

Vaporstream® humidifier: Capacities and electrical specifications

**Table 1-1:
Vaporstream capacities and electrical specifications, tap/softened water and DI/RO water**

Model (kW- stages)	Maximum steam capacity †		Heaters		Current draw (amps)											kW
					Single-phase						Three-phase***					
	lbs/hr	kg/h	Qty.	Stages**	120V	208V*	240V*	277V*	480V*	600V*	208V*	240V*	277V*	480V*	600V*	
2-1	5.7	2.6	1	1	16.7	9.6	8.3	7.2	4.2	3.3	—	—	—	—	—	2
3-1	8.6	3.9	1	1	25.0	14.4	12.5	10.8	6.3	5.0	—	—	—	—	—	3
4-1	11.4	5.2	1	1	33.3	19.2	16.7	14.4	8.3	6.7	—	—	—	—	—	4
5-1	15.2	6.9	1	1	—	25.6	22.2	19.2	11.1	8.9	—	—	—	—	—	5.33
6-1	17.1	7.8	3	1	—	28.8	25.0	21.7	12.5	10.0	16.7	14.4	12.5	7.2	5.8	6
9-1	25.7	11.7	3	1	—	43.3	37.5	32.5	18.8	15.0	25.0	21.7	18.8	10.8	8.7	9
12-1	34.2	15.5	3	1	—	—	—	43.3	25.0	20.0	33.3	28.9	25.0	14.4	11.5	12
16-1	45.6	20.7	3	1	—	—	—	—	33.3	26.7	44.4	38.5	33.3	19.2	15.4	16
21-1	59.9	27.2	3	1	—	—	—	—	43.8	35.0	—	—	43.8	25.3	20.2	21
25-1	71.3	32.3	3	1	—	—	—	—	—	41.7	—	—	—	30.1	24.1	25
12-2	34.2	15.5	6	2	—	57.7	50.0	43.3	25.0	20.0	33.3	28.9	25.0	14.4	11.5	12
18-2	51.3	23.3	6	2	—	86.5	75.0	65.0	37.5	30.0	50.0	43.3	37.5	21.7	17.3	18
24-2	68.4	31.0	6	2	—	—	—	86.6	50.0	40.0	66.6	57.7	50.0	28.9	23.1	24
32-2	91.2	41.4	6	2	—	—	—	—	66.7	53.3	88.8	77.0	66.7	38.5	30.8	32
42-2	119.7	54.3	6	2	—	—	—	—	87.5	70.0	—	—	87.5	50.5	40.4	42
50-2	142.5	64.6	6	2	—	—	—	—	—	83.3	—	—	—	60.1	48.1	50
18-3	51.3	23.3	9	3	—	86.5	75.0	65.0	37.5	30.0	50.0	43.3	37.5	21.7	17.3	18
27-3	77.0	34.9	9	3	—	129.8	112.5	97.5	56.3	45.0	74.9	65.0	56.3	32.5	26.0	27
36-3	102.6	46.5	9	3	—	—	—	130.0	75.0	60.0	99.9	86.6	75.0	43.3	34.6	36
48-3	136.8	62.1	9	3	—	—	—	—	100.0	80.0	133.2	115.5	100.0	57.7	46.2	48
63-3	179.6	81.5	9	3	—	—	—	—	131.3	105.0	—	—	131.3	75.8	60.6	63
75-3	213.8	97.0	9	3	—	—	—	—	—	125.0	—	—	—	90.2	72.2	75
24-4	68.4	31.0	12	4	—	115.4	100.0	86.6	50.0	40.0	66.6	57.7	50.0	28.9	23.1	24
36-4	102.6	46.5	12	4	—	173.1	150.0	130.0	75.0	60.0	99.9	86.6	75.0	43.3	34.6	36
48-4	136.8	62.1	12	4	—	—	—	173.3	100.0	80.0	133.2	115.5	100.0	57.7	46.2	48
64-4	182.4	82.7	12	4	—	—	—	—	133.3	106.7	177.6	154.0	133.4	77.0	61.6	64
84-4	239.4	108.6	12	4	—	—	—	—	175.0	140.0	—	—	175.1	101.0	80.8	84
100-4	285.0	129.3	12	4	—	—	—	—	—	166.7	—	—	—	120.3	96.2	100

* If using an optional SDU or Area-type fan unit for dispersion, run a neutral line with 208V/240V/single-phase and 208V/three-phase power supply lines to provide a 120V circuit for the fan. With all other power supply voltages (other than 120V), provide a separate 120V circuit for the fan, or order from DriSteeM a transformer installed in the control cabinet.

