

# ALL PRODUCTS BROCHURE



# Who we are

## EXPERTS

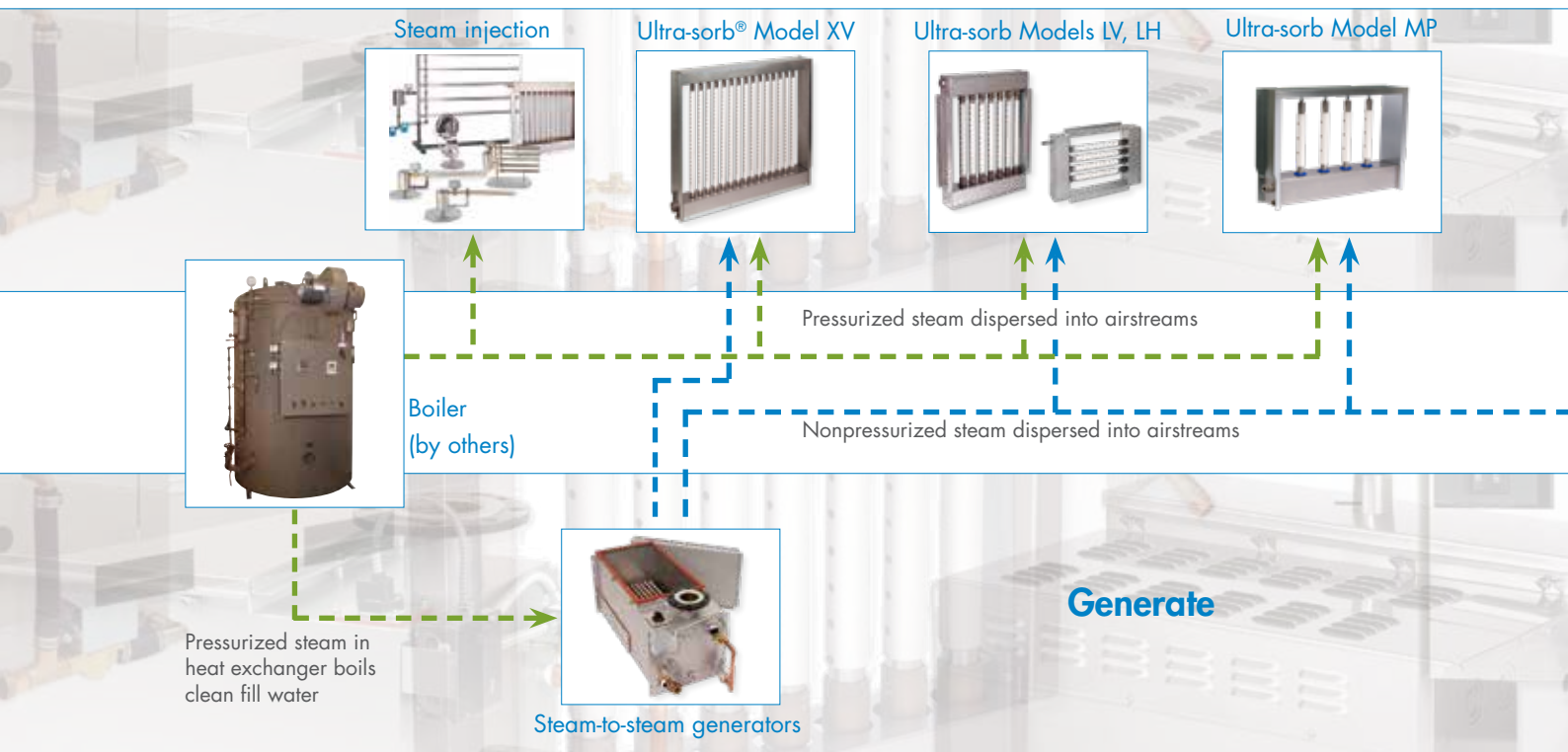
We design and manufacture humidification systems to meet your unique humidification requirements. We have earned our reputation as the humidification experts by supporting customers' unique commercial, health care, industrial, and process-critical applications for over 45 years.

## INNOVATORS

Through extensive research and development, we continue to develop industry-leading innovations that greatly improve methods for adding moisture to air with precise control.

## ON A MISSION

Our mission is to provide customers with exceptional service and superior products that condition or control air for HVAC applications.





