



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.

J/P	JACKPLUG DESCRIPTION
18	POWER EXHAUST HARNESS
19	RELAY TO EXHAUST FANS
24	MOTOR, OUTDOOR FAN 1
47	MOTOR, OUTDOOR FAN 2
52	MOTOR, OUTDOOR FAN 2
86	OUTDOOR FANS 1
87	OUTDOOR FANS 2
106	MOTOR, OUTDOOR FAN 3
107	MOTOR, OUTDOOR FAN 4
108	MOTOR, OUTDOOR FAN 5
109	MOTOR, OUTDOOR FAN 6
118	COMPRESSOR 3 AND 4 CONTROL A178
119	COMPRESSOR 3 AND 4 INPU
132	POWER TO EXHAUST FAN MOTOR 1
133	POWER TO EXHAUST FAN MOTOR 2
246	POWER TO VFD
247	VFD TO IMR
248	VFD CONTROL
259	BLOWER ECM MOTOR
263	HIGH AND LOW PRESSURE SWITCHES
264	BLOWER DECK AREA
285	CONTACTORS AND RELAYS
288	OUTDOOR FAN AREA
289	24V POWER FROM TRANSFORMERS TO A55
320	OD FAN CONTROL SET 1
321	OD FAN CONTROL SET 2
333	0-9V TRANSODUCER INPUT
336	OD FAN CONTROL, B4
337	OD FAN CONTROL, B5
338	OD FAN CONTROL, B21
339	OD FAN CONTROL, B22
340	OD FAN CONTROL, B23
341	OD FAN CONTROL, B24
342	COMPRESSOR PRESSURE TRANSDUCER STG 1
343	TEMPERATURE SENSOR COMPRESSOR 1
344	TEMPERATURE SENSOR COMPRESSOR 2
345	TEMPERATURE SENSOR COMPRESSOR STG 2
346	TEMPERATURE SENSOR COMPRESSOR 3
347	TEMPERATURE SENSOR COMPRESSOR 4
348	CONTROL GENERAL PURPOSE GP3

KEY	COMPONENT
A55	MAIN CONTROL BOARD
A96	CONTROL INVERTER
A178	PANEL COMP 3&4, C3 2nd STAGE HEAT
A185	TRANSODUCER TANDEM COMPRESSOR STG 1
A186	TRANSODUCER TANDEM COMPRESSOR STG 2
A187	CONTROL GENERAL PURPOSE GP3
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	MOTOR, EXHAUST FAN 2
B20	COMPRESSOR 3
B21	MOTOR, OUTDOOR FAN 3
B22	MOTOR, OUTDOOR FAN 4
B23	MOTOR, OUTDOOR FAN 5
B24	MOTOR, OUTDOOR FAN 6
C8	CAPACITOR, EXHAUST FAN 1
C8	CAPACITOR, EXHAUST FAN 2
CB10	CIRCUIT BREAKER T18
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
F31	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
HR5	HEATER COMPRESSOR 3
HR11	HEATER 1, COMPRESSOR 4
H11	JACK, GFI, RECFPACLE
K2-1	CONTACTOR, COMPRESSOR 1
K2-1	CONTACTOR, COMPRESSOR 2
K3-1	RELAY, EXHAUST FAN
K4-1	CONTACTOR, COMPRESSOR 3
K4-1	CONTACTOR, COMPRESSOR 4
K191-2	RELAY, GRANKCASE HEATER 1
K202-1	RELAY, GRANKCASE HEATER 2
K202-1	RELAY, INVERTER
K202-2	RELAY, INVERTER
K231-1,2	RELAY, CONTROL INVERTER
K231-1,2	RELAY, EXHAUST FAN 2
K234-2	RELAY, GRANKCASE HEATER 3
K117	SENSOR, OUTDOOR AIR
R127	SENSOR, THERMISTOR 1, COMPRESSOR 1
R128	SENSOR, THERMISTOR 2, COMPRESSOR 2
R129	SENSOR, THERMISTOR 3, COMPRESSOR 3
R130	SENSOR, THERMISTOR 4, COMPRESSOR 4
S4	SWITCH, LIMIT HI PRESS COMPRESSOR 1
S5	SWITCH, LIMIT HI TEMP COMPRESSOR 1
S8	SWITCH, LIMIT HI TEMP COMPRESSOR 2
S11	SWITCH, LOW PRESS, LOW AMBIENT COMP 1
S28	SWITCH, LIMIT HI PRESS, LOW AMBIENT COMP 3
S31	SWITCH, LIMIT HI TEMP COMPRESSOR 3
S48	SWITCH, DISCONNECT
S49	SWITCH, FREEZE STAT COMPRESS 1
S53	SWITCH, FREEZE STAT COMPRESS 3
S55	SWITCH, FREEZE STAT COMPRESS 3
S85	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 3
S87	SWITCH, LOW PRESS, COMP 1
S88	SWITCH, LOW PRESS, COMP 3
S117	SWITCH, GFI
S180	LIMIT, HIGH TEMP COMPRESSOR 4
T5	TRANSFORMER, CONTROL
T9	TRANSFORMER, OUTDOOR FAN MOTOR
T18	TRANSFORMER, GFI
T29	TRANSFORMER, OUTDOOR FAN MOTOR
T59	TRANSFORMER, GFI
T81	TERMINAL STRIP, POWER DISTRIBUTION

- ⚠ F6 AND F10 FUSES ARE USED ON "V" VOLTAGE UNITS ONLY
 - ⚠ S49 AND S53 ARE PART OF SVDC CIRCUIT
 - ⚠ B10, B11 NOT USED ON UNITS WITH ERV
 - ⚠ USED ON LCH
 - ⚠ T5/T59 USED ON G & J VOLTAGE ONLY
- 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



WIRING DIAGRAM
537717-01

01/15

COOLING -MSAV NO BYPASS

LCH/LGH - 180, 240 ULTRA - G, J, Y

SECTION B

REV. 1

Supersedes

New Form No. 537717-01