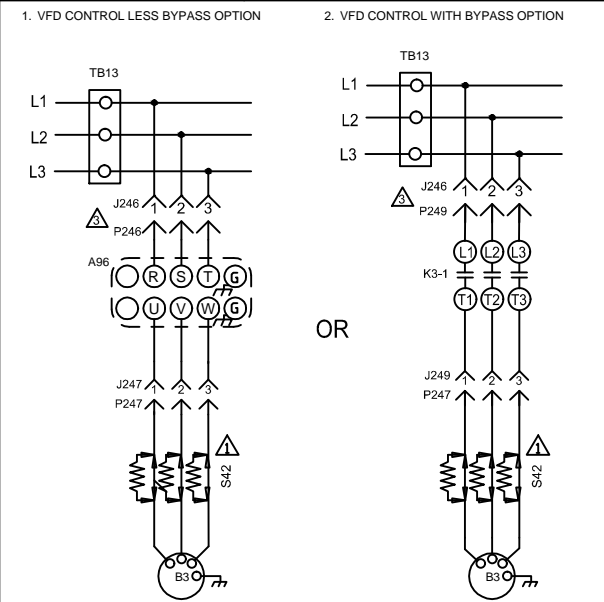


NOTE - IF ANY WIRE IN THIS APPLIANCE IS REPLACED IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, TERMINATION AND INSULATION THICKNESS.
 WARNING - ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES. DISCONNECT ALL POWER BEFORE SERVICING.

KEY	COMPONENT
A30	SENSOR, DISCH.
A34	DUCT STATIC PRESS
A55	PANEL, MAIN
A59	PANEL, COMPRESSORS 3 AND 4
A96	CONTROL INVERTER
A133	CONTROL, GENERAL PURPOSE
A137	CONTROL, INVERTER, RETURN
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
B12	MOTOR, EXHAUST FAN 3
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
B35	MOTOR, EXH. BLO 1
B36	MOTOR, EXH. BLO 2
B37	MOTOR, EXH. BLO 3
C1	CAPACITOR, OUTDOOR FAN 1
C2	CAPACITOR, OUTDOOR FAN 2
C6	CAPACITOR, EXHAUST FAN 1
C8	CAPACITOR, EXHAUST FAN 2
C9	CAPACITOR, EXHAUST FAN 3
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
F6	FUSE, EXHAUST FAN
F10	FUSE, OUTDOOR FAN MOTOR
F30	FUSE, TRANSFORMER T29 PRIMARY
F31	FUSE, TRANSFORMER T29 SECONDARY
F36	FUSE, INVERTER
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
HR5	HEATER COMPRESSOR 3
HR11	HEATER COMPRESSOR 4
J11	JACK, GFI, RECEPTACLE
K1	CONTACTOR, COMPRESSOR 1
K2	CONTACTOR, COMPRESSOR 2
K3	CONTACTOR, BLOWER
K10	RELAY, OUTDOOR FAN 1
K14	CONTACTOR, COMPRESSOR 3
K65	RELAY, EXHAUST FAN
K68	RELAY, OUTDOOR FAN 2
K146	CONTACTOR, COMPRESSOR 4
K149	RELAY, OUTDOOR FAN 3
K150	RELAY, OUTDOOR FAN 4
K152	RELAY, OUTDOOR FAN 5
K153	RELAY, OUTDOOR FAN 6
K203	JACK, RELAY INVERTER CONTROL
K205	CONTACTOR, BYPASS, EXH
R55	RESISTOR, VFD LOADING, A96
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
S37	SWITCH, PRESS, EXH
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
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
TB24	TERMINAL STRIP, UNIT ADDER

