Herrmidicool®

Atomizing Humidification System

TECHNICAL ENGINEERING SPECIFICATION

The Herrmidicool® system utilizes proven atomizing nozzle technology with over four decades of proven reliability.

Introduction:

The Herrmidicool® System provides in-duct air/water atomizing humidification and evaporative cooling technology for industrial and commercial buildings. The marriage of time proven maintenance-free atomizing heads with reliable accurate modulating controls is what makes Herrmidicool® work as an effective and energy efficient alternative to conventional humidification systems.

Operation is fully automatic and controlled by enhanced microprocessor controls. When the relative humidity level drops below the setting on the controls, the air solenoid opens. As soon as the air pressure builds up sufficiently to atomize, the air pressure switch closes the circuit to the water solenoid valve; starting water flow to the atomizing heads.

The Herrmidicool® atomizing heads are designed and manufactured for dependable, extended operation. The all-brass or stainless steel construction eliminates rust and corrosion. One cleaning each year is typically sufficient. Atomizing heads are available in capacities of 6, 8, 10, 12, or 15 lbs/hr of water. The proper capacity heads are selected based the total humidifiation requirement along with a flexible design concept, thus allowing Herrmidicool® to be applied to virtually any system.

Applications:

- Ducted Air Distribution
- Air Handling Units
- Hospitals & Medical Clinics
- Telecommunications
- Textile Plants
- Commercial Office Buildings
- Printing Operations
- Computer Rooms

Features & Benefits:

- Evaporative Cooling Benefits
- Low Energy Consumption
- Cleanout Pin Equipped Nozzles
- Fully Automatic Operation
- Non-dripping Atomizing Heads
- Low Air Consumption
- Four Decades of Proven Performance
- Systems Available for Raw or DI/RO Water
- Full Modulation

Warranty:

- 2-Year Limited Warranty

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General Specifications:

Model	Herrmidicool®
Control Sections	Compressed Air & Water
Voltage / Phase	120 VAC / 1-Phase
Control System	Full Modulation Utilizing Electronic Humidity Transmitters
Air Pressure Requirements	60 PSI to Control Section, 30 PSI at Atomizing Heads Control Humidity / High Limit Humidity / Air Proving Switch
Water Pressure Requirements	50 PSI to Control Section, 32-36 PSI at Atomizing Heads
Piping	Potable Water: Copper or Brass, DI/RO Water: 304/316 Stainless Steel
Atomizing Head Capacity	6, 8, 10, 12, or 15 lbs/hr each
Air Volume Requirements	12 SCFM per 100 lbs/hr of Water
Water Droplet Size	7.5 Micron at 100% Output (Average)
Spray Head Shipping Weight	Varies (Depending on Spray Head Quantity / Configuration)
Control Panel Shipping Weight	245 lbs

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