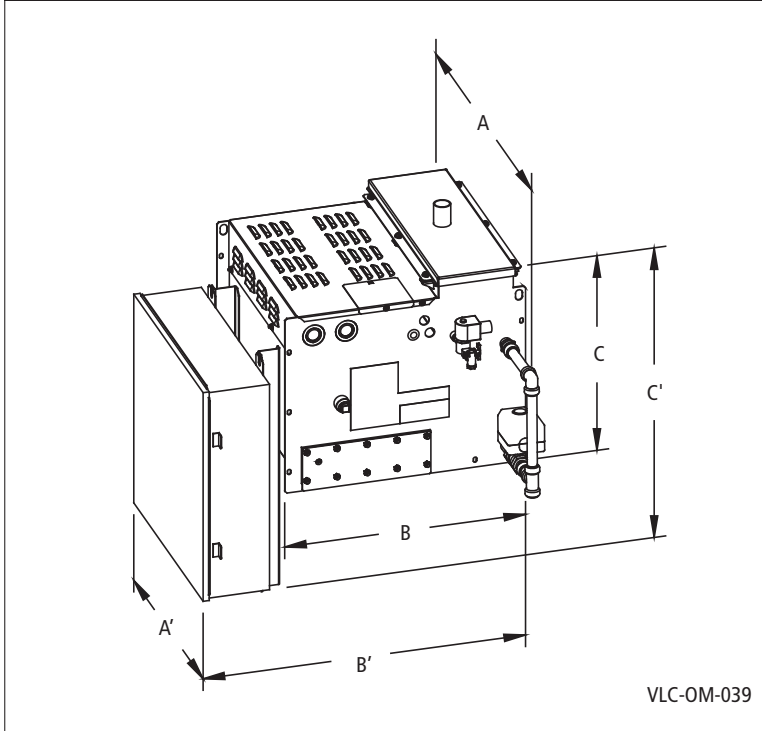
** Heater stage identifies the number of contactors.

*** Three-phase power supply connection. All heater loads are wired Delta.

† Total humidifier load = load to meet design conditions + load to compensate for steam loss from the dispersion assembly and interconnecting piping. If total humidifier load is more than the humidifier's maximum capacity, design conditions will not be met. For steam loss data see the *DriSteeM Design Guide* available for downloading and printing at www.drirsteem.com

Vaporstream humidifier: Dimensions

**Figure 2-1:
Vaporstream dimensions, tap/softened water and DI/RO water**



**Table 2-1:
Vaporstream dimensions, tap/softened water and DI/RO water**

Model (kW - stages)	Without mounted control cabinet					
	A (length)		B (width)		C (height)	
	inches	mm	inches	mm	inches	mm
2-1, 3-1, 4-1, 5-1	16.52	420	26.00	660	18.88	480
6-1, 9-1, 12-1, 16-1, 21-1, 25-1	22.25	565	22.00	559	18.88	480
12-2, 18-2, 24-2, 32-2, 42-2, 50-2	29.72	755	22.00	559	18.88	480
18-3, 27-3, 36-3, 48-3, 63-3, 75-3	37.22	945	22.00	559	18.88	480
24-4, 36-4, 48-4, 64-4, 84-4, 100-4	44.72	1136	22.00	559	18.88	480

Model (kW - stages)	Max. control cabinet size	With mounted control cabinet option					
		A' (length 2)		B' (width 2)		C' (height 2)	
		inches	mm	inches	mm	inches	mm
2-1, 3-1, 4-1, 5-1	M	21.22	539	34.00	864	30.31	770
6-1, 9-1, 12-1, 16-1, 21-1, 25-1	M	26.90	683	30.00	762	30.31	770
12-2, 18-2, 24-2, 32-2, 42-2, 50-2	L	30.90	785	30.00	762	34.11	866
18-3, 27-3, 36-3, 48-3, 63-3, 75-3	XXL	37.22	945	32.00	813	46.11	1171
24-4, 36-4, 48-4, 64-4, 84-4, 100-4	XXL	44.72	1136	32.00	813	46.11	1171

Notes:

- For all Vaporstream models with optional insulation, add 1" (25 mm) to dimensions A, C, and C'.
- Dimensions are largest possible for these models. Actual dimensions may be smaller.