**CREATE HEALTHY ENVIRONMENTS**

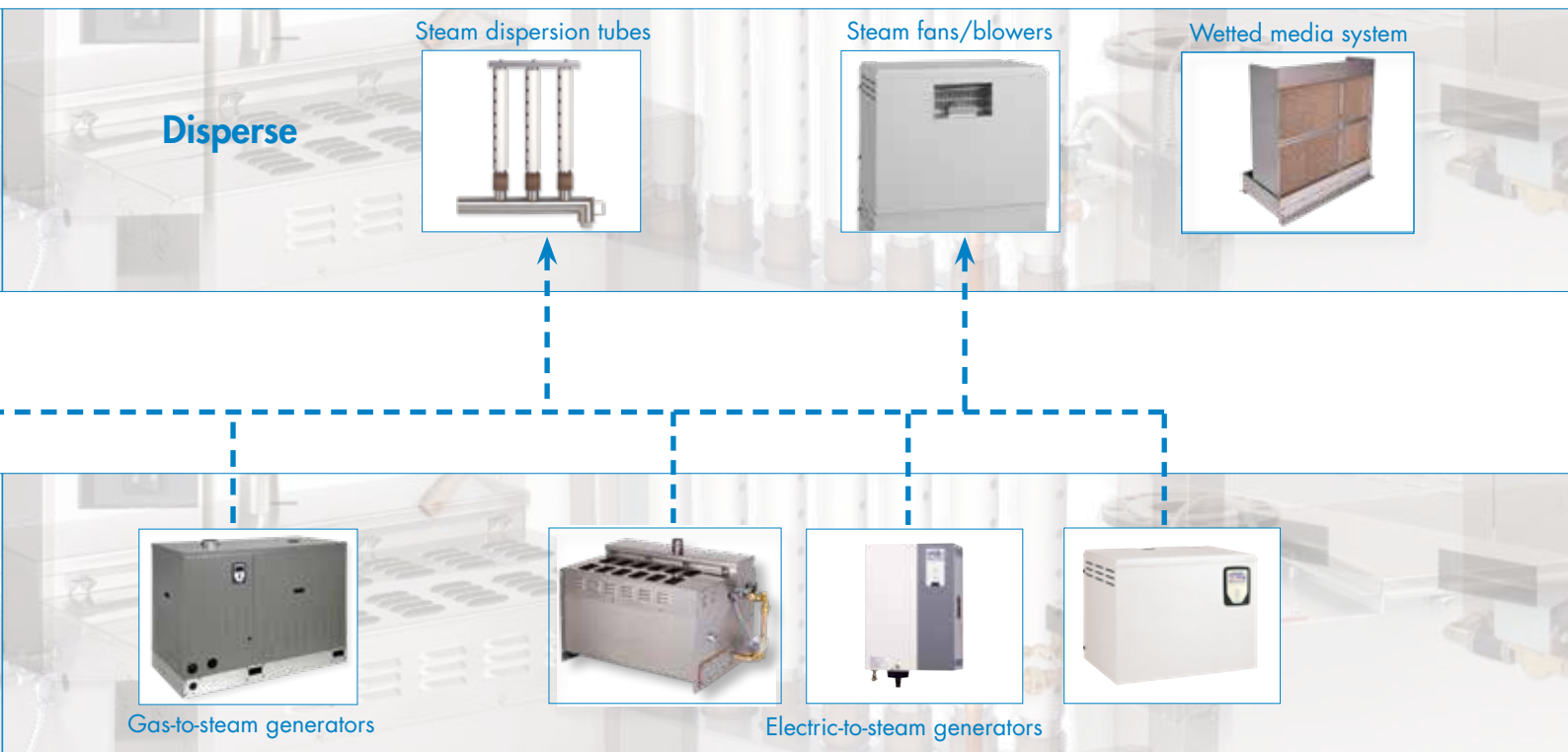
Bacteria and viruses thrive in dry air. Studies show that when room RH drops below 40 percent, respiratory illness increases. Proper humidification can significantly reduce student and employee absenteeism.

**IMPROVE PRODUCTION PROCESSES**

Controlling a building's RH significantly improves production processes. RH affects the moisture content of hygroscopic materials, such as wood, textiles, paper, leather, fibers, and foods. Such materials either absorb or release moisture to reach equilibrium, which can negatively affect production processes.

**PRESERVE MATERIALS AND ARTIFACTS**

Fluctuating RH causes material to repeatedly absorb and release moisture. These changes affect a material's weight, strength, and appearance, which can damage material and shorten its longevity.



# Steam generation

## GAS-TO-STEAM GENERATOR

### GTS® humidifier

*Lowest operating cost for a steam-generating humidifier*

The robust GTS humidifier provides a broad capacity range and is compatible with all water types. Application flexibility and full burner modulation make GTS the ideal choice for almost any application.

