



KEY	COMPONENT
A55	PANEL, MAIN
A178	PANEL, COMP 3 & 4 AND 2nd STAGE HEAT - C3
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
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 UNIT
CB18	CIRCUIT, BREAKER, T18
F4	FUSE, MAIN UNIT
F6	FUSE, EXHAUST FAN
F30	FUSE, TRANSFORMER T29 PRIMARY
F31	FUSE, TRANSFORMER T29 SECONDARY
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
HR5	HEATER COMPRESSOR 3
J11	JACK, GFI, RECEPTACLE
K1-1	CONTACTOR, COMPRESSOR 1
K2-1	CONTACTOR, COMPRESSOR 2
K3-1	CONTACTOR, BLOWER
K10-1	RELAY, OUTDOOR FAN 1
K14-1	RELAY, OUTDOOR FAN 2
K14-1,2	RELAY, EXHAUST FAN
K68-1,2	RELAY, OUTDOOR FAN 2
K68-1,1	RELAY, OUTDOOR FAN 3
K150-1	RELAY, OUTDOOR FAN 4
L14	VALVE, SOLENOID REHEAT VALVE 1
L30	VALVE, SOLENOID REHEAT VALVE 2
RT17	SENSOR, OUTDOOR AIR
S4	SWITCH, LIMIT HI PRESS COMPRESS 1
S5	SWITCH, LIMIT HI TEMP COMPRESSOR 1
S7	SWITCH, LIMIT HI PRESS COMPRESS 2
S8	SWITCH, LIMIT HI TEMP COMPRESSOR 2
S11	SWITCH, LOW PRESS, LOW AMBIENT COMP 1
S28	SWITCH, LIMIT HI PRESS COMPRESSOR 3
S31	SWITCH, LIMIT HI TEMP COMPRESSOR 3
S42	SWITCH, OVERLOAD RELAY BLOWER MOTOR

JIP	JACK/PLUG DESCRIPTION
18	EXHAUST FAN COMP
24	EXHAUST FAN
47	OUTDOOR FAN 1
52	OUTDOOR FAN 2
86	OUTDOOR FAN INTERFACE 1
87	OUTDOOR FAN INTERFACE 2
106	OUTDOOR FAN 3
107	OUTDOOR FAN 4
118	COMPRESSOR 3 AND 4, CONTROL
119	COMPRESSOR 3 AND 4, INPUT
132	EXHAUST FAN MOTOR 1
133	EXHAUST FAN MOTOR 2
263	HIGH AND LOW PRESSURE SWITCHES
264	BLOWER DECK AREA
265	CONTACTOR AND RELAYS
267	OUTDOOR FAN AREA
268	TRANSFORMER POWER
269	REHEAT CONTROL
299	HUMIDITROL INTERFACE/SAFETY

- ▲ 542 USED ON "M" VOLTAGE UNITS AND UNITS WITH HIGH EFFICIENCY MOTORS
- ▲ ONLY IN UNITS WITH HUMIDITROL OPTION
- ▲ EXTERNAL HUMIDITROL CONTACTS
- ▲ 549, S50 AND S53 ARE PART OF 5VDC CIRCUIT
- ▲ S5, S8, S31 USED ON UNITS WITH INTERLINK COMPRESSORS ONLY
- ▲ B10 AND B11 NOT USED ON UNITS WITH ERV
- ▲ USED ON LCH AND UNITS WITH ERV SINGLE POINT POWER. SEE ERV DIAGRAM
- ▲ USED ON UNITS WITH ERV SINGLE POINT POWER
- ▲ F6 ONLY USED ON Y-VOLT UNITS WITH FIELD INSTALLED POWER EXHAUST
- ▲ REFER TO UNIT DIAGRAM SECTION B3 WHEN INVERTER IS USED
- ▲ NOTE: FOR USE WITH COPPER CONDUCTORS ONLY. REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.

→ DENOTES OPTIONAL COMPONENTS
 — LINE VOLTAGE FIELD INSTALLED

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.

120 V FIELD PROVIDED POWER SUPPLY IS REQUIRED WHEN T29 IS NOT PROVIDED.
 NOTE: USE COPPER CONDUCTORS ONLY

09/14 WIRING DIAGRAM 09/14
 COOLING 537701-01
 LCH, LGH 180 - G,J,M,Y
 SECTION B New Form No. 537701-01 REV. 0
 Supersedes