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Vaporstream humidifier: Weights and cabinet sizes

**Table 3-1:
Vaporstream weights and control cabinet sizes, tap/softened water and DI/RO water**

Model (kW- stages)	Shipping weight		Operating weight †		Control cabinet size* (M, L, XL, XXL)										
	lbs	kg	lbs	kg	Single-phase power						Three-phase power				
					120V	208V	240V	277V	480V	600V	208V	240V	277V	480V	600V
2-1	35	16	79	36	M	M	M	M	M	M	—	—	—	—	—
3-1	35	16	79	36	M	M	M	M	M	M	—	—	—	—	—
4-1	35	16	79	36	M	M	M	M	M	M	—	—	—	—	—
5-1	35	16	79	36	M	M	M	M	M	M	—	—	—	—	—
6-1	57	26	157	71	—	M	M	M	M	M	M	M	M	M	M
9-1	57	26	157	71	—	M	M	M	M	M	M	M	M	M	M
12-1	57	26	157	71	—	—	—	M	M	M	M	M	M	M	M
16-1	57	26	157	71	—	—	—	—	M	M	M	M	M	M	M
21-1	57	26	157	71	—	—	—	—	M	M	—	—	M	M	M
25-1	57	26	157	71	—	—	—	—	—	M	—	—	—	M	M
12-2	79	36	237	108	—	L	L	L	L	L	L	L	L	L	L
18-2	79	36	237	108	—	L	L	L	L	L	L	L	L	L	L
24-2	79	36	237	108	—	—	—	L	L	L	L	L	L	L	L
32-2	79	36	237	108	—	—	—	—	L	L	L	L	L	L	L
42-2	79	36	237	108	—	—	—	—	L	L	—	—	L	L	L
50-2	79	36	237	108	—	—	—	—	—	L	—	—	—	L	L
18-3	110	50	326	148	—	L	L	L	L	L	L	L	L	L	L
27-3	110	50	326	148	—	XL	L	L	L	L	L	L	L	L	L
36-3	110	50	326	148	—	—	—	XL	L	L	L	L	L	L	L
48-3	110	50	326	148	—	—	—	—	L	XXL	XL	L	L	L	L
63-3	110	50	326	148	—	—	—	—	XL	XXL	—	—	L	L	L
75-3	110	50	326	148	—	—	—	—	—	XXL	—	—	—	L	XXL
24-4	153	70	427	194	—	L	L	L	L	L	L	L	L	L	L
36-4	153	70	427	194	—	XL	XL	XL	L	L	L	L	L	L	L
48-4	153	70	427	194	—	—	—	XL	L	L	XL	L	L	L	L
64-4	153	70	427	194	—	—	—	—	XL	XXL	XL	XL	XL	L	L
84-4	153	70	427	194	—	—	—	—	XL	XXL	—	—	XL	L	L
100-4	153	70	427	194	—	—	—	—	—	XXL	—	—	—	L	XXL

* Control cabinet sizes in this table are for the largest required cabinet for each model. Depending on Vaporstream options chosen you may receive a smaller cabinet than the one shown in this table. Contact DriSteem if you need more detailed information about control cabinet sizes. See control cabinet dimensions in the next section.

† Operating weight does not include control cabinet. See control cabinet weights in the next section.

Vaporstream humidifier: Control cabinet dimensions and clearance recommendations

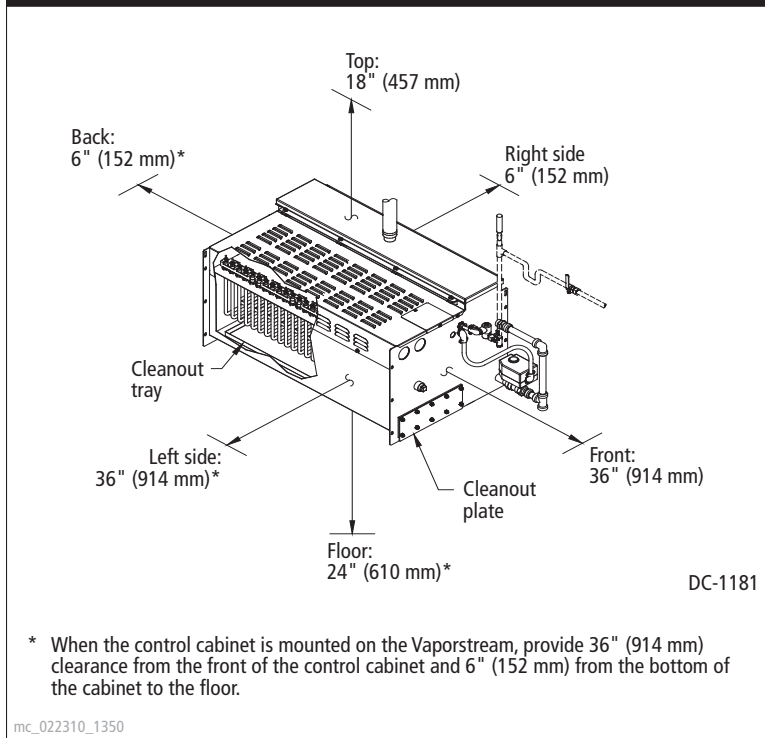
**Table 4-1:
Standard control cabinet dimensions and weights**

