

# GTS<sup>®</sup> HUMIDIFIER

*Gas-to-Steam Humidifier*



## *LX Series:*

- *Condensing design provides for highest efficiency and PVC venting*
- *Ultra-low NOx and high efficiency in a single design*
- *Modulating output with minimum 5:1 turndown for accurate humidity control*
- *Universal water control for use with any water type*
- *Outdoor and indoor models for application flexibility*

# LOWEST INSTALLATION AND OPERATING COSTS



## GTS GAS-TO-STEAM HUMIDIFIER

Gas-to-steam humidifiers boil water using a burner and heat exchanger submerged in a stainless steel cleanable tank. The GTS humidifiers can operate using potable, softened, reverse-osmosis, or deionized water.

The GTS LX is a Category IV (condensing, positive pressure) high-efficiency gas appliance, and it is certified Low NOx by the South Coast Air Quality Management District.

## GTS HUMIDIFIERS

The industry's first and best-selling gas-to-steam GTS® humidifier continues to be your best choice for reducing energy costs.

The condensing design of the GTS humidifier LX series results in the highest efficiency gas-fired humidifier available. Compared to non-condensing humidifiers, installation costs are reduced through use of PVC, CPVC, or polypropylene venting.

To calculate how much you can save by switching from an electric humidifier to a gas humidifier, use our Energy Savings Calculator at [www.drirsteem.com](http://www.drirsteem.com).

## WHY CHOOSE THE GAS-TO-STEAM HUMIDIFIER LX SERIES

- **Ten models** to fit application exact demand, between 50 – 600 lbs/hr (23 – 272 kg/h).
- **Ultra-low NOx** and **high efficiency** in one product.
- Modulating output with minimum **5:1 turndown** for accurate humidity control.
- DriSteem's smart drain technology adjusts drain intervals automatically based on **water quality**.
- **Space saving design**, for ease of installation and placement flexibility.
- **Enclosures for virtually any environment**. Outdoor or indoor, or factory-HVAC installed.
- **Accurate, responsive**, adjustable RH control due to full burner modulation and PID control.
- Easy firmware updates through the USB port on the **Vapor-logic control board**.
- **Extended capacity range** through linkage of up to 8 units under one controller.
- **Automatically cools discharged hot water** to 140°F (60 °C) to meet governing code safety requirements.
- **Full service access**. Lift-off panels provide easy access to all connection points.
- DriSteem's high-efficiency GTS humidifier incorporates **universal water control** for use with any water type.

## ACCURATE, RESPONSIVE CONTROL

### TOUCHSCREEN CONTROL OR REMOTE WEB ACCESS

DriSteem's Vapor-logic® controller includes as standard, operation through an intuitive touchscreen, or through a connected Web interface. This provides the capability to securely set up, view, or adjust humidifier system functions from virtually anywhere — and at any time.

### CONNECT WITH BACNET®, MODBUS®, OR LONTALK®

GTS humidifiers are fully interoperable with building automation systems using BACnet, Modbus, or optional LonTalk systems.

## PROVEN PERFORMANCE

- Thermal (combustion) efficiency:  
94% Higher Heating Value (HHV) of fuel  
103% Lower Heating Value (LHV) of fuel
- Control to  $\pm 3\%$  RH
- Low nitrogen oxide (NO<sub>x</sub>) emissions certified by SCAQMD to meet low NO<sub>x</sub> requirements of Rule 1146.2.
- On-board diagnostics verify system operation
- Variable-speed blower, modulating gas valve, and precision water fill provides consistent steam output

## APPLICATION FLEXIBILITY

- No need to change the control configuration based on water type when ordering equipment or retrofitting to fit new water sources in the field.
- Operates on natural or LP gas
- Outdoor models available for operation in any climate between -40 to 120°F (-40 to 60 °C).
- Requires only two-sided access, allowing installation in tight spaces
- Condensing design allows for PVC, CPVC, or polypropylene venting
- Horizontal or vertical venting



## MINIMAL MAINTENANCE

- Clean-out plate and removable panels provide easy access for inspection and servicing
- End-of-season auto drain minimizes microbial growth
- Automated drain and flush removes precipitated minerals from evaporating chamber
- Water surface skimming feature to drain away water surface debris and contaminants to minimize tank cleaning and risk of foaming.



## BUILT-IN SAFETY

- ETL approved for sealed combustion
- Self-contained infrared gas burner provide safety and reliability
- Gas valve closes if the flue becomes blocked, shutting down humidifier operation
- Low-water sensing mechanism with redundant backup shuts down burners in a low water condition
- Freeze protection
- Five temperature sensing and advanced control algorithms assure flue temperatures remain below design limits.

Table 3-1:  
GTS models, capacities, electrical specifications, turndown, and weights

GTS model	Maximum steam capacity		Input			Water usage at maximum capacity		Tank volume		GTS humidifier LX series*				Turndown		Full load amps*	
										Operating weight		Shipping (empty) weight**					
	lbs/hr	kg/h	MBh	kW	m <sup>3</sup> /h	gals/hr	litres/hr	gals	litres	lbs	kg	lbs	kg	ratio	lbs/hr	120V 60 Hz	230V 50 Hz
LX-50	50	23	61	17.8	1.7	6	23	14	53	304	138	187	85	5:1	10	2.0	1.5
LX-75	75	34	91.5	26.8	2.5	9	34	14	53	304	138	187	85	6:1	12.5	2.0	1.5
LX-100	100	45	122	35.8	3.4	12	45	13	49	300	136	192	87	8:1	12.5	2.0	1.5
LX-150	150	68	183	53.6	5.1	18	68	25	95	450	204	242	110	6:1	25	2.5	2.0
LX-200	200	91	244	71.5	6.8	24	91	42	159	706	320	356	161	6.7:1	30	4.0	2.5
LX-250	250	113	305	89.4	8.5	30	114	42	159	706	320	356	161	8.3:1	30	4.0	2.5
LX-300	300	136	360	105.5	10	36	136	41	155	709	321	367	166	10:1	30	4.0	2.5
LX-400	400	181	488	143	13.5	48	182	80	303	1259	571	593	269	13.3:1	30	6.5	3.5
LX-500	500	227	610	178.8	16.9	60	227	80	303	1259	571	593	269	16.7:1	30	6.5	3.5
LX-600	600	272	720	211	20	72	273	78	295	1265	574	615	279	20:1	30	6.5	3.5

\* For outdoor enclosures, see the Installation, Operation, and Maintenance Manual.

\*\* Add approximately 60-90 lbs (27-41 kg) for packaging material.



**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**

Since 1965, DriSteem has been leading the industry with creative and reliable humidification solutions. Our focus on ease of ownership is evident in the construction of the GTS humidifier. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

For more information:  
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