

Heaty Filtra Advanced № 2

Cleaning and filtration



These operating instructions are based on the appliance versions from 01.01.2023 (technical data). The technical information is not affected by this and is valid immediately.

Technical Data

| Heaty Filtra Advanced № 2 | |
|--|----------------------|
| Max. Filtration capacity at <math><1\mu\text{m}</math> | 3,600 l/h |
| Max. Flow pressure | 6 bar |
| Max. Operating temperature | 80 °C |
| Magnetic field strength (Gauss) | 11 x 12,000 |
| Height / width / depth (approx.) | 1,170 / 480 / 470 mm |
| Power connection | 230 V |

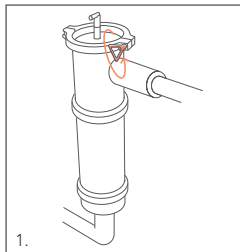


Please note: The medium used must not be volatile (hot water up to 99 °C).

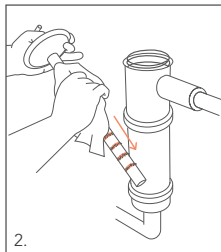
Operating the pump switch (On / Off)

If the switch is pressed, the switch lights up white and the pump is switched on. If the switch is not illuminated, the pump is switched off.

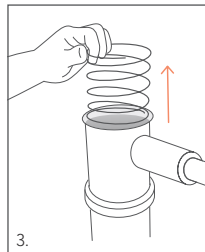
Maintenance of the dual filter MAGella twister10



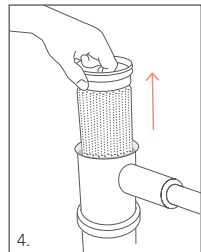
1. Close the inlet and outlet fitting. Open the KFE tap to release the pressure. Then open the bleed tap at the top of the filter. Unscrew the wing nut and remove the cap.



2. Remove the magnetic rod and clean it with a cloth, for example.



3. Then remove the pressure spring and clean it with water if necessary.



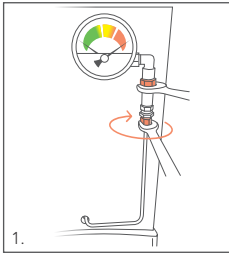
4. You can now remove and replace the basket with the fine filter bag.

Assembly is carried out in reverse order.

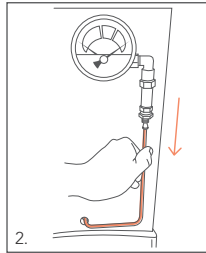
The twister insert on the magnetic rod should be directed towards the input to achieve the highest capacity.

Replacement filter for Twister 10 = Art. No. 100451.

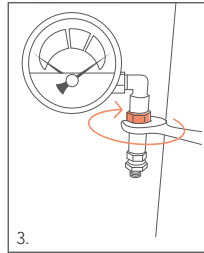
Cleaning the pre-filter of the filter capacity indicator



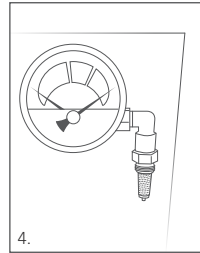
1. Loosen the lower screw connection. Secure the upper union nut with a spanner.



2. Remove the pipe by pulling gently.



3. Loosen the union nut on the O-ring and unscrew it.



4. Clean the 20 µm filter with compressed air. Blow out the union nut. You can also clean the protruding magnetic separator with a cloth. Reassemble the pre-filter in reverse order.

Integration of the Heaty Filtra Advanced № 2 into the heating circuit

1. Connect the device to two suitable points in the system to channel a partial volume flow through the device. If the full filtration capacity is required, the inlet hoses and outlet hoses must be connected.
2. Fully open all shut-off devices and HK valves.
3. Set the system temperature to max. 80 °C.

NOTES

Please note the following connection options:

If one input is used, only one output may be used.

