

MixMaster

Quick guide



HERMES®
REINIGUNGSSYSTEME



Follow these instructions for proper and safe use.
Keep for future use!

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Technical changes and errors reserved.
Images may differ



Occupational safety

Personal protective equipment (PPE) is recommended to avoid contact with detergents and to prevent injuries during all work steps related to surface preparation or cleaning of the facade. These include, for example, work shoes with chemical-resistant sole and steel cap, gloves, safety goggles, FFP2 protective mask and headgear. When working on scaffolding, a rise protection must also be used. Further details can be found in the general guidelines on occupational safety and health.



Risk of frost

After use, small amounts of water remain in the system components of the systems, which cannot be removed without great effort. Due to the increase in volume, which occurs when water is frozen, significant damage to the components can occur. For this reason, the system must NOT be used at temperatures below 0 °C and must be stored frost-proofed (e. g. in a frost-proof garage or in a heated hall).



Risk of calcification

Due to strongly changing water qualities due to different application locations, the system has a dosage for softeners. Calcified components due to highly calcareous water lead to expensive damage to the machine. For this reason, the system operator must ensure that the container is always sufficiently filled with softener.

Overview

MixMaster

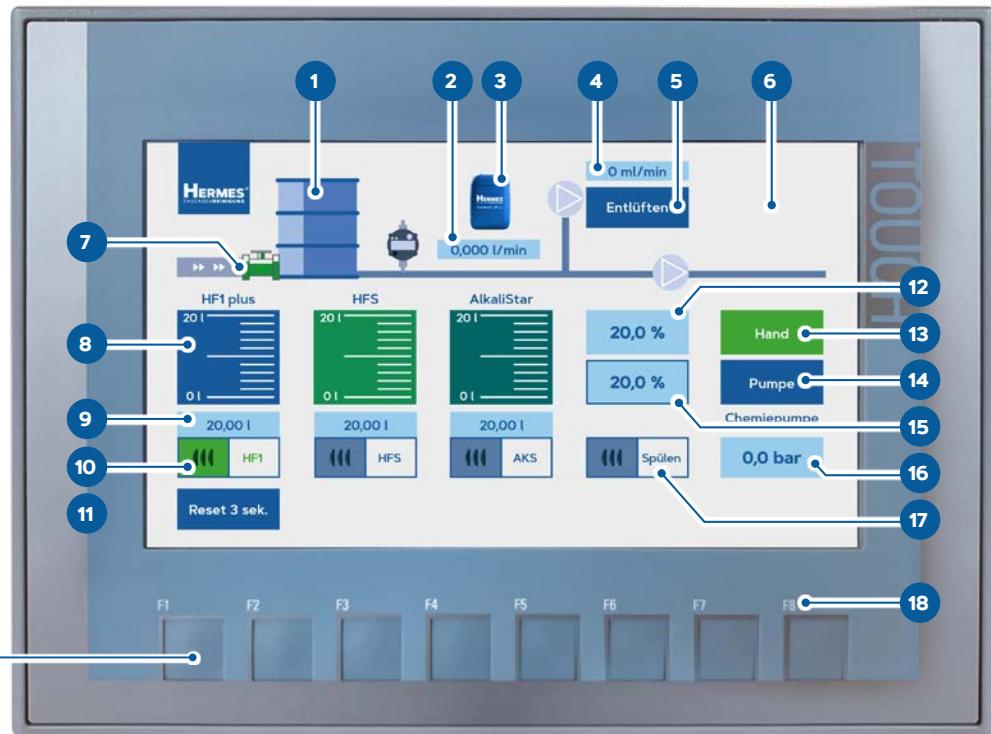


Overview

Touch-Display - Main menu

F1 view

With the function key F1 (see point 18) the main menu is called up.



