



New flexibility in award-winning quality:

The Munters FlexLine

The Munters 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.

- 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





Flexibility pays dividends

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 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

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.

Always the correct humidification performance

Equip Munters 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.



corrosion-resistant alloy.



electrodes for different conductivities.

Manifold options for a humidification solution that fits perfectly

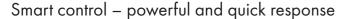
Every installation is different, and so every project places unique requirements on the humidification solution. The FlexLine can be equipped with a wide range of options to optimally meet your project requirements. Whether you choose HyCool (integrated waste water cooling) or the SuperFlush function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



Excellent ease of operation

All Munters 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



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

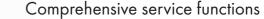
- Multi-unit operation management caters for optimum allocation and capacity utilisation when operating multiple units and safeguards the humidity even when a unit is being serviced
- Numerous control and reporting functions can be assigned to up to 11 relays depending on the unit
- Freely programmable,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











We have equipped the Munters 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



Optimised unit performance for efficient utilisation

- As with all our products, the Munters 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

Technical data

FlexLine electrodes

A higher humidification performance is possible by connecting units together.

Туре	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	24.0-26.0	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	
Electrical connection (1)	380-415V / 3Ph / 50-60Hz					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	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	
Nominal 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] (2)	3 x 10	3 x 16	3 x 20	3 x 32	3 x 32	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	
Number of steam cylinder	1						1 2						
Control	FlexLine mainboard with capacitive 3.5" touch colour display						FlexLine mainboard with capacitive 3.5" touch colour display						
Separate control voltage (3)	220-240V / N / 2.5A					220-240V / N / 2.5A							
Steam hose connection [mm]	1 x 25			1 x 40		1 x 40	1 x 40 ⁽⁴⁾	2 x 40		2 x 40 ⁽⁴⁾	4:	4 x 40	
Empty weight [kg]		16	:	22	23	26	27	33	34	66		75	
Max. filling capacity []	5			13		21		36		42	71		
Operating weight [kg]	2	21		36	37	47	48	69	70	108	1	147	
Dimensions WxHxD [mm] (5)	540 x 535 x 320			540 x 695 x 320		580 x 750 x 355		640 x 785 x 420		1130 x 750 x 420	1170 × 785 × 420		
Water connection	Tap water of varying qualities, 1 to 10 bar, for 3/4" external threat					Tap water of varying qualities, 1 to 10 bar, for 3/4" external threa							
Drain water connection	Connection Ø 1 1/4"					Connection Ø 1 1/4"						2 x Connection Ø 1 1/4"	

FlexLine heaters

A higher humidification performance is possible by connecting units together.

Туре	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 / 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	2 x 51.8-56.6		
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	2 x 3 x 63		
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	2		5	36	37		75	80		
Max. filling capacity [1]	5					4		71					
Operating weight [kg]	23	3 24			4		72		74		152		
Dimensions WxHxD [mm] (5)	540 x 535 x 320				540 x 6	95 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"		

Accessories

We reserve the right to make technical changes.

- (1) Other voltages upon request.
- 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.
- Outer dimensions of width and depth. Height incl. drain connection.



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Munters Services With you all the way!

We are dedicated to providing the most reliable, efficient and innovative products, but we know that service is just as important. That is why we offer Global Services, which ensures you benefit from our expertise wherever you are in the world.

Our range of services includes:

- A global network of Munters Service Engineers
- Comprehensive commissioning service
- Training and competence development
- Preventive maintenance and spare parts
- Munters Remote Assist: online service solution when on-site visits are difficult
- And much more...

Munters is a global leader in energy-efficient air treatment and climate solutions. Using innovative technologies, Munters creates the perfect climate for customers in a wide range of industries.

Munters has been defining the future of air treatment since 1955. Today, around 3,350 employees carry out manufacturing and sales in more than 30 countries.

For more information, please visit www.munters.com