

magnetic

Drinking water filter

Operation manual



Domestic water station HWS-1

Backwash filter TWF-1

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magnetic GmbH & Co. KG
Am Richtbach 5
D-74547 Untermünkheim

Tel. +49 7944 94199-0
Fax +49 7944 94199-19

info@magnetic-online.de
www.magnetic-online.de

Managing partner:
Michael Bader

VAT ID No.: DE 255 018 730
Commercial register: HRA 571362
Reg. Ger. Stuttgart

Version: TWF_ENG_03.2021



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General information

The magnetic drinking water filter must be installed by an approved specialist in the plumbing and heating industry. Inspect the device for transport damage immediately upon receipt. The drinking water filter must be protected against frost and must not be installed in the immediate vicinity of heat sources with high radiation temperature.

Scope of delivery

magnetic backwash filter TWF-1 consisting of:

- Backwash filter
- Connection flange including seal
- Screw connection including screws and nuts
- 1" / 1 1/4" screw connection

magnetic domestic water station HWS-1 consisting of:

- Domestic water station
- Connection flange including pressure reducer and seal
- Flange screw connection including screws and nuts
- 1" / 1 1/4" screw connection
- 2x manometer

Intended use

The magnetic drinking water filter is intended for the filtration of drinking water. It protects water pipes from malfunctions and corrosion damage from foreign objects such as rust, sand or chips.

The filter cannot be used with chemical-treated circulating water. It is not suitable for oils, greases, solvents, soaps and other lubricants, or for removing water-soluble substances.

Requirement for the installation site

Local installation regulations, general guidelines (e.g., WVU, DIN, DVGW or ÖVGW or SVGW) and technical data must be observed. The installation site must ensure that the filter is protected from chemicals, dyes, solvents, vapours and direct sunlight. Observe flow direction (marking on the flange) and install free of stress. The installation site must be frost-proof. The filter must be installed in pipelines of the same size according to its nominal size. A sewer connection according to DVGW or a corresponding collecting vessel (e.g., a bucket) must be available for the drainage of the rinsing water.

The discharge takes place in accordance with DIN 1988 Part 4, e.g., freely into the floor drain, into the sewer connection or the collecting vessel. Ensure that the flushing water is drained without backflow.

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Installation

Please note the installation diagram for installation. Firmly connect the filter with the connection to the threaded socket on the water supply network. Use the enclosed nuts and screw connections for this. The arrow stamped on the rotary connection (Fig. 1 + 2) must point in the direction of the water flow. Thanks to the brass connection that can be rotated 360°, the filter can be mounted on both vertical and horizontal lines. The filter must always be installed in the hanging position. Ensure that the seal between the flange and filter unit is properly seated.

Note: Tighten the nuts crosswise!

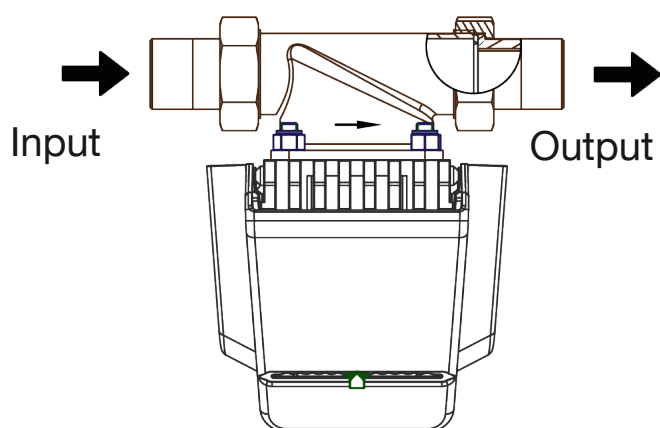


Fig. 1 backwash filter
Water flow direction

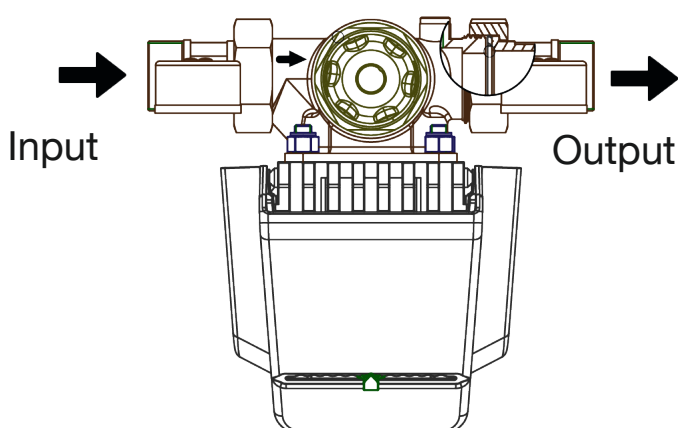


Fig. 2 Domestic water
station

Start-up

After the magnetic drinking water filter has been installed, you can put the backwash filter into operation by slowly opening the shut-off valves. The pipeline must then be vented via the nearest connection. The magnetic drinking water filter must be checked for leaks after installation and after every maintenance. To do this, use the highest possible operating pressure and visually check the filter for leaks.

Pressure reducer

The pressure reducer is set to 4 bar at the factory. After starting the magnetic drinking water filter (domestic water station HWS-1), the pressure reducer component can be set individually (4 bar is the factory setting). The pressure can be continuously adjusted between 1 and 6 bar by turning the setting ring. The set pressure can be read in steps of 0.5 bar on the manometer.

