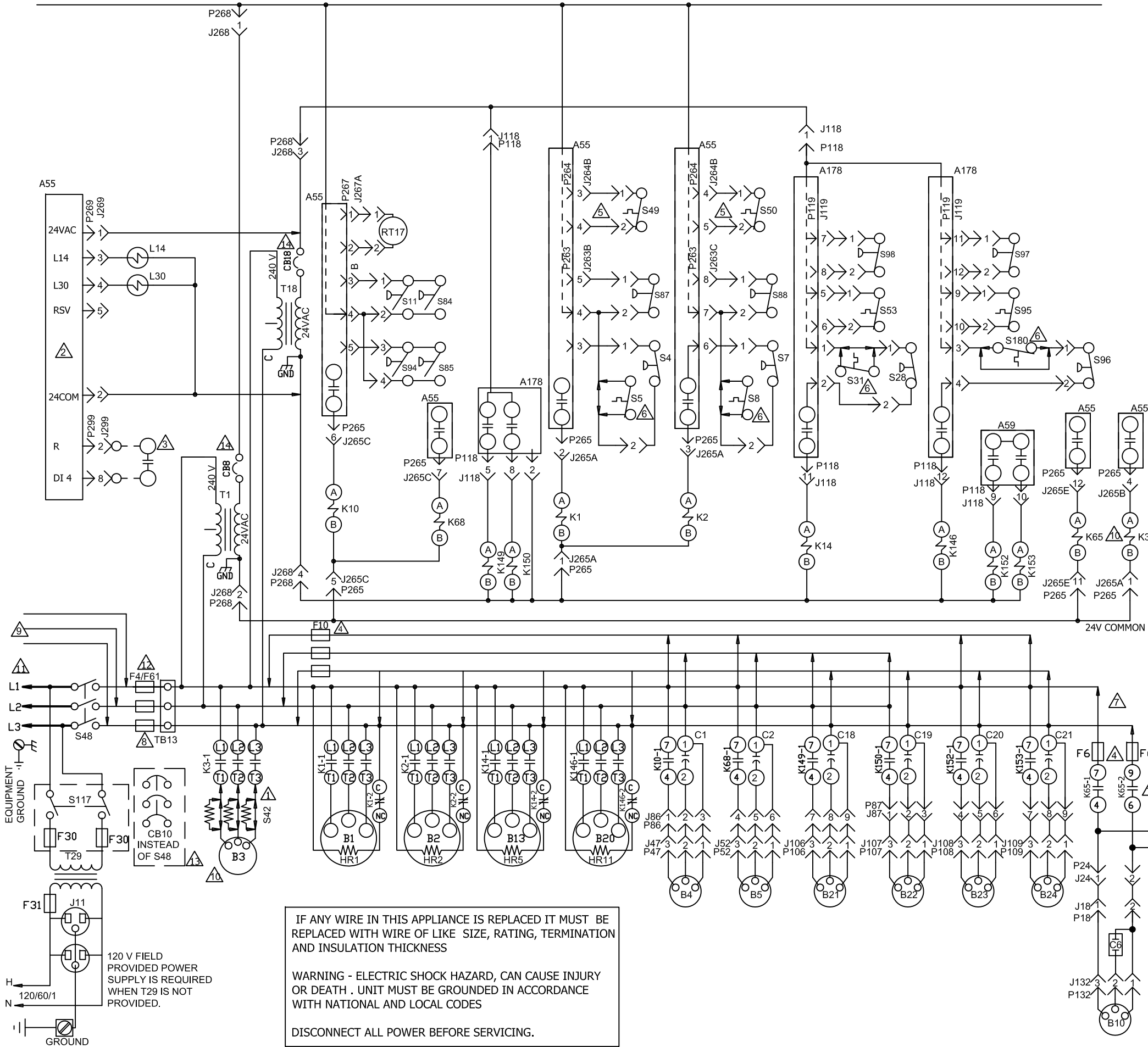




KEY	COMPONENT
A55	MAIN CONTROL BOARD
A178	PANEL, COMP 3 & 4 AND STAGE HEAT - C3
B1	COMPRESSOR 1
B2	COMPRESSOR 2
B3	MOTOR, BLOWER
B4	MOTOR, OUTDOOR FAN 1
B5	MOTOR, OUTDOOR FAN 2
B10	MOTOR, EXHAUST FAN 1
B11	MOTOR, EXHAUST FAN 2
B13	COMPRESSOR 3
B20	COMPRESSOR 4
B21	MOTOR, OUTDOOR FAN 3
B22	MOTOR, OUTDOOR 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
CB8	CIRCUIT, BREAKER T1
CB10	CIRCUIT BREAKER, MAIN DISCONNECT UNIT
CB18	CIRCUIT, BREAKER T18
F4	FUSE, MAIN UNIT
F6	FUSE, EXHAUST FAN
F10	FUSE, OUTDOOR FAN MOTOR
F30	FUSE, TRANSFORMER T29 PRIMARY
F31	FUSE, TRANSFORMER T29 SECONDARY
F61	FUSE, UNIT SCCR OPTION
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
HR5	HEATER COMPRESSOR 3
HR11	HEATER COMPRESSOR 4
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 PRESS COMPRESS 2
S8	SWITCH, LIMIT HI TEMP COMPRESSOR 2
S11	SWITCH, LOW PRESS, LOW AMBIENT COMP 1
S28	SWITCH, LIMIT HI PRESS COMPRESS 3
S31	SWITCH, LIMIT HI TEMP COMPRESSOR 3
S42	SWITCH, OVERLOAD RELAY BLOWER MOTOR
S48	SWITCH, DISCONNECT

S49	SWITCH, FREEZE STAT COMPRESS 1
S50	SWITCH, FREEZE STAT COMPRESS 2
S53	SWITCH, FREEZE STAT COMPRESS 3
S84	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 2
S85	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 3
S87	SWITCH, LOW PRESS, COMP 1
S88	SWITCH, LOW PRESS, COMP 2
S94	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 4
S95	SWITCH, FREEZE STAT COMPRESS 4
S96	SWITCH, LIMIT HI PRESS COMPRESS 4
S97	SWITCH, LOW PRESS, COMP 4
S98	SWITCH, LOW PRESS, COMP 3
