

CRUV[®]

Electric-to-Steam Humidifier



With Vapor-logic[®] controller option

- *Web-enabled access*
- *Interoperability via Modbus[®] or optional BACnet[®] or LonTalk[®]*

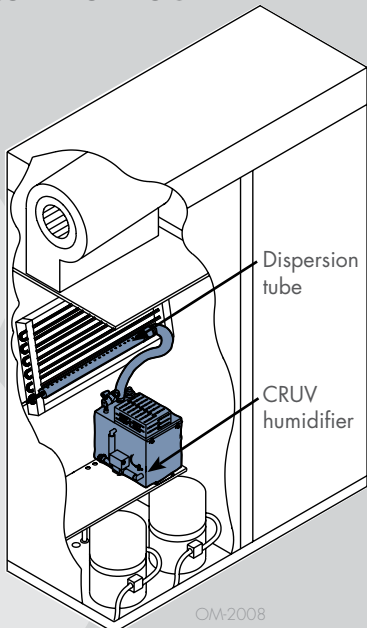
COMPACT AND EASY TO SERVICE



CRUV HUMIDIFIER

CRUV humidifiers use heat caused by electrical resistance in submerged heating elements to boil fill water into steam. CRUV is compatible with all water types and numerous dispersion options. Mounting options include inside an existing enclosure, as shown below.

CRUV WITH A SINGLE DISPERSION TUBE IN A PACKAGED AIR CONDITIONING UNIT



ELECTRIC-TO-STEAM HUMIDIFICATION

The compact CRUV humidifier is designed to integrate inside an existing enclosure, such as a packaged air conditioning unit or added to an existing system, such as an environmental chamber. CRUV is self contained, compatible with all water types, and the clear choice for adding a humidification system while meeting minimum space requirements. And CRUV humidifiers provide reliable control to $\pm 3\%$ RH.

The standard LW Series electronic control system controls water levels and drain and flush cycles. The Vapor-logic[®] microprocessor controller is available for applications requiring advanced control.

WHY CHOOSE ELECTRIC-TO-STEAM HUMIDIFICATION

VERSATILE

- Supports all water types: tap, softened, reverse osmosis, and deionized
- Capacity from 6 to 102 lbs/hr (2.7 to 46 kg/h), link up to 16 units for capacity up to 1632 lbs/hr (740 kg/h)
- Standard LW series controller and optional Vapor-logic controller for multiple levels of control capability

FLEXIBLE

- Dispersion with steam dispersion panels or tubes for broad application flexibility
- On-off or time-proportioned (TP) control for application control in most environments; solid-state relay (SSR) option for tight control
- Electronically monitored water level ensures consistent, reliable operation at any capacity

EASY TO MAINTAIN

- Heating elements and power conductors attach to tank cover for easy tank access without disconnecting wires or plumbing
- Softened water significantly reduces maintenance requirements
- End-of-season auto-drain minimizes microbial growth
- User-adjustable water skimmer removes surface residue

ADVANCED CONTROL

The optional Vapor-logic controller sets the standard for control in electric steam humidification:

- Interoperability allows communication with building automation systems via Modbus[®] or with optional BACnet[®] or LonTalk[®] protocols.
- Safety presets initiate fill and drain cycles and keep the humidifier cool and safe if sensed conditions, though unlikely, could be hazardous.
- Web-enabled control allows you to set up, view, and adjust humidifier functions via Ethernet, either directly or remotely through a network.

Table 3-1:
CRUV capacities, electrical specifications, and weights

CRUV model	Maximum steam capacity**		Current draw (amps)											Shipping weight***		Operating weight***	
			Single-phase						Three-phase								
kW	lbs/hr	kg/h	120V	208V	240V	277V	480V	600V	208V	240V	277V	480V	600V	lbs	kg	lbs	kg
2	6	2.7	16.7	9.6	8.3	7.2	4.2	3.3	—	—	—	—	—	25	11	45	20
4	12	5.4	33.3	19.2	16.7	14.4	8.3	6.7	16.7*	14.4*	12.5	7.2*	5.8*	27	12	47	21
6	18	8.2	—	28.8	25.0	21.7	12.5	10.0	25.0*	21.7*	18.8	10.8*	8.7*	37	17	75	34
8	24	10.9	—	38.5	33.3	28.9	16.7	13.3	33.3*	28.9*	25.0	14.4*	11.5*	37	17	75	34
10	30	13.6	—	—	41.7	36.1*	20.8	16.7	29.1*	25.3*	21.9	12.6*	10.1*	39	18	90	41
12	36	16.3	—	—	—	43.3	25.0	20.0	33.3	28.9	25.0	14.4	11.5	39	18	90	41
14	42	19.1	—	—	—	—	29.2	23.3	38.9	33.7	29.2	16.8	13.5	39	18	90	41
16	48	21.8	—	—	—	—	33.3	26.7	44.4	38.5	33.3	19.2	15.4	39	18	90	41
21	63	28.6	—	—	—	—	43.8	35.0	—	—	43.8	25.3	20.2	43	20	104	47
25	75	34.0	—	—	—	—	—	41.7	—	—	—	30.1	24.1	43	20	104	47
30	90	40.9	—	—	—	—	—	—	—	—	—	36.1	28.9	48	22	109	49
34	102	46.3	—	—	—	—	—	—	—	—	—	40.9	32.7	48	22	109	49

* For wire sizing, the highest leg draw is shown due to current imbalance.

** 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 DriSteam Design Guide available for downloading and printing at www.dristeam.com

*** Depending on configuration, add up to 28 lbs (13 kg) for weight of control cabinet, subpanel, and other electrical control components.

CRUV DIMENSIONS

CRUV with RO/DI water option shown

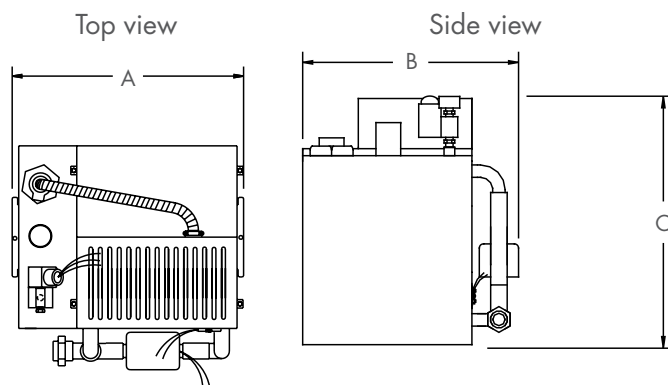


Table 3-2:
CRUV dimensions

CRUV model	A		B		C	
	inches	mm	inches	mm	inches	mm
2, 4	15.50	394	12.50	318	12.13	308
6, 8	16.00	406	16.88	429	13.25	337
10, 12, 14, 16	16.00	406	16.88	429	14.88	378
21, 25, 30, 34	16.00	406	16.88	429	16.38	416



DRI-STEEM Corporation

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**EXPECT QUALITY FROM THE
INDUSTRY LEADER**

Since 1965, DriSteem has been leading the industry with creative and reliable humidification solutions. Our focus on ease of ownership is evident in the construction of the CRUV humidifier. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

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For the most recent product information
visit our website:
www.dristeem.com