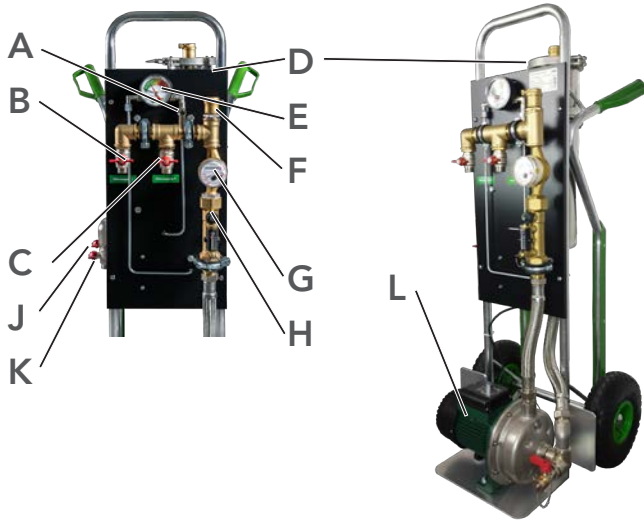
If two inputs are used, both outputs may be connected.

This allows you to achieve the maximum filtration of approx. 3,600 l/h.

As the duration of successful filtration depends on the degree of soiling, the filter must be checked regularly. Please observe the filter capacity indicator.

Caution: The fittings can become hot during operation. Risk of burns!

The device at a glance

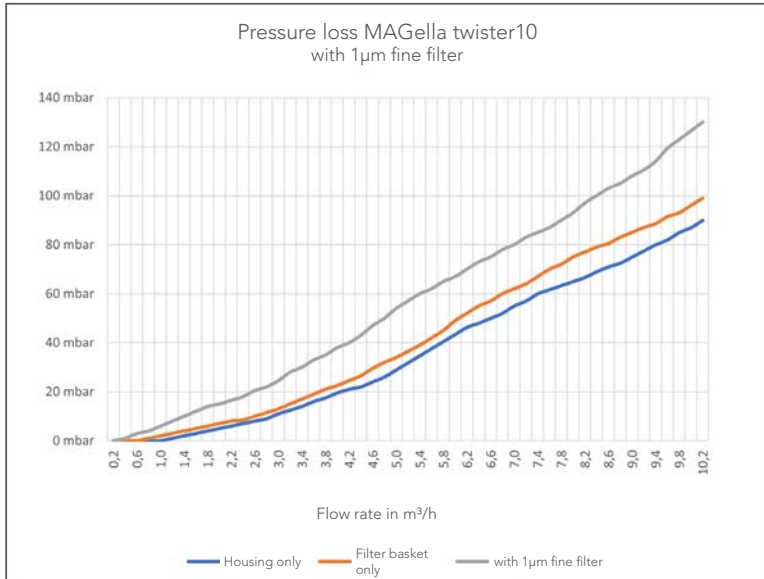


Overview of the components of the device

- A Filter for the capacitance display
- B Output 1
- C Output 2
- D Dual filter MAGella twister10
- E Filter capacity indicator
- F Air vent
- G Water meter for documenting the amount of water filtered
- H Regulating valve for the flow rate
- J Inlet 1
- K Input 2
- L Pump

Characteristic curve

The flow resistance diagram of the dual filter shows the following characteristic curve:



Technical data

Max. Operating pressure: 8 bar

Max. Temperature of the liquid: 95 °C

Max. Ambient temperature: 40 °C (for 40 - 40 °C see "Electrical connection")

Max. hourly start-up frequency: 40

Filling (Fig. 3)

The pump body and the suction line are filled through the corresponding plug and the existing air is emptied.

Maintenance

Any intervention on the pump must only be carried out by specialised personnel after disconnecting the pump from the power supply. The pump does not require proper maintenance.

