

**HYGROMATIK**  
MORE THAN  
**45 YEARS**  
HUMIDIFICATION

# HeaterLine

Heater Type Steam Humidifiers  
For Various Water Qualities



**HYGROMATIK**<sup>®</sup>  
WE HUMIDIFY THE AIR



## Easy Maintenance.

The HeaterLine series is robust and requires extremely low maintenance. The cylinders and cabinets are made of high-quality, high-grade corrosion resistant stainless steel.

The demountable cover provides easy access to the components from three sides. The HeaterLine is offered in 9 different unit sizes with maximum steam output of 11-495 lbs/h. Steam output of more than 99 lbs/h is obtained by combining several units together. It can be operated with demineralized, softened or tap water.

## Best by design

- The new rinsing and scale collecting system allows for easy maintenance
- Cabinet and steam cylinder are made of high-grade corrosion resistant stainless steel
- Proportional control of up to +/- 1%
- Hygienic humidification with mineral-free steam



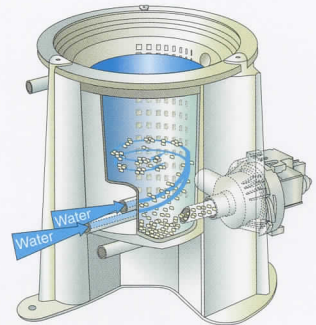
## Combined Rinsing and Scale Collecting System

During operation with demineralized or tap water, the minerals contained in the water are turned into scale deposits.

The integrated rinsing system induces an eddy during the partial blow-down. Thus scale particles are whirled up and can be expelled using the powerful blow-down pump. The amounts of scale deposits collected in the filter are clearly reduced.

The remaining scale deposits are accumulated in the sturdy removable filter and can be removed without any chemicals during maintenance.

Connectors, cylinder tension ring and steam hose adapter make maintenance quick and easy. The system is integrated into the unit, permitting for HeaterLine's compact dimensions, even when using tap water. When using demineralized water, there are practically no deposits so that servicing requirements are reduced to a minimum.



In the high-grade stainless steel cylinder, 1 to 5 high-quality, nickel-plated copper heating elements heat up the water according to the immersion boiler principle. The float switch and mechanical over temperature sensor work together allowing control of the water level and providing protection against dry-run.



The heavy-duty blow-down pump supports the combined rinsing and scale collection system by draining the scale deposits. The deposits are discharged, before accumulating in the first place. This reduces the quantity of scale in the filter and lightens servicing intervals.

# Exact Control. Fast Response.

High performance microprocessors control and monitor the new HygroMatik heater type steam humidifiers ensuring outstanding controllability and fast precise response. During operation with demineralized water, the Comfort and Comfort Plus controls offer a controllability of up to +/- 1%. The units intelligently adapt to the existing water quality. Stand-by blow-down feature prevents standing water in the cylinder according to German VDI 6022. The HeaterLine can be controlled proportionally within a range of 5-100% of the rated power output. The controls accept all standard control signals. Remote control or Master-Slave operation optional.

Certified Quality  
UL/CSA, VDE,  
GS and CE

## Microprocessor Controls.

### Basic provides

- proportional or on/off control
- automatic system test
- 5 LEDs to indicate important operation information
- 2 potential free remote signals
- stand-by heating for rapid steam production
- Modbus RTU
- stand-by blow-down



### Comfort includes additionally

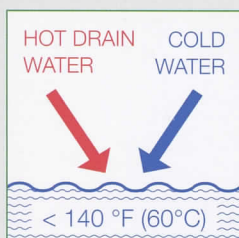
- integrated PI control
- back-lit LC display
- 4 function keys for easy operation and programming

### ComfortPlus additionally provides

- encoder for very easy operation and programming
- timer function



### All units optional with:



#### Integrated drain water tempering

ensures that the maximum temperature of the drain water remains below 140°F (60°C). The units are equipped with a tempering valve that ensures an efficient mix of hot and cold water for a safe discharge into a municipal sewer system or PVC pipe.

## Technical Data HeaterLine

Type		HL6	HL9	HL12	HL18	HL24	HL27	HL30	HL36	HL45
Data at 208/1/60 Vac	Steam output (kg/h)	4.9		9.8						
	Steam output (lbs/hr)	10.8		21.6						
	Power use (kW)	3.7		7.4						
	Power use (A)	17.7		35.4						
Data at 230/1/60 Vac	Steam output (kg/h)	6.5		13.1						
	Steam output (lbs/hr)	14.4		28.8						
	Power use (kW)	4.9		9.8						
	Power use (A)	20.4		40.8						
Data at 208/3/60 Vac	Steam output (kg/h)	4.9		9.8	14.7	19.6				
	Steam output (lbs/hr)	10.8		21.6	32.4	43.3				
	Power use (kW)	3.7		7.4	11.0	14.7				
	Power use (A)	17.7		30.6	30.6	48.3				
Data at 230/3/60 Vac	Steam output (kg/h)	4.9		13.1	19.6	19.6				
	Steam output (lbs/hr)	10.8		28.8	43.2	43.3				
	Power use (kW)	3.7		9.8	14.7	14.7				
	Power use (A)	17.7		35.4	35.4	48.3				
Data at 460/3/60 Vac	Steam output (kg/h)	5.5	8.3	11.0	16.5	22.0	24.8	27.6	33.1	41.3
	Steam output (lbs/hr)	12.1	18.2	24.3	36.4	48.6	54.7	60.7	72.9	91.1
	Power use (kW)	4.1	6.2	8.3	12.4	16.5	18.6	20.7	24.8	31.0
	Power use (A)	9.0	13.5	15.6	15.6	24.5	23.3	31.1	36.8	46.7
Control type		Basic, Comfort, Comfort Plus								
Control voltage	Vac	24 Vac								
Steam hose connection	Connection (mm)	1 x 25 ID			1 x 40 ID			2 x 40 ID		
	Connection (in)	1 x 1 ID			1 x 1.5 ID			2 x 1.5 ID		
Condensate hose connection	Connection (mm)	1 x 12 ID						2 x 12 ID		
	Connection (in)	1 x 1/2 ID						2 x 1/2 ID		
Weight empty	(kg)	35		36	38	37	46	45	46	
	(lbs)	77.0		79.2	83.6	81.4	101.2	99.0	101.2	
Weight operating	(kg)	48		49	51	50	72	71	72	
	(lbs)	105.6		107.8	112.2	110.0	158.4	156.2	158.4	
Dimensions	Height (mm)	830						855		
	Height (in)	32.7						33.7		
	Width (mm)	645						688		
	Width (in)	25.4						27.1		
	Depth (mm)	325						395		
	Depth (in)	12.8						15.6		
Water supply		14.5 psi min. to 145 psi max., 3/4" FPS								
Fan unit, wall mounted		VG08	VG17		VG30				2x VG30	

- \* Other voltages upon request
- \*\* Reducing 1½" to 1" (DN40 to DN25) included
- \*\*\* Inclusive Y-piece for connection of two manifolds
- \*\*\*\* Inclusive T-piece for condensate return from both manifolds

Subject to technical amendments without notice

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