- Vapor-logic® controller (see Page 12)
- CO<sub>2</sub> reduction and energy savings up to 70 %
- Lowest operating cost for a steam-generating humidifier (calculate potential savings with the Energy Calc program; see "Tools" on Page 13)
- Indoor and outdoor enclosures
- Integral drain water tempering

**Capacity range:** 23–272 kg/h for each unit;  
link up to 8 units for capacity up to 2,1700 kg/h



## STEAM-TO-STEAM GENERATOR

### STS® humidifier

*Chemical-free steam*

The STS humidifier creates chemical-free humidification steam using boiler steam as its energy source. It accomplishes this by using boiler steam in its heat exchanger to vaporize clean fill water into humidification steam. It's a closed-loop system, so no boiler steam or chemicals enter the humidified space; they return to the boiler. STS is compatible with all water types.

- Vapor-logic® controller (see Page 12)
- Control to  $\pm 1\%$  RH with available options for specific applications and use of DI/RO water
- Most energy-efficient means of producing chemical-free steam with pressurized steam as the energy source
- Available Outdoor Enclosure and weather cover
- Easy retrofit for steam injection humidifiers

**Capacity range:** 9,1–726 kg/h for each unit;  
link up to 16 units for capacity up to 11612 kg/h



## ELECTRIC RESISTIVE-ELEMENT STEAM GENERATORS

### Vaporstream® humidifier

*Versatility and critical control*

From providing comfort humidity to meeting the strictest clean-room requirements, the Vaporstream electric humidifier is an industrial-grade unit designed to meet the humidification demands of any building environment. Vaporstream models and options include multiple control capabilities, a broad capacity range, and compatibility with all water types.

- Vapor-logic® controller (see Page 12)
- Control to  $\pm 1\%$  RH with available options for specific applications with use of DI/RO water and Solid State Relay Sequencer
- Zero to 100% modulating output
- Weather cover and climate-controlled outdoor enclosure options
- Numerous configurations and options available
- Disperses steam through ductwork or directly into a space



**Capacity range:** 2.6–129 kg/h for each unit; link up to 16 units for capacity up to 2068 kg/h

### Humidi-tech® humidifier

*Versatility for finished spaces*

The Humidi-tech humidifier is a compact, cabinet-style unit compatible with all water types and numerous dispersion options. Installation is a snap: Just attach the frame to a supporting structure and connect electrical and water services.

- Vapor-logic® controller (see Page 12)
- Control to  $\pm 1\%$  RH with available options for specific applications with use of DI/RO water
- Zero to 100% modulating output
- Solid-state relay (SSR) as standard
- Attractive enclosure — perfect for finished spaces
- Disperses steam through ductwork or directly into a space through matching Space Distribution Units (SDU)



**Capacity range:** 2,7–46 kg/h for each unit; link up to 16 units for capacity up to 740 kg/h

### CRUV® humidifier

*Compact and easy to service*

The compact CRUV humidifier is designed to integrate inside an existing enclosure, such as a packaged air conditioning unit, or added to an existing system, such as an environmental chamber. CRUV is self contained and compatible with all water types.

- Optional Vapor-logic® controller (see Page 12) for multiple levels of control capability
- Zero to 100% modulating output (with SSR option)
- Easy tank access without disconnecting electrical or piping lines
- Operates several seasons without cleaning



**Capacity range:** 2,7–46 kg/h



## ELECTRODE STEAM GENERATOR

### XT Series humidifier

*Easy installation and maintenance*

The XT Series electrode steam humidifier provides humidification for a wide range of buildings, including health care, commercial, industrial, and government facilities. Easy installation and minimal maintenance make XT Series one of the most affordable humidification systems to purchase and install.

- Easy to maintain — just replace the affordable steam cylinder when prompted
- Adaptable, with numerous dispersion options
- Comprehensive control with Vapor-logic® control option (see Page 11)
- Automatic drain and fill events optimize humidifier performance

**Capacity range:** 2,3–130 kg/h; stage up to four humidifiers together for maximum system capacity of 520 kg/h. 65 kg/h capacity in one steam cylinder.

### COMPREHENSIVE CONTROL WITH VAPOR-LOGIC OPTION

Vapor-logic sets the standard for controller capabilities in electrode humidifiers.



### XTR humidifier

*Humidity for health and comfort*






The XTR electrode steam humidifier provides humidification for a wide range of buildings, including residential and light commercial applications.

