



From providing comfort humidity to meeting the strictest clean-room requirements, the Vapor stream electric humidifier is an industrial-grade unit designed to meet the humidification demands of any building environment.

VLC Features

- Broad capacity ranges from 5.7 to 285 lbs/hr (2.6 to 129 kg/h), link up to 16 units for capacity up to 4560 lbs/hr (2068 kg/h)
- Control ability on/off proportional or SSR (Solid-state relay)
- Electronically monitored water level ensures safe and reliable operation
- Consistent and reliable control to $\pm 1\%$ RH
- Interoperability allows communication with building automation systems via Modbus or with optional BACnet or LonTalk protocols.
- End-of-season auto drain minimizes microbial growth

Easy Maintenance

- Softened water significantly reduces maintenance requirements.
- User-adjustable water skimmer skims off floating minerals
- Controller-operated drain and flush removes precipitated minerals from evaporating chamber
- Cleanout plate and removable cover provide inspection and service access

Additional Options

- 316 stainless steel construction
- Evaporating chamber insulation
- NEMA -4 control cabinet

Vapor stream Components

1. Vapor-Logic 4 Controller: Vapor-logic controls all humidifier functions and can connect to a building automation system via Modbus or optional BACnet or LonTalk.

2. Water Level Control: Tap/Softened water control water levels electronically using a three-rod probe. Systems with the RO/DI water option control water levels using a float valve and low-water cutoff switch.

3. Drainage: Duration and frequency of draining are user adjustable. To avoid possible stagnant water and microbial growth, the humidifier automatically drains if there is no call for humidity after a user-defined time (72-hour default).

4. Water skimmer/overflow port: In tap/softened water systems, the water skimmer reduces surface minerals in the evaporating chamber. Skimming occurs each time the humidifier fills. The skim time duration is user adjustable. In systems with the RO/DI water option, skimming is not required; the skimmer port functions as an overflow port.

5. Heating elements: Low-watt-density Incoloy-sheathed heating elements ensure operation for many seasons. Constant expansion and contraction of heating elements shed mineral scale. In the unlikely event of heater failure, heating elements can be removed easily.

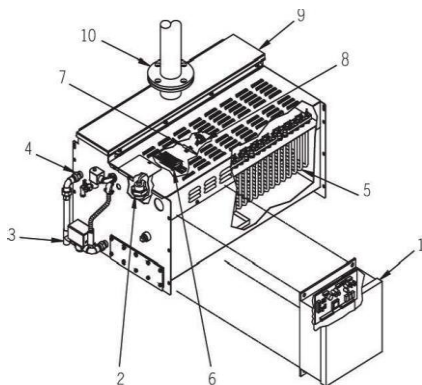
6. Terminal strip: All control wiring connections at the humidifier can be made in this single location.

7. Temperature sensor: Mounted on the evaporating chamber, this sensor enables Over-temperature protection, freeze protection, preheating, allowing rapid response to a call for humidity.

8. Over temperature thermostat: This safety device shuts down the humidifier if it becomes too hot. This is one of three levels of safety protection that also includes the temperature sensor and the water level control system.

9. Service access: Access cover allows periodic inspection and servicing of the evaporating chamber

10. Steam Outlet: Steam generated in the humidifier rises through the steam outlet and travels to the dispersion assembly through vapor hose or piping.



