

# ADIATEC<sup>®</sup> HUMIDIFIER

*Ultrasonic*



## *Models BR and BA:*

- *In room or in AHU/duct application flexibility*
- *93% less energy required compared to isothermal humidifiers*
- *Greater effectiveness in low load sensible applications*
- *±1% controllability with modulating demand signal and constant temperature/airflow control*
- *Small water droplet for easily evaporated water*
- *Adiabatic cooling*

# SUSTAINED QUALITY AND DEPENDABILITY



## Humidistat controllers

- Digital display of humidity and setpoint.
  - Mount to wall or standard junction box.
  - One universal input for a remote humidity sensor.
  - One 0 - 10VDC or 4 - 20mA output
- Input voltage of either 24VAC or 24VDC.

Learn More



## WHY CHOOSE THE DRISTEEM ULTRASONIC HUMIDIFIER

- ON/OFF control via 2-step humidistat controls unit at 50% or 100% output.
- Modulating control via pulse width modulation. Can achieve up to  $\pm 1\%$  controllability with consistent airflow and temperature.
- Reduce air conditioning/mechanical cooling while taking advantage of free cooling (sensible).
- Hygienic drain allows for removal of water to help mitigate bio-growth.
- No/minimized risk of fire with no heating or boiling of water.

## ROOM ULTRASONIC HUMIDIFIERS (MODEL BR SERIES)

The Model BR series is designed for a magnitude of in-room applications. With the polished/mirrored cover we are able to provide a sleek design with great performance. These units can be mounted on the wall or using a drip tray.

- Mounts on the wall below the ceiling.
- Adsorption distance dependent on room conditions.
- Integral fan(s) carry the mist out of the unit.
- Drip tray accessory provided as an option for additional piece of mind.

## DUCTED ULTRASONIC HUMIDIFIER (MODEL BA SERIES)

The Model BA series is specifically designed for the unit to be placed in an AHU or duct application. These units can be purchase with a mounting rack or placed into the airstream.

- Mounts into a duct or AHU.
- Utilizes existing airflow to carry the mist out of the unit.
- Handles common air velocities of 200 - 800 fpm.
- Adjustable air baffles to optimize performance.



## DRISTEEM HYDROTRUE® WATER TREATMENT SYSTEMS

DriSteem RO and DI solutions provide a complete package to produce high purity adiabatic humidification.

- Pre-treatment allows for our Ultrasonic unit to not pass dissolved solids downstream.
- DI system options with cartridges provides ease of maintenance without acid/caustic handling.
- RO systems can produce up to 288 to 15,840 gallons per day.
- Silver ionization or UV filtration can help mitigate biological growth.

Table 3-1:  
Ultrasonic humidifier specifications

Specifications	Model BR Humidifier						Model BA Humidifier						
	BR-02	BR-04	BR-06	BR-08	BR-10	BR-16	BA-06	BA-12	BA-18	BA-24	BA-30	BA-36	BA-42
Capacity* lbs/hr	2.2	4.4	6.6	8.8	11	17.6	7.9	15.8	23.7	31.6	39.5	47.4	55.3
Capacity* kg/h	1.0	2.0	3.0	4.0	5.0	8.0	3.6	7.2	10.8	14.4	18.0	21.6	25.2
Piezoelectric transducer (each)	2	4	6	8	10	16	6	12	18	24	30	36	42
Power supply VAC/60 Hz (transformer)	120	120	120	120	120	120	120	120	120	120	120	120	120
Power supply VAC/60 Hz (humidifier)	48	48	48	48	48	48	48	48	48	48	48	48	48
Power consumption VA/60 Hz	135	220	290	360	430	780	220	448	660	875	1089	1303	1518
Transformer (VA)**	500	500	500	500	500	1000	500	500	1000	1000	1600	1600	1600
Maximum fan performance (cfm)	60	60	85	85	85	175	-	-	-	-	-	-	-

- \* The effective humidifying capacity depends on the level of supply voltage under load (set 48 V) and on the length and cross section of the tubes/pipes leading to the place of humidification.
- \*\* The power output of the transformers stated is optimized for the humidifier types. Their power reserves are sufficient to bear the power consumption of a correctly laid supply cable with short distance between humidifier and transformer. Nevertheless, it is recommended to check transformer selection mathematically according to local conditions.

FIGURE 3-1: MODEL BR ROOM HUMIDIFIER

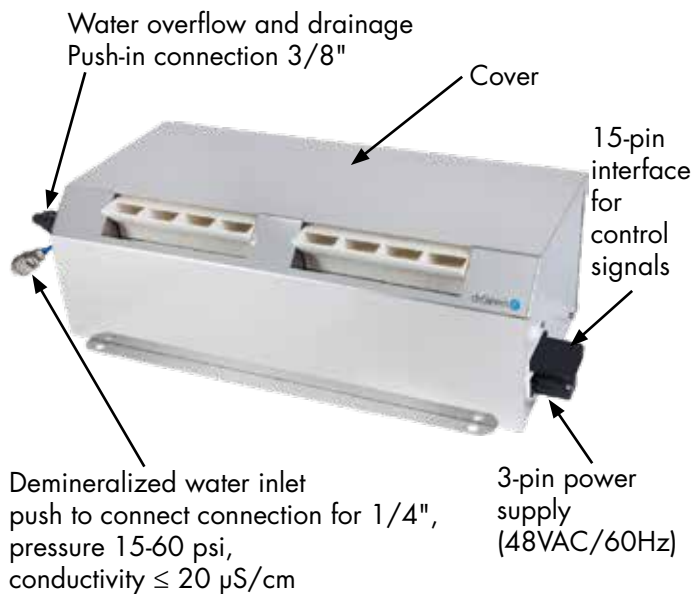
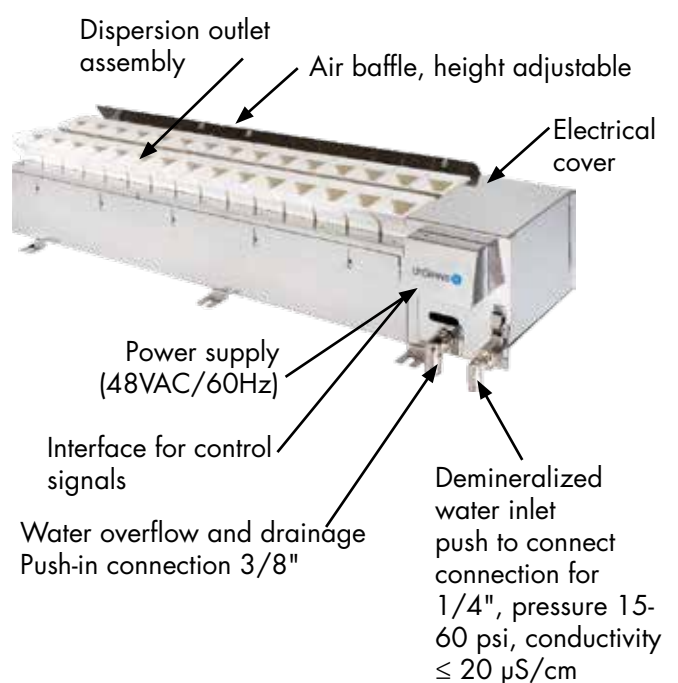


FIGURE 3-2: MODEL BA DUCT HUMIDIFIER





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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 DriSteem products. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

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