



NOTE - IF ANY WIRE IN THIS APPLANCE 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

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  
 A42 USED AS A FIELD INSTALLED OPTION  
 S42 USED ON "M" VOLTAGE UNITS AND UNITS WITH 10 HP MOTORS  
 CONNECT A173 SENSOR TO J251 ON SUPPLY AIR  
 SMOKE DETECTOR ONLY  
 F6 ONLY USED ON V-VOLT UNITS WITH FIELD INSTALLED POWER EXHAUST

| KEY  | COMPONENT                      |
|------|--------------------------------|
| A42  | MONITOR, PHASE PROTECTION      |
| A171 | SENSOR ONE, SMOKE, RETURN AIR  |
| A172 | SENSOR TWO, SMOKE, SUPPLY AIR  |
| A173 | MODULE CONTROL SMOKE DETECTION |
| 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, TRANSFORMER 1        |
| CB10 | CIRCUIT BREAKER, UNIT MAIN DISCONNECT |
| CB18 | CIRCUIT BREAKER, T18                  |
| CB19 | TIMER, DEFROST, COMPRESSOR 1          |
| CB22 | TIMER, DEFROST, COMPRESSOR 2          |
| DL46 | DELAY, OVERFLOW SWITCH                |

|            |                                     |
|------------|-------------------------------------|
| F6         | FUSE, EXHAUST FANS                  |
| HR1        | HEATER COMPRESSOR 1                 |
| HR2        | HEATER COMPRESSOR 2                 |
| J11        | JACK, SFL, RECEPTACLE               |
| K1-1       | CONTACTOR, COMPRESSOR 1             |
| K2-1       | CONTACTOR, COMPRESSOR 2             |
| K3-1       | CONTACTOR, BLOWER                   |
| K8-1,2,3   | RELAY, TRANSFER 1                   |
| K10-1,2,3  | RELAY, OUTDOOR FAN 1                |
| K36-1      | RELAY, LOW AMBIENT KIT COMP 1       |
| K66-1,2    | RELAY, EXHAUST FAN                  |
| K118-1     | RELAY, LOW AMBIENT KIT COMP 2       |
| K149-1,2,3 | RELAY, OUTDOOR FAN 3                |
| K216-1     | RELAY, COOL TWO                     |
| K220-1     | RELAY, OVERFLOW SWITCH              |
| 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 |

| J/P | JACKPLUG DESCRIPTION             |
|-----|----------------------------------|
| 2   | HEAT                             |
| 18  | EXHAUST FAN COMP                 |
| 24  | EXHAUST FAN                      |
| 36  | TEST HEAT                        |
| 36  | TEST COOL                        |
| 45  | INPUT PLUG                       |
| 47  | OUTDOOR FAN 1                    |
| 52  | OUTDOOR FAN 2                    |
| 86  | OUTDOOR FANS 1                   |
| 87  | OUTDOOR FANS 2                   |
| 106 | OUTDOOR FAN 3                    |
| 107 | OUTDOOR FAN 4                    |
| 132 | BLOWER, EXHAUST FAN MOTOR 1      |
| 133 | BLOWER, EXHAUST FAN MOTOR 2      |
| 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 |

|      |   |
|------|---|
| S9   | SWITCH, DEFROST COMPRESSOR 2              |
| S11  | SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 1 |
| S42  | SWITCH, OVERLOAD RELAY BLOWER MOTOR       |
| S46  | SWITCH, DEFROST TERMINATION 1             |
| S48  | SWITCH, DISCONNECT                        |
| S49  | SWITCH, FREEZESTAT 1                      |
| S49  | SWITCH, FREEZESTAT 2                      |
| S84  | SWITCH, LOW PRESS, LOW AMB COMP 2         |
| S104 | SWITCH, DEFROST TERMINATION 2             |
| S149 | SWITCH, OVERFLOW                          |
| T1   | TRANSFORMER, CONTROL                      |
| T18  | TRANSFORMER, CONTACTOR                    |
| TB13 | TERMINAL STRIP, POWER DISTRIBUTION        |

01/13

537613-01

**WIRING DIAGRAM**

01/13

**COOLING**

KHA - 1805,2405 - G,J,M,Y

SECTION B

New Form No. 537613-01 REV. 0

Supersedes

— DENOTES OPTIONAL COMPONENTS  
 — LINE VOLTAGE FIELD INSTALLED