Capacities and Electrical Information

Model	heater		Ampere						Code
			One-phase 230 V			3 phase 400V"			
	Custom	Stage*	Kw	230V	Steam Capacity (kg/h)	(kW)	400V	Steam Capacity (kg/h)	
VLC 2-1			1.8	8	2.4				40131002
VLC 3-1			2.8	12	3.6				40131003
VLC 4-1			3.7	16	4.7				40131004
VLC 5-1			4.9	21.3	6.3				40131005
VLC 6-1	3		5.5	24	7.1	6	8.7	7.8	40131006
VLC9-1	3		8.3	35.9	10.7	9.0	13	11.6	40131009
VLC 12-1	3					12	17.3	15.5	40131012
VLC 16-1	3					16	23.1	20.7	40131016
VLC 21-1	3					21	30.3	27.1	40131021
VLC 25-1	3					25	36.1	32.3	40131025
VLC 12-2	6	2	11.0	47.9	14.2	12	17.3	15.5	40132012
VLC 18-2	6	2	16.5	71.9	21.4	18	26	23.3	40132018
VLC 24-2	6	2				24	34.6	31	40132024
VLC 32-2	6	2				32	46.2	41.4	40132032
VLC 42-2	6	2				42	60.6	54.3	40132042
VLC 50-2	6	2				50	72.2	64.6	40132050
VLC 18-3	9	3	16.5	71.9	21.4	18	26	23.3	40133018
VLC 27-3	9	3	24.8	107.8	32.1	27	39	34.9	40133027
VLC 36-3	9	3				36	52.0	46.5	40133036
VLC 48-3	9	3				48	69.3	62.1	40133048
VLC63-3	9	3				63	90.9	81.4	40133063
VLC 75-3	9	3				75	108.3	97	40133075
VLC 24-4	12	4	22.0	95.8	28.5	24	34.6	31	40134024
VLC 36-4	12	4	33.1	143.8	42.7	36	52.0	46.5	40134036
VLC 48-4	12	4				48	69.3	62.1	40134048
VLC 64-4	12	4				64	92.4	82.7	40134064
VLC84-4	12	4				84	121.2	108.6	40134084
VLC 100-4	12	4				100	144.3	129.3	40134100

* The heater tap value indicates the number of contactors.

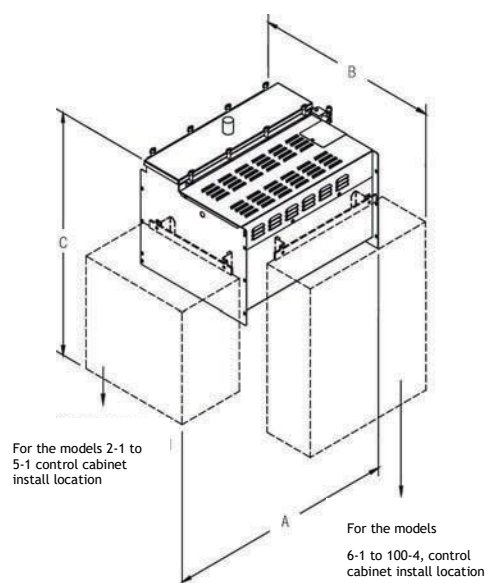
" 3 phase electricity supply, triangular connection

Vaporstream Control cabinet features

As standard, Vaporstream control cabinets are CE certified and installed. It includes the following options.

- Factory installation of a humidifier
- Cabin door lock switch.

The dimensions of the control cabinet depend on the capacity and system features of the device and can be installed up to 15 m away from the Vaporstream. The keypad can be installed up to 152 m away from the control cabinet, depending on the wiring distance.



Model (kW - Stage)	Dimensions Without Control Cabinet		
	A(mm)	B(mm)	C (mm)
VLC 2-1,3-1,4-1,5-1	436	559	770
VLC 6-L,9-L,12-1,16-1,21-1,25-L	500	782	770
VLC 12-2,18-2,24-2,32-2,42-2,50-2	630	782	975
VLC 18-3,27-3,36-3,48-3,63-3,75-3	707	782	975
VLC 24-4,36-4,48-4,64-4,84-4,100-4	898	782	975

Model (kW - step)	Control Cabinet Dimensions		
	A(mm)	B(mm)	C (mm)
VLC 2-1,3-1,4-1,5-1	374	559	480
VLC 6-L,9-L,12-1,16-1,21-1,25-L	326	760	480
VLC 12-2,18-2,24-2,32-2,42-2,50-2	517	760	480
VLC 18-3,27-3,36-3,48-3,63-3,75-3	707	760	480
VLC 24-4,36-4,48-4,64-4,84-4,100-4	898	760	480