

J/P	JACKPLUG DESCRIPTION	KEY	COMPONENT
2	HEAT	A42	MONITOR, PHASE PROTECTION
18	EXHAUST FAN COMP	A96	CONTROL, INVERTER
24	EXHAUST FAN	A171	SENSOR ONE, SMOKE, RETURN AIR
35	TEST	A172	SENSOR TWO, SMOKE, SUPPLY AIR
36	TEST COOL	A173	MODULE, CONTROL, SMOKE DETECTION
47	OUTDOOR FAN 1	A183	CONTROL, VFD BOARD
52	OUTDOOR FAN 2	B1	COMPRESSOR 1
86	OUTDOOR FANS 1,2	B2	COMPRESSOR 2
87	OUTDOOR FANS 3,4	B3	MOTOR, BLOWER
106	OUTDOOR FAN 3	B4	MOTOR, OUTDOOR FAN 1
132	EXHAUST FAN MOTOR 1	B10	MOTOR, OUTDOOR FAN 2
133	EXHAUST FAN MOTOR 2	B11	MOTOR, EXHAUST FAN 1
246	POWER VFD TO MOTOR	B13	MOTOR, EXHAUST FAN 2
247	VFD CONTROL	B21	COMPRESSOR 3
248	VFD CONTROL	B22	MOTOR, OUTDOOR FAN 3
249	CONTACTOR BYPASS	B22	MOTOR, OUTDOOR FAN 4
250	SMOKE DETECTOR ONE	C1	MOTOR, OUTDOOR FAN 1
251	SMOKE DETECTOR ONE	C1	CAPACITOR, OUTDOOR FAN 1
252	SMOKE DETECTOR TWO	C2	CAPACITOR, OUTDOOR FAN 2
253	SMOKE DETECTOR TWO	C6	CAPACITOR, EXHAUST FAN 1
255	MODULE, CONTROL, SMOKE DETECTION	C8	CAPACITOR, EXHAUST FAN 2
324	VFD OPTION CONNECTION	C18	CAPACITOR, OUTDOOR FAN 3
325	K3 BLOWER CONTROL	C19	CAPACITOR, OUTDOOR FAN 4
326	PHASE MONITOR/VFD CONTROL, ADD ON	C88	CIRCUIT, BREAKER T1
327	PHASE MONITOR/VFD CONTROL, ADD ON	C88	CIRCUIT, BREAKER T1
328	VFD BLOWER CONTROL	C810	CIRCUIT, BREAKER MAIN DISCONNECT
		C818	CIRCUIT, BREAKER T18
		DL46	DELAY, OVERFLOW SWITCH
		F6	FUSE, EXHAUST FAN
		F10	FUSE, OUTDOOR FAN MOTOR
		H2	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	RELAY, OUTDOOR FAN
		K65-1,2	RELAY, EXHAUST FAN 1
		K66-1	RELAY, STAGE COOL. 1
		K67-1	RELAY, STAGE COOL. 2
		K149-1,2	RELAY, OUTDOOR FAN 3 & 4
		K220-1	RELAY, OVERFLOW SWITCH
		K232	RELAY, INVERTER PROTECTION
		S4	SWITCH, LIMIT HI PRESS COMP (MANUAL RESET)
		S5	SWITCH, LIMIT HI TEMP COMPRESSOR 1
		S7	SWITCH, LIMIT HI TEMP COMPRESSOR 2 (MANUAL RESET)
		S8	SWITCH, LIMIT HI TEMP COMPRESSOR 3
		S11	SWITCH, LIMIT HI TEMP COMPRESSOR 2
		S11	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 1
		S28	SWITCH, LIMIT HI PRESS COMP 2 (MANUAL RESET)
		S31	SWITCH, LIMIT HI TEMP COMPRESSOR 3
		S42	SWITCH, OVERLOAD RELAY BLOWER MOTOR
		S49	SWITCH, DISCONNECT
		S49	SWITCH, FREEZESTAT COMP 1
		S50	SWITCH, FREEZESTAT COMP 2
		S53	SWITCH, FREEZESTAT 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

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.

VFD WITH BYPASS (C1)

- 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
- DEMOTES OPTIONAL COMPONENTS
- LINE VOLTAGE FIELD INSTALLED

10/14



537606-01

WIRING DIAGRAM

10/14

COOLING

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

SECTION B

FORM NUMBER

REV. 2

Supersedes 537606-01