1	Water tank status indicator	Indicates whether the fresh water tank is filled with water or not. blue = tank full grey = tank empty
2	Display current water consumption	Displays the current water consumption of the machine. This value is the basis for calculating the mixing ratios.
3	Status indicator cleaning agent	Indicates whether a cleaning agent concentrate is selected or not.
4	Display current cleaning agent consumption	Displays the current cleaning agent consumption of the machine.
5	Button venting	Button for manual venting of the chemical suction.
6	Fault indication	This is where possible fault messages are displayed (see page 5 – Error messages)
7	Valve water connection	Displays the status of the valve at the water connection. green = valve open grey = valve closed
8	Level indicator and colour code of the respective cleaning agent	Illustration of the calculated level. The respective colour is identical to the colour design of the respective cleaning agent concentrate. This allows a simple assignment of the canisters to the settings in the machine.
9	Level indicator of the respective cleaning agent	Displays the calculated level of the respective cleaning agent concentrate. Calculated on the basis of mixing ratio and consumption.
10	Button for activating cleaning agents	Switch for activating/deactivating the respective cleaning agent concentrate. Has two states: green = activated grey = deactivated
11	Reset button	Appears under the active cleaning agent. When actuated, the consumption counter and the calculated level of the cleaning agent canister are reset. Use it when replacing or re-connecting a canister.
12	Target display of the mixing ratio	Shows the desired specification of the mixing ratio for the cleaning agent.
13	Button switching hand / remote	Button to switch the operating mode. Hand = Pump is activated with the touch display. Remote = Pump is activated by remote control.
14	Button „activate pump“	This button is only visible if the control by "Hand" has been selected at the top button. With the button the chemical pump is switched on and off.
15	Button adjust mixing ratio	Button to adjust the mixing ratio. When pressed, a keyboard opens to enter the values in percent.
16	Pressure indicator chemical pump	Displays the current pressure in the chemical pump. This digital display replaces an analog manometer.
17	Button water drilling	Button for manual water drilling of the machine (e. g. to clean the lines of the machine at the end of the working day with fresh water from the fresh water tank).
18	Function keys	To access different menus. On the machine, the keys F1 and F2 are stored with functions. The other keys are without function assignment.

Overview

Touch-Display - Consumption menu

F2 view

With the function key F2 the consumption menu is called up.

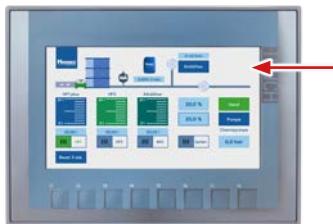


1	Daily consumption	Displays the daily consumption of the machine. The different cleaning agent concentrates are individually documented and can also be reset individually.
2	Current electricity consumption	Displays the current power consumption of the metering pump.
3	Display performance metering pump	Displays the maximum set flow rate of the dosing pump. Field is also used to set the maximum flow rate (4 - 20 mA).
4	Total consumption	Shows the total consumption of the machine since commissioning. Information serves as a basis for maintenance work and control mechanism. Total consumption cannot be reset.
5	Display frother	Displays the consumption of the frother (cleaning agent amplifier) of the machine. At the same time, the field serves to adjust the dosage of the foamer.
6	Display Antimuff	Displays the consumption of Antimuff (fragrance) of the machine. Field also serves to adjust the dosage of the Antimuff fragrance.

Touch-Display - Error messages

Error messages are displayed in the main menu (key F1) shown in the upper right corner. If there is a disturbance with a component, this is shown in the overview for the respective component.

Details on how to fix the errors: see page 11.



Wassermangel	Indicates that the machine's water connection is not in order and/or the fresh water tank is empty.
Reinigungsmittel fehlt	Indicates that the attached cleaning agent concentrate is empty.
	Fault: Indicates that there is a malfunction on the affected part of the machine.

Commissioning

Electrical connection

1 Connecting power cable, 230 V



The MixMaster is turned on when the pictured status display appears on the screen.



Water connection

1 Checking the condition of the water filter

Visual inspection of the water filter for dirt or damage.

If applicable: Clean filter insert or replace filter insert.



2 Connecting fresh water connection:

1. Remove the cap.
2. Connect fresh water hose with GEKA coupling
3. Connect fresh water at the domestic water coupling
4. Fully turn on the domestic water supply.



3 Checking water filling level

If the supply line is connected correctly, the fresh water tank fills automatically.

The filling level can be checked at any time at the viewing window on the left side.



Check filling level before working.

Note: If there is already enough water in the fresh water tank, the system refills fully automatically only if water is needed for mixing during operation.

Connect chemical hose and chemical lance

1 Connecting chemical hose

Fasten chemical hose to the pictured coupling.



2 Connecting chemical hose

Connect chemical lance / chemical gun to the other end of the chemical hose.

