

ELECTRODE STEAM: DRISTEEM MODEL XTP HUMIDIFIER

The XT series electrode steam humidifier series from DriSteem provides humidification for a wide range of applications and building types, including healthcare, museums, art galleries, commercial, industrial, and government facilities etc. Easy installation and minimal maintenance make the XT series one of the most affordable, high quality humidification systems to purchase and install. DriSteem XT series humidifiers are ideal for finished spaces and applications where space is limited. The XTP model produces atmospheric steam that can utilize a steam blower to disperse steam into open spaces (SDU) or use dispersion tubes/dispersion panels for in-duct/AHU steam distribution.

Technical Characteristics

- 2 - 113 kg/h capacity
- Replaceable steam cylinder with electrodes
- Operates with potable water
 - 350 - 1250 μ S/cm conductivity range
 - Low conductivity cylinders available: 125 - 350mS/cm
- Wide range of standard voltages
 - Including 230V- 1 phase, 400V- 3 phase, 50-60hz
 - 24VAC internal power circuit
- Painted galvanized steel enclosure (IP20)
- Enclosures available for virtually any environment. Outdoor, indoor, or factory-HVAC installed.
- Vapor-logic® controller with LCD keypad



Main Features

- Suitable for most comfort humidification requirements (+/- 10% of output)
- Mini-drain feature provides continuous steam production and improves low conductivity as well as providing extended cylinder life
- Hygiene: Adjustable End-of-Season drain
 - An electric drain valve is cabinet-mounted to allow cylinder to automatically drain periodically and at the end of the humidification season. The cylinder shall automatically and completely drain if it doesn't receive a humidity demand signal for a user-programmable number of hours (default 72 hours) and starts automatically after receiving a demand signal again (meets EN1717 requirements).
- Integrated drain water tempering: When drain water tempering is selected, drain water is automatically cooled down to below 60°C before entering the drain, allowing the use of PVC piping.
- Disposable plastic steam cylinders with integral high-water sensor to prevent overfilling.
- The cylinder has a large opening (32 mm) with removable strainer. This strainer reduces the number of blockages at the cylinder outlet. By removing the strainer, a simple rinsing of the cylinder is possible.
- Semi-rigid steam hose connection, hard pipe adapter option
- Enclosure is designed and secured to prevent accidental contact with electrical components.
- Steam cylinder and electrical compartments have removable doors

Vapor-logic® Controller Details

The Vapor-logic controller with touchscreen display is standard on each XTP electrode humidifier and provides accurate, responsive RH control, while the PID control tunes the system for maximum performance.

- Operation
 - BACnet, LonTalk, or Modbus allow interoperability with multiple building automation systems.
 - All relevant control signal connections (mA and VDC) of external humidity controllers are possible, 0 (2)- 10 V or 0 (4)- 20 mA)
 - Web interface provides the capability to set up, view, and adjust system functions via Ethernet, either directly or remotely through a network.
 - Real-time clock allows time-stamped alarm and message tracking, and accurate drain and flush scheduling.
 - Programmable outputs allow remote signaling and device activation.
 - Possibility for three (3) external limit controls: air flow proving switch, high limit humidity device (ON/OFF humidistat or modulating high limit transmitter), and master enable/disable
 - Contactor wear leveling distributes cycles among multiple contactors for equal wear and longer contactor life in the XTP humidifier.
 - Auxiliary temperature sensor/transmitter allows temperature compensation control to prevent window condensation, or air temperature monitoring, such as in a duct.
- Troubleshooting and Maintenance
 - USB port allows easy firmware updates, and data backup and restore capability.
 - All software updates can be downloaded from DriSteem website (www.dristeem.com), free of charge
 - Data logs (from half week up to 15 weeks) can be downloaded to a PC for viewing and analyzing operating parameters, energy use, messages, alarms.
 - Cycle counter triggers a message when it's time to replace contactors
 - Test outputs function to verify component operation
 - Test humidifier function using simulated demand to validate performance
- Touchscreen Interface
 - Large, bright, touchscreen display provides easy, accurate, and fast navigation.
 - The Home Screen includes color-coded mode indication, animated graphics, and quick navigation to control functions
 - Prioritized color-coded alerts to reduce down-time and technical calls
 - Access Help from every screen
 - Protocols, messages, and alarms presented on the illuminated display



Technical Characteristics

Type (-)	Steam Cap (kg/h)	Max. Amps (A)	Voltage (V)	Phase (Ph)	Steam Outlet (DN)	#	Dimensions HxWxD (mm)	Transp. Weight (k)
XTP002	2	9.2	230**	1	DN22/40*	1	523x370x221	17
XTP003	5	18.3	230	1	DN22/40*	1	523x370x221	17
XTP003	5	10.5	400***	3	DN22/40*	1	523x370x221	17
XTP006	9	12.2	400	3	DN22/40*	1	523x370x221	17
XTP010	14	18.3	400	3	DN40	1	612x450x300	23
XTP017	22	30.4	400	3	DN40	1	612x450x300	23
XTP025	34	45.6	400	3	DN40	1	650x504x340	29
XTP033	45	60.8	400	3	DN40	2	650x504x340	29
XTP042	57	76.1	400	3	DN40	2	650x504x340	29
XTP050	68	91.2	400	3	DN40	2	650x1005x340	63
XTP050*	68	2 x 45.6	400	3	DN40	2	650x1005x340	63
XTP067	91	121.7	400	3	DN40	4	650x1005x340	63
XTP067**	91	2 x 60.8	400	3	DN40	4	650x1005x340	63
XTP083	113	152.1	400	3	DN40	4	650x1005x340	63
XTP083**	113	2 x 76.1	400	3	DN40	4	650x1005x340	63

* Dual canister unit with single-point power connection

** Dual canister unit with dual-point power connection

For units with an outdoor enclosure:

- Add 5 amps to "Maximum Line Current" to accommodate enclosure heater
- Adjust fusing size accordingly

Approvals

- CE certification, EN 1717
- XTP humidifier available with ETL (UL/CSA), seismic certification and 480/600V models

Options

- LonTalk interface remote control
- Stainless steel enclosure
- Low conductivity cylinder 125µS/cm- 350µS/cm
- Outdoor units available (add link to outdoor unit)

Accessories

- Replacement cylinder kits
- High limit humidistat
- Airflow proving switch
- RH transmitter

Product Resources

- XT series electrode humidifier product resources:
www.dristeem.com/support-and-literature/literature-product-resources/by-product/xt-series



EUROPEAN PRODUCT SPECIFICATIONS

Electrode Steam: XTP Humidifier



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Form No. EPS-XTP-EE-0426