- Affordable to buy
- Economical and easy to operate
- Modulating or on/off
- Easy to maintain — just replace the affordable steam cylinder when prompted
- Disperse steam into ductwork or open spaces

**Capacity range:** 4.9 kg/h



### CONTROLLER INDICATORS AND FUNCTIONS

	On-off button	Light below button flashes green during power-up, solid green for On state.
	Fill indicator	Solid green when cylinder is filling with water, flashing green when pulsing with drain valve, solid red to indicate Fault mode.
	Steam indicator	Solid green for normal operation, solid yellow when water conductivity remains low for too long.
	Drain indicator	Solid green during drain cycle, flashing green when preparing to drain and when pulsing with fill valve.
	Service indicator	Flashes red when steam cylinder has reached the end of its life, solid red if in fault/shutdown mode.

## NONPRESSURIZED STEAM DISPERSION

### Rapid-sorb® dispersion tube system

*Single header with multiple tubes, short non-wetting distance*

Rapid-sorb steam dispersion tube systems are designed for applications where multiple tubes are needed to handle the load and/or when the available non-wetting distance is limited.

- Short non-wetting distance, compared to single dispersion tube
- Models available in sizes from 254 × 254 mm and up
- For horizontal or vertical airflows with header inside or outside duct
- Available with High-Efficiency Dispersion Tubes (see Page 7)

**Capacity:** Up to 955 kg/h

### Single dispersion tube

*Installation flexibility*

- Low-capacity dispersion for horizontal or vertical airflows.
- Available as a High-Efficiency Dispersion Tube

**Capacity range:** up to 44,1 kg/h

### Space distribution units and blowers

*Remote or humidifier-mounted dispersion*

Space distribution units (SDUs) and steam blowers mount on top of humidifiers or quietly disperse steam remotely within a room.

- SDUs mount on top of Humidi-tech humidifiers, or they can remotely disperse steam from Humidi-tech or Vaporstream humidifiers.
- XT steam blowers mount on top of XT Series and XTR humidifiers, or they can remotely disperse steam from the humidifier.

**SDU capacity:** Up to 46,3 kg/h

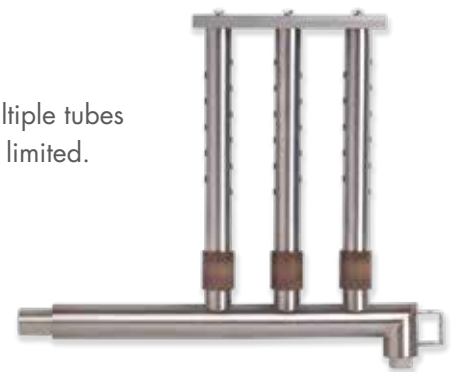
**Steam blower capacity:** Up to 22,7 kg/h

### High-Efficiency Tubes

*For new and existing Ultra-sorb and Rapid-sorb*

High-Efficiency Tubes are featured on all Ultra-sorb Model XV. Also, they are an available option for Ultra-sorb Models LV and LH, Rapid-sorb, and single dispersion tube.

- Available as a retrofit option for existing Ultra-sorb Models LV and LH and Rapid-sorb
- Highest efficiency
- Shortest non-wetting distance
- Up to 85% reduction in wasted energy, airstream heat gain, and condensate production
- Plenum approved for in-duct installation with revolutionary, patent-pending insulating material



XT steam blower mounted on an XT Series humidifier

Ultra-sorb Model LV with High-Efficiency Tubes



Rapid-sorb with High-Efficiency Tubes



# Ultra-sorb steam dispersion panel

## PRESSURIZED STEAM INJECTION OR NONPRESSURIZED STEAM DISPERSION

### Ultra-sorb steam dispersion panel

The Ultra-sorb steam dispersion panel established industry standards for meeting short non-wetting requirements.

- Guaranteed non-wetting distances — install within 150-300 mm of downstream devices without condensate worries
- Reduce wasted energy with High-Efficiency Tubes
- Lowest installation cost
- Models available from 305 × 305 mm to 3658 × 3658 mm for horizontal or vertical airflow
- Factory assembled for easy installation or shipped unassembled
- Requires less than 7 kPa of pressure to disperse steam

### Ultra-sorb Model XV: *Highest performance*

- Highest-performing steam dispersion product on the market
- Most efficient:
  - High-Efficiency Tubes
  - Lowest heat gain
  - Zero water waste — vaporizes generated condensate and returns pressurized condensate
- For pressurized steam applications, 35 kPa minimum
- Chemical-free boiler steam humidification when used with our STS steam-to-steam humidifier

