HYGROMATIK®

member of CAREL group CAREL

Direct room humidification

Electrode steam humidifiers

MiniSteam E

for offices, manufacturing and storage facilities



Optimised room climate due to controlled air humidity

MINISTEAM E (electrodes)
STEAM HUMIDIFIERS

DIRECT AND HYGIENIC
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 a steam output of 5 and 10 kg/h, it is particularly suitable for humidifying small and medium-sized offices, museums and exhibition spaces, as well as production and storage areas, for example in the woodworking or food industries.

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.



100%

The benefits at a glance

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

A safe investment – economically sustainable

HIGH-QUALITY, DURABLE AND LOW-MAINTENANCE

INTELLIGENT PROTECTION | MAXIMUM HYGIENE | LONG LIFE | COST SAVING | SUSTAINABLE



MINIMAL MAINTENANCE
AND LONG SERVICE LIFE

The proven, high-quality components in our products ensure that the HygroMatik MiniSteam E also **offers a long service life and durability.**

- **Exchangeable large-area electrodes** made of stainless steel start quickly and last long and the special fastening system QuickFit enables the fast electrode change without tools.
- The **steam cylinder divided in the middle** has an optimised volume - good for long service life.
- A **robust blowdown pump** transports many hardeners into the drain. Even small pieces can be pumped off. This considerably extends the maintenance cycles.
- The housing with the **corrosion-resistant stainless steel tray** can be opened conveniently - all components are easily accessible.
- The unit is **lockable** to prevent unauthorised access.
- **Cylinder maintenance is done quickly -** simply open, clean and reuse without chemicals.

Well-designed, high-quality components are kind to the environment and save you money.



