

HygroMATIK®

WE HUMIDIFY THE AIR

FlexLine

Steam humidifier



New flexibility in award-winning quality

- A series of units with a wide performance range for every area of application
- Individual configuration
- Easy operation
- Highest quality
- Environmentally friendly, incorporating reusable components
- **Plus X Award** in three categories and „Best Product 2018“



Air humidification

for industry, commerce, culture and leisure

New flexibility in award-winning 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. This was awarded in three categories with the **Plus X Award** and FlexLine was named „**Best Product of the Year 2018**“.

Custom-made for every AREA OF APPLICATION.

The basic FlexLine model is the basis for all other configuration options. Thanks to its individual extension capability the FlexLine can be adapted to the requirements of different areas of application:

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



Shopping centres and department stores

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. 15 performance classes with steam output from 3 kg/h to 130 kg/h selectable in 6 unit sizes. In addition, individual performance adjustments can be programmed both at the factory and on site.

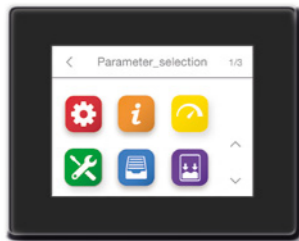
Manifold **OPTIONS** for a humidification solution that fits perfectly.

Every installation is different, and so every project places unique requirements on the humidification solution. The FlexLine can be equipped with a wide range of options to optimally meet your project requirements. 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 life. The units feature technologies that not only reduce the amount of maintenance required, but also the wear of components. In addition, they are highly efficient with energy and resources.

- **Adjustable load shedding** between 25 and 100%, in order to adapt operation temporarily or permanently
- **Long-term continuous operation:** A robust base material provides our reusable cylinders with 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 lifespan and offers optimum work safety
- **Robust blowdown pump** for removing scale deposits to ensure long operating life cycles and minimal maintenance
- **Highest safety standard** in the market for electrode steam humidifiers due to integrated mechanical protection switch
- Heater element humidifier with electronic, **proportional level control** with no wear parts



Comprehensive service functions.



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

- **Innovative:** Preventive maintenance through permanent monitoring and intelligent evaluation of operating parameters can avoid unplanned downtimes
- **Convenient:** Detailed messages enable deviations to be identified and rectified more quickly
- **Simple:** The diagnostic mode can be started directly via the touch display without commissioning the unit completely
- **Flexible:** Service intervals can be calculated by the unit according to time as well as the amount of steam produced



All in the green zone

Robust and durable cabinet

Reusable steam cylinders

Long and flexible service intervals

High resource efficiency



FlexLine electrodes technical data

A higher humidification performance is possible by connecting units together.

Type	FLE05	FLE10	FLE15	FLE20	FLE25
Steam output [kg/h]	4.8-5.2	9.5-10.4	14.3-15.6	19.0-20.8	24.0-26.0
Electrical connection ⁽¹⁾	380-415V / 3Ph / 50-60Hz				
Rated power [kW]	3.6-3.9	7.1-7.8	10.7-11.7	14.3-15.6	18.0-19.5
Nominal current [A]	5.4	10.8	16.3	21.7	27.2
Fuse [A] ⁽²⁾	3 x 10	3 x 16	3 x 20	3 x 32	
Number of steam cylinder	1				
Control	FlexLine mainboard with capacitive 3.5" touch colour display				
Separate control voltage ⁽³⁾	220-240V / N / 2.5A				
Steam hose connection [mm]	1 x 25		1 x 40		
Empty weight [kg]	16		22		23
Max. filling capacity [l]	5		13		
Operating weight [kg]	21		36		37
Dimensions WxHxD [mm] ⁽⁵⁾	540 x 535 x 320		540 x 695 x 320		
Water connection	Tap water of varying qualities, 1 to 10 bar, for 3/4" external thread				
Drain water connection	Connection Ø 1 1/4"				

FLE30	FLE40	FLE50	FLE65	FLE80	FLE100	FLE130
28.5-31.2	38.2-41.7	47.8-52.2	62.0-67.5	76.4-83.4	95.5-104.4	124.0-135.0
380-415V / 3Ph / 50-60Hz						
21.4-23.4	28.6-31.3	35.9-39.2	46.3-50.6	2 x 28.6-31.3	2 x 35.8-39.1	2 x 46.3-50.6
32.5	43.5	54.5	70.4	2 x 43.5	2 x 54.5	2 x 70.4
3 x 40	3 x 50	3 x 63	3 x 80	2 x 3 x 50	2 x 3 x 63	2 x 3 x 80
1				2		
FlexLine mainboard with capacitive 3.5" touch colour display						
220-240V / N / 2.5A						
1 x 40	1 x 40 ⁽⁴⁾	2 x 40		2 x 40 ⁽⁴⁾	4 x 40	
26	27	33	34	66	75	
21		36		42	71	
47	48	69	70	108	147	
580 x 750 x 355		640 x 785 x 420		1130 x 750 x 420	1170 x 785 x 420	
Tap water of varying qualities, 1 to 10 bar, for 3/4" external thread						
Connection Ø 1 1/4"				2 x Connection Ø 1 1/4"		

From our accessories range



Standard steam manifold

Multiple steam manifold



FlexLine heaters technical data

A higher humidification performance is possible by connecting units together.

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 ⁽¹⁾	220-240V / 1Ph / 50-60Hz			380-415V / 3Ph / 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
Nominal current [A]	9.4-10.2	18.7-20.4	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
Fuse [A]	1 x 16	1 x 25	3 x 16	3 x 20		3 x 32	3 x 35	3 x 50	3 x 63	2 x 3 x 50
Number of steam cylinder	1								2	
Control	FlexLine mainboard with capacitive 3.5" touch colour display									
Separate control voltage ⁽³⁾	220-240V / N / 2.5A									
Steam hose connection [mm]	1 x 25				1 x 40	1 x 40 ⁽⁴⁾	2 x 40		4 x 40	
Empty weight [kg]	18	19	25		36	37	75	80		
Max. filling capacity [l]	5				14	36		71		
Operating weight [kg]	23	24	40		72	74	147	152		
Dimensions WxHxD [mm] ⁽⁵⁾	540 x 535 x 320			540 x 695 x 320		640 x 785 x 420		1170 x 785 x 420		
Water connection	Fully demineralised water / cleaned condensate / partially softened water / tap water of varying qualities, 1 to 10 bar, for 3/4" external thread									
Drain water connection	Connection Ø 1 1/4"								2 x Connection Ø 1 1/4"	

We reserve the right to make technical changes.

- (1) Other voltages upon request.
- (2) 13/28% above nominal power consumption after full blowdown. Observe actuation characteristics of automatic circuit-breakers. If necessary, select the next highest circuit-breaker level.
- (3) Internal control voltage upon request.
- (4) Incl. Y-piece DN40.
- (5) Outer dimensions of width and depth. Height incl. drain connection.



Our service for 100% customer satisfaction

- Long availability of replacement parts
- Technical hotline +49 4193 895-293 or 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

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