### Capacity:

**Pressurized steam:** Up to 898 kg/h

**STS humidifier:** Up to 204 kg/h per panel

### Ultra-sorb Models LV & LH: *Most versatile*

- Optional High-Efficiency Tubes
- Easy installation
- For pressurized or nonpressurized steam applications

### Capacity:

**Pressurized steam:** Up to 1815 kg/h

**Nonpressurized steam:** Up to 840 kg/h

### Ultra-sorb Model MP: *Lowest total installed cost*

- **Same side steam inlet and drain** for reduced piping
- **In-frame drain piping** maximizes available face dimensions and minimizes blank-off requirements.
- **Integral steam header** allows clear space on exterior wall of AHUs or ducts
- **Capacity**
  - Pressurized steam:** Up to 2720 lbs/hr (1235 kg/h)
  - Nonpressurized steam:** Up to 700 lbs/hr (318 kg/h)
- **Options**
  - High-Efficiency Insulated Tubes
  - 304 or 316 stainless steel frame



Ultra-sorb Model XV



Model LV:  
Vertical tubes



Ultra-sorb Model LH



Ultra-sorb Model MP  
Lowest total installed cost



## STEAM INJECTION FEATURES

DriSteam's Steam Injection humidifiers are available in a wide variety of models and adaptable to numerous applications.

- Steam jacketed dispersion tubes — eliminate condensation and dripping
- Stainless steel construction — instantaneous heat-up, minimal condensation, and no cold start-up spitting
- Lightweight construction — no special supports or hangers required

### Multiple-tube humidifier

*Fits any need, for large capacity*

The Multiple-tube humidifier is designed for large ducts and air handlers. It achieves short to moderate non-wetting distances and is field piped and field assembled.

The Maxi-bank™ option is pre-assembled and includes the steam header and interconnecting piping.

**Steam pressure range:** 14–345 kPa

**Capacity range:** 2,3–1809 kg/h

### Mini-bank® humidifier

*Pre-assembled for small ducts*

The Mini-bank humidifier is designed for small ducts and short non-wetting distances. With a pre-engineered and pre-assembled header/tube assembly, it is ready for mounting and hookup.

**Steam pressure range:** 14–103 kPa

**Capacity range:** 0,7–38 kg/h

### Single-tube humidifier

*Suitable for—but not limited to—small-capacity systems*

The Single-tube humidifier features a wide range of dispersion tube lengths and is suitable for moderate to long non-wetting distances. The separator/tube assembly is pre-assembled.

**Steam pressure range:** 14–345 kPa

**Capacity range:** 0,7–238 kg/h

### Area-type™ humidifier

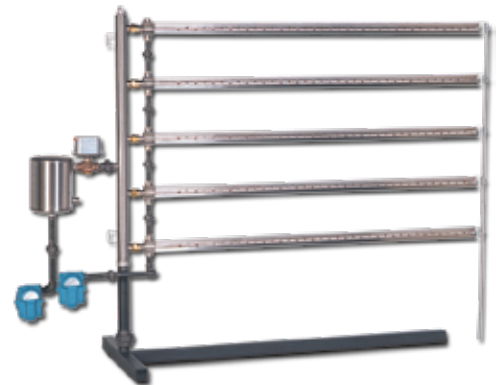
*For rooms without ducts*

The Area-type humidifier is designed for open spaces such as warehouses and manufacturing spaces that do not have a duct system. Steam discharged from the humidifier is quietly dispersed by a fan without discharging water droplets.

**Steam pressure range:** 14–103 kPa

**Capacity range:** 0,8–130 kg/h

All Steam Injection humidifiers shown here, except Area-type, are available with options for applications requiring all stainless steel construction.



# Evaporative cooling and humidification

## ENERGY EFFICIENT

Evaporative cooling and humidification systems draw heat from air to evaporate unheated water introduced by either high-pressure nozzles or wetted media. 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. 1 Liter evaporated water = 2300 kJ cooling.

## LOW MAINTENANCE

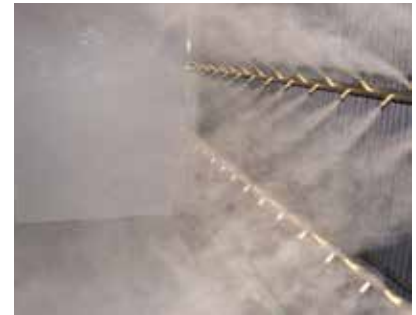
High-Pressure and Wetted Media Systems are very low maintenance systems.

The High-Pressure System's stainless-steel pump is designed to run for 8000 hours before its first maintenance check, and the stainless-steel dispersion nozzles and valves are maintenance free.

