

# ELECTRIC STEAM HUMIDIFIER

The **GRAND DHU** compact humidifier is designed to integrate inside AHU, packaged air conditioning unit or added to an existing ducting system. DHU is self-contained, compatible with all water types, and the clear choice for adding a humidification system while meeting minimum space requirements.

DHU humidifiers provide reliable control to  $\pm 3\%$  RH. The standard electronic control system controls water levels and drain and flush cycles. The FAC-logic microprocessor controller provide advanced control and BAS connectivity through BacNet communication.

## VERSATILE

- Supports all water types: tap, softened, reverse osmosis, and deionized
- Capacity from 6 to 102 lbs./hr. (2.7 to 46 kg/h)
- Standard controller and optional FAC-logic controller for multiple levels of control capability

## FLEXIBLE

- Dispersion with steam dispersion tubes for broad application flexibility
- On-off stage 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 manual/auto drain minimizes microbial growth
- User-adjustable water skimmer removes surface residue

## ADVANCED CONTROL

- The optional FAC-logic controller sets the standard for control in electric steam humidification:
- Interoperability allows communication with building automation systems via BACnet protocols.
- Auto Drain option for intermittent drain to minimize microbial growth.
- Solid-state relay (SSR) option for tight control for 16 kW and above.

## SPECIFICATION

DHU kW	Steam Capacity		Stages	Single-Phase	Three-Phase	Operating Weight**	
	lbs/hr	Kg/hr		220V	380 V	lbs	Kg
2	6	2.7	1	9.00	-	45	20
4	12	5.4	1	18.20	6.10	47	21
6	18	8.2	1	27.30	9.12	75	34
8	24	10.9	1 or 2		12.16	75	34
10	30	13.6	1 or 2		15.20	90	41
12	36	16.3	2		18.20	90	41
14	42	19.1	2		21.16	90	41
16	48	21.8	2		24.12	90	41
21	63	28.6	2		31.60	104	47
25	75	34.0	2		37.50	104	47
30	90	40.9	2		44.90	109	49
34	102	46.3	2		50.70	109	49

\* 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 Design Guide.

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

