

EVAPORATIVE COOLING AND HUMIDIFICATION

Wetted Media System

- *Energy efficient*
- *Provides both direct and indirect evaporative cooling*
- *Installs in AHUs or ducts*
- *Simple, reliable operation*

Advanced, efficient cooling and humidification

The DriSteem® Wetted Media System provides evaporative cooling and humidification for a wide variety of applications. Evaporatively cool and humidify to enhance indoor air quality, manufacturing processes, material longevity, and comfort while taking advantage of the free cooling and energy savings inherent with this technology.

The DriSteem Wetted Media System delivers economical cooling and humidification in air handlers and ducts. A sophisticated water and scale management system optimizes water and media life.

ENERGY EFFICIENT

Evaporative cooling and humidification systems draw heat from air to evaporate unheated water introduced by the wetted media system. This process raises the relative humidity (RH) level and lowers the dry bulb air temperature. Consequently, these systems humidify and cool air very efficiently.

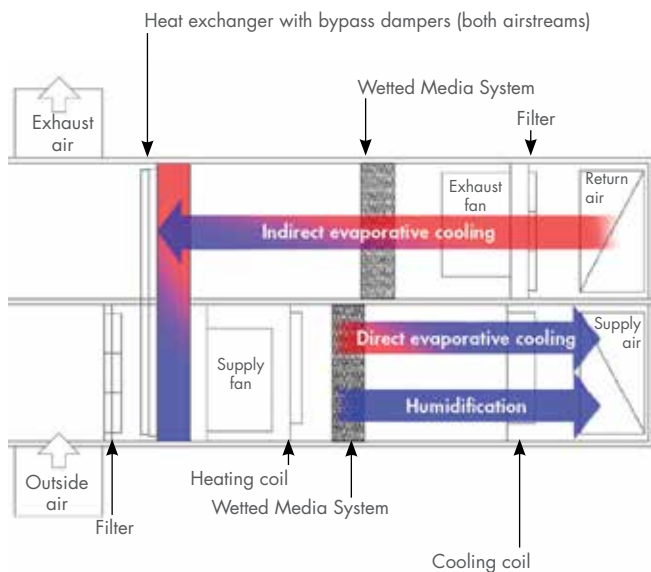
REDUCES COOLING LOAD

As water is absorbed in air, the evaporative cooling effect reduces the building's cooling load. This provides significant energy savings in applications requiring both cooling and humidification.

LOW MAINTENANCE

Wetted media systems are simple to operate, and recirculate RO/DI or potable water through robust centrifugal pumps. The Vapor-logic controller manages the concentration of dissolved solids in recirculated supply water to minimize scaling and lengthen media life. When required, new media cassettes easily drop in to place.

DIRECT OR INDIRECT EVAPORATIVE COOLING



Direct evaporative cooling adds moisture to the supply air. Indirect evaporative cooling occurs in the heat exchanger without adding moisture.

WETTED MEDIA SYSTEM



The DriSteem Wetted Media System with 8" (203 mm) and 12" (305 mm) media delivers evaporative cooling and humidification to air handlers and ducts. The Vapor-logic controller's sophisticated water and scale management capabilities optimize water and media life.

MEDIA WITH DROPLET SEPARATOR



THE MOST ADVANCED TECHNOLOGY

- Water concentration management maximizes media life and water utilization
- Multiple compact recirculation pumps provide redundancy with low system energy usage
- Controller anticipates cooling requirements, maximizes system on-time, predicts media replacement, and provides optional temperature control
- Built-in droplet separator removes water droplets that can form when operating at higher air velocities.

COOLING EFFECT SAVES ENERGY

- Every pound of water absorbed in an airstream removes approximately 1000 Btu of heat from the air (every kg absorbed removes approximately 2300 kJ of heat)
- Significant energy savings when cooling and humidifying simultaneously

LOW MAINTENANCE

- Water concentration management minimizes media scaling, extending media life
- Can be used with RO, DI, or potable water
- Easy to replace media cassettes drop into frame in seconds
- Powerful pumps keep solids in the holding tank in motion to be easily drained away
- Media stages can remain active while other stages are in dry-out mode.

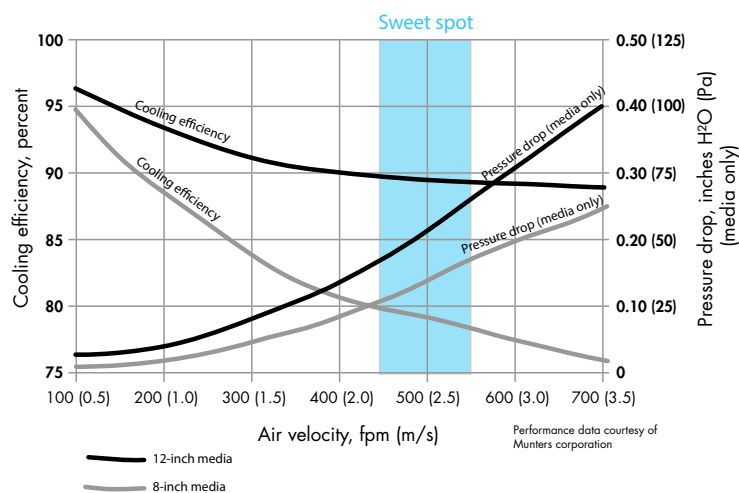
COMPREHENSIVE SYSTEM CONTROL WITH VAPOR-LOGIC® CONTROL

- Accurate, responsive control; PID control tunes system for maximum performance
- Set up, view, and adjust system functions with intuitive keypad/display or Web interface
- Integrates into any building automation system via Modbus® and optional BACnet® or LonTalk® communication protocols

VERSATILE

- Cools and humidifies in air handlers and ducts
- Media staging and predictive operation allow high turndown of system output
- Media sizes available in 8" (203 mm) or 12" (305 mm) sizes; multiple systems can be combined for larger capacities
- Flexibility accommodates even the most challenging applications; extensive network of DriSteem Representatives available to assist with system layout and design
- The user-controlled Wetted Media System saves on cost while maintaining the flexibility to work with an existing Building Automation System.

WETTED MEDIA SYSTEM COOLING EFFICIENCY AND PRESSURE DROP



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A subsidiary of Research Products Corporation
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Continuous product improvement is a policy of DriSteem Corporation; therefore, product features and specifications are subject to change without notice.

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Form No. WMS-BRO-EN-0918

EXPECT QUALITY FROM THE INDUSTRY LEADER

For more than 45 years, DriSteem has been leading the industry with creative and reliable humidification solutions. Our focus on quality is evident in the construction of DriSteem Evaporative Cooling Systems. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

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For the most recent product information visit our website:
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