High-Pressure System water treatment options available from DriSteem provide ultra-pure water that leaves no white dust. The reverse osmosis (RO) system automatically backflushes for extended membrane life.

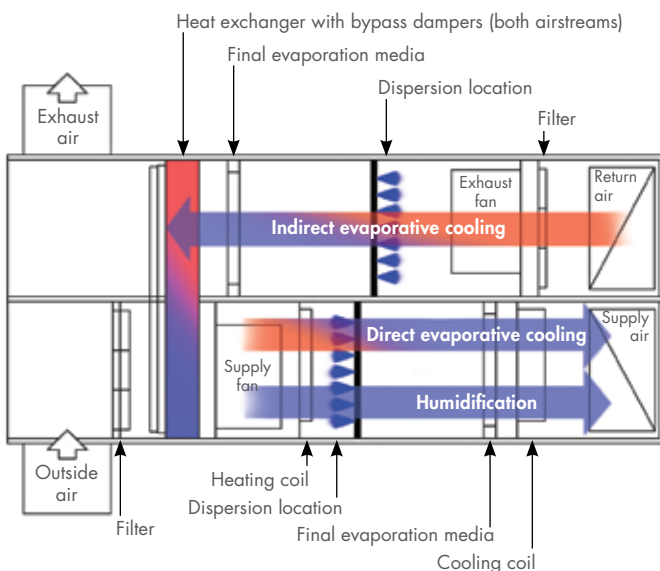
Wetted Media Systems recycle water, after it flows through the media, with robust centrifugal pumps. The Vapor-logic controller manages the concentration of dissolved solids in recirculated supply water to minimize scaling and lengthen media life. When required, new media cassettes easily drop into place.

## HIGH-PRESSURE SYSTEM



*The DriSteem High-Pressure System delivers evaporative cooling and humidification to multiple zones in air handlers, ducts, and open spaces.*

## 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. A High-Pressure System is shown here. Direct and indirect evaporative cooling can function similarly when using a Wetted Media System.*

## WETTED MEDIA SYSTEM



*The DriSteem Wetted Media System 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.*

Feature	High-Pressure System	Wetted Media System
<b>Application versatility</b>	Suitable for any application; commonly used in data centers, industrial manufacturing, printing facilities, and applications using air-side economizers	
<b>Advanced technology</b>	Micro-turbines in precision-machined atomizing nozzles fragment water droplets into ultra-fine particles (90% are ten microns or less)	Controller anticipates cooling requirements, maximizes system on-time, monitors media performance and prompts for replacement, and provides temperature control
	Water delivered to nozzles at up to 80 bar. Requires no pressurized air	Water concentration management maximizes media life and water utilization
	Integral check valve in nozzle ensures no dripping when system shuts off	Multiple compact recirculation pumps provide redundancy with low system energy usage
	Conform hygiene norm VDI6022	
<b>Cooling effect saves energy</b>	Every kg water absorbed in air removes approximately 2300 kJ of heat	
	Significant energy savings when cooling and humidifying simultaneously	
<b>Low maintenance</b>	Stainless-steel pump is cooled by purified supply water; 8000 hours before maintenance check	Uses potable water, eliminating water treatment maintenance
	Stainless-steel nozzles and manifolds require no maintenance	Water concentration management minimizes media scaling, extending media life
	Thorough water filtration protects stainless-steel components from corrosion and undue wear	Easy-to-replace media cassettes drop into frames in seconds
		Powerful pumps keep solids in the holding tank in motion to be easily drained away
<b>Comprehensive system control with Vapor-logic</b>		Accurate, responsive RH 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
<b>Multiple zone control capability</b>	Individual zone monitoring and modulated staging valves provide tight control in all zones with optimized absorption and minimal water waste	Not available
	One system cools and humidifies multiple zones with separate demands	
<b>Versatile</b>	Cools and humidifies in air handlers, ducts, and open spaces	Cools and humidifies in air handlers and ducts
	Nozzle staging and pulsed modulation allow high turndown of system output	Media staging and predictive operation allow high turndown of system output; stages can remain active while other stages are in dry-out mode
	Capacities up to 680 kg/h, multiple systems can be combined for larger capacities	Media sizes from 0.4 m <sup>2</sup> to 9.3 m <sup>2</sup> ; multiple systems can be combined for larger capacities
	Flexibility to accommodate the most challenging applications; extensive network of DriSteem representatives available to assist with system layout and design	
<b>Complete water treatment solution</b>	Water treatment options available from DriSteem include RO hyperfiltration, particulate filtering, dechlorination, and duplex water softening	Not required
	Automatic back-flush technology ensures long RO membrane life	
	Ultra-pure water eliminates white dust fallout and bacteria/virus proliferation that can occur when using potable water	

# Control

## ACCURATE, RESPONSIVE CONTROL

Vapor-logic is the control platform for all DriSteem nonpressurized steam generation humidifiers and DriSteem's High-Pressure System. Vapor-logic provides accurate, responsive RH control, and PID control tunes the system for maximum performance.

