



NOTE - IF ANY WIRE IN THIS APPLANCE 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.

NOTE: USE COPPER CONDUCTORS ONLY

▲ S49, S50 AND S53 ARE PART OF SVD/C CIRCUIT

▲ ONLY IN UNITS WITH HUMIDITROL OPTION

▲ EXTERNAL HUMIDITROL CONTACTS

▲ S5, 28, S31 USED ON UNITS WITH INTERLINK COMPRESSORS 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

KEY	COMPONENT	DESCRIPTION
A55	PANEL, MAIN	
A178	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	
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	
CB18	CIRCUIT, BREAKER T18	
HR1	HEATER COMPRESSOR 1	
HR2	HEATER COMPRESSOR 2	
HR5	HEATER COMPRESSOR 3	
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	
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 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 COMP 2
S85	SWITCH, LOW PRESS, LOW AMBIENT COMP 3
S87	SWITCH, LOW PRESS, COMP 1
S88	SWITCH, LOW PRESS, COMP 2
S98	SWITCH, LOW PRESS, COMP 3
S176	SWITCH, OVERLOAD COMPRESSOR 1
S177	SWITCH, OVERLOAD COMPRESSOR 2
S178	SWITCH, OVERLOAD COMPRESSOR 3
T1	TRANSFORMER, CONTROL
T18	TRANSFORMER, CONTACTOR
TB13	TERMINAL STRIP, POWER DISTRIBUTION

J/P	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
138	EXHAUST FAN 2
139	EXHAUST FAN 3
263	HIGH AND LOW PRESSURE SWITCHES
264	BLOWER DECK AREA
265	CONTACTORS AND RELAYS
267	OUTDOOR FAN AREA
268	TRANSFORMERS
269	HUMIDITROL
299	HUMIDITROL INTERFACE
310	CRANKCASE HEATERS

09/14

WIRING DIAGRAM

537698-01

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COOLING - CE	
LCHLGH 180 - M	
SECTION B	REV. 0
Supersedes	New Form No. 537698-01