRAM WHEN KIT IS INSTALLED

— DENOTES OPTIONAL COMPONENTS
— LINE VOLTAGE FIELD INSTALLED

2018/08



WIRING DIAGRAM

18/08

537906-02

COOLING

KC/KG 150S - G, J, Y, M
VFD UNITS

SECTION B

REV. 0

Supersedes

537906-01

New Form No.

537906-02