



## ElectroVap® MC2 series steam humidifier



The ElectroVap® MC2 is a reliable electrode humidifier producing sterile steam for all your humidification needs.

### Features :

- Capacity ranging from 5 kg/h to 99 kg/h (11 lb/h to 218 lb/h).
- Accept all common control signals and Modbus protocol
- Conductivity from 125  $\mu\text{S}/\text{cm}$  to 1250  $\mu\text{S}/\text{cm}$ .
- Possible conductivity 30 $\mu\text{S}/\text{cm}$  (subject to approval)
- Disposable and cleanable cylinders.
- Plain stainless steel electrodes.
- Menus available in 8 languages.
- Easy to operate and to install.



### Options :

- Remote information board providing information on maintenance, steam production and defect.
- Sanitation system (keeping up water temperature inside boiler).
- Protective cabinets for outdoor installations.
- Support legs for ground installation.



## ElectroVap® Compact humidifier

The ELMC compact humidifier, stemming from the ElectroVap® MC2 series humidifier, is a simpler model without display facilities & designed for applications requiring only 1 kg/h to 4 kg/h (2.20 lb/h to 8.80 lb/h).

It can be proportionally or on/off controlled with a disposable or cleanable steam cylinder. As the larger model, it embarks the BMS connection.

Thanks to its compact dimensions, it can easily be installed in tiny places.

## ElectroVap® KIT MC2 OEM steam humidifier

This stripped model of steam humidifier is designed to be part of any Air Handling Unit or Close Control Unit requiring 5 kg/h to 60 kg/h (11 lb/h to 132 lb/h).

It can be controlled by a proportional or an on/off signal paired with a command circuit board. It can be fitted with either a disposable or cleanable cylinder.

For an easy installation, optional electrical & hydraulic connecting kits are available.





## ElectroVap® MC2 series technical data

Supply (V)	230 V - 1 ph			208V - 3 ph			230V - 3 ph			Nb CYL
ELMC2	kg/h	lb/h	kW (np)	kg/h	lb/h	kW (np)	kg/h	lb/h	kW (np)	
5	5	11	3.75	4.5	10	3.41	5	11	3.78	1
8	-	-	-	7	16	5.44	8	18	6.02	1
10	10	22	7.52	9	20	6.79	10	22	7.51	1
15-2	-	-	-	15	30	10.21	15	33	11.29	1
20	-	-	-	18	40	13.59	20	44	15.02	1
25	-	-	-	23	50	17	25	55	18.80	1
30	-	-	-	30	66	22.37	32	70	24.74	2
40	-	-	-	36	80	27.21	40	88	30.09	2
50	-	-	-	45	100	34	50	110	37.60	3
60	-	-	-	54	120	40.80	60	132	45.11	3
70	-	-	-	63	140	47.59	70	154	52.62	3
90	-	-	-	-	-	-	-	-	-	-
90 HC	-	-	-	-	-	-	-	-	-	-

Supply (V)	380V - 3 ph			400V - 3 ph			Nb CYL
ELMC2	kg/h	lb/h	kW (np)	kg/h	lb/h	kW (np)	
5	5	11	3.8	5	11	3.76	1
8	8	18	6	8	18	6.02	1
10	10	22	7.5	10	22	7.52	1
15-2	15	33	11.3	15	33	11.29	1
20	20	44	15	20	44	15.05	1
30	30	66	22.6	30	66	22.57	1
30 HC	33	72	24.69	33	73	24.83	1
40	40	88	30.1	40	88	30.1	2
50	50	110	37.6	50	110	37.62	2
60	60	132	45.1	60	132	45.14	2
60 HC	66	145	49.38	66	145	49.66	2
90	90	198	67.5	90	198	67.65	3
90 HC	99	218	74.08	99	218	74.49	3