J/P	JACK/PLUG DESCRIPTION
18	EXHAUST FAN COMP
24	EXHAUST FAN
47	OUTDOOR FAN 1
52	OUTDOOR FAN 2
69	INTERFACE
86	OUTDOOR FAN INTERFACE
87	OUTDOOR FAN INTERFACE 2
106	OUTDOOR FAN 3
107	OUTDOOR FAN 4
108	OUTDOOR FAN 5
109	OUTDOOR FAN 6
118	CONTROL FOR COMPRESSOR 3 AND 4
119	COMPRESSOR 3 AND 4, INPUT
132	EXHAUST FAN MOTOR 1
133	EXHAUST FAN MOTOR 2
134	EXHAUST FAN MOTOR 3
138	EXHAUST FAN 2
194	INPUT, OUTPUT, A133
198	INVERTER, NORMAL
208	MOTOR, EXH BLO, B35
209	MOTOR, EXH BLO, B36
210	MOTOR, EXH BLO, B37
212	MOTOR, EXH BLO B35
213	MOTOR, EXH BLO B36
214	MOTOR, EXH BLO B37
218	INVERTER CONTROL
246	POWER TO VFD
247	VFD TO MOTOR
248	VFD TO CONTROL
249	CONTACTOR BYPASS
218	VFD CONTROL, EXH AIR
263	HIGH AND LOW PRESSURE SWITCHES
264	BLOWER DECK
265	CONTACTORS AND RELAYS
267	OUTDOOR FAN AREA
268	24V POWER FROM TRANSFORMERS

- NOTES**
- ⚠ S42 USED ON "M" VOLTAGE UNITS AND UNITS WITH HIGH EFFICIENCY MOTORS AND MOTORS LESS INTERNAL OVERLOAD PROTECTION
 - ⚠ USED ONLY ON 242 UNITS WITH INTERLINK COMPRESSORS
 - ⚠ TO TRANSFER B3 BLOWER MOTOR FROM A96 VFD TO K3 CONTACTOR, TURN OFF POWER.
- REMOVE WIRE MARKED K203-A ON K203 RELAY AND CONNECT WIRE MARKED K3-A FROM K3-A CONTACTOR
 - UNPLUG P246 FROM J246, J247 FROM P247. PLUG P249 TO J246, J249 TO P247.
 - UNPLUG P248, PLUG IN P248 BYPASS IF ALARM CONTACTS C AND B ON A96 ARE OPEN
- ⚠ F6 AND F10 FUSES ARE USED ON "Y" VOLTAGE UNITS ONLY
 - ⚠ S49 AND S50 ARE PART OF 5VDC CIRCUIT
 - ⚠ S37 PRESSURE SWITCH CONTROL A34 IS ALTERNATE TO S37
 - ⚠ REMOVE JUMPER BETWEEN TB24-28 AND TB24-29 WHENEVER ALC CONTROL IS USED REFER TO SECTION C DIAGRAM
 - ⚠ A30 SENSOR AND A96 INVERTER CONTROL FOR B3 SUPPLY AIR BLOWER
 - ⚠ A34 SENSOR AND A137, A141, A142 INVERTER CONTROL FOR B35, B36, B37 EXHAUST AIR BLOWER (RSI)
 - ⚠ A30 MAY BE USED WITH OR WITHOUT A34 A34 MAY BE USED WITH OR WITHOUT A30 A34 MAY BE USED WITH OR WITHOUT B9 A34 MAY BE USED WITH EITHER A96 VFD OR B9
 - ⚠ SEPARATE DISCONNECT WIRING WHEN NOT FACTORY INSTALLED
 - ⚠ B37 BLOWER MAY NOT BE USED
 - ⚠ SHIELDED WIRE



← DENOTES OPTIONAL COMPONENTS
 — LINE VOLTAGE FIELD INSTALLED

03/17		ENERGENCE D BOX WIRING DIAGRAM	03/17
		537503-02	
COOLING - VFD CONTROL			
LCH/LGH - 242, 300, 360 - G, J, M, Y			
SECTION			REV 0
Supersedes		New Form No.	
		537503-02	
© 2012 Lennox Commercial			