Follow the instructions in the instruction handbook of the chemical lance.



ATTENTION: Do not proceed with the further steps of commissioning until the chemical gun is closed. It could unintentionally leak cleaning agent. Contact with the environment can lead to major environmental damage.

Commissioning

Set up canisters and select cleaning agent

1 Installing canister

Place the canisters as shown in one of the two storage areas of the MixMaster.

The example shows the bottom shelf.



2 Opening cap

Open the original cap and keep it ideally to close the canister later.



3 Installing suction hose with check valve

Insert suction hose with check valve into the canister and seal it again.

Due to the oblique position of the canister, the suction hose is in the optimal position of the canister.



4 Connecting suction hose

1. Check whether one side of the suction hose is connected to the connection of the mix master. If not: connect hose.

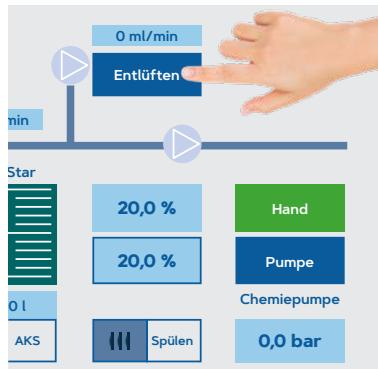
2. Connect suction hose to the canister.



5 Venting

If a new canister is installed, the system must be vented.

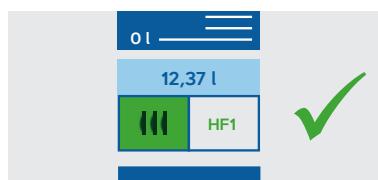
Press the „Entlüften“ button on the touch display and simultaneously trigger the chemistry gun so that excess air can escape from the hoses.



6 Choosing cleaning agent

Select the type of cleaning agent concentrate with the buttons shown.

After selection the button appears "green."



7 Resetting filling level indicator

If a new, unopened, 20 l canister is used, the filling level indicator should be reset to show the correct amount of remaining detergent.

To do so, touch the button "Reset" for at least 3 seconds.



The filling level indicator is correctly reset when the value is 20,00 l.

Resetting is only possible if the respective cleaning agent has been selected before (see step 6).

Commissioning

Adjusting Dosage

1 Adjusting Dosage

Depending on the type of cleaning agent concentrate, different mixing ratios can be set. The given table shows the possible mixing ratios.

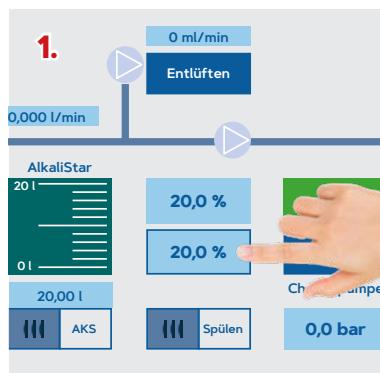
	Adjust Dosage	
	min.	max.
HF1 Plus-5 Konzentrat	20%	30%
HFS-5 Konzentrat	20%	40%
AlkaliStar-5 Konzentrat	0%	50%

2 Adjusting Dosage

1. The dosage can be selected and adjusted with the shown selection area.

2. A numeric input field will appear. The entry has to be confirmed with "Enter".

Above the selection area is the "target value".



Note: There is always the min. or max. possible value for the respective cleaning agent selected.

e.g. if HF1 plus-5 is selected and the input is "50%", the value „30%“ is selected because this is the maximum possible (wise) mixing ratio.

A higher concentration only makes sense in case of a heavy dirt.



Selecting operating mode



Operation modes

Two types of operation modes are available for the pump conveying of cleaning agents:



“Hand” + “Fern”

With “Fern” the integrated pump is activated via the supplied remote control (see image).

1 „Fern“-Control

To use the remote control select the button "Hand" to set the operating mode to "Fern".

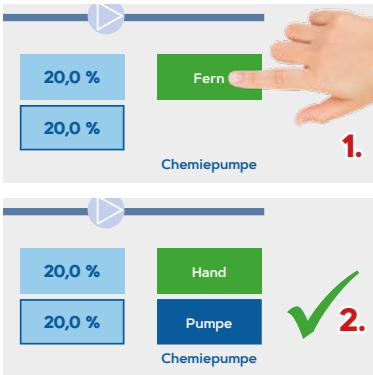
Note: If "Fern" is already visible on the touch display, no further steps are necessary.