Supply (V)	415V - 3 ph			440V - 3 ph			460V - 3 ph			575V - 3 ph			600V - 3 ph			Nb CYL
ELMC2	Kg/h	Lb/h	Kw (np)	kg/h	lb/h	kW (np)	kg/h	lb/h	kW (np)	kg/h	lb/h	kW (np)	kg/h	lb/h	kW (np)	
5	5	11	3.76	5	11	3.76	5	11	3.78	5	11	3.74	5	11	3.76	1
8	8	18	6.03	8	18	6.02	8	18	5.98	8	18	6	8	18	6.02	1
10	10	22	7.52	10	22	7.52	10	22	7.55	10	22	7.47	10	22	7.52	1
15-2	15	33	11.28	15	33	11.29	15	33	11.25	15	33	11.31	15	33	11.28	1
20	20	44	15.04	20	44	15.05	20	44	15.02	20	44	15.04	20	44	15.04	1
30	30	66	22.57	30	66	22.57	30	66	22.58	30	66	22.52	30	66	22.56	1
30 HC	33	72	24.84	33	72	25	33	72	25.17	33	72	24.58	33	72	24.62	1
40	40	88	30.09	40	88	30.10	40	88	30.05	40	88	30.09	40	88	30.08	2
50	50	110	37.61	50	110	37.62	50	110	37.6	50	110	37.56	50	110	37.59	2
60	60	132	45.13	60	132	45.14	60	132	45.15	60	132	45.13	60	132	45.11	2
60 HC	66	145	49.68	66	16.5	49.5	66	145	49.56	66	143	49.19	66	143	49.25	2
90	90	198	67.7	90	198	67.72	90	198	67.65	90	198	67.65	90	198	67.67	3
90 HC	99	218	74.51	99	218	74.5	99	218	74.73	99	218	74.73	98	216	73.87	3

ELMC in 400/3/50-60	Dimensions in mm / in. (L x H x W)	Steam output mm / in.	Net weight kg / lb	Weight in operation kg / lb
ELMC2 5 to 15-2	475 x 540 x 217 / 18.70 x 21.26 x 8.54	1 x Ø 25 - 1"	15 / 33	23 / 51
ELMC2 20 & 30	550 x 680 x 272 / 21.65 x 26.77 x 10.71	1 x Ø 40 - 1.57"	22 / 49	37 / 82
ELMC2 40 to 60	845 x 680 x 272 / 33.27 x 26.77 x 10.71	2 x Ø 40 - 1.57"	30 / 66	60 / 132
ELMC2 90	1075 x 680 x 272 / 42.32 x 26.77 x 10.71	3 x Ø 40 - 1.57"	45 / 99	90 / 198

## ElectroVap® Compact humidifier

Supply (V)	115V			230V			Nb CYL
CMC	kg/h	lb/h	kW (np)	kg/h	lb/h	kW (np)	
1	-	-	-	1	2.2	0.75	1
1.5	1.5	3.3	2.47	-	-	-	1
2	-	-	-	2	4.4	1.5	1
2.5	2.5	5.5	4.05	-	-	-	1
3	-	-	-	3	6.6	2.26	1
4	-	-	-	4	8.8	3.01	1

CMC	Dimensions in mm / in. (L x H x W)	Steam output mm / in.	Net weight kg / lb	Weight in operation kg / lb
CMC 1 à 4	550 x 490 x 272 21,65x19,3x10,7	1 x Ø 25 - 1"	11 / 24	15 / 33

## ElectroVap® KIT MC2 OEM technical data\*

Kit MC2	Dimensions in mm / in. (L x H x W)	Steam output mm / in.	Net weight kg / lb	Weight in operation kg / lb
Kit MC 5 to 15-2	305 x 453 x 270 / 12.00 x 17.83 x 10.63	1 x Ø 25 - 1"	7 / 15	9 / 20
Kit MC 20 to 30	305 x 605 x 270 / 12.00 x 23.82 x 10.63	1 x Ø 40 - 1.57"	9 / 20	12 / 27
Kit MC 40 to 60	710 x 605 x 270 / 27.95 x 23.82 x 10.63	2 x Ø 40 - 1.57"	18 / 40	23 / 51

\*Electrical characteristics as per ElectroVap® MC2 Series



## ElectroVap® RTH-V2 humidifier



The RTH-V2 is a resistance steam humidifier. It is designed to provide sterile steam for applications requiring precise and sanitary humidification.

