

10X12

24V POWER

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               |
| A173        | MODULE, CONTROL SMOKE DETECTION             |
| A183        | CONTROL, VFD BOARD                          |
| A190        | PRESSURE CONTROLLER COMP 1, LOW AMBIENT KIT |
| A191        | PRESSURE CONTROLLER COMP 2, 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                        |
| 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                    |
| CB8         | CIRCUIT, BREAKER T1                         |
| CB10        | CIRCUIT, BREAKER MAIN DISCONNECT            |
| CB18        | CIRCUIT, BREAKER T18                        |
| CMC1        | TIMER, DEFROST, COMPRESSOR 1                |
| CMC2        | TIMER, DEFROST, COMPRESSOR 2                |
| DL46        | DELAY, OVERFLOW SWITCH                      |
| F6          | FUSE, EXHAUST FAN                           |
| H1, H2      | HEADER 2, LVC2 BOARD                        |
| HR1         | HEATER, COMPRESSOR 1                        |
| HR2         | HEATER, COMPRESSOR 2                        |
| J11         | JACK, GFI, RECEPTICLE                       |
| J261        | JACK, SMOKE DETECTOR JUMPER                 |
| K1,-1,2     | CONTACTOR, COMPRESSOR 1                     |
| K2,-1,2     | CONTACTOR, COMPRESSOR 2                     |
| K3,-1       | CONTACTOR, BLOWER                           |
| K8,-1, 2, 3 | RELAY, TRANSFER 1                           |
| K10,-1,2    | RELAY, OUTDOOR FAN                          |
| K58,-1      | RELAY, LOW AMBIENT KIT COMP 1               |
| K65,-1, 2   | RELAY, EXHAUST FAN 1                        |
| K118,-1     | RELAY, LOW AMBIENT KIT COMP 2               |
| K150-1      | RELAY, OUTDOOR FAN 3                        |
| K216,-1     | RELAY, COOL TWO                             |
| K203,-2     | RELAY, VFD RUN                              |
| K220,-1     | RELAY, OVERFLOW SWITCH                      |
| K232        | RELAY, INVERTER PROTECTION                  |
| K254        | RELAY, LOW AMBIENT KIT FAN 2                |
| K255        | RELAY, LOW AMBIENT KIT FAN 4                |
| L1          | VALVE, REVERSING 1                          |
| L2          | VALVE, REVERSING 2                          |
| S4          | SWITCH, LIMIT HI PRESS COMPRESSOR 1         |
| S6          | SWITCH, DEFROST COMPRESSOR 1                |
| S7          | SWITCH, LIMIT HI PRESS COMPRESSOR 2         |
| S9          | SWITCH, DEFROST COMPRESSOR 2                |
| S42         | SWITCH, OVERLOAD RELAY BLOWER MOTOR         |
| S46         | SWITCH, DEFROST TERMINATION 1               |
| S48         | SWITCH, DISCONNECT                          |
| S49         | SWITCH, FREEZESTAT 1                        |
| S50         | SWITCH, FREEZESTAT 2                        |
| S104        | SWITCH, DEFROST TERMINATION 2               |
| S149        | SWITCH, OVERFLOW                            |
| S201        | SWITCH, LOW AMBIENT TEMP SENSOR 1           |
| S202        | SWITCH, LOW AMBIENT TEMP SENSOR 2           |
| T1          | TRANSFORMER, CONTROL                        |
| T18         | TRANSFORMER, CONTACTOR CONTROL              |
| TB13        | TERMINAL STRIP, POWER DISTRIBUTION          |

| J/P | JACK/PLUG DESCRIPTION           |
|-----|---------------------------------|
| 2   | HEAT                            |
| 18  | EXHAUST FAN COMPT               |
| 24  | EXHAUST FAN                     |
| 35  | TEST                            |
| 36  | TEST COOL                       |
| 86  | OUTDOOR FANS 1,2                |
| 87  | OUTDOOR FANS 3,4                |
| 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 |
| 324 | VFD OPTION CONNECTION           |
| 325 | K3 BLOWER CONTROL               |
| 326 | VFD CONTROL ADD-ON              |
| 327 | VFD CONTROL ADD-ON              |
| 328 | VFD BLOWER CONTROL              |

- ⚠ NOTE - FOR USE WITH COPPER CONDUCTORS ONLY REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.
- ⚠ S48 OR CB10 MAY BE USED
- ⚠ S42 USED ON UNITS WITH 10 HP MOTORS AND VFD BYPASS
- ⚠ CONNECT A172 SENSOR TO J261 ON SUPPLY AIR SMOKE DETECTOR ONLY
- ⚠ F6 ONLY USED ON "Y" VOLTAGE UNITS WITH FIELD INSTALLED POWER EXHAUST
- ⚠ TO BYPASS A96 VFD: DISCONNECT ALL POWER! UNPLUG - J246 FROM P246; AND UNPLUG J247 FROM P247. PLUG - P249 INTO J246; AND PLUG J249 INTO P247. UNPLUG - J326 FROM P324; AND UNPLUG J324 FROM P327 PLUG - P324 INTO J324
- ⚠ REFERENCE LOW AMBIENT KIT INSTRUCTIONS FOR WIRING DIAGRAM WHEN KIT IS INSTALLED. S201, S202, A190, A191 USED ONLY IN UNITS WITH LOW AMBIENT KIT OPTION

- ⚠ USED ONLY WITH E800 VFDs
- ⚠ VFD TERMINALS FOR MITSUBISHI / DELTA DRIVES

← DENOTES OPTIONAL COMPONENTS  
→ LINE VOLTAGE FIELD INSTALLED

2023/07

WIRING DIAGRAM 23/07

538269-02

HEAT/COOL - MSAV

KH C-BOX - 180-240S - G, J, Y VOLT

SECTION B REV. 0

Supersedes 538269-01 New Form No. 538269-02

