



J/P	JACKPLUG DESCRIPTION
2	HEAT
18	EXHAUST FAN COMP
24	EXHAUST FAN
35	TEST
36	TEST COOL
47	OUTDOOR FAN 1
52	OUTDOOR FAN 2
86	OUTDOOR FAN 3
106	OUTDOOR FAN 1
132	EXHAUST FAN MOTOR 1
133	EXHAUST FAN MOTOR 2
246	POWER VFD TO MOTOR
247	POWER VFD TO MOTOR
248	VFD CONTROL
249	CONTRACTOR BYPASS
250	SMOKE DETECTOR ONE
251	SMOKE DETECTOR ONE
252	SMOKE DETECTOR TWO
253	SMOKE DETECTOR TWO
255	MODULE, CONTROL SMOKE DETECTION
324	VFD OPTION CONNECTION
325	VFD CONTROL ADD-ON
326	VFD CONTROL ADD-ON
327	VFD CONTROL ADD-ON
328	VFD BLOWER CONTROL

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
B21	MOTOR, OUTDOOR FAN 3
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
C88	CIRCUIT, BREAKER T1
CB10	CIRCUIT, BREAKER MAIN DISCONNECT
DL46	DELAY, OVERFLOW SWITCH
F6	FUSE, EXHAUST FAN
H2	HEADER 2, LVCI
HR1	HEATER, COMPRESSOR 1
HR2	HEATER, COMPRESSOR 2
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
K55-1,2	RELAY, EXHAUST FAN 1
K66-1	RELAY, STAGE COOL 1
K67-1	RELAY, STAGE COOL 2
K68-1,2	RELAY, OUTDOOR FAN 2
K203-2	RELAY, VFD RUN
K220-1	RELAY, OVERFLOW SWITCH
K232	RELAY, INVERTER PROTECTION
S4	SWITCH, LIMIT HI PRESS COMP 1 (MANUAL RESET)
S7	SWITCH, LIMIT HI PRESS COMP 2
S11	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 1
S48	SWITCH, DISCONNECT
S49	SWITCH, FREEZESTAT COMP 1
S50	SWITCH, FREEZESTAT COMP 2
S84	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 2
S149	SWITCH, OVERFLOW
T1	TRANSFORMER, CONTROL
TB13	TERMINAL STRIP, POWER DISTRIBUTION

1. USED WITH VFD CONTROL VFD OPERATION

2. USED WITH VFD CONTROL WITH BYPASS OPERATION

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

P2 15 USED ON KCA UNITS ONLY

CONNECT A173 SENSOR TO J261 ON SUPPLY AIR

SMOKE DETECTOR ONLY

S48 OR CB10 MAY BE USED

F6 ONLY USED ON "V" VOLTAGE UNITS WITH FIELD INSTALLED POWER EXHAUST

DENOTES OPTIONAL COMPONENTS

LINE VOLTAGE FIELD INSTALLED

TO BYPASS A96 VFD:

DISCONNECT ALL POWER

UNPLUG - J246 FROM P246; AND UNPLUG J247 FROM P247.

UNPLUG - P249 INTO J246; AND PLUG J249 INTO P247.

UNPLUG - J326 FROM P324; AND UNPLUG J324 FROM P327

PLUG - P324 INTO J324

MITSUBISHI VFD

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

DISCONNECT ALL POWER BEFORE SERVICING.

10/14

537604-01

WIRING DIAGRAM

10/14

COOLING

KCA/KGA - 1805 - G,J,Y - VFD

SECTION B

FORM NUMBER

537604-01

REV. 2

Supersedes