This is the only humidifier with a tilting tank allowing easy and fast maintenance.

### Features :

- Capacities from 6 kg/h to 104 kg/h (11 lb/h to 229 lb/h).
- Accept all common signals, native Modbus.
- Over temperature protection.
- Sanitation system (keeping up tank temperature).
- Menus available in 8 languages.
- Signal accuracy : +/- 2%.

### Easy servicing :

- Permanent tilting tank.
- Self-cleaning heating elements in Incoloy.
- Includes a flexible lime collecting bag.
- Maintenance & alert messages on display.
- Cooling cycles before maintenance.



## ElectroVap® RTH-LC humidifier (for non intensive applications)

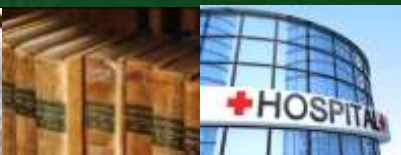
The RTH-LC is the compact version of the RTH-V2 humidifier producing 2.5 kg/h to 30 kg/h (5.50 lb/h to 66 lb/h).

The boiler is a stainless steel cylinder equipped with self cleaning Incoloy heating elements.

### Optional equipment for the ElectroVap® RTH and RTH-LC humidifiers

- Remote information board (maintenance, steam production and fault).
- Bacnet protocol.
- Protective cabinets for outdoor installations.
- Support legs for floor installations.
- Stainless steel waste water tank for draining facilities
- Cooling kit for draining waters.

# HUMIDIFIERS



## ElectroVap® RTH-V2 & ElectroVap® RTH-LC humidifier\*

Supply (V)	380V - 3 ph		400V - 3 ph		415V - 3 ph		440V - 3 ph		460V - 3 ph		480V - 3 ph		Nb of tanks
RTH	kg/h	kW (Pn)	kg/h	kW (Pn)	kg/h	kW (Pn)	kg/h	kW (Pn)	kg/h	kW (Pn)	kg/h	kW (Pn)	
5_3P	6	4	6	4	6	4	-	-	-	-	-	-	1
7	7	5	8	6	8	6	6	5	7	6	8	6	1
10	11	8	12	9	13	10	-	-	-	-	-	-	1
15	16	12	17	13	19	14	14	11	16	12	17	13	1
20	22	16	24	18	26	19	21	15	23	17	25	19	1
30	26	20	29	22	31	24	29	22	32	24	34	26	1
40	38	29	42	32	46	34	35	27	39	29	42	32	1
50	47	35	52	39	56	42	43	33	47	36	52	39	1
60	53	40	60	45	64	48	50	38	54	41	59	45	2
70	63	47	69	52	75	56	58	43	63	48	69	52	2
80	76	57	85	64	91	68	71	53	77	58	84	63	2
90	85	64	94	71	101	76	79	59	86	65	94	71	2
100	94	70	104	78	112	84	87	65	95	72	103	78	2

Supply (V)	575V - 3 ph			600V - 3 ph			Nb of tanks
RTH	kg/h	lb/h	kW (np)	kg/h	lb/h	kW (np)	
7	7	15	5	8	17	6	1
15	16	35	12	17	37	13	1
20	23	51	17	25	55	19	1
30	32	70	24	34	75	26	1
40	39	86	29	42	92	32	1
50	47	103	36	51	112	39	1
60	54	119	41	59	130	44	2
70	63	139	48	68	150	51	2
80	77	169	58	84	185	63	2
90	86	189	65	93	205	70	2
100	95	209	71	103	227	78	2

Supply (V)	230V - 1 ph		208V - 3 ph		230V - 3 ph		Nb of tanks
RTH	kg/h	kW (Pn)	kg/h	kW (Pn)	kg/h	kW (Pn)	
3	2.5	1.9	-	-	-	-	1
5	6	4	-	-	-	-	1
8	8	6	6	5	8	6	1
18	-	-	14	10	17	13	1
25	-	-	20	15	24	19	1
36	-	-	28	21	34	26	1
44	-	-	34	25	42	31	2
51	-	-	40	31	49	37	2
62	-	-	48	36	59	45	2

