VAPORSTREAM® VLDI EVAPORATIVE HUMIDIFIER
100% (DUAL) SSR MODULATION (NO SDU/AREA)

DATE	REV	RECORD	DR
5/15	A	E.C.# 6396	JK
4/17	B	E.C.# 6551	JK

REFER TO FOLLOWING DOCUMENTS
–INSTALLATION REQUIREMENTS
–EXTERNAL CONNECTIONS
–HEATER ELEMENT WIRING ARRANGEMENTS

WIRING DIAGRAM SHOWS MAXIMUM NUMBER OF STAGES. YOUR PARTICULAR HUMIDIFIER MAY HAVE LESS. ON SINGLE STAGE UNITS, FUSES AND FUSE BLOCKS ARE OMITTED.

POWER BLOCK L1 L2 L3

EARTH GROUND

EQUIPMENT GROUND

R60A LINE 1 LOAD 1 (10) F1 (12,13) K65 1L1 2T1 T1 STAGE 1 H1 H2 H3 THREE PHASE LOAD T2 T3

R60B LINE 2 LOAD 2 (20) F2 (22,23) 3L2 4T2

(30) F3 (30,31) 5L3 6T3

(12) F4 (12,14) K53 1L1 2T1 T4 STAGE 2 H4 H5 H6 THREE PHASE LOAD T5 T6

(22) F5 (22,24) 3L2 4T2

(30) F6 (30,32) 5L3 6T3

R60C LINE 1 LOAD 1 (10) F7 (15,16) K55 1L1 2T1 T7 STAGE 3 H7 H8 H9 THREE PHASE LOAD T8 T9

R60D LINE 2 LOAD 2 (20) F8 (25,26) 3L2 4T2

(30) F9 (30,33) 5L3 6T3

(15) F10 (15,17) K57 1L1 2T1 T10 STAGE 4 H10 H11 H12 THREE PHASE LOAD T11 T12

(25) F11 (25,27) 3L2 4T2

(30) F12 (30,34) 5L3 6T3

HUMIDIFIER TANK

MACHINE GROUND

MACHINE GROUND WIRE MUST BE PRESENT FOR PROPER HUMIDIFIER OPERATION.

MACHINE GROUND

F or Q12A

F or Q12B

CIRCUIT PROTECTION

(21)

(11) T15 Q17 INTEGRAL TO T15

801 (B) (A) 800 Q17 4A 24VAC (c) 000

TRANSFORMER 75VA

EXTERNAL OUTDOOR ENCLOSURE TERMINALS (OPTIONAL)

VAPOR–LOGIC

P1 24VAC (h) 801 (c) 000

P2 Top Mid Low

HUMIDIFIER TANK

433 (33) 433 S24

432 (32) 432

P10 RJ–11 CABLE

VAPOR–LOGIC REMOTE KEYPAD

LOW WATER FLOAT SWITCH

LEGEND

K	RELAY/CONTACTOR	Y	SOLENOID
T	TRANSFORMER	N	SENSOR
Q	CIRCUIT BREAKER	J	JUMPER
S	SWITCH	E	WATER PROBE
H	HEATER	M	MOTOR/FAN
F	FUSE	R	SOLID STATE RELAY

BREAK TO EXTERNAL CONNECTIONS DIAGRAM

to 36 — 801

to 36 — 000

801 — from 35

h — 801 — S40 — 415A — 15

HUMIDIFIER TANK

415 OR 415A (15)

420 (20) — N44 — 419 (19)

S45 — 414 (14)

VAPOR–LOGIC

P3 — 406 — LW

P4 — 420 — TT — 419 — Isw — 414

P17 — Fill — 401 — (1) 401 Y47 402 (2) 000 (c) FILL VALVE (N.C.)

Drain — 403 — (3) 403 M48 404 (4) 000 (c) DRAIN VALVE (N.C.) (N.O. OUTDOOR)

HUMIDIFIER TANK END OF SEASON DRAIN OPTION

P18 — CT1 — 405

CT2 — 501 — K53 A1 A2 — 406A — HEAT CONTACTOR 2 NO 4,5,6

CT3 — 503 — K55 A1 A2 — 406A — S55 13NO 14NO (4) 000 (c) HEAT CONTACTOR 3 NO 7,8,9

S55 (K65 SAFETY CONTACTOR) AUXILLIARY SWITCH (N.O.)

CT4 — 505 — K57 A1 A2 — 406A — HEAT CONTACTOR 4 NO 10,11,12

P19 — +SSR/BL — 434 — SSR1+ — SSR CONTROL

–SSR/BL — 435 — SSR1– — SSR COMMON

R60A R60B R60C R60D

HUMIDIFIER TANK

(T1) T1 — 405 S65 406 — T3 (T3) — 406 K65 A1 A2 — 000 (c) MANUAL RESET OVER TEMPERATURE THERMAL TRIP AND SAFETY CONTACTOR COIL N.O. 1,2,3

(h) — (4)

801

000

CONTROL CABINET DOOR INTERLOCK (OPTIONAL)

TANK TEMPERATURE SENSOR

SAFETY SWITCH (COVER INTERLOCK)

POWER WIRING

CONTROL CIRCUIT WIRING

FIELD WIRING

OPTIONAL FACTORY

OPTIONAL FIELD

NOTES:

1. WIRING AND BRANCH CIRCUIT PROTECTION PROVIDED BY INSTALLER AS PER NATIONAL ELECTRICAL CODE.
2. FOR SUPPLY HEATER AND MACHINE GROUND CONNECTIONS, SIZE WIRE USING 75°C WIRE TABLE PER NATIONAL ELECTRICAL CODE.
3. USE COPPER CONNECTORS RATED FOR 105°C.
4. REFER TO AUXILIARY TRANSFORMER WIRING DIAGRAM FOR ALL MULTIPLE STAGE WITH HIGH VA DRAW, WHEN TWO TRANSFORMERS ARE PRESENT.
5. WATER LEVEL PROBE GROUND MUST BE CONNECTED TO TANK FOR PROPER HUMIDIFIER OPERATION.
6. REFER TO VLC ELECTRICAL DATA SHEET.

	VLDI, DI WATER, (2) SSR'S DIAGRAM
drSteem™	MAT'L:
	SCALE:
	DRAWN BY: JK
	DATE: 5/1/15
	P/N VLC–VL–16