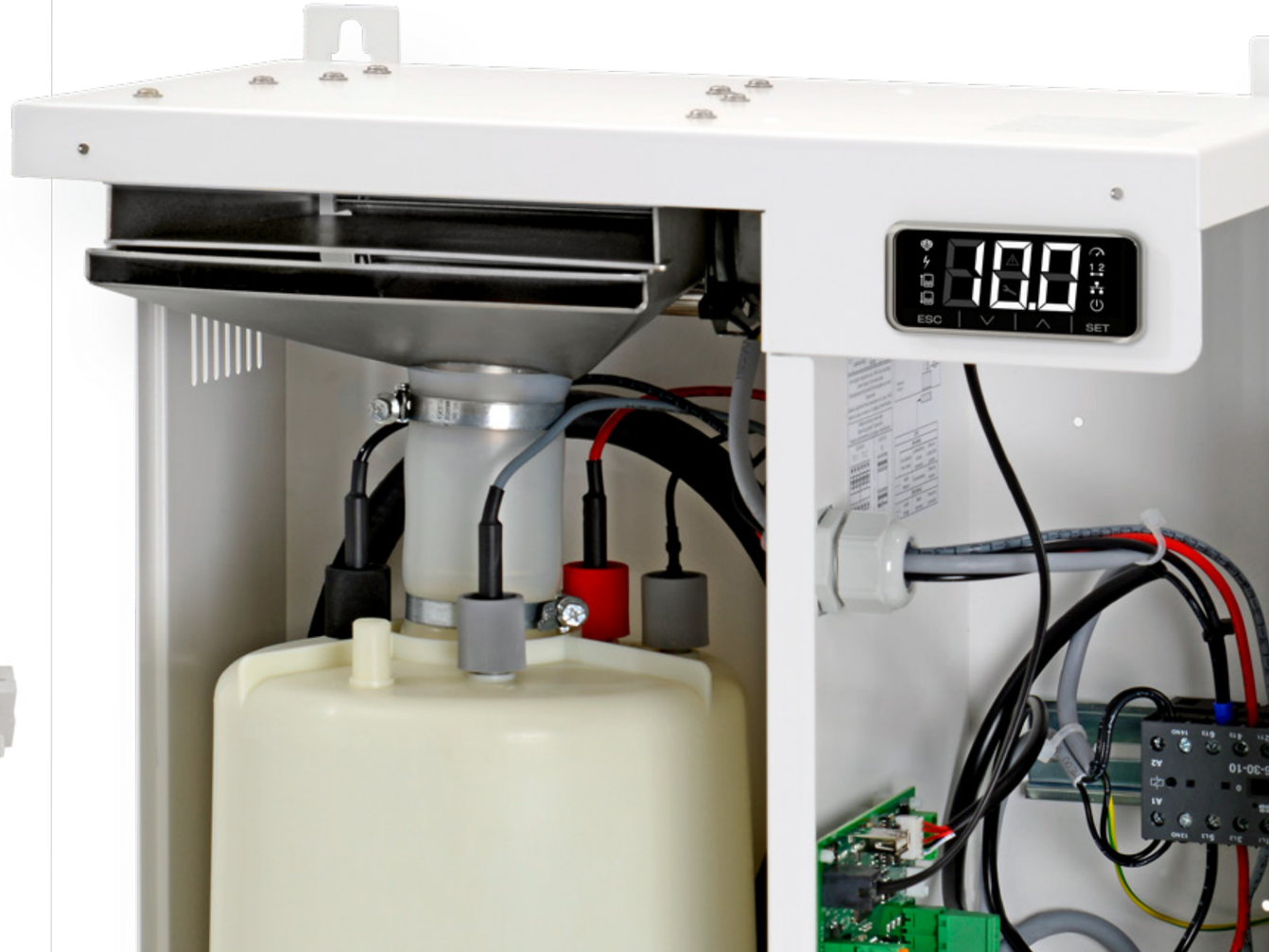
Robust blowdown pump



3.5” Touch Control Remote Display

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. The MiniSteam E can be fitted with an optional external 3.5” Touch Control Remote display.



Optimal equipped and expandable as required

SAFETY, COMFORT, AND INTEGRATION

RELIABLE AND SAFE
THANKS TO PRECISE CONTROL TECHNOLOGY

The **HygroMatik 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)
- Integrated communication protocol Modbus RTU
- 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 (1)	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] (3)	15.0	5.4	10.8
Fuse [A] (3)	1 x 16	3 x 10	3 x 16
Control voltage (internal)	220-240V/1/N		
Operating weight (empty) [kg]	20 (15)		
Dimensions WxHxD (5) [mm]	390 x 595 x 255		
Water supply	1 to 10 bar (100 x 10^3 to 1000 x 10^3 Pa), for 3/4“ external thread		
Waste water connection	in on-site drain		
Sound level at 1 m distance [dB(A)] (8)	50		

Subject to technical changes.

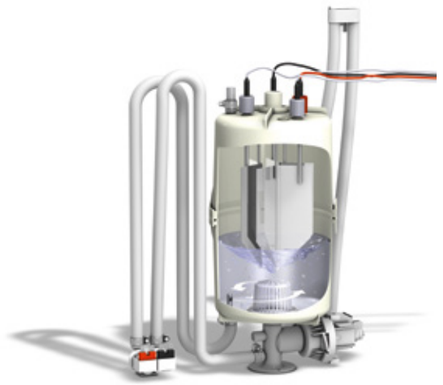
(1) Other voltages upon request.
(3) 13/28% above nominal power consumption after full blowdown. Observe actuation characteristics of automatic circuit-breakers. If necessary, select the next highest circuit-breaker level.
(5) Outer dimensions of width and depth. Height incl. drain connection.
(8) During sporadic blowdowns higher values.



VARIOUS OPTIONS
FOR INDIVIDUAL CONFIGURATION

The **HygroMatik 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.

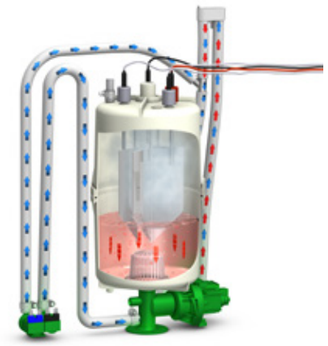
- **SuperFlush:** The innovative cylinder flushing device significantly extends cylinder service life
- **HyFlow:** The DVGW-compliant system separator protects drinking water from contamination
- **HyCool:** The integrated waste water cooling ensures that the waste water temperature does not exceed 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)



SuperFlush lime management



HyFlow system separator



HyCool wastewater cooling

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
  www.hygromatik.com

HygroMatik
member of CAREL group CAREL



HygroMatik GmbH
Lise-Meitner-Str. 3
24558 Henstedt-Ulzburg
Germany

T +49 4193 895-0
hy@hygromatik.de
www.hygromatik.com

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