Model	Dimensions (L x H x P mm / in.)	Steam output mm / in.	Net weight kg / lb	Weight in operation kg / lb
RTH-LC 3 to 15	545 x 675 x 270 / 21 x 27 x 11	1 x Ø 25 - 1"	25 / 55	35 / 77
RTH-LC 20 to 30	545 x 675 x 270 / 21 x 27 x 11	1 x Ø 40 - 1.57"	25 / 55	35 / 77
RTH 5 to 50	805 x 755 x 345 / 32 x 30 x 14	1 x Ø 60 - 2.36"	45 / 99	75 / 165
RTH 60 to 100	1205 x 755 x 345 / 48 x 30 x 14	2 x Ø 60 - 2.36"	70 / 154	140 / 308

\* ElectroVap RTH-LC are available for capacities up to 30 kg/h (66lb/h) maximum.

For capacities above 104 kg/h (220 lb/h), please consult factory.

## FogSystem BUS humidifier



The Fogsystem BUS uses compressed air (2 to 6 bar) and a resonator that **atomises water into an extremely fine fog (water particle size of 1,5  $\mu\text{m}$  to 3  $\mu\text{m}$ )**. The fog created is then rapidly evaporated into the air.

This humidification system is usually installed in airflows (Air Handling Units, air ducts and cold rooms).



The FogSystem stainless steel nozzles can be delivered pre-installed already connected on a custom made aluminium support bar. A proportional control cabinet is available.

## FogSystem BV humidifier



The FogSystem BV venturi nozzle produces fine sprays of moisture directly discharged into the air, raising RH (Relative Humidity) quickly to the required level.

This nozzle is appropriate for small or large direct air applications.

**The FogSystem BV is a very reliable product and if there is no compressed air, there is no water flowing.**



This assembly is composed of air and water valves on a stainless steel bracket for piloting a BUS FogSystem.



Proportional control cabinet for BUS or BV FogSystems.

It works with an external linear control signal (standard) or with a proportional humidity sensor (option).

## AC4 Centrifugal Atomizing Humidifier



This AC4 centrifugal humidifier transforms water into a fine mist that is immediately absorbed by the air. This humidifier is ideal for 250 m<sup>3</sup> to 400 m<sup>3</sup> rooms (8 828 ft<sup>3</sup> to 14 125 ft<sup>3</sup>).

Dimensions : Ø 31 x 48 cm height (12.20 x 18.90 in.)

Humidification capacities : up to 4.5 l/h (1.19 gal/h).



The BP1 and BP2 are room ventilation units allowing a steam discharge in a room where no duct nor AHU is available.

They can be set onto the top of the humidifier (according to the model) or remotely mounted on a wall.

BP1 blowing capacity : 5 kg/h (11 lb/h) .

BP2 blowing capacity : 33 kg/h (74 lb/h).



The EHFIII blowing pack allows to expand the steam into air when there is no duct nor AHU to convey the steam.

To mount on a wall.

EHF III: blowing capacity : 54 kg/h (119 lb/h).



Support legs in painted steel for ElectroVap<sup>®</sup> MC and ElectroVap<sup>®</sup> RTH humidifiers.

These legs are for floor installation of the humidifiers when a wall installation is impossible.



These flexible insulation blankets are for outdoor installations of the RTH series humidifiers.

These covers provide both protection and thermal insulation for the units.



The optional protective cabinet allows outdoor installation of the ElectroVap<sup>®</sup> humidifier. This is a protection against variable climatic conditions. This includes an anti-frost device and an internal ventilation system preventing condensation.



The THR controller is a temperature or humidity device that controls the environmental conditions of a room (cold rooms, green houses or caves) .

It offers an on/off control over the humidity or temperature demand, can adjust the high or low level of temperature or humidity and has a LCD display.



Stainless steel manifold available in various lengths & diameters.



Devatec provides various sensors and Humidistats and that can be installed in ducts, or on walls depending on your installation characteristics.





"Humidity made in Normandy"



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