



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

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
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
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 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	CONTACTOR, COMPRESSOR 3
K65-1,2	RELAY, EXHAUST FAN
K68-1	RELAY, OUTDOOR FAN 2
K149-1	RELAY, OUTDOOR FAN 3
K150-1	RELAY, OUTDOOR FAN 4
K152-1	RELAY, OUTDOOR FAN 5
K153-1	RELAY, OUTDOOR FAN 6
L14	VALVE, SOLENOID REHEAT COIL 1
L30	VALVE, SOLENOID REHEAT COIL 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 KIT COMP 1
S28	SWITCH, LIMIT HI TEMP COMPRESSOR 3
S31	SWITCH, OVERLOAD RELAY BLOWER MOTOR
S42	SWITCH, OVERLOAD RELAY BLOWER MOTOR

J/P	JACKPLUG DESCRIPTION
18	EXHAUST FAN COMP
24	EXHAUST FAN
47	OUTDOOR FAN 1
52	OUTDOOR FAN 2
57	OUTDOOR FAN INTERFACE
86	OUTDOOR FAN INTERFACE 2
87	OUTDOOR FAN 3
106	OUTDOOR FAN 4
107	OUTDOOR FAN 5
108	OUTDOOR FAN 6
109	OUTDOOR FAN 6
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	CONTACTORS AND RELAYS
267	OUTDOOR FAN AREA
268	TRANSFORMER POWER
269	HUMIDITROL POWER/CONTROL
299	HUMIDITROL INTERFACE/SAFETY

- ⚠ S42 USED ON "M" VOLTAGE UNITS AND UNITS WITH HIGH EFFICIENCY MOTORS
- ⚠ ONLY IN UNITS WITH HUMIDITROL OPTION
- ⚠ EXTERNAL HUMIDITROL CONTACTS
- ⚠ S49, S50 AND S53 ARE PART OF SVDC CIRCUIT
- ⚠ S5, S8, S31 USED ON UNITS WITH INTERLINK COMPRESSORS ONLY
- ⚠ B10, 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 V-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

09/14 WIRING DIAGRAM 09/14

537702-01

COOLING

LCH, LGH - 210 GJM.Y

SECTION B

Supersedes

New Form No. 537702-01

REV. 0