Modbus®, BACnet®, or LonTalk® allow interoperability with multiple building automation systems. Modbus is standard, and BACnet or LonTalk are available options.

Web interface provides the capability to set up, view, and adjust humidifier functions via Ethernet, either directly or remotely through a network.

Contactor wear leveling distributes cycles among multiple contactors for equal wear and longer contactor life in Vaporstream humidifiers.

Cycle counter triggers a message when it's time to replace contactors in electric humidifiers.



Use the Vapor-logic keypad or the Web interface to control your humidification system.

USB port allows easy firmware updates, and data backup and restore capability.

Real-time clock allows time-stamped alarm and message tracking, and accurate drain and flush scheduling.

Auxiliary temperature sensor/transmitter allows temperature compensation control to prevent condensation on cold surfaces, or air temperature monitoring, such as in a duct.

Programmable outputs allow remote signaling and device activation.

Multiple-humidifier control allows staged control of up to 16 humidifiers with one controller.

Data logs can be downloaded to a PC for viewing and analysis.

Enhanced diagnostics and data collection.



USB port for firmware updates, downloading data logs, and data back up and restore.



## OUTDOOR ENCLOSURES AND WEATHER COVERS

Heated/ventilated outdoor enclosures for evaporative humidifiers ship to the job site completely assembled, so installation is a snap. Third-party tests ensure that outdoor enclosures provide reliable operation under extreme conditions. The GTS outdoor enclosure is CE-certified for outdoor operation, and the STS and Vaporstream outdoor enclosures are ETL approved for outdoor operations. Weather covers for Vaporstream and STS humidifiers are fully assembled at the factory to protect against wind, sun, and rain.



**Weather covers**  
Available for Vaporstream and STS humidifiers



**Heated/ventilated outdoor enclosures**  
Available for all evaporative humidifiers

## DRANE-KOOLER

The Drane-kooler mixes cold water with hot discharge water to reduce the water temperature before it enters the drain system. This complies with code requirements and prevents damage to PVC drain piping.

## EXTENDED WARRANTY PROGRAM

An extended warranty provides coverage for one or two years beyond DriSteem's standard. Two-year Limited Warranty to eliminate unforeseen expenses and lay the groundwork for a manageable budget.

## SERVICE KITS

Service Kits combine common replacement parts for servicing DriSteem humidifiers. Each Service Kit is priced lower than purchasing the parts individually.



Tools	
<b>DRICALC</b> Sizing and selection software	DriSteem's DriCalc software will size loads, select equipment, write specifications, generate as-configured installation guides, and create equipment schedules.  Click <b>DriCalc on</b> our website to request a free copy of DriCalc.
<b>LOADCALC</b> Humidification load calculator	LoadCalc provides a humidification load calculation based on entering air, outside air, and desired room conditions.  Click <b>LoadCalc program</b> on the Tools tab of our website to launch the tool.
<b>ENERGYCALC</b> Energy savings calculator	In many locations, the savings from switching from existing electric humidifiers to new gas humidifiers are so significant the energy savings can offset replacement equipment and installation costs.  Go to <b><a href="http://www.humiditycalctool.com/calculator">http://www.humiditycalctool.com/calculator</a></b>
<b>WWW.DRISTEEM.COM</b> Our website	Visit our website to find a DriSteem distributor, get the most current product information, learn more about humidification, calculate load online, calculate energy savings online, and watch product videos.

