



DESCRIPTION

Adding humidity – and being able to precisely control it – is vital to a wide variety of industrial applications. Proper humidity levels can be crucial to the rate of production, quality of the product, avoiding damaging static buildup, worker safety and comfort, and reducing dust and odors.

MicroCool high-pressure fog systems deliver micron sized droplets which float in the air and flash evaporate to quickly increase humidity levels. The smaller the water droplets, the larger the evaporation surface exposed to the dry air. Extremely small droplets (1/10th the diameter of a human hair) create fine mist that cools the air without wetting.

MicroCool offers a variety of integrated fog delivery systems that include patented nozzles, high-pressure pumps and nozzle line configurations that can meet any humidification specification.

THE CONCEPT + ADVANTAGES

How MicroCool's Fog + Misting Systems Supply Focused Humidification

1. Engineers determine the optimal nozzle and pump configuration
2. A grid of patented nozzles is dispersed evenly throughout an installation (with 4 nozzle options and 2 line options) and pumps are installed
3. Temperature and humidity controllers are set to desired levels
4. System generates microscopic water droplets that quickly evaporate into the air and increase humidity levels and provide cooling
5. System is monitored via controls, meters and gauges on pump units

Advantages —

- Clean, pure, bacteria free, humidification (with treated water)
- Exact, focused distribution of humidity
- Lower operating costs compared to electrode steam, compressed air, ultrasonic and centrifugal systems
- Zero wetting due to drip-free nozzles
- Low energy usage
- Simple installation
- Easy nozzle adjustment

- Reduce Static
- Control Humidity
- Reduce Dust + Odors

VALUE ADDED BENEFITS

- **Reduce static electricity** — Vital in operations like precision electronics manufacturing or paper and textile operations.
- **Reduce contaminants** — MicroCool FOCUS pump systems are equipped with automatic “purge” cycles that clean and recirculate water every 24 hours to eliminate any chance of waterborne viruses that could atomize.
- **Maintain product quality** — Cold stores, wine cellars, woodworking factories, greenhouses and hatcheries are just a sampling of the places where humidity plays a significant role in producing a quality product.
- **Keep it clean** — Fog systems are ideal for clean rooms and sensitive locations. Nozzles close after every operation, eliminating drips and drainage.
- **Reduce the amount of dust in the air** — Maintain a cleaner, safer workplace and increase worker productivity.



World leaders in fog and mist technology for cooling, humidification, air quality control



800-322-4FOG
+1 760-322-1111