HygroMatik SPA

member of CAREL group CAREL

Heater type steam generators

for spa and wellness treatments

FlexLine Plus Spa

Flexible.
Hygienic.
Efficient.

HygroMatik since 1970 – More than 55 years – Quality and Innovation



FlexLine Plus Spa heater type steam generators

ROBUST AND DURABLE – PURE RELAXATION

Courtesy of Faena Hotel, Miami Beach. Photographer Nik Koenig.
Design and Implementation by Design for Leisure.

HIGH-QUALITY AND HYGIENICALLY CLEAN

The HygroMatik FlexLine Plus Spa produces hygienic, mineral-free steam for spa and wellness treatments.

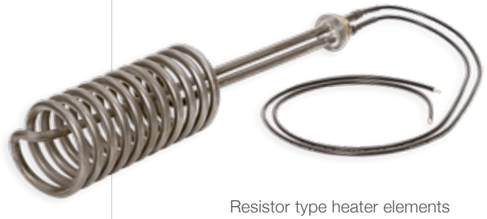
- The **stainless steel split cylinders** can be opened easily and cleaned without chemicals
- The **robust heater mounting** allows a simple and fast installation and removal of the heating elements
- Available in **two cylinder sizes** with volumes attuned to the humidification capacity

COMPACT AND LOW-MAINTENANCE

When operated **with softened or tap water,** the minerals and salts contained in the water precipitate. These deposits are stirred up by the **integrated rinsing and lime collection system** during partial blowdown and can be removed by the **powerful blowdown pump.** The amount of particles accumulated in the strainer is thus significantly reduced.

- The combined rinsing and lime collection system is integrated in the unit and ensures **compact dimensions** for HygroMatik FlexLine Plus
- **The robust removable strainer** allows easy removal of hardeners
- Plug connections, cylinder clamping ring and steam hose adapter enable **fast and easy maintenance**

When operated **with demineralized water,** the build-up of scale is kept to a minimum, which allows for a significantly longer operating period between maintenance intervals.



Resistor type heater elements in highly corrosion-resistant alloy



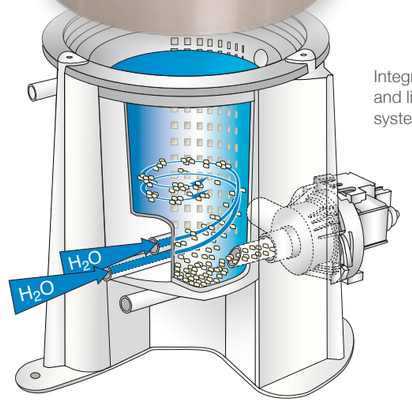
Large cylinder (FLP30 - FLP50)

Small cylinder (FLP05 - FLP25)

