



**Herrmidicool®**

*In-Duct Air/Water Atomizing & Evaporative  
Cooling System*

# The Herrmidicool® System

**The Herrmidicool Humidification and Evaporative Cooling System provides in-duct air/water atomizing humidification and evaporative cooling technology for industrial and commercial buildings.**

This superior atomizing system has a proven reputation for precision control of relative humidity. Herrmidicool is energy efficient, easy to install and cost effective. It incorporates a control technique that monitors not only the room humidity conditions, but also the supply duct conditions to provide accurate modulation for even the most precise environments. There is no short cycling or saturation of the supply duct. System controls are electronic and can be interfaced with existing environmental control systems for more efficient operation.

## Customized Engineering

Herrmidicool's combination of small individual head capacities, variable air/water ratios and high forward discharge velocity to the air stream allows for rapid absorption, uniform moisture throughout the air-duct handler and permits the usage of variable air volume systems. All Herrmidicool systems are available with a variety of construction materials, depending on the requirements of the application. Our experienced service staff and sales personnel can tailor Herrmidicool technology to your specific application.



# In-Duct Air/Water Cooling System

## Features & Benefits

### Precision Control:

Herrmidicool incorporates automatic, fully modulating controls which allow the patented, fine mist atomizing spray heads to meet the most stringent requirements. Environments include manufacturing, laboratory and commercial buildings.

### Fully Adaptable:

No additional ductwork is required because Herrmidicool will adapt to most existing duct systems. In smaller ducts, our exclusive "External Duct Adapter" is available to accommodate both new installations and retrofits.

### Preventative Control:

Herrmidicool's system controls help to prevent the flow of water without proper air pressure. This also keeps the heads from dripping and spitting.

### Unique Atomization Design:

The Herrmidicool's atomizing heads are self-cleaning and self-sealing. This minimizes maintenance and protects the water supply from ambient contamination. The internal atomization design requires only .12 scfm compressed air at 30 psi for every pound (.0075 cubic meters compressed air at 2.0 bar per kilo) of water per hour atomized. .

### Calibrated Heads:

Each head on the Herrmidicool system is calibrated at the factory before shipment to guarantee capacity and air consumption.

### Economical:

Energy usage typically runs only \$.26 per 100 lbs./hr (45.36 kg/hr) of humidification, assuming an energy charge of \$.12 per kilowatt-hour.

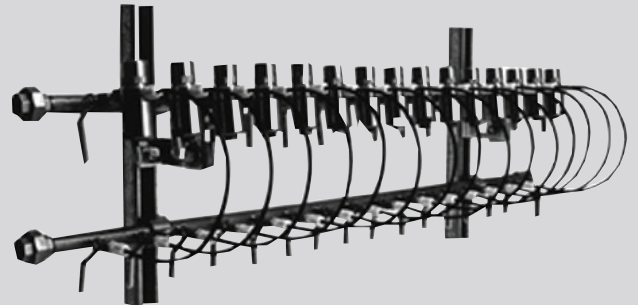
## Designed for Precision

### The Humidification Control Panel:

Independent electronic control components or DDC interface components help to regulate the flow and pressure of water and air through the atomizing heads. These components are housed within an enclosure to minimize field mounting and wiring.

### Atomizing Head Manifolds:

Self-cleaning, self-sealing, dripless and highly efficient, the atomizing heads are the heart of the Herrmidicool system. A large number of small-capacity heads are mounted on a manifold to optimize coverage of the cross-sectional area of the duct or air handler are designed and manufactured for dependable, extended operation.



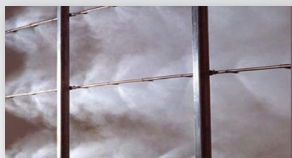
The all-brass or stainless steel construction eliminates rust and corrosion. One cleaning each year is typically sufficient. Atomizing heads are available in capacities of 6, 8, 10, 12, or 15 lbs/hr of water. The proper capacity heads are selected based the total humidification requirement along with 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



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