



J/P	JACKPLUG DESCRIPTION
2	HEAT
18	EXHAUST FAN COMP1
24	EXHAUST FAN
A171	SENSOR ONE, SMOKE, RETURN AIR
A172	SENSOR TWO, SMOKE, SUPPLY AIR
35	TEST
36	TEST COOL
47	OUTDOOR FAN 1
52	OUTDOOR FAN 2
86	OUTDOOR FANS 1,2
87	OUTDOOR FANS 3,4
106	OUTDOOR FAN 3
132	EXHAUST FAN MOTOR 1
133	EXHAUST FAN MOTOR 2
246	POWER VFD TO MOTOR
247	VFD CONTROL
248	CONTACTOR BYPASS
249	SMOKE DETECTOR ONE
250	SMOKE DETECTOR ONE
251	SMOKE DETECTOR TWO
252	SMOKE DETECTOR TWO
253	SMOKE DETECTOR TWO
255	MODULE, CONTROL SMOKE DETECTION
324	VFD OPTION CONNECTION
325	K3 BLOWER CONTROL
326	PHASE MONITOR/VFD CONTROL ADD ON
327	PHASE MONITOR/VFD CONTROL ADD ON
328	VFD BLOWER CONTROL

NOTE - IF ANY WIRE IN THIS APPLIANCE IS REPLACED IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, TERMINATION AND INSULATION THICKNESS

WARNING - ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

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
B11	MOTOR, EXHAUST FAN 2
B13	COMPRESSOR 3
B21	MOTOR, OUTDOOR FAN 3
B22	MOTOR, OUTDOOR FAN 4
C1	CAPACITOR, OUTDOOR FAN 1
C2	CAPACITOR, OUTDOOR FAN 2
C6	CAPACITOR, EXHAUST FAN 1
C8	CAPACITOR, EXHAUST FAN 2
C18	CAPACITOR, OUTDOOR FAN 3
C19	CAPACITOR, OUTDOOR FAN 4
C88	CIRCUIT, BREAKER T1
C810	CIRCUIT, BREAKER MAIN DISCONNECT
C818	CIRCUIT, BREAKER T18
DL46	DELAY, OVERFLOW SWITCH
F6	FUSE, EXHAUST FAN
F10	FUSE, OUTDOOR FAN MOTOR
F10	HEADER 2, LVCI
HR1	HEATER, COMPRESSOR 1
HR2	HEATER, COMPRESSOR 2
HR5	HEATER, COMPRESSOR 3
J11	JACK, GFI, RECEPTACLE
J261	JACK, SMOKE DETECTOR JUMPER
K1-1	CONTACTOR, COMPRESSOR 1
K2-1	CONTACTOR, COMPRESSOR 2
K3-1	CONTACTOR, BLOWER
K10-1,2	RELAY, OUTDOOR FAN
K14-1	CONTACTOR, COMPRESSOR 3
K65-1,2	RELAY, EXHAUST FAN 1
K66-1	RELAY, STAGE COOL. 1
K67-1	RELAY, STAGE COOL. 2
K148-1,2	RELAY, OUTDOOR FAN 3 & 4
K220-1	RELAY, OVERFLOW SWITCH
K232	RELAY, INVERTER PROTECTION
S4	SWITCH, LIMIT HI PRESS COMP 1 (MANUAL RESET)
S5	SWITCH, LIMIT HI TEMP COMPRESSOR 1
S7	SWITCH, LIMIT HI PRESS COMP 2 (MANUAL RESET)
S8	SWITCH, LIMIT HI TEMP COMPRESSOR 2
S11	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 1
S28	SWITCH, LIMIT HI PRESS COMP 3 (MANUAL RESET)
S31	SWITCH, LIMIT HI TEMP COMPRESSOR 3
S42	SWITCH, OVERLOAD RELAY BLOWER MOTOR
S48	SWITCH, DISCONNECT
S49	SWITCH, FREEZE/STAT COMP 1
S50	SWITCH, FREEZE/STAT COMP 2
S53	SWITCH, FREEZE/STAT COMP 3
S54	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 2
S55	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 3
S149	SWITCH, OVERFLOW
T1	TRANSFORMER, CONTACTOR
T18	TRANSFORMER, CONTACTOR CONTROL
TB13	TERMINAL STRIP, POWER DISTRIBUTION

- 1. USED WITH VFD CONTROL VFD OPERATION
- 2. USED WITH VFD CONTROL WITH BYPASS OPERATION
- 548 OR CB10 MAY BE USED
- F10 USED ON 240/300S V-VOLTAGE UNITS ONLY
- DISCONNECT ALL POWER TO BYPASS A96 VFD
- UNPLUG - J246 FROM P246; AND UNPLUG J247 FROM P247, PLUG - P249 INTO J246; AND PLUG J249 INTO P249, UNPLUG - J326 FROM P324; AND UNPLUG J324 FROM P327 PLUG - P324 INTO J324
- 542 USED ON UNIT WITH 10 HP MOTOR AND VFD BYPASS
- F6 USED ON V-VOLT UNITS WITH FIELD INSTALLED POWER EXHAUST
- S5, S8, S31 USED ON 180H UNITS ONLY

01/13

WIRING DIAGRAM

01/13

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COOLING

KCA/KGA - 240S,300S, 180H - G,J,Y - VFD

SECTION B

FORM NUMBER

REV. 0

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Supersedes