



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.

--- DENOTES OPTIONAL COMPONENTS
 --- LINE VOLTAGE FIELD INSTALLED

NOTE - FOR USE WITH COPPER CONDUCTORS ONLY
 ONLY REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.
 TB2 IS USED ON "V" VOLTAGE UNITS ONLY

IMPORTANT - TO PREVENT MOTOR BURNDOUT, NEVER CONNECT MORE THAN ONE MOTOR LEAD TO ANY ONE CONNECTION.
 TAPE UNUSED MOTOR LEADS
 120V FIELD PROVIDED POWER IS REQUIRED TO CONNECT A172 SENSOR TO J261 ON SUPPLY AIR SMOKE DETECTOR ONLY
 B21 AND C18 ARE USED ON -150 UNITS ONLY

TO BYPASS A96 VFD:
 DISCONNECT POWER SUPPLY
 UNPLUG P249 FROM J229 - PLUG P249 INTO J249
 UNPLUG P246 FROM J246
 UNPLUG P247 FROM J247 - PLUG P247 INTO J246
 UNPLUG P238 FROM J225 - PLUG P235 INTO J225
 UNPLUG P236 FROM J255
 UNPLUG P35 FROM J326; PLUG P35 INTO J35

J/JP	JACK/PLUG DESCRIPTION
1	HEAT
2	EXHAUST FAN COMP
3	TEST HEAT
35	TEST HEAT
36	TEST COOL
45	INPUT
47	OUTDOOR FAN 1
52	OUTDOOR FAN 2
66	OUTDOOR FAN 1
132	EXHAUST FAN MOTOR 1
132	EXHAUST FAN MOTOR 1
247	POWER VFD TO MOTOR
248	CONTRACTOR 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 DETECT
281	SMOKE DETECTOR JUMPER
306	S89 THERMOSTAT
326	VFD CONTROL ADD-ON
329	HI VOLTAGE VFD

MITSUBISHI VFD
 K3 REPLACES TB13 WHEN A96 VFD BYPASS OPTION IS INSTALLED
 FOR EXTERNAL 24V SUPPLY SEE SECTION F4 DIAGRAM
 UNITS WITH SCR OPTION ONLY

08/15

537426-02

WIRING DIAGRAM 08/15

COOLING

KHA - 092,102,120,150 - G,J,Y - VFD UNITS

SECTION B

Supersedes New Form No. 537426-02 REV. 1

KEY	COMPONENT
A42	MONITOR, PHASE PROTECTION
A66	CONTROL INVERTER
A171	SENSOR ONE, SMOKE RETURN AIR
A172	SENSOR TWO, SMOKE SUPPLY AIR
A173	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
B21	MOTOR, OUTDOOR FAN 3
C1	CAPACITOR, OUTDOOR FAN 1
C2	CAPACITOR, OUTDOOR FAN 2
C6	CAPACITOR, EXHAUST FAN
C8	CAPACITOR, OUTDOOR FAN 3
C88	CIRCUIT BREAKER
CB18	CIRCUIT BREAKER
CMC1	TIMER, DEFROST, COMPRESSOR 1
DL46	DELAY, OVERFLOW SWITCH
H2	HEADER 2, VFD CONTROL
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
J11	JACK, GFI RECEPTACLE
K1	CONTRACTOR, COMPRESSOR 1
K2	CONTRACTOR, COMPRESSOR 2
K3	CONTRACTOR, BLOWER
K9	RELAY, OVERSEER
K10	RELAY, OUTDOOR FAN 1
K19	RELAY, OVERHEAT AT
K68	RELAY, EXHAUST FAN
K69	RELAY, EXHAUST FAN
K132	RELAY, COMPRESSOR 1 ON
K133	RELAY, COMPRESSOR 2 ON
K220	RELAY, OVERFLOW SWITCH
K221	RELAY, INVERTER PROTECTION
L1	VALVE, REVERSING 1
L2	VALVE, REVERSING 2
S4	SWITCH, LIMIT HI PRESS (MANUAL RESET)
S7	SWITCH, LIMIT HI PRESS (MANUAL RESET)
S8	SWITCH, DEFROST COMPRESSOR 1
S9	SWITCH, LIMIT HI PRESS COMP 2
S11	SWITCH, LOW PRESS, LOW AMBIENT INT
S50	SWITCH, LIMIT LO COMPRESSOR 2
S42	SWITCH, OVERLOAD RELAY
S42	SWITCH, OVERLOAD RELAY
S42	SWITCH, OVERLOAD RELAY
S42	SWITCH, OVERLOAD RELAY
S84	SWITCH, LO PRESS, LO AMB COMP 2
S89	SWITCH, THERMOSTAT DISCHARGE TEMP
S104	SWITCH, DEFROST TERMINATION 2
S149	SWITCH, OVERFLOW
T18	TRANSFORMER CONTROL
TB2	TERMINAL STRIP, UNIT