



# HygroMATIK®

member of CAREL group

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## MiniSteam E

Electrode steam humidifier  
for direct room humidification



- Hygienic and reliable humidification with pure, mineral-free steam
- Functional design
- Reusable steam cylinder: easy to open, clean and reuse
- Large-surface electrodes made of stainless steel, exchangeable without tools
- Robust blowdown pump
- Optimum energy utilisation through independent adaptation to the water available
- Integrated communication protocol Modbus RTU
- Convenient operation with clear LED display



**Humidification for best conditions**  
for industry, manufacturing processes, public buildings and offices

# HygroMatik MiniSteam E (electrodes)

Optimised room climate due to controlled air humidity

## Direct and durable with integrated ventilation unit

The HygroMatik MiniSteam E is a steam humidifier for direct room humidification. It can be operated with normal drinking water and produces clean, mineral-free steam. Its integrated, smooth-running ventilation unit distributes the hygienic steam evenly in the room and enables humidification even without air conditioning. With its steam capacities of 5 and 10 kg/h, it is particularly suitable for humidification of small and medium sized offices as well as production and storage facilities.

The housing trough of the MiniSteam E is made of corrosion-resistant stainless steel. The cover can be completely removed for easy and thorough maintenance. For safety reasons, the unit is lockable to prevent unauthorised access. The excellent quality ensures a long service life.

## Various options for individual configuration

The MiniSteam E can be adapted specifically to the requirements of the various application areas by means of individual equipment and configuration with numerous options. This means that almost any project requirement can be optimally met. If necessary, these options can also be retrofitted at a later time.

- **SuperFlush:** The innovative cylinder flushing device significantly extends cylinder service life
- **HyFlow:** The DVGW-compliant system separator protects drinking water from contamination
- **HyCool:** The integrated waste water cooling ensures that the waste water temperature does not exceed 60 °C
- **Choice of electrode shapes and materials:**  
Enables optimum adaptation to different water qualities
- **Touch Control Remote:** 3.5" display for external control (including housing for surface mounting)



## Maximum ease of use – all information at a glance

The MiniSteam E is equipped with a clear LED display. This ensures that you always have an overview of all important unit and process information. The simple display symbols provide immediate clarity on the status of the steam humidifier. The control buttons allow quick and intuitive navigation through the clear and easy-to-understand menu.



## Reliable and safe thanks to precise control technology

The MiniSteam E processes all common control signals and adapts automatically to the respective water quality.

- Continuous or single-stage control
- Integrated PI control
- Automatic system test
- 2 potential-free remote signals
- Integrated galvanically isolated serial interface RS-485 (EIA-485)
- Stand-by blowdown and stand-by heating

### Technical data for MiniSteam E (electrodes)

A higher humidification performance is possible by connecting units together.			
Type	MSE05		MSE10
Steam output [kg/h]	4.4 - 4.8	4.8 - 5.2	9.5 - 10.4
Electrical connection <sup>(1)</sup>	220-240V/1/N/50-60Hz		380-415V/3/N/50-60Hz
Electrical power [kW]	3.3 - 3.6	3.6 - 3.9	7.1 - 7.8
Rated current [A] <sup>(3)</sup>	15.0	5.4	10.8
Fuse [A] <sup>(3)</sup>	1 x 16	3 x 10	3 x 16
Control voltage (internal)	220-240V/1/N		
Operating weight (empty) [kg]	20 (15)		
Dimensions WxHxD <sup>(5)</sup> [mm]	390 x 595 x 255		
Water supply	1 to 10 bar (100 x 10 <sup>3</sup> to 1000 x 10 <sup>3</sup> Pa), for 3/4" external thread		
Waste water connection	in on-site drain		
Sound level at 1 m distance [dB(A)] <sup>(6)</sup>	50		

Subject to technical changes.

<sup>(1)</sup> Other voltages upon request.

<sup>(3)</sup> 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.

<sup>(5)</sup> Outer dimensions of width and depth. Height incl. drain connection.

<sup>(6)</sup> During sporadic blowdowns higher values.

## Our service for 100% customer satisfaction

- Long availability of replacement parts
- Technical hotline +49 4193 895-293  
or [hotline@hygromatik.com](mailto: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](http://www.hygromatik.com)



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