



LS
SERIES



Pressure Steam Humidifiers



Humidification and Evaporative Cooling

 **nortec**



hospitals
educational facilities
government buildings
institutional buildings
printing plants
museums and galleries
commercial offices

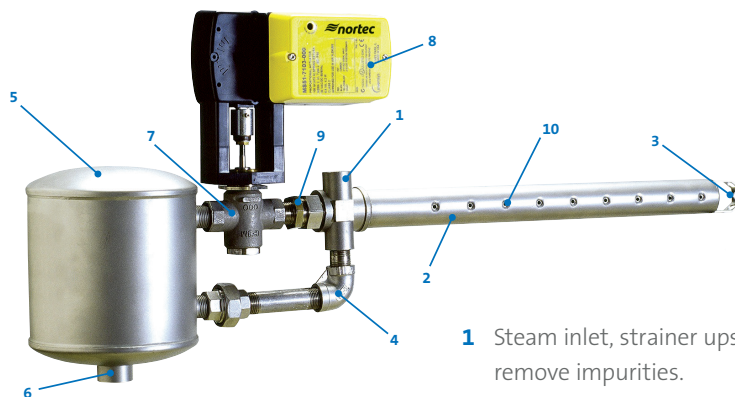
Humidifiers designed to deliver reliable humidity from facility steam boilers.

People spend 90% of their lives indoors, therefore the importance of correct temperature and humidity levels are critical to personal health and comfort. Too much humidity can be as destructive as too little.

Manufacturing and industrial processes are also directly affected by the indoor environment. Like people, machines work better in favorable surroundings. All equipment and processes respond in various ways to temperature and humidity fluctuations. For maximum performance, reliable temperature and humidity are essential.

In hospitals, universities, museums, galleries, and other facilities, boiler steam humidification is a tried and true way to achieve reliable humidity control.

The Nortec LS-Series provides accurate, cost effective humidification directly utilizing steam from your central facility boiler. Constructed from quality 304 stainless steel, the LS-Series humidifiers are designed for long operating life with minimal maintenance.



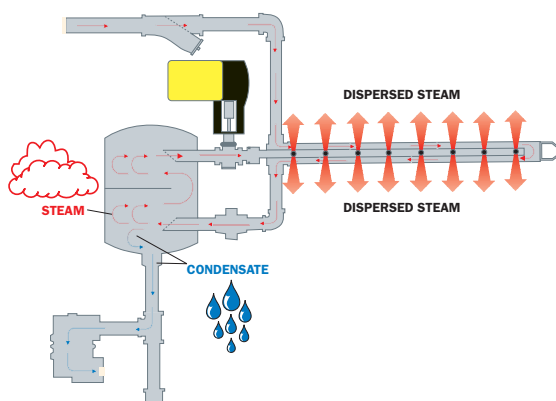
- 1** Steam inlet, strainer upstream to remove impurities.
- 2** Steam jacketed dispersion tube.
- 3** Tube support bracket, ensures proper unit installation.
- 4** Interconnecting pipes between dispersion tube and separator.

Technology

The Nortec **LS-Series** provides precise humidity control using high quality bronze and stainless globe valves that are available in a variety of CV ranges. Paired with a spring return electric or pneumatic actuators, the LS-Series offers flexibility for many applications.

Steam is distributed through either jacketed tube or short absorption manifolds that are available in a variety of dimensions to suit many applications. Jacketed tube distributors offer exceptional value, and feature a steam heating

Short absorption manifolds provide rapid steam absorption through the use of an array of steam distributor tubes attached to a central header. Available insulation ensures high efficiencies in addition to excellent performance.



- Available single or multiple tube configurations (AS-Series)
- Available with short absorption distributors (AM-Series)
- Pressure ranges from 2-50 PSIG (14-345 kPa)
- High capacity system up to 3200 lbs/hr (1452 kg/hr)
- Economical and cost effective system to meet high humidity requirements
- Delivers precise humidity control
- Steam jacketed dispersion tubes to prevent “spitting”
- Available tube insulation for increased efficiency
- Suitable for boilers operating on DI, RO or potable water
- Available pneumatic or electric controls

- 5 Steam separator ensures only condensate-free steam is discharged into the air stream.
- 6 Condensate outlet to steam trap for recirculation to boiler for energy efficient operation.
- 7 Steam control valve meters steam entering dispersion tube.
- 8 Electric on/off and electric modulating actuators standard. Pneumatic valve actuator optional.
- 9 Tube adaptor connecting valve to dispersion tube. Factory installed silencers are available.
- 10 Steam outlet orifices sized for exact humidity output.

SPECIFICATION	MODEL 200 MODEL LS1	MODEL 300 MODEL LS2	MODEL 450 MODEL LS3	MODEL 600 MODEL LS3	MODEL 800 MODEL LS3	AM AM-MINI
Pressure range - psig (kPa)	2-50 (14-345)	2-50 (14-345)	2-50 (14-345)	2-50 (14-345)	2-50 (14-345)	2-50 (14-345)
Max. capacity single tube - lbs/hr (kg/hr)	284 (129)	571 (259)	916 (417)	1258 (572)	N/A	N/A
Max. capacity multi-tube - lbs/hr (kg/hr)	374 (170)	653 (297)	1030 (468)	1664 (757)	3209 (1456)	3200 (1452)
Separator physical data - Height x Diameter	7.7" x 6" 195mm x 152mm	8.8" x 6" 223mm x 152mm	10.5" x 6" 268mm x 152mm	11.2" x 9" 284mm x 229mm	12.6" x 9" 322mm x 229mm	Custom
Standard actuator	Electric Modulating 0-10 VDC, 24 VAC					
Standard steam trap	Float & Thermostatic					
Separator and dispersion tube material	Stainless Steel 304					

Options

Pneumatic actuator	yes	yes	yes	yes	yes	yes
Electric on/off actuator	yes	yes	yes	yes	yes	yes
Tube insulation	yes	yes	yes	yes	yes	yes
DI water installation	yes	yes	no	no	no	yes

Options



AS-Series
AM-Series

LS-Series mounted with
AM-Series manifold for
short absorption distance
applications



As a leading manufacturer of commercial/industrial humidification systems for more than 40 years, Nortec has the technology and application expertise to meet the needs of any application.

Contact us today and ensure you have the best humidification solution for your application.

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