

# STULZ

CLIMATE. CUSTOMIZED.

## 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 Humidifier (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

### STULZ AIR TECHNOLOGY SYSTEMS (STULZ USA), INC.

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