S117	SWITCH, GFI
S180	SWITCH, LIMIT HI TEMP COMPRESSOR 4
T1	TRANSFORMER, CONTROL
T18	TRANSFORMER, CONTACTOR
T29	TRANSFORMER, GFI
TB13	TERMINAL STRIP, POWER DISTRIBUTION

J/P	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
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, CONTROL
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
265	CONTACTORS AND RELAYS
267	OUTDOOR FAN AREA
268	24V POWER FROM TRANSFORMERS TO A55
269	HUMIDITROL
299	HUMIDITROL INTERFACE TO A55

- 1 S42 USED ON "M" VOLTAGE UNITS AND UNITS WITH 10HP MOTORS
- 2 ONLY ON UNITS WITH HUMIDITROL OPTION
- 3 EXTERNAL HUMIDITROL CONTACTS
- 4 F6 AND F10 FUSES ARE USED ON "Y" VOLTAGE UNITS AND SCCR OPTION UNITS
- 5 S49 AND S50 ARE PART OF 5VDC CIRCUIT
- 6 S5, S8, S31, S180 USED ON UNITS WITH INTERLINK COMPRESSORS ONLY
- 7 B10, B11 NOT USED ON UNITS WITH ERV
- 8 USED ON LCH AND UNITS WITH ERV SINGLE POINT POWER. SEE ERV DIAGRAM
- 9 USED ON UNITS WITH ERV SINGLE POINT POWER
- 10 REFER TO UNIT DIAGRAM SECTION B3 WHEN INVERTER IS USED
- 11 NOTE: FOR USE WITH COPPER CONDUCTORS ONLY. REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.
- 12 F61 USED ON ALL UNITS WITH LGH UNITS SCCR OPTION
- 13 CB10 NOT AVAILABLE ON UNITS WITH SCCR OPTION
- 14 MOVE WIRE FROM 240 TO 208 TAP ON TRANSFORMER FOR 208 VOLT APPLICATIONS

← DENOTES OPTIONAL COMPONENTS
— LINE VOLTAGE FIELD INSTALLED

2018/08

08/18

WIRING DIAGRAM

537703-03

COOLING

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

SECTION B

REV. 0

Supersedes
537703-02

New Form No.
537703-03