

STEAM INJECTION

Humidifiers

- *For use with steam boilers*
- *Suitable for a wide range of applications*

Humidify with pressurized boiler steam



ADDED FLEXIBILITY WITH OPTIONAL STAINLESS STEEL COMPONENTS

Single-tube, Mini-bank, and Multiple-tube humidifiers are available with options for applications requiring all stainless steel construction.

- *Stainless steel components reduce corrosion potential and are compatible with steam derived from RO/DI water.*
- *Modulating electric and pneumatic stainless steel valves are manufactured to precise tolerances, with some configurations capable of achieving the highest turndown ratio in the industry.*

SUITABLE FOR A WIDE RANGE OF APPLICATIONS

Steam Injection humidifiers from driSteem® use steam from an external source, such as an in-house boiler or a district steam system. driSteem's Steam Injection humidifiers are adaptable to virtually any size application, and a wide variety of models accommodate a broad range of steam absorption requirements.

STEAM JACKETED DISPERSION TUBE MODELS FOR DUCTS AND AIR HANDLERS

Single-tube, Mini-bank®, and Multiple-tube humidifiers are designed for ducts and air handlers, and capable of a wide range of guaranteed non-wetting distances.

PROVEN PERFORMANCE

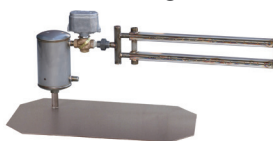
- 304 stainless steel construction allows instantaneous heat-up, which minimizes condensation and eliminates spits at cold start-up.
- 304 stainless steel separator removes entrained condensate with proven centrifugal design.
- Lightweight construction requires no special supports or hangers.
- Bronze modulating steam control valves:
 - Rangeability between 13:1 and 205:1 provides enhanced controllability at minimum controllable flow.
 - Wide Cv (Kv) selection permits close matching to humidifier output capacity for precise control and no valve hunting.
 - Valves are independent from separators for easy removal.
 - Pressure drop allowance of 345 kPa provides control reliability at high entering steam pressure and low dispersion-side pressure.

APPLICATION FLEXIBILITY

- Wide range of models and non-wetting distances meet virtually any humidification need.
- Numerous valve Cv (Kv) choices permit close matching to actual job requirements.
- Steam is dispersed through vertical or horizontal ducts or directly into a space.

MINI-BANK HUMIDIFIER

- Suitable for small-capacity systems, 0.7–38 kg/h
- Short to moderate non-wetting distance
- Sized for small ducts
- Pre-engineered and pre-assembled header/tube assembly, ready for mounting and hookup



SINGLE-TUBE HUMIDIFIER

- Suitable for small- to medium-capacity systems, 0.7–238 kg/h
- Moderate to long non-wetting distance
- Pre-assembled separator/tube assembly



MULTIPLE-TUBE HUMIDIFIER

- Suitable for small- to large-capacity systems, 2.3–1809 kg/h
- Sizes to fit small ducts and large air handlers
- Short to moderate non-wetting distance
- Field assembled (with interconnecting piping and header supplied by contractor)
- Maxi-bank™ option:
 - Pre-assembled, except when either dimension is 2490 mm or more
 - Includes 304 stainless steel header, with option for 316 stainless steel
 - Includes black iron piping, with options for 304 or 316 stainless steel



AREA-TYPE HUMIDIFIER

- Suitable for medium-capacity systems, 0.8–130 kg/h
- Used in open spaces
- Application-dependent non-wetting distances



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

Table 3-1:
Mini-bank humidifier specifications

Face height mm	Required number of tubes	Face width
150–230	2	150 mm to 1220 mm in 13-mm increments For face dimensions larger than 1220 mm x 610 mm, use Multiple-tube humidifier.
250–305	3	
330–380	4	
405–460	5	
480–535	6	
560–610	7	

Table 3-2:
Single/multiple-tube humidifier standard dispersion tube face lengths

Tube model	Tube capacities*		Face lengths
	Single-tube	Multiple-tube	
60	Up to 81 kg/h	Up to 113 kg/h	150 mm to 3658 mm in 13-mm increments
70	Up to 113 kg/h		457 mm to 4877 mm in 13-mm increments
80	Up to 238 kg/h	Up to 238 kg/h	610 mm to 4877 mm in 13-mm increments

* Depending on length of tube

DRI-STEEM Corporation

a subsidiary of Research Products Corporation
DriSteem U.S. operations are ISO 9001:2015
certified

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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 the Steam Injection humidifiers. DriSteem
leads the industry with a Two-year Limited Warranty and optional
extended warranty.

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