2 „Hand“-Control

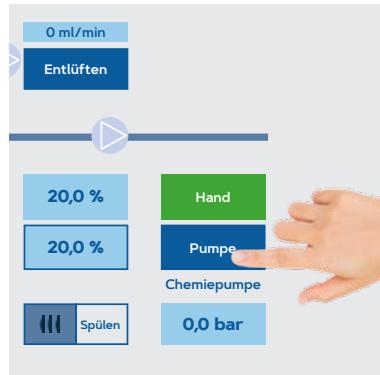
Select „Fern“ to change the operating mode.

The green button shows „Hand“ and the blue button „Pumpe“ appears.



Activation of the integrated pump now takes place exclusively with the button "Pumpe" on the touch display.

If "Hand" and "Pump" are already visible, no further steps are necessary.



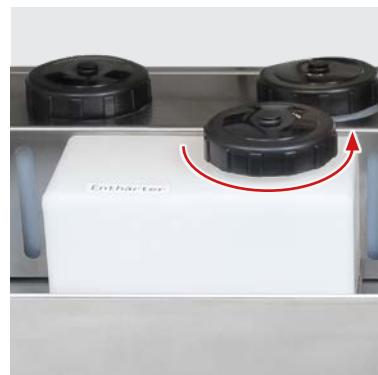
Commissioning

Fill in frother / Antimuff / softening agent

1 The Mixmaster has three tanks on the top side with which different additives can be mixed:
1. HERMES frother
2. HERMES Antimuff
3. Softening agent



2 **Filling in**
Open the black cap for filling in and close again afterwards.



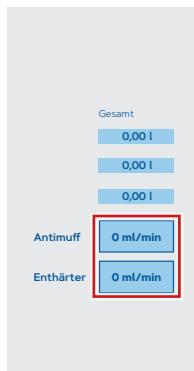
3 Adjusting dosage

The dosage of Antimuff and softening agent can be adjusted on the consumption screen, which is called up with the F2 key.

To do so, select one of the buttons.

A numeric input field appears. The entry has to be confirmed with "Enter".

Note: The softening agent is added automatically (140 ml per 1 litre of fresh water).



Adjusting pressure of chemical pump

1 Adjusting the operating pressure with the pressure-regulating valve

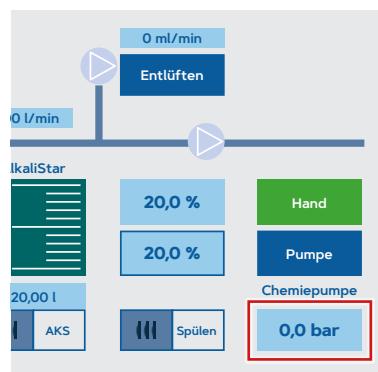
ATTENTION: Do not exceed the maximum permissible pressure of the hoses on the pressure side.

Start with low pressure and increase the pressure if necessary.



2 Monitoring the operating pressure with manometer

The MixMaster is equipped with a digital manometer. The values are shown on the main overview "F1" of the touch display.



Applying cleaning agent

1 Precondition

The previous steps of commissioning were carried out correctly.



2 Activate pump and apply cleaning agent

Depending on which operating mode was selected (see „Adjust operating mode“, p. 8), activate pump.

The cleaning agent is applied by triggering the chemical gun.



Care and Maintenance

After use – Flushing



Residues of cleaning agents can permanently damage the system.

Flush the MixMaster with fresh water after each use.

The MixMaster has a convenient function for flushing all lines. This function only uses the water from the fresh water tank to remove cleaning agent residues or other dirt.

1

Preconditions

- Electrical connection
- Water connection
- Chemical hose and chemical lance/chemical gun are connected

The main menu "F1" is visible on the touch display.

