



J/P	JACK/PLUG DESCRIPTION
2	HEAT
18	EXHAUST FAN COMPT
24	EXHAUST FAN
35	RUN TEST
36	RUN TEST OUTDOOR FANS
86	OUTDOOR FANS 1,2,3
87	OUTDOOR FANS 4,5,6
132	EXHAUST FAN MOTOR 1
133	EXHAUST FAN MOTOR 2
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
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

DISCONNECT ALL POWER BEFORE SERVICING.

KEY	COMPONENT
A42	MONITOR, PHASE PROTECTION
A96	CONTROL INVERTER
A171	SENSOR ONE, SMOKE, RETURN AIR
A172	SENSOR TWO, SMOKE, SUPPLY AIR

KEY	COMPONENT
A173	MODULE, CONTROL SMOKE DETECTION
A183	CONTROL, VFD BOARD
A190	PRESSURE CONTROLLER, COMP 2, LOW AMBIENT KIT
A191	PRESSURE CONTROLLER, COMP 4, LOW AMBIENT KIT
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
B20	COMPRESSOR 4
B21	MOTOR, OUTDOOR FAN 3
B22	MOTOR, OUTDOOR FAN 4
B23	MOTOR, OUTDOOR FAN 5
B24	MOTOR, OUTDOOR FAN 6
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
C20	CAPACITOR, OUTDOOR FAN 5
C21	CAPACITOR, OUTDOOR FAN 6
CB8	CIRCUIT, BREAKER T1
CB10	CIRCUIT, BREAKER MAIN DISCONNECT
CB18	CIRCUIT, BREAKER T18
DL46	DELAY, OVERFLOW SWITCH
F6	FUSE, EXHAUST FAN
H2	HEADER 2, LVC2 BOARD
HR1	HEATER, COMPRESSOR 1
HR2	HEATER, COMPRESSOR 2
HR5	HEATER, COMPRESSOR 3
HR11	HEATER, COMPRESSOR 4
J11	JACK, GFI, RECEPTACLE
K1,-1,2	CONTACTOR, COMPRESSOR 1
K2,-1,2	CONTACTOR, COMPRESSOR 2
K3,-1	CONTACTOR, BLOWER
K10,-1,2	RELAY, OUTDOOR FANS 1, 2
K14,-1,2	CONTACTOR, COMPRESSOR 3
K65,-1,2	RELAY, EXHAUST FAN 1
K66,-1	RELAY, STAGE COOL 1
K67,-1	RELAY, STAGE COOL 2
K146,-1,2	CONTACTOR, COMPRESSOR 4
K150,-1,2	RELAY, OUTDOOR FANS 4, 5
K220,-1	RELAY, OVERFLOW SWITCH
K232	RELAY, INVERTER PROTECTION
K254	RELAY, LOW AMBIENT KIT FAN 3
K255	RELAY, LOW AMBIENT KIT FAN 6
S4	SWITCH, LIMIT HI PRESS COMP 1
S5	SWITCH, HIGH TEMP LIMIT COMP 1
S7	SWITCH, LIMIT HI PRESS COMP 2
S28	SWITCH, LIMIT HI PRESS COMP 3
S48	SWITCH, DISCONNECT
S49	SWITCH, FREEZESTAT COMP 1
S50	SWITCH, FREEZESTAT COMP 2
S53	SWITCH, FREEZESTAT COMP 3
S95	SWITCH, FREEZESTAT COMP 4
S96	SWITCH, LIMIT HI PRESS COMP 4
S149	SWITCH, OVERFLOW
S180	SWITCH, HIGH TEMP LIMIT COMP 4
S201	SWITCH, LOW AMBIENT TEMP SENSOR 1
S202	SWITCH, LOW AMBIENT TEMP SENSOR 2
T18	TRANSFORMER, CONTACTOR CONTROL
TB13	TERMINAL STRIP, POWER DISTRIBUTION

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

NOTE - REFERENCE LOW AMBIENT KIT INSTRUCTIONS FOR WIRING DIAGRAM WHEN KIT IS INSTALLED. S201, S202, A190, A191 USED ONLY IN UNITS WITH LOW AMBIENT OPTION

P2 IS USED ON KCA UNITS ONLY

S42 USED ON UNIT WITH 10 HP MOTOR AND VFD BYPASS

CONNECT A172 SENSOR TO J261 ON SUPPLY AIR SMOKE DETECTOR ONLY

S48 OR CB10 MAY BE USED

F6 USED ON "Y" VOLTAGE UNITS WITH FIELD INSTALLED

NOTE - DENOTES OPTIONAL COMPONENTS

LINE VOLTAGE FIELD INSTALLED

REFERENCE LOW AMBIENT KIT INSTRUCTIONS FOR WIRING DIAGRAM WHEN KIT IS INSTALLED. S201, S202, A190, A191 USED ONLY IN UNITS WITH LOW AMBIENT OPTION

F10 USED ON Y-VOLT UNITS ONLY

S5, S8, S31, S180 USED ON 240H UNITS ONLY

TO BYPASS A96 VFD: DISCONNECT ALL POWER UNPLUG - J246 FROM P246; UNPLUG J247 FROM P247. PLUG - P249 INTO J246; PLUG J249 INTO P247. UNPLUG - J326 FROM P324; UNPLUG J324 FROM P327 PLUG - P324 INTO J324

*BYPASS OPTION NOT AVAILABLE FOR 50HZ UNITS

USED ONLY WITH E800 VFDs

VFD TERMINALS FOR MITSUBISHI / DELTA DRIVES

2023/07

WIRING DIAGRAM 23/07

538268-02

COOLING - MSAV

KG/KC C-BOX - 300S - G, J, Y VOLT

SECTION B REV. 0

Supersedes 538268-01 New Form No. 538268-02