

# HygroMATIK®

WE HUMIDIFY THE AIR

## FlexLine

Steam humidifier



### New flexibility in proven quality

- A series of units for all applications and performance categories
- Individual configuration
- Easy operation
- Highest quality and energy efficiency
- Environmentally friendly, incorporating reusable components



## Air humidification

for industry, commerce, culture and leisure

## New flexibility proven quality

The HygroMatik FlexLine as a modular system

### Flexibility pays dividends.

The HygroMatik FlexLine represents a new generation of steam humidifiers which consists of a basic model that can be expanded to create an individual humidification solution suitable for all requirements.

#### Advantages:

- Ease of installation by means of individual pre-configuration ex factory
- Expansion options for retrofitting
- You only invest in the functions you really need

In order to make this flexibility available to our customers quickly, we have developed a **modular system**.

### Custom made for every AREA OF APPLICATION.

The FlexLine basic model is the basis for all other configuration options. Through its individual extension capability, FlexLine is able to adapt to the requirements of differing areas of application:

- Optimisation of the indoor climate in industrial, commercial, cultural and leisure facilities
- Autonomous control and stabilisation of air humidity for industry and processes



Shopping centre and department store

Automotive industry

Museums and galleries

## Optimum humidification using the best METHODS.

FlexLine is available as an electrode as well as a heater element humidifier – depending on your water quality and the required degree of control accuracy.



Replaceable stainless steel large area electrodes for different conductivities



Resistor type heater elements in highly corrosion-resistant alloy



## Always the correct HUMIDIFICATION PERFORMANCE.

Equip HygroMatik FlexLine with the power you need for optimum humidification. 16 performance classes with steam output from 3 kg/h to 130 kg/h selectable in 6 unit sizes. An additional individual performance limitation can easily be programmed at the factory or on site.

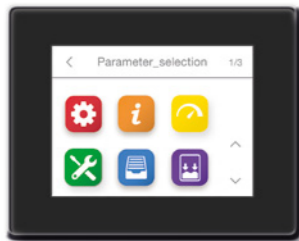
## Manifold OPTIONS for a humidification solution that fits perfectly.

Every installation is different and so every project places unique requirements on the humidification solution. The diverse options enable FlexLine to be specifically equipped to create the perfect solution. Whether you choose HyCool, (integrated waste water cooling) or the SuperFlush function (cylinder flushing device) depends entirely on your project. If needed, all options can be retrofitted. We are always pleased to provide advice.

# Benefit from extensive functions

Powerful, smart and efficient

## Excellent ease of operation.



All HygroMatik FlexLine units are equipped with a capacitive 3.5" touch display. Operation and programming are selected via a flat and intuitive menu structure analogous to modern smartphone logic. In addition to this, subsequent software updates are quickly and easily possible via USB flash.

- At a glance comprehensible pictographs provide information on the operating condition
- Simple and fast navigation
- Information and system messages displayed as plain text
- Readout of service messages with date and time
- Integrated real-time clock



## Smart control – powerful and quick response.

The improved control and regulation technology of FlexLine units provides extensive possibilities that are simple and easy to operate.

- **Multi-unit operation management\*** caters for optimum allocation and capacity utilisation when operating multiple units and safeguards the humidity even when a unit is being serviced
- **Numerous control and reporting functions** can be assigned to up to 11 relays depending on the unit
- Freely programmable, overload-protected **digital input**
- **Integrated communication** protocol: Modbus RTU or BACnet

\* Coming soon



## Optimised unit performance for efficient utilisation.

As with all our products, the HygroMatik FlexLine has been developed for an especially long lifespan. The units feature technologies that not only reduce the amount of maintenance required, but also the wear of components. FlexLine offers the highest degree of efficiency where energy and resources are concerned.

- **Adjustable load shedding** between 25 and 100%, in order to adapt operation temporarily or permanently
- **Long-term continuous operation:** A robust base material helps our reusable cylinders to achieve a high temperature resistance and dimensional stability
- The **split cylinder** is easy to open and can be cleaned without using chemicals
- **Extremely durable:** All FlexLine cabinets are manufactured in corrosion-resistant stainless steel; the powder coating of the housing increases the longevity and provides optimal safety protection
- **Robust blowdown pump** for removing scale deposits to ensure long operating life cycles and low maintenance requirement
- **Highest safety standard** for electrode steam generators on the market due to integrated protection switch
- Heater element humidifier with electronic, **proportional level control** with no wear parts



## Comprehensive service functions.



We have equipped the HygroMatik FlexLine with smart service functions and innovative features for operational reliability. These provide a new level of safety, control and transparency.

