

NH-EL

The evolution of the industry's most
trusted electrode steam humidifier



NH
SERIES

 **nortec**
humidity.com



commercial offices
hospitals
computer rooms
museums
clean rooms
schools
high-tech centres
printing plants

Nortec NH-EL humidifiers resolve demanding application needs.

Productivity and quality of life are directly affected by the indoor environment. People work better and feel better in favorable surroundings. So do products and machines! They all respond in various ways to changes in air quality, temperature and humidity. All three elements must be just right to maximize performance and reliability, both in humans and equipment. Correct humidity is critical, since too much humidity can be as destructive as too little.

Nortec is a world leader in state-of-the-art humidification technology. Our focus is concentrated exclusively on designing and building better humidification systems. Every Nortec NH-EL model has been engineered to meet the highest standards of cost-effective, efficient performance. They are designed for ease of installation, adaptability, simplicity of operation, ease of maintenance and servicing, energy efficiency, cleanliness and long-term reliability.

Nortec NH-EL humidifiers offer complete application flexibility to systems engineers, contractors and customers. They can be integrated into central Heating/Ventilating/Air Conditioning (HVAC) systems or placed in specified locations for individual room control. Models are available to serve small or large areas with outputs of 5 - 200 lbs/hr.

Precise Control

All NH-EL Series Humidifiers have an advanced touch screen controller for precise and efficient relative humidity control. The humidifier can be controlled by a humidistat, a relative humidity sensor or be connected to a central Building Management System (BMS) for maximum control flexibility.

The NH-EL touchscreen controller contains more information than anything seen before. The touchscreen interface is easy to navigate. The user simply needs to touch what they want to see on the display. In case of an operational error, the humidifier will make service adjustments automatically or trigger a shutdown while displaying the function requiring operator attention.



Economy

Nortec NH-EL humidifiers provide lower initial installation costs for the customer. Operating costs are also reduced through efficient steam conversion rates and minimal energy losses due to low hot water drain rates.

NH-EL humidifiers provide clean humidification, reducing air-borne contaminants and subsequent health-related employee absenteeism. Correct interior humidity levels in winter maintain comfort at lower temperatures and can reduce heating costs.

NH-EL self-diagnostics confirm optimal operational efficiency and reduce servicing costs.

Installation Flexibility

NH-EL humidifiers offer unprecedented installation flexibility. They can be configured for both small and large systems. All NH-EL humidifiers are completely packaged for installation ease.

The standard drain water cooling ensures drain water does not exceed 140°F (60°C) to meet local plumbing codes. Steam distribution is easily accomplished through either the HVAC duct system or into individual areas through built-on or remote blower packs.

technology

Electrode Steam

The electrode steam system produces clean uncontaminated steam with variable output through electronic power control of the electrodes. Water borne minerals remain in the cylinder and are periodically flushed out through the automatic cylinder drain. Solid mineral scale sinks to the bottom of the cylinder which, when filled with residue, is easily removed and replaced.

The **NH-EL** is the newest electrode steam humidifier from Nortec. With forty years experience and a leader in commercial humidification, Nortec has developed an all new touch screen controller that is easy to navigate and contains more information than ever before.

- ▶ Intuitive touch screen control
- ▶ Standard building automation support with integrated BACnet™
- ▶ Internet connectivity for remote factory diagnosis
- ▶ USB port for performance downloads
- ▶ SIM card storage of all operational information and user changes
- ▶ New cabinet design and smaller footprint than previous NH models
- ▶ Zero unit side clearance

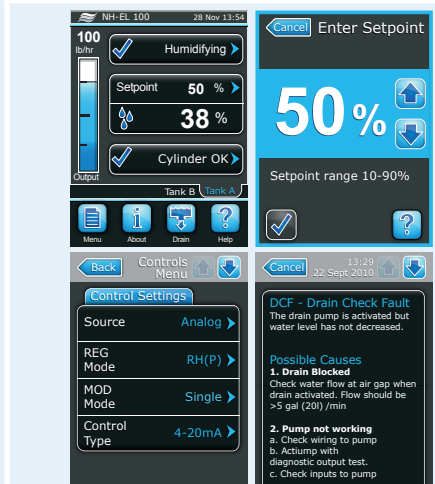


NH
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Nortec OnLine is a remote interactive communication package that allows web-based contacts to monitor, maintain and control a humidification center from any location worldwide using standard internet connections. This advanced software shows graphic representations of the humidifier and its key parameters (up to 75 functions).

Nortec OnLine powered by Help



options



SD

Nortec offers flexible steam distribution choices to satisfy a wide range of requirements:

- ***Stainless Steel Steam Distributors*** to distribute atmospheric steam into ducts.
- ***Mounted Blower Packs*** mounted directly to the NH-EL (some models excluded) and ***Independent Blower Packs*** (remote mounted) for in space applications.
- ***SAM-e Short Absorption Manifold*** for use in air handlers or ducts where short steam absorption distance is critical.



Atmospheric steam distributor



Blower pack



SAM-e Short Absorption Manifold

Electrode (NH-EL)

SPECIFICATION	NH-EL 005	NH-EL 010	NH-EL 020	NH-EL 020	NH-EL 030	NH-EL 050	NH-EL 075	NH-EL 100	NH-EL 150	NH-EL 200
Capacity: lbs/hr*	1-5	2-10	4-20	4-20	6-30	10-50	15-75	20-100	15-150	20-200
Capacity: kg/hr*	0.5-2.2	0.9-4.5	1.8-9	1.8-9	2.7-13.6	4.5-22.7	6.8-34	9-45	6.8-68	9-91
Input kW max	1.9	3.8	7.6	7.6	11.4	17.0	25.5	34.0	51.0	68.0
Voltage	110-120	208-600	208-600	208-600	208-600	208-600	208-600	208-600	208-600	208-600
Phase	1	1	1	3	3	3	3	3	3	3
No. of Cylinders/Control Circuits	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2
STEAM DISTRIBUTION CHOICES**										
Nortec steam hose I.D.	7/8" 2.2 cm	7/8" 2.2 cm	7/8" 2.2 cm	7/8" 2.2 cm	7/8" 2.2 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm
Duct mounted distributors	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Built-on blower packs	yes	yes	yes	yes	yes	yes	yes	yes	n/a	n/a
Remote mounted blower packs	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Short Absorption Manifold (SAM-e)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

* NH-EL can be field adjusted from 20% to 100% of full output.
 ** Refer to Engineering Manual for steam distribution methods.



Proveedora Termica del Norte, S.A. de C.V.
 Nardo #911 ote. Col. Cementos, Monterrey, N.L.
 C.P. 64520 Telefono (81) 8125-7300 Ext. 130