Cabinet size	Cabinet dimensions		Shipping weight*	
	inches	mm	lbs	kg
S	16 h x 14 w x 6 d	406 h x 356 w x 152 d	32	15
M	20 h x 20 w x 7 d	508 h x 508 w x 178 d	55	25
L	24 h x 24 d x 7 d	610 h x 610 w x 178 d	73	33
XL	30 h x 24 w x 9 d	762 h x 610 w x 229 d	91	41
XXL	36 h x 30 w x 9 d	914 h x 762 w x 229 d	136	62

* Weight does not include humidifier.

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**Figure 4-1:
Vaporstream clearance recommendations**

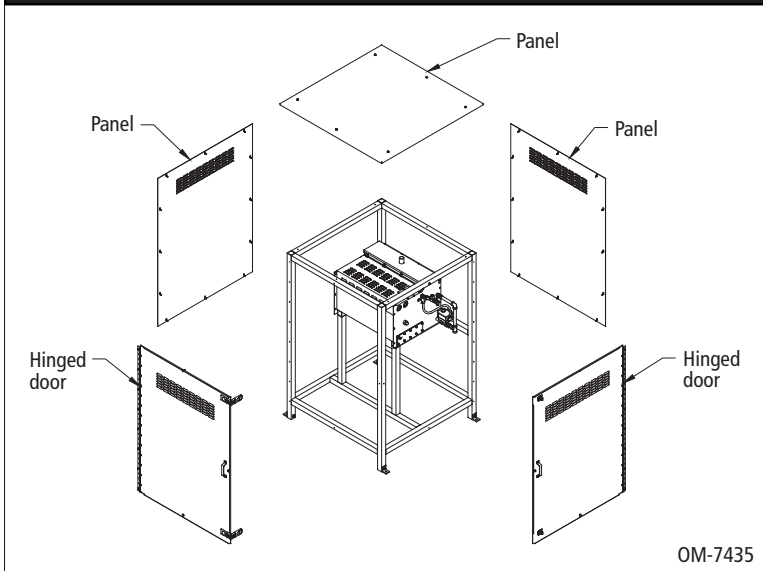


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Vaporstream humidifier: Weather cover

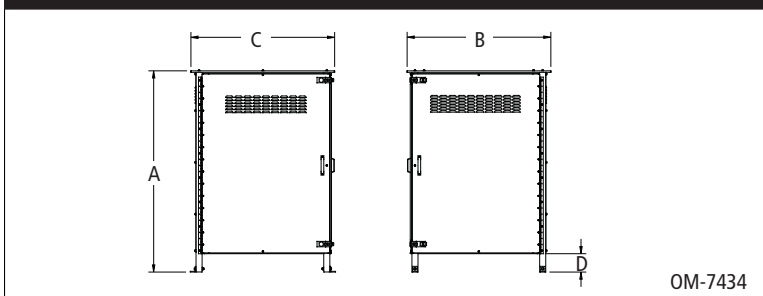
The optional Vaporstream weather cover is water-resistant and designed to protect the humidifier from rain and sun. The weather cover has been tested and approved by ETL Testing Laboratories, Inc., and is listed to UL Standard 1995 and certified to CAN/CSA Standard C22.2 No. 236.

**Figure 5-1:
Weather cover exploded view**



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**Figure 5-2:
Weather cover dimensions**



**Table 5-2:
Weather cover dimensions**

Letter	Description	1-heater and 3-heater covers		6-heater cover		9-heater cover		12-heater cover	
		inches	mm	inches	mm	inches	mm	inches	mm
A	Height	66	1676	66	1676	66	1676	66	1676
B	Length	44	1118	44	1118	44	1118	44	1118
C	Width	35	889	39	991	44	1118	50	1270
D	Distance from bottom	6	152	6	152	6	152	6	152

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**Table 5-1:
Weather cover weights**

Weather cover size	Weight*	
	lbs	kg
1-heater	390	177
3-heater	395	179
6-heater	430	195
9-heater	465	211
12-heater	500	227

* Weight does not include humidifier or control cabinet.

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