



NOTE: USE COPPER CONDUCTORS ONLY

120 V FIELD PROVIDED POWER SUPPLY IS REQUIRED WHEN T29 IS NOT PROVIDED.

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	MAIN CONTROL BOARD
A178	PANEL, COMPRESSORS 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
B20	COMPRESSOR 4
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
C88	CIRCUIT BREAKER, MAIN DISCONNECT UNIT
CB10	CIRCUIT BREAKER, T18
CB18	FUSE, MAIN UNIT
F4	FUSE, EXHAUST FAN
F6	FUSE, OUTDOOR FAN MOTOR
F10	FUSE, TRANSFORMER T29 PRIMARY
F30	FUSE, TRANSFORMER 179 SECONDARY
F31	FUSE, TRANSFORMER 129 SECONDARY
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
HR3	HEATER COMPRESSOR 3
HR5	HEATER COMPRESSOR 4
HR11	HEATER COMPRESSOR 2
J11	JACK, GFI, RECEPTACLE
K1, -1	CONTACTOR, COMPRESSOR 1
K2, -1	CONTACTOR, COMPRESSOR 2
K3, -1	CONTACTOR, BLOWER
K10, -1,2	RELAY, OUTDOOR FAN 1
K14, -1	CONTACTOR, COMPRESSOR 3
K65, -1,2	RELAY, EXHAUST FAN
K68, -1	RELAY, OUTDOOR FAN 2
K146, -1	CONTACTOR, COMPRESSOR 4
K149, -1	RELAY, OUTDOOR FAN 3
K150, -1	RELAY, OUTDOOR FAN 4
K152, -1	RELAY, OUTDOOR FAN 5
K153, -1,2	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 TEMP COMPRESSOR 2
S8	SWITCH, LIMIT HI TEMP COMPRESSOR 2
S11	SWITCH, LOW PRESS, LOW AMBIENT COMP 1
S28	SWITCH, LIMIT HI TEMP COMPRESSOR 3
S31	SWITCH, LIMIT HI TEMP COMPRESSOR 3
S42	SWITCH, OVERLOAD RELAY BLOWER MOTOR
S48	SWITCH, DISCONNECT

→ DENOTES OPTIONAL COMPONENTS

— LINE VOLTAGE FIELD INSTALLED

JIP	JACK/PLUG DESCRIPTION
18	POWER EXHAUST HARNESS
24	RELAY TO EXHAUST FANS
47	POWER TO OUTDOOR FAN 1
52	POWER TO OUTDOOR FAN 2
86	OUTDOOR FAN INTERFACE 2
87	OUTDOOR FAN INTERFACE 2
106	POWER TO OUTDOOR FAN 3
107	POWER TO OUTDOOR FAN 4
108	POWER TO OUTDOOR FAN 5
109	POWER TO OUTDOOR FAN 6
118	COMPRESSOR 3 AND 4, INPUT
119	COMPRESSOR 3 AND 4, INPUT
132	POWER TO EXHAUST FAN MOTOR 1
133	POWER TO EXHAUST FAN MOTOR 2
263	HIGH AND LOW PRESSURE SWITCHES
264	BLOWER DECK AREA
265	CONTACTORS AND RELAYS
267	OUTDOOR FAN AREA
268	24V POWER FROM TRANSFORMERS TO A55
269	HUMIDITROL
299	HUMIDITROL INTERFACE TO A55

- ▲ S42 USED ON "N" VOLTAGE UNITS AND UNITS WITH 10HP MOTORS
- ▲ ONLY ON UNITS WITH HUMIDITROL OPTION
- ▲ EXTERNAL HUMIDITROL CONTACTS
- ▲ F6 AND F10 FUSES ARE USED ON "N" VOLTAGE UNITS ONLY
- ▲ S49, S50, S53 AND S95 ARE PART OF SWDC CIRCUIT
- ▲ S5, S8, S31, S180 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
- ▲ 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.

09/14

WIRING DIAGRAM

537703-01

COOLING

LCH1, LGH - 240, 300 - G, J, M, Y

Supersedes	SECTION B	REV. 0
New Form No.		537703-01