

# Ultrasonic Humidification



STULZ Ultrasonic provides precise static electricity and product quality control at a minimal operating cost.

Direct Room (DRH) and Ducted (DAH)
Humidifiers provide a clean, efficient, and
precise humidity control solution. STULZ
Ultrasonic humidifiers provide 93% energy
savings over steam humidifiers and are the
ideal solution for mission critical applications.

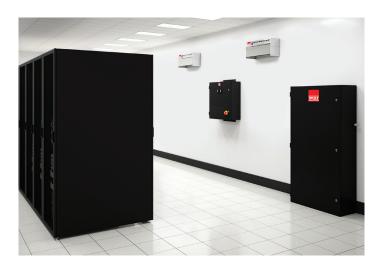
- STULZ E<sup>2</sup> Microprocessor Controller allows integrated control operation of up to 16 humidifiers per grow room
- 90% smaller droplet than nozzles
- Adiabatic humidification process requires less than
   7% of the energy required to boil water into steam
- Improves efficiency of high sensible heat applications
- Mixed bed deionization water treatment systems
- 100% of the demineralized water in the humidifier is utilized and does not require a flush cycle
- Low operational expense equates to very short ROI
- STULZ Ultra-Series proportional controls are engineered for single or multiple humidifier systems
- Meets California's Title 24 requirements

	STULZ Ultrasonic	
	DRH - Direct Room Humidifier	DAH - Ducted Air Humidifier
	Wall or Shelf Mounted Unit	Duct and Air Handling Mounted Module
lbs/hr	4 - 18	5 - 40
kg/hr	2 - 8	2 - 18

### **Direct Room Humidifier (DRH)**

Direct Room Humidifiers are designed for stand-alone room applications. DRHs are typically mounted on a perimeter wall serving mission critical applications, or in any environment where precise humidity control is required.

- Mounts below the ceiling in a conditioned space
- Integral blower
- On wall or column with factory furnished mounts
- Absorption distance determined by RH of room
- Suspended from above in open space



## **Ducted Air Humidifer (DAH)**

Ducted Humidifiers are designed for use with central station air handling units (AHU) and can be located conveniently in the airstream ductwork or rack mounted within the AHU itself.

- Mounts in moving air stream of AHU or ductwork
- Air velocity design similar to heating/cooling coils
- Absorption distance determined by RH and temperature of the airstream
- Multiple humidifiers assembled on factory rack system
- Factory accessories for optimized airflow and mist control



#### **STULZ Water Treatment**

Mixed Bed Deionization (DI) provides high purity water quality specified for STULZ Ultrasonic Humidification Systems

- · Assures third party certification of industry standards and complete end-to-end solutions from a single source
- STULZ Demi-Cabinet enclosures for unitary Reverse Osmosis (RO) and/or DI applied to small capacity and light commercial humidifier applications
- Culligan High Purity RO plant pre-conditioner for large capacity humidifier applications
- CHP-250 to 8000 gallons per day RO/DI packages include pre-filtration, storage, repressurization, UV sterilization, monitoring and start-up

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