# Overview: All products

DriSteem steam generator comparison								
	GTS	STS	Vaporstream	Vapormist	CRUV	Low-maintenance	XT Series	XTR
<b>Energy source</b>								
Electric, resistive (heating element)			X	X	X	X		
Electric, conductive (electrode)							X	X
Natural gas or propane	X							
Boiler steam		X						
<b>Steam capacity, kg/hr</b>								
Maximum for one humidifier	272	726	129	46	46	46	130	5.1
Minimum	34.0	9.1	2.6	2.7	2.7	2.7	2	2.5
Maximum with multi-tank control	4,354	11,612	2,068	740			520*	
<b>Application size based on steam capacity**</b>								
Square footage (m <sup>2</sup> ) capability of 1 humidifier	9,290	24,712	4,412	1,579	1,579	1,579	4,394	575
<b>Installation options</b>								
Indoor	X	X	X	X		X	X	X
Outdoor (in optional enclosure)	X	X	X					
Finished space				X		X	X	X
In packaged A/C unit					X			
<b>Water type</b>								
Tap	X	X	X	X	X	X***	X	X
Softened	X	X	X	X	X	X	X	X
Reverse osmosis	X	X	X	X	X			
Deionized	X	X	X	X	X			
<b>Controller</b>								
Vapor-logic controller	X	X	X	X	Optional	X	X	
Standard controller								X
Microprocessor LW417 control					X			
Connectivity: BACnet, Modbus, LonTalk	X	X	X	X	Optional	X	Optional	
<b>Control capability</b>								
With modulating demand signal	± 3%	± 3%	± 1%	± 3%	± 3%	± 3%	± 3%	± 3%
With on-off demand signal					± 3%		± 5%	± 5%
With available options for specific applications and with use of DI/RO water		± 1%	± 1%	± 1%				
<b>Dispersion options</b>								
Ultra-sorb Model XV		X						
Ultra-sorb Models LV, LH, and MP	X	X	X	X	X	X	X	
Rapid-sorb	X	X	X	X	X	X	X	
Single dispersion tube	X	X	X	X	X	X	X	
XTR dispersion tube								X
Space distribution unit, external absorption (SDU-E)			X	X		X		
Space distribution unit, internal absorption (SDU-I)			X	X		X		
Top- or remote-mounted XT steam blower							X	
Top- or remote-mounted XTR steam blower								X
XTR fan pack								X
Area-type fan (mounted on steam generator)	X		X					

DriSteem steam generator comparison (continued)								
	GTS	STS	Vaporstream	Vapormist	CRUV	Low-maintenance	XT Series	XTR
<b>Water treatment option</b>								
Reverse-osmosis filtration	X	X	X	X	X	Included		
Single/duplex softening	X	X	X	X	X	X		
Dechlorination	X	X	X	X	X	Included		
<b>Water tempering</b>								
Drane-kooler option		X	X	X	X	X		
Integral water tempering	X						X	X
<b>Seismic certification option</b>								
		X	X	X				
<p>* Four staged XT humidifiers, not via multi-tank control</p> <p>** 20% outdoor air at 3 lbs/hr/100 cfm (231 kg/h per m<sup>3</sup>/h), building need of 40% RH @ 72 °F (22.2 °C), typical commercial building load of 1 cfm/ft<sup>2</sup> (18 m<sup>3</sup>/h per m<sup>2</sup>)</p> <p>*** Softened source water is preferred for best product performance. Only consider tap water that is ≤10 grains/gal hardness and is from treated water municipal supply. Although tank maintenance is significantly enhanced with the Low-maintenance humidifier, if hard water is used, tank maintenance may be necessary.</p>								

DriSteem atomization, steam injection, and dispersion product comparison						
Vapor delivery type	DriSteem product	Capacity	Steam pressure at entry dispersion , kPa			
		kg/hr	<3.4	14-103	14-345	34-345
Evaporativ cooling/ humidification	Wetted media system	*				
	Rapid-sorb dispersion tube system	955	X			
Non-pressurized steam dispersion from DriSteem steam generator	Single disp. tube DN40 (with drain and insulated)	29,5	X			
	Single disp. tube DN50 (with drain and insulated)	44,1	X			
	SDU-I	13,6	X			
	SDU-E	46,3	X			
	SDU-003E (XTR steam blower)	3,5	X			
	SDU-003F (XTR fan pack)	3,5	X			
	SDU-006E (XT steam blower)	9,1	X			
	SDU-017E (XT steam blower)	22,7	X			
	Ultra-sorb Model XV (with STS humidifier)	204	X			
	Ultra-sorb Model LV and LH	840	X			
	Ultra-sorb Model MP	840	X			
	Area-type fan	130	X			
Steam injection from boiler	Multiple-tube humidifier	1809			X	
	Mini-bank humidifier	38		X		
	Single-tube humidifier	238			X	
	Area-type humidifier	130		X		
	Ultra-sorb Model LV and LH	1815			X	
	Ultra-sorb Model MP	1815			X	
	Ultra-sorb Model XV	899				X
<p>* Up to 95% cooling efficiency. See the Wetted Media System cooling efficiency and pressure drop chart in our Evaporative Cooling and Humidification catalog.</p>						

**DRI-STEEM Corporation**

A subsidiary of Research Products Corporation  
DriSteem U.S. Headquarters is an ISO  
9001:2015 certified company

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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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