

HygroMATIK® SPA

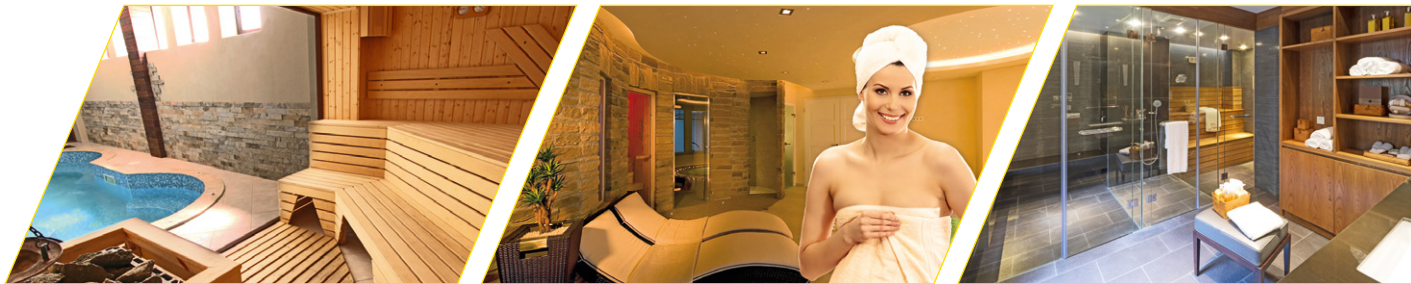
FlexLine

Steam generators



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



Steam generation
for spa and wellness applications

New flexibility proven quality

The HygroMatik FlexLine as a modular system

Flexibility pays dividends.

With the FlexLine, HygroMatik provides a new generation of steam generators which consists of a basic model that can be expanded to create an individual solution suitable for all steam requirement.

Advantages:

- Ease of installation by means of individual pre-configuration ex factory
- Expansion of 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 applications in the spa and wellness sector.



Spa resort and wellness hotel

Fitness club and gym

Cruise ship

Using the best METHOD for optimum steam production.

FlexLine is available as an electrode as well as a heater element steam generator – depending on your water quality.



Replaceable stainless steel large area electrodes for different conductivities



Resistor type heater elements in highly corrosion resistant alloy



Always the right PERFORMANCE for a rich steam picture.

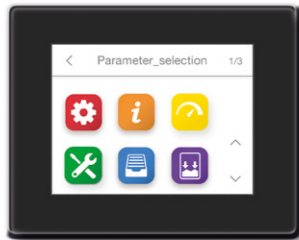
Equip HygroMatik FlexLine with the power you need for optimum steam output. Up to 9 performance classes with steam output from 3 kg/h up to 130 kg/h selectable in 6 unit sizes. An additional performance limitation can easily be programmed.

Manifold OPTIONS for a steam solution that fits perfectly.

Due to differing spatial conditions every project places unique requirements on the steam solution. Using the manifold options FlexLine can 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. We are always pleased to provide advice.

Benefit from extensive functions

Powerful, smart and efficient



Spa Touch Control



Optional: 5" touch screen for external control

Excellent ease of operation.

All HygroMatik FlexLine units are equipped with a capacitive 3.5" touch screen whereby operation and programming is 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 stick.

- At a glance comprehensible pictographs provide information on the operating condition
- Simple and fast navigation
- Information and system messages displayed as plain text
- Easy planning of operating periods by means of programmable timer functions
- Readout of storage and status 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 which are simple and easy to operate.

- **Highest regulating accuracy and top protection** from excessive temperatures by means of second supply air and ventilation steam bath fan
- Realisation of up to **4 different lighting scenarios** possible
- Flexible switchover of up to **4 essences** without changing containers
- Freely programmable with overload protected **digital input**
- **Integrated communication** protocol, Modbus RTU or BACnet
- Up to **53 different control and reporting functions** can be assigned to 11 relays depending on the unit

Optimised unit performance for an efficient utilisation.

As with all our products, the HygroMatik FlexLine has been developed for an especially long life span. 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 temporarily or permanently adapt operation to the respective load conditions
- Active energy saving with the **ECO function** and flexible adjustment of the timer functions
- **In long-term continuous operation:** An improved base material aids our reusable cylinders to achieve an even higher temperature resistance and dimensional stability
- The **split cylinder** can simply be opened and 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
- **Robust blow-down 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 steam generators 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 sooner and rectified



For the sake of the environment

- Active energy saving with the **ECO function**
- Robust and durable cabinet**
- Reusable steam cylinders**
- Long and flexible service intervals**
- Highest energy and resource efficiency**



Technical data FlexLine electrodes



A higher steam output is possible through the interconnection of several units.

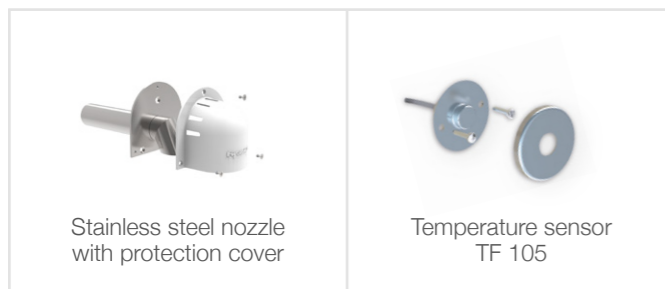
Type	FLE04	FLE05	FLE10	FLE15	FLE20	FLE25	FLE30	FLE40	FLE50	FLE65	FLE80	FLE100	FLE130	
Steam output [kg/h]	3.8-4.2	4.8-5.2	9.5-10.4	14.3-15.6	19.0-20.8	23.9-26.1	28.5-31.2	38.2-41.7	47.8-52.2	62.0-67.5	76.4-83.4	95.4-104.2	124.0-135.4	
Electrical connection *	220-240V / 1 / 50-60Hz			380-415V / 3 / 50-60Hz										
Rated power [kW]	2.8-3.2	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]	13.0	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] **	1 x 16	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 40						2 x 40				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							



Technical data FlexLine heaters

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										

From our accessories range



Stainless steel nozzle with protection cover

Temperature sensor TF 105

You can find other spa accessories in our spa accessories flyer.

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 servicepartners
- Simple ordering process and short delivery times
- Long availability for replacement parts
- Technical hotline +49 4193 895-293 or hotline@hygromatik.com
- HygroMatik distributes in more than 53 countries
- Operating manuals, planning data and information on workshop events available online at www.hygromatik.com



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A Member of the **spirax**/**sarco** group



SPA Accessories



Temperature sensor	1. Security temperature alert incl. temperature sensor	
	Temperature sensor FTF	
	Temperature sensor TF104	
Steam inlet	2. Steam bath nozzle for steam insertion into the cabin	
	Steam hose	
	Fog maker (mixing tube) alternative to steam nozzle	
	Reducing kit DN40 to DN25	
Control	3. Remote control	
	Relay circuit board for (in / outlet) fans, essence injector, light, etc	
	Time relay start-up / drop-out delay	
	Clock timer	
Air in / outlet	4. Rotary potentiometer for steam bath fan control	
	Duct slide-in fan for in or outlet air via 100 HT duct pipe	
Essence	5. Essence injector	
	Essence non-return valve protection against essence bagging at feed in	
	Suction filter for essence container for optimum essence discharge without plugging	
Durability	T-piece for essence feed or condensate discharge	
	6. Cylinder star decreases cylinder water conductivity	
	SuperFlush enhances limescale management and reduces maintenance intervals	

Product samples, further variants on request. Subject to technical amendments without notice.