- Diagnosis mode can be actuated directly via the touch screen without having to start the unit
- Service messages are easy to select: Service intervals are calculated and issued based on the quantity of steam produced by the unit
- Smart-controlled status messages avoid damage and expensive service operations
- Detailed messages enable errors to be identified and rectified faster



## All in the green zone

- Robust and durable cabinet
- Reusable steam cylinders
- Long and flexible service intervals
- High energy and resource efficiency



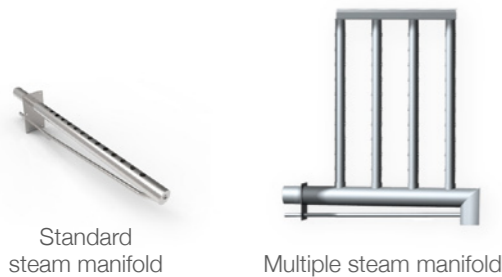
## FlexLine electrodes technical data



A higher humidification performance is possible by connecting units together.

Type	FLE05	FLE10	FLE15	FLE20	FLE25	FLE30	FLE40	FLE50	FLE65	FLE80	FLE100	FLE130
Steam output [kg/h]	4.8-5.2	9.5-10.4	14.3-15.6	19.0-20.8	23.9-26.1	28.5-31.2	38.2-41.7	47.8-52.2	62.0-67.5	76.4-83.4	95.4-104.2	124.0-135.4
Electrical connection *	380-415V / 3 / 50-60Hz						380-415V / 3 / 50-60Hz					
Rated power [kW]	3.6-3.9	7.1-7.8	10.7-11.7	14.3-15.6	17.9-19.5	21.4-23.4	28.6-31.3	35.9-39.2	46.3-50.6	2 x 28.6-31.3	2 x 35.9-39.2	2 x 46.3-50.6
Rated current [A]	5.4	10.8	16.3	21.7	27.2	32.5	43.5	54.5	70.4	2 x 43.5	2 x 54.5	2 x 70.4
Fuse [A] **	3 x 10	3 x 16	3 x 20	3 x 25	3 x 32 (35)	3 x 40	3 x 50	3 x 63	3 x 80	6 x 50	6 x 63	6 x 80
Control voltage	220-240V / 1 / N / 50-60Hz						220-240V / 1 / N / 50-60Hz					
Steam hose connection [mm]	1 x 25			1 x 40			1 x 40 with Y-piece	2 x 40		2 x 40 with Y-piece	4 x 40	
Unit size ***												
Height [mm]	535			695			750	785		750	785	
Width [mm]	540			540			580	640		1090	1170	
Depth [mm]	320			320			355	420		355	420	
Water installation	Tap water of varying qualities 1 to 10 bar with 3/4" connection						Tap water of varying qualities 1 to 10 bar with 3/4" connection					

From our accessories range



Standard steam manifold

Multiple steam manifold

## FlexLine heaters technical data

Type	FLH03	FLH06	FLH09	FLH15	FLH25	FLH30	FLH40	FLH50	FLH80	FLH100	
Steam output [kg/h]	2.7-3.3	5.5-6.5	8.2-9.8	13.7-16.4	22.7-27.1	27.4-32.7	36.5-43.5	45.5-54.3	73.0-87.0	91.0-108.6	
Electrical connection *	220-240V / 1 / N / 50-60Hz			380-415V / 3 / 50-60Hz							
Rated power [kW]	2.1-2.4	4.1-4.9	6.2-7.3	10.3-12.3	17.1-20.3	20.6-24.5	27.3-32.6	34.1-40.7	2 x 27.3-32.6	2 x 34.1-40.7	
Rated current [A]	9.4-10.2	10.7-11.7	16.0-17.5	15.6-17.1	25.9-28.3	31.3-34.1	41.5-45.4	51.8-56.6	2 x 41.5-45.4	2 x 51.8-56.6	
Fuse [A] **	1 x 16	3 x 16	3 x 20	3 x 20	3 x 32 (35)	3 x 35	3 x 50	3 x 63	6 x 50	6 x 63	
Control voltage	220-240V / 1 / N / 50-60Hz										
Steam hose connection [mm]	1 x 25			1 x 40			2 x 40		4 x 40		
Unit size ***											
Height [mm]	535			695			785		785		
Width [mm]	540			540			640		1170		
Depth [mm]	320			320			420		420		
Water installation	Fully demineralised water / cleaned condensate: 1-10 bar, 13mm hose partially softened water / tap water of varying qualities 1-10 bar, for 3/4" external thread										

We reserve the right to make technical changes.

\* Other voltages upon request.

\*\* 1.1-fold power consumption after full blowdown.  
Observe actuation characteristics of automatic circuit-breakers.  
If necessary, select the next highest circuit-breaker level.

\*\*\* External width and depth dimensions.  
Height including drainage nozzles



## Our service for 100% customer satisfaction

- Personal on-site support provided by qualified service partners
- Simple ordering process and short delivery times
- Long availability for replacement parts
- Technical hotline +49 4193 895-293 or [hotline@hygromatik.com](mailto:hotline@hygromatik.com)
- HygroMatik distributes in more than 45 countries
- Operating manuals, planning data and information on workshop events available online at [www.hygromatik.com](http://www.hygromatik.com)



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