Safety instructions

- FIG. 6** Observe the technical data! Improper use of the pump can lead to damage to the pump itself or to property damage and personal injury.
- FIG. 7** The pump is not suitable for highly flammable or hazardous liquids.
- FIG. 8** Ensure that the voltage stated on the data plate corresponds to the mains voltage.
- FIG. 9** The mains connection and earthing must be carried out by qualified personnel (authorised electrician) in accordance with national installation regulations.
- FIG. 10** The mains connection must be made using an all-pole switch with a distance of at least 3 mm between the contacts. A highly sensitive differential switch (0.03 A) must be installed as additional protection against fatal electric shocks.
- FIG. 11** Unauthorised persons must be denied access to the pump!
- FIG. 12** Switch off the power supply or remove the plug from the socket (if the model is fitted with a plug) before carrying out any maintenance or cleaning or before transporting the motor pump. If the supply cable is damaged, it must be replaced by qualified personnel in order to prevent accidents.

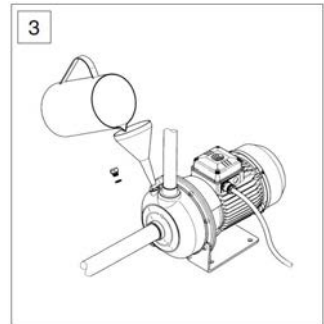


FIG. 13 Use the pump in accordance with the technical data.

FIG. 14 The pump must not be operated with closed nozzles.

FIG. 15 Be aware of the dangers caused by accidental leakage!

FIG. 16 Protect the pump from the weather!

FIG. 17 Watch out for frost formation!

FIG. 18 Check the self-ventilation of the motor.

Caution: The motor can reach a temperature of 70 °C.

Damage search

The pump does not start:

- Ensure that voltage or the mains connection is present. If the circuit breaker or automatic mains switch has tripped, they must be reset.
- The thermoamperometric protection device built into the AC versions may have intervened. This is automatically restored once the motor has cooled down.

The motor starts but the pump does not deliver:

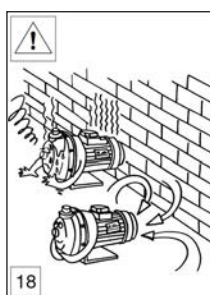
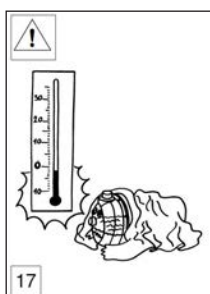
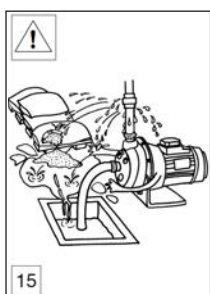
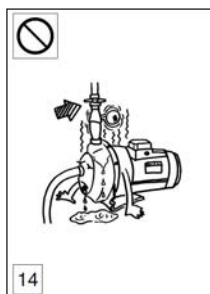
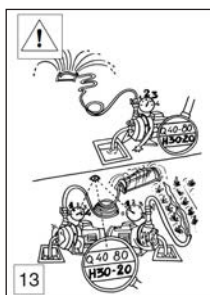
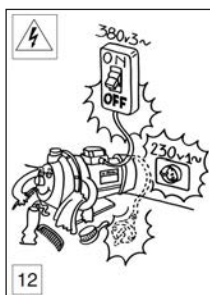
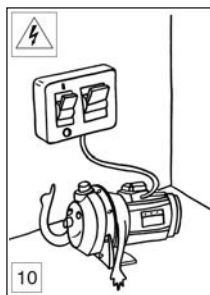
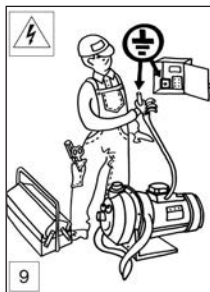
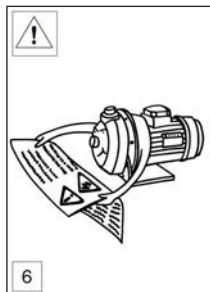
- The pump is sucking in air: Check the fluid level, seal or suction line and base valve for any damage.

The pumping capacity is impaired:

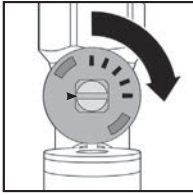
- Ensure that there are no bottlenecks. Check the direction of rotation of the three-phase pumps.

