

Tender specification

Heater element steam humidifiers **StandardLine Heater**

Fully wired compact steam humidifier system for fully automatic and intrinsically safe generation of mineral-free, odourless and sterile steam. Steam output 3 – 50 kg/h per individual device. Installation and maintenance friendly design for wall mounting. Corrosion-protected housing completely powder coated, stainless steel housing trough with separate areas for steam generation and electrics.

With VDE and GS certification mark, CE and EAC compliant. Developed and produced in Germany. StandardLine Heater can be operated with completely demineralised, softened water or tap water.

Standard equipment scope:

- Separable plastic cylinder - durable, easily cleaned without chemicals and reusable
- High-quality exchangeable resistance heaters
- Electronic level control - non-wearing, contact-free continuous water level recording
- Powerful blow-down pump to extend the service lives by pumping out hardeners
- Steam hose adapter for fast installation and removal of the cylinder
- Device components easily accessed from three sides with removable device cover
- Assembly material.

Powerful control electronics for fastest possible steam delivery with optimal energy utilisation and low maintenance operating mode. Comprehensive operational reliability through continuous self-monitoring of all device functions. The control processes all established control signals.

Performance characteristics:

- Automatic system test incl. power-up diagnosis to check all functions and device components
- Continuous or single-stage control selectable
- Separate inputs for voltage, current and resistance signals
- Integrated PI controller
- Control accuracy of $\pm 1\%$
- Proportional controllability in the range of 5-100% of the nominal output
- Display
- 4 function keys
- 10 symbols for displaying operating and service messages
- 2 potential-free remote signals, one of the freely programmable from 15 options
- Greatest operational reliability through thermal protection of individual heater elements
- Thermal overload protection of the power semiconductor relay
- Practically maintenance-free when operated with completely demineralised water
- Where particularly hard water is concerned a water analysis is required
- Adaptation of blow-down via menu
- Stand-by blow-down to prevent stationary cylinder water according to VDI 6022
- Flushing of dead-end line to prevent mains water stagnation in accordance with VDI 6022
- **eS**standby heating for quick steam production
- Integrated galvanically isolated serial interface RS-485 (EIA-485)
- Integrated communication protocol Modbus RTU
- Analogue output 0-10 V for simultaneous use of several devices

Technical specifications:

Steam output	.....	kg/h (max.)
Electrical connection	..... / ..... / .....	V / phases / (N)
Nominal output	.....	kW (max.)
Nominal current	.....	A (max.)
Control voltage	230V / N 50-60Hz separately	
Make	HygroMatik	
Type	StandardLine H	

Accessories

- Steam manifold with stainless steel condensate recirculation

Quantity	.....
Diameter	.....	(25 or 40 mm)
Length	(220, 400, 600, 900, 1200 or 1450 mm)

- Steam hose

Diameter	(25 or 40 mm)
Length	

- Condensate hose

Length	
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- Outlet hose

Length	
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