FlexLine
Steam generators

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“

Steam generation for spa and wellness applications
New flexibility award-winning quality

The HygroMatik FlexLine as a modular system

Flexibility pays dividends.

The HygroMatik FlexLine represents 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 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 named „Best Product of the Year 2018“.

Custom-made for every AREA OF APPLICATION.

The FlexLine basic model is the basis for all other configuration options. Thanks to its individual extension capability, FlexLine is able to adapt to the requirements of differing applications in the spa and wellness sector.

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 and the required degree of control accuracy.

Replacing 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. 16 performance classes with steam output from 10 lbs/h to 300 lbs/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 steam solution that fits perfectly.

Every installation is different, and so every project places unique requirements on the steam 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
- Easy planning of operating periods by means of programmable timer functions
- 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.

- 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
- Integrated communication protocol 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 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

Optimized 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
- Active energy saving with the ECO function and flexible adjustment of the timer functions
- Long-term continuous operation: A robust base material provides 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 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 generators due to integrated mechanical protection switch
- Heater steam generators with electronic, proportional level control with no wear parts

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 higher humidification performance is possible by connecting units together.

### FlexLine electrodes technical data

<table>
<thead>
<tr>
<th>Electrical supply</th>
<th>Type</th>
<th>FLE05</th>
<th>FLE10</th>
<th>FLE15</th>
<th>FLE20</th>
<th>FLE25</th>
<th>FLE30</th>
<th>FLE40</th>
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<th>FLE50</th>
<th>FLE65</th>
<th>FLE80</th>
<th>FLE100</th>
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<tbody>
<tr>
<td>208-240 VAC / 1 / N / 50-60Hz</td>
<td>Steam output [kg/h]</td>
<td>4.2-4.8</td>
<td>8.3-9.6</td>
<td>12.6-15.2</td>
<td>16.6-19.2</td>
<td>35.4-42.3</td>
<td>50.9-59.5</td>
<td>64.6-76.2</td>
<td>8.3-10.6</td>
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<tr>
<td>208-240 VAC / 3 / 50-60Hz</td>
<td>Steam output [kg/h]</td>
<td>4.5-5.2</td>
<td>7.2-8.3</td>
<td>13.9-16.1</td>
<td>23.1-27.0</td>
<td>29.3-30.5</td>
<td>28.8-33.4</td>
<td>49.0-51.0</td>
<td>23.1-27.0</td>
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<tr>
<td>440-480 VAC / 3 / 50-60Hz</td>
<td>Steam output [kg/h]</td>
<td>4.8-5.2</td>
<td>9.6-10.4</td>
<td>14.3-15.6</td>
<td>19.1-20.8</td>
<td>24.0-26.0</td>
<td>24.8-32.1</td>
<td>62.0-67.5</td>
<td>76.4-83.4</td>
<td>95.5-104.4</td>
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<tr>
<td>575-600 VAC / 3 / 50-60Hz</td>
<td>Steam output [kg/h]</td>
<td>4.9-5.1</td>
<td>9.8-10.3</td>
<td>14.7-15.5</td>
<td>19.6-20.5</td>
<td>24.4-25.5</td>
<td>29.3-30.5</td>
<td>49.0-51.0</td>
<td>63.6-66.4</td>
<td>74.3-81.8</td>
<td>95.5-104.0</td>
<td>127.2-132.7</td>
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### FlexLine heaters technical data

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<th>Electrical supply</th>
<th>Type</th>
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<th>FLH06</th>
<th>FLH09</th>
<th>FLH15</th>
<th>FLH25</th>
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<th>FLH50</th>
<th>FLH80</th>
<th>FLH100</th>
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<tbody>
<tr>
<td>208-240 VAC / 1 / N / 50-60Hz</td>
<td>Steam output [kg/h]</td>
<td>2.5-3.3</td>
<td>4.9-6.5</td>
<td>5.5-7.3</td>
<td>10.8-14.3</td>
<td>1.8-2.4</td>
<td>3.7-4.9</td>
<td>8.8-10.2</td>
<td>17.7-20.4</td>
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<tr>
<td>208-240 VAC / 3 / 50-60Hz</td>
<td>Steam output [kg/h]</td>
<td>2.8-3.3</td>
<td>4.9-6.5</td>
<td>12.4-16.6</td>
<td>1.8-2.4</td>
<td>3.7-4.9</td>
<td>8.8-10.2</td>
<td>17.7-20.4</td>
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<tr>
<td>440-480 VAC / 3 / 50-60Hz</td>
<td>Steam output [kg/h]</td>
<td>12.1-14.3</td>
<td>18.1-21.6</td>
<td>30.6-36.6</td>
<td>50.9-60.4</td>
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<tr>
<td>575-600 VAC / 3 / 50-60Hz</td>
<td>Steam output [kg/h]</td>
<td>4.6-5.0</td>
<td>8.6-7.4</td>
<td>11.5-12.6</td>
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<td>30.7-33.4</td>
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</table>

### Control type

- FlexLine mainboard with capacitive 3.5" touch color display
- FlexLine mainboard with capacitive 3.5" touch color display

### Internal control voltage

- 208-240V / 50-60Hz
- 208-240V / 50-60Hz

### Dimensions (H)

- Height [mm/in]: 535/21.0, 695/27.4, 750/29.5, 785/30.9
- Width [mm/in]: 540/21.3, 580/22.8, 640/25.2, 1130/44.5
- Depth [mm/in]: 320/12.6, 355/14.0, 420/16.5, 420/16.5

### Water installation

- Tap water of varying qualities 1 to 10 bar / 14.5 - 145 PSI, with 3/4" connection
- Fully 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, with 3/4" connection

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We reserve the right to make technical changes.

(1) Other voltages upon request.
(2) FlexLine electrodes: 1.1-fold power consumption after full blowdown.
(3) Observe actuation characteristics of automatic circuit-breakers.
(4) If necessary, select the next higher circuit-breaker level
(5) External width and depth dimensions. Height including drainage nozzles.
Our service for 100% customer satisfaction

• Simple ordering process and short delivery times
• 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