

# humiFog multizone: high pressure atomizing humidifier

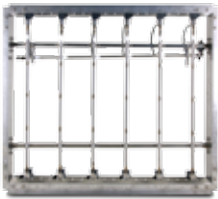
Energy saving and hygienic safety, for adiabatic humidification and cooling.  
The atomization humidification system for industrial, commercial and hospital applications that combines extremely high efficiency and precision with hygienic safety.



- maximum hygiene (VDI6022) without chemical additives;
- $\pm 1\%$  RH precision and wide range of modulation;
- up to 2,200 lb/hr (1,000 kg/h);
- up to 11,000 lbs/hr (5,000 kg/h) in the custom version;
- models with stainless steel pump, silicone-free models for automotive applications;
- seismic certification.

Atomizing water at high pressure (70 bars) using special nozzles, the unit produces a very fine and uniform aerosol, which is easily absorbed in the air even over **short distances**.

Maximum capacity is 2,200 lb/hr (1,000 kg/h) standard and 11,000 lbs/hr (5,000 kg/h) in the custom version. Made-to-measure stainless steel racks are available for duct applications, plus a droplet separator with very low pressure drop and water drain, in the fully stainless steel or fiberglass versions. Distributors and blowers are available for direct humidification in rooms.



atomizing rack



droplet separator

humiFog offers both high precision ( $\pm 1\%$  RH) and a wide range of modulation, combining the effect of the inverter that controls pump flow-rate, with the action of the solenoid valves that vary the active number of nozzles. Consequently, ideal

applications are those that require precision and reliability – typical examples are the aerospace, automotive and pharmaceutical industries – and to manage up to six ducts with independent set points. In addition, one single pump can manage two atomizers in the duct for **summer/winter operation** (indirect evaporative cooling/humidification).

humiFog has been designed with special care to hygiene and safety, without any water recirculation or retention when the unit is not operating, and is certified in accordance with VDI6022 **without needing chemical biocides**. The system activates automatic washing cycles at set frequency, in compliance with local regulations.



## Very low power consumption

Just 4 W of power consumed for each liter/hour of capacity, less than 1% of any steam humidifier



## Summer/winter operation

Cools the air in summer without increasing humidity, exploiting indirect evaporative cooling



## Maximum hygiene

Product certified in compliance with VDI6022 using pure and simple water. The water is not recirculated and the system is automatically emptied after each operating period.