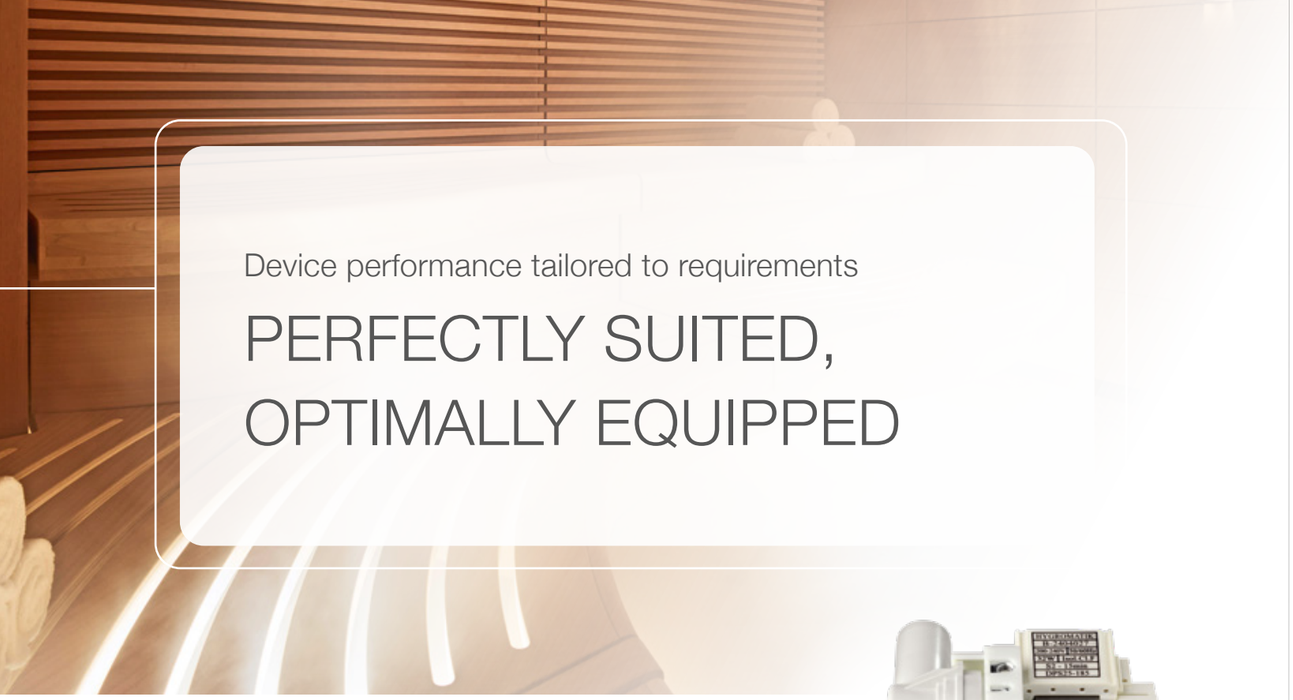
DURABLE AND SAFE

HygroMatik FlexLine Plus units heat the water with the aid of one, three or six resistance heater elements in the stainless steel cylinder according to the immersion heater principle.

The heater elements are made of **highly corrosion-resistant Incoloy825** (titanium-stabilized nickel-iron-chromium alloy) and therefore extremely durable. The mechanical overheating protection of the heater elements together with the electronic proportional level control provide double protection.



Integrated rinsing and lime collection system



Device performance tailored to requirements

PERFECTLY SUITED, OPTIMALLY EQUIPPED



OPTIMIZED DEVICE PERFORMANCE
FOR EFFICIENT OPERATION

As with all our products, the HygroMatik FlexLine Plus 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 power limitation** from 25 - 100%
- **Adjustable load shedding** to temporarily adapt operation to the respective load conditions
- Active energy saving with the **ECO function** and other customizable timer functions
- **Extremely durable:** All FlexLine cabinets are made of corrosion-resistant stainless steel; the additional powder coating of the cabinet further increases durability and ensures optimum health and safety at work
- **Robust blowdown pump** for removing scale deposits to ensure long operating life cycles and minimal maintenance
- Electronic, **proportional level control** with no wearing parts
- Highest safety standard due to **integrated mechanical safety temperature limiter** (optional)

For the sake of the environment

Active energy saving with the ECO function

Robust and durable cabinet

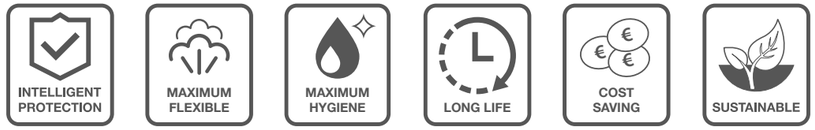
Reusable steam cylinders

Long and flexible service intervals

High resource efficiency

A WIDE RANGE OF OPTIONS
FOR FLEXIBLE AND TAILOR-MADE SOLUTIONS

Our FlexLine series is characterized by solid basic functions, long operating times and a long service life. But every installation is different, and so every project places unique requirements on steam production. As an option, all FlexLine units can be customized at the factory **with over 100 additional function combinations** to meet the needs of the installation environment. Most FlexLine options can also be retrofitted or activated later. This means that you only invest in the steam generator version that you actually need.



FlexLine Plus Spa technical data

A higher humidification performance is possible by connecting units together.