The pump stops occasionally:

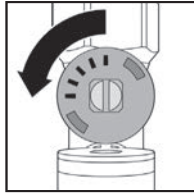
- Intervention of the thermoamperometric protection device (AC version) or the thermal relay due to excessive current consumption: Contact an authorised customer service centre..



Complete closing / opening of the valve



Closing

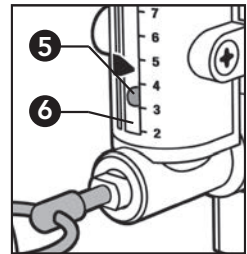
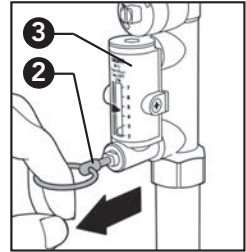
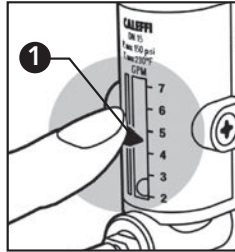


Opening

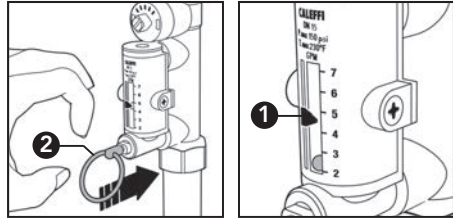
Regulating the flow rate

Proceed as follows to regulate the flow rate:

1. Use the display (1) to note the reference flow rate to which the valve is to be set. 2.
2. Use the ring (2) to open the gate valve, which under normal conditions prevents the medium from flowing through the flow meter (3).
3. Hold the slide open and make the setting on the valve control spindle (4) with a 9 mm spanner for sizes from 1/2" to 1 1/4" or with a 12 mm spanner for sizes from 1 1/2" to 2". The set flow rate is indicated by the metal ball (5) in a transparent guide (6), next to which there is a scale on which the value can be read in litres per minute.



4. After adjustment, release the ring (2) of the flowmeter slide valve again; a built-in spring b ensures that it automatically returns to the closed position.
5. The display (1) can be used to memorise the setting made for later checks.



Safety instructions

If the line regulating valves with built-in flowmeter are not installed, commissioned and maintained correctly as described in these instructions, they may not function correctly and pose a risk to the user.

Remove any deposits, rust, incrustations, welding residues and other impurities from the lines.

As in any hydraulic circuit, particular attention must be paid to cleaning the entire system. Check the tightness of all connection fittings. For optimum operation, the air contained in the medium must be drained.

Due to the high compressibility of air, leak tests with compressed air on the entire system and especially on the valves are not recommended for safety reasons.

When designing the hydraulic connections, care must be taken to ensure that the thread of the valve housing is not mechanically overstressed.

Over time, damage can occur with leakage losses and resulting damage to property and/or personal injury.

Water temperatures above 50°C can lead to severe scalding. During installation, commissioning and maintenance of the valve, the necessary precautions must be taken to ensure that these temperatures cannot endanger persons.

Use for purposes other than those for which it is intended is prohibited.

1. The heat systems must comply with the recognised state of the art
2. The current regulations for the construction, commissioning, design and filling of heat systems must be observed.
3. A minimum flow pressure of 1.5 bar is required for proper operation of the UWS appliances.
4. Deionised water can cause existing layers of limescale to be removed. Any resulting damage is due to the existing deposits on the material and not to the demineralised water.
5. The heat systems must always be flushed and cleaned in accordance with EN 14336 (DIN / Ö-Norm / SN).
6. If the system still contains residues of additives of any kind, in particular acids such as glycol, cleaning agents, etc., UWS cannot guarantee compliance with the reference values.
7. If microbiological or bacterial infestation is present, UWS cannot guarantee compliance with the reference values.
8. All UWS systems are only frost-proof if the residual water has been completely drained. No guarantee can be given.
9. The installer is responsible for keeping the system log in accordance with VDI 2035 / SWKI 97.
10. UWS accepts no liability for application errors on the part of the installer.
11. The UWS system technology may only be operated by a specialised installer.

OUR WATER. SAFE.

Your contact:

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Version 1.1

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