



**CRUV®**

Electric-to-Steam Humidifier

*With Vapor-logic® controller*

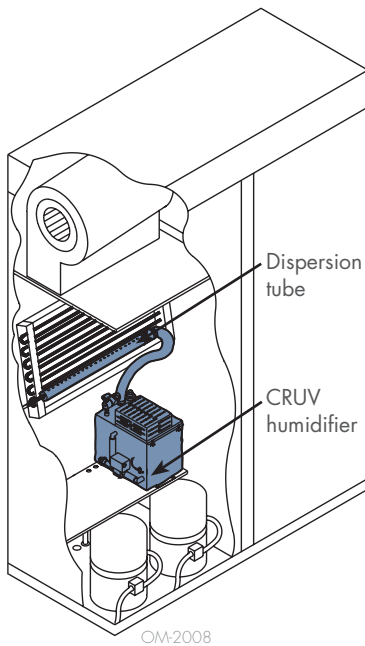
- *Web-enabled access*
- *Interoperability via Modbus® or optional BACnet® or LonTalk®*

# Humidifiers for packaged systems



## 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

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.

## VERSATILE

- Supports all water types: tap, softened, reverse osmosis, and deionized
- Capacity from 2.7 to 46 kg/h, link up to 16 units for capacity up to 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 autodrain 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	Single-phase 230V		Three-phase 400V		Shipping weight (kg)***	Operating weight (kg)***
	kW	Steam capacity (kg/h)**	I max. (A)	Steam capacity (kg/h)**		
2		2.5	8.0	—	11	20
4		5.0	16.0	5.4	12	21
6		7.5	24.0	8.2	17	34
8		10.0	31.9	10.9	17	34
10		12.5	39.9	13.6	18	41
12		15.0	47.9	16.3	18	41
14		—	—	19.1	18	41
16		—	—	21.8	18	41
21		—	—	28.6	20	47
25		—	—	34.0	20	47
30		—	—	40.8	22	49
34		—	—	46.3	22	49

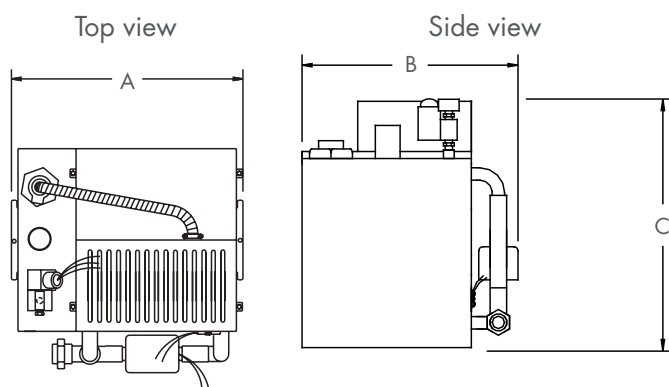
\* For wire sizing, the highest leg draw is shown due to current imbalance.

\*\* 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.dristeem.com](http://www.dristeem.com)

\*\*\* Depending on configuration, add up to 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
	mm	mm	mm
2, 4	394	318	308
6, 8	406	429	337
10, 12, 14, 16	406	429	378
21, 25, 30, 34	406	429	416

**DriSteem Corporation**

A subsidiary of Research Products Corporation  
DriSteem U.S. operations are ISO 9001:2015  
certified company

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**EXPECT QUALITY FROM THE INDUSTRY LEADER**

For more than 45 years, driSteem has been leading the industry with  
creative and reliable humidification solutions. Our focus on quality  
is evident in the construction of the CRUV humidifier. driSteem leads  
the industry with a Two-year Limited Warranty and optional extended  
warranty.

**For more information**

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