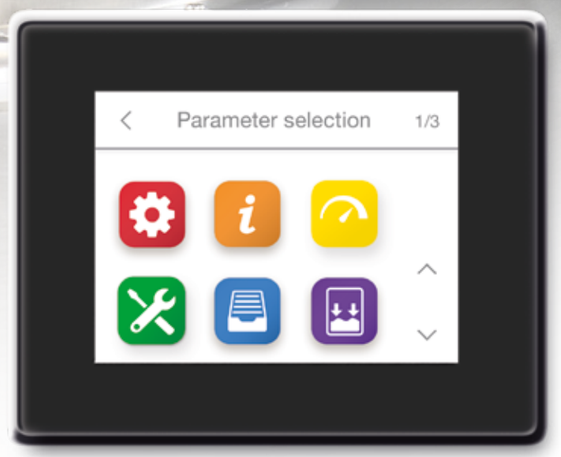
Electrical supply [1]	Type	FLP05	FLP08	FLP15	FLP25	FLP30	FLP40	FLP50
208-240 VAC / 1 / N / 50-60Hz	Steam output [kg/h]	4.1-5.5						
	Steam output [lbs/h]	9.0-12.1						
	Rated power [kW]	3.1-4.1						
	Rated current [A]	14.9-17.2						
208-240 VAC / 3 / 50-60Hz	Steam output [kg/h]	4.1-5.5		12.4-16.6				
	Steam output [lbs/h]	9.0-12.1		27.3-36.5				
	Rated power [kW]	3.1-4.1		9.3-12.4				
	Rated current [A]	14.9-17.2		25.9-29.9				
440-480 VAC / 3 / 50-60Hz	Steam output [kg/h]	4.6-5.5	7.7-9.1	13.9-16.6	23.1-27.4	27.8-33.1	37.0-44.0	43.7-52.0
	Steam output [lbs/h]	10.1-12.1	16.9-20.0	30.6-36.5	50.8-60.3	61.2-72.8	81.4-96.8	96.1-114.4
	Rated power [kW]	3.5-4.1	5.8-6.9	10.4-12.4	17.3-20.6	20.9-24.8	27.7-33.0	32.8-39.0
	Rated current [A]	7.9-8.6	13.1-14.3	13.7-14.9	22.7-24.8	27.4-29.9	36.4-39.7	43.0-46.9
575-600 VAC / 3 / 50-60Hz	Steam output [kg/h]	3.8-4.2	6.4-6.9	11.5-12.6	19.1-20.8	23.1-25.1	30.7-33.4	39.5-43.0
	Steam output [lbs/h]	8.4-9.2	14.1-15.2	25.3-27.7	42.0-45.8	50.8-55.2	67.5-73.5	86.9-94.6
	Rated power [kW]	2.9-3.1	4.8-5.2	8.7-9.4	14.3-15.6	17.3-18.8	23.0-25.0	29.6-32.2
	Rated current [A]	5.0-5.2	8.3-8.7	8.7-9.1	14.4 - 15.0	17.4-18.1	23.1-24.1	29.7- 31.0
Number of cylinders		1						
Control type		FlexLine mainboard with capacitive 3.5” touch color display						
Internal control voltage		208-240V / 50-60Hz						
Steam hose connection [mm]		1 x DN 40 ID				2 x DN 40 ID [3]		2 x DN 40 ID
Steam hose connection [in]		1 x 1.6 ID				2 x 1.6 ID [3]		2 x 1.6 ID
Dimensions [4]								
	Height [mm/in]	855 / 33.7						
	Width [mm/in]	650 / 25.6						
	Depth [mm/in]	380 / 15.0						
Water installation		Demineralized water / cleaned condensate: 1-10 bar / 14.5-145 PSI, with 3/4” connection Partially softened water / tap water of varying qualities: 1-10 bar / 14.5-145 PSI, for 3/4” external thread						

We reserve the right to make technical changes.

[1] Other voltages upon request. [3] Incl. Y-piece DN40. [4] Outer dimensions of width and depth. Height incl. drain connection.

Benefit from extensive functions

POWERFUL, SMART AND EFFICIENT



EXCELLENT EASE OF OPERATION

All HygroMatik FlexLine Plus 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 drive.

- Simple and fast navigation
- At a glance comprehensible pictographs provide information on the operating condition
- Information and system messages displayed as plain text
- Readout of service messages with date and time
- Easy planning of operating periods by means of programmable timer functions
- Integrated real-time clock
- Spa Touch Remote Control – optional 5” or 3.5” display for external control



Spa Touch Remote Control
5” display 3.5” display

SMART CONTROL –
POWERFUL AND QUICK RESPONSE

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

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

COMPREHENSIVE SERVICE FUNCTIONS

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

- **Reliable:** 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

From our accessories range

(You can find other spa accessories in our spa accessories leaflet)



Stainless steel steam nozzle with protective cover



Fragrance pump
for adjusting the fragrance output



Fogmaker (mixing tube)
as an alternative to the steam nozzle

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 **hygromatik.com**

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08/2026