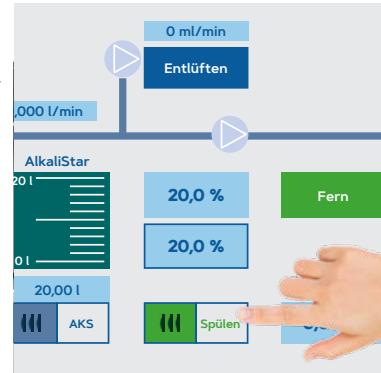
(see „Commissioning“, p. 6-9)



2

Selecting flushing function

Select button „Spülen“ as shown. The system now only pumps water from the fresh water tank.



3

Activate pump and pump water

Depending on which operating mode was selected (see „Adjust operating mode“, p.8), activate pump.

By triggering the chemical gun, water is pumped through the hose lines.



4

Pumping fresh water

Keep the chemical gun pressed until only water is pumped.

In addition, continue to pump water for a while to make sure all cleaning agent residues or pollution are removed from the lines.

Storage



Risk of frost

After use, small amounts of water remain in the system components of the systems, which cannot be removed without great effort.



Due to the increase in volume, which occurs when water is frozen, significant damage to the components can occur. For this reason, the system must NOT be used at temperatures below 0 °C and must be stored frost-proofed (e. g. in a frost-proof garage or in a heated hall).

Storage

- Store the machine frost-proof to avoid significant damage
- Store the machine protected from sunlight!
- Store the machine protected from moisture!
- Store the machine at air temperatures between +5 °C to +35 °C, ideally between +18 °C and +20 °C!
- Store the machine at a humidity of 45% to 60%!

Errors and Causes

Errors

The touch display does not turn on;
The system is switched off

The error message „Wassermangel“ is displayed on the touch display.

The error message „Reinigungsmittel fehlt“ is displayed on the touch display

Manometer on MixMaster shows only low pressure
The cleaning agent leaks out intermittently

Control of the chemical pump does not work with the remote control

There is no cleaning agent at the chemical lance, despite running chemical pump and full pressure display at the manometer

Causes and troubleshooting

Electrical connection (230 V) is interrupted
-> Check electrical connection of the MixMaster

One Fuse is released
-> Check fuses

**The touch display has a defect OR
The transformer has a defect**
-> Contact technical service: +49 2723 92852-15

Check domestic water connection
-> Is the tap turned on? Is water coming in? Connections properly connected?

The pre-filter has clogged
-> Clean pre-filter or replace filter insert

The pressure of the water inlet is too low
-> If possible, use another fresh water pipe

The connection hose to the canister is not connected
-> Affiliate connection hose

The canister is empty
-> Insert a new canister with cleaning agent
-> The MixMaster must be vented because air may be in the hoses

Suction filter including one-way valve is not on the bottom of the canister
-> Check position, the suction filter must be on the floor of the canister

Suction filter including one-way valve is clogged
-> Check the filter and clean it if necessary

**The conveying pump or the chemical pump has a defect OR
The recirculating valve is dirty or calcified OR
The valves of the conveying pump are jammed or defective**
-> Contact technical service: +49 2723 92852-15

Suction filter including one-way valve ist clogged
-> Check the filter and clean it if necessary

There's still air in the hoses
-> Use the venting function of the MixMaster, see page 7
-> Trigger chemical lance until cleaning agent leaks

The conveying pump or the chemical pump has a defect
-> Contact technical service: +49 2723 92852-15

Manual control ("hand") on the touch display has been selected
-> Touch the "Hand" control button again to switch to "Fern".
This selects the remote control, see page 8 „operating modes“.

Distance too large (max. 300 m)
-> Reduce distance or use manual control

Batteries of remote control are empty
-> Replace batteries

Water has ingressed to the remote control
-> Remove batteries and let the remote control dry,
use manual control in the meantime; re-connect batteries after dry

Defect remote control
-> Exchange remote control

There's still air in the hoses
-> Use the venting function of the MixMaster, see page 7
-> Trigger chemical lance until cleaning agents leaks

The nozzle of the chemical gun is clogged
-> Clean or replace nozzle

Hose is bent or defective
-> Check hose lines, replace defective hoses

Hose connections not properly connected
-> Check all screwed connections



HERMES MixMaster

Type	MixMaster
Capacity	
Chemical pump	30 bar 7,2 ltr/min
Empty weight	154 kg
Operation voltage	230V/50Hz
Connection load	16A

Tank volume

HF1 plus-5 concentrate	20 ltr
HFS-5 concentrate	20 ltr

BEST QUALITY
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