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Maintenance

Maintenance includes periodic backwashing to remove floating dirt particles, silt, sand, etc. from the filter cartridge.

It is recommended to backwash at least once a month. The arrow in the month bar signals the next backwash period and must be adjusted to the next date after backwashing.

Backwash

A backwash must be carried out if the water pressure in the pipe network decreases due to increasing contamination of the filter element. Place a bucket under the filter (only for installation without duct connection). Then turn the flushing handle in the direction of the arrow up to the stop (Fig. 3 + 4). The flushing handle should be held in this position for approx. 5-10 seconds.

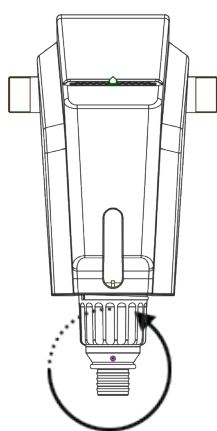


Fig. 3 Turn the flushing handle of the backwash filter to the right

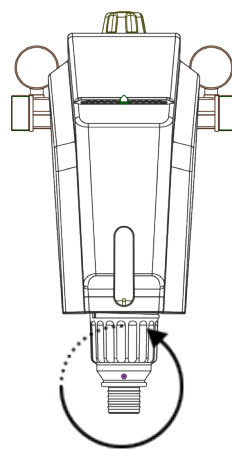
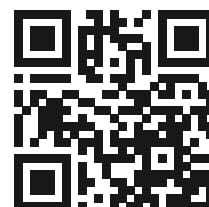


Fig. 4 Turn the flushing handle of the domestic water station to the



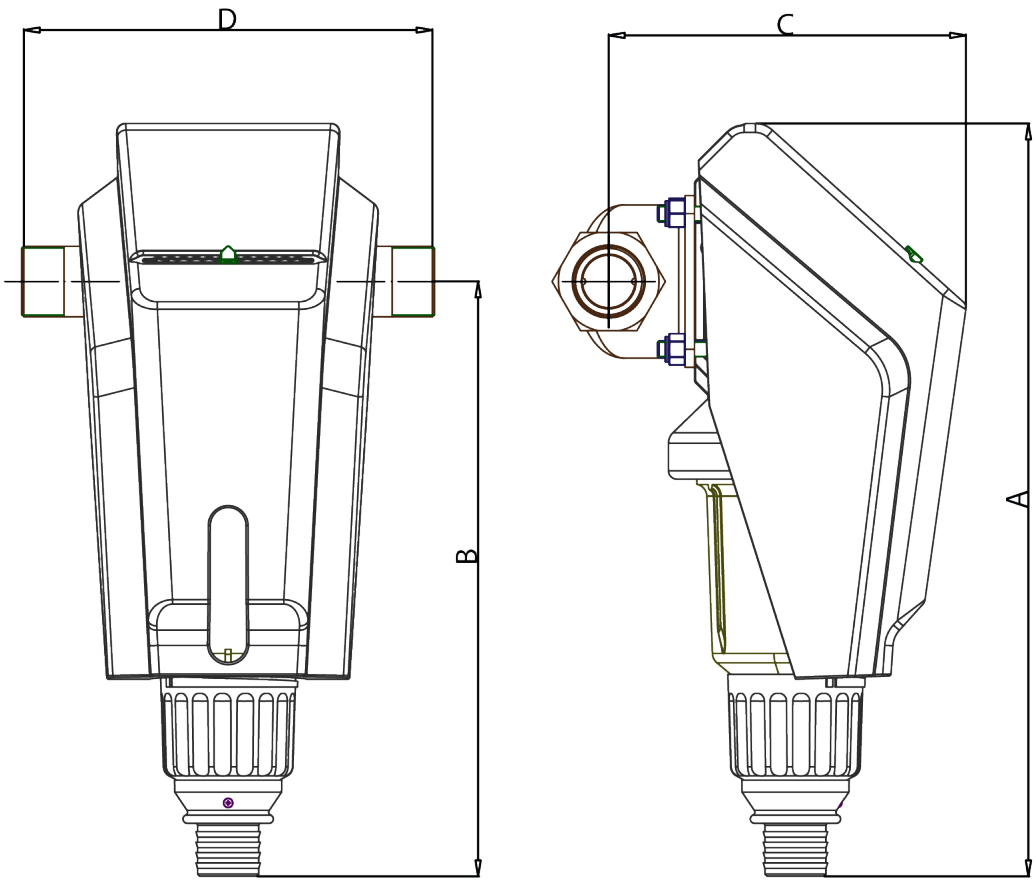
Backwash instructions

Technical specifications

	Backwash filter		Domestic water station with Pressure reducer	
Item number	888 700	888 702	888 710	888 712
Connection	1" / DN 25	1 1/4" / DN 32	1" / DN 25	1 1/4" / DN 32
Flow rate at Dp 0.2 bar m ³ / h	4.8	5.4		
Flow rate at Dp 0.5 bar m ³ / h			3	3
Nominal pressure PN	16	16	16	16
Pressure area	-	-	1-6	1-6
Connection nominal size DN	25	32	25	32
Water/ambient temperature, max °C	40	40	40	40
Weight in kg	2.77	3.02	3.94	3.97
Mesh size in µm	89	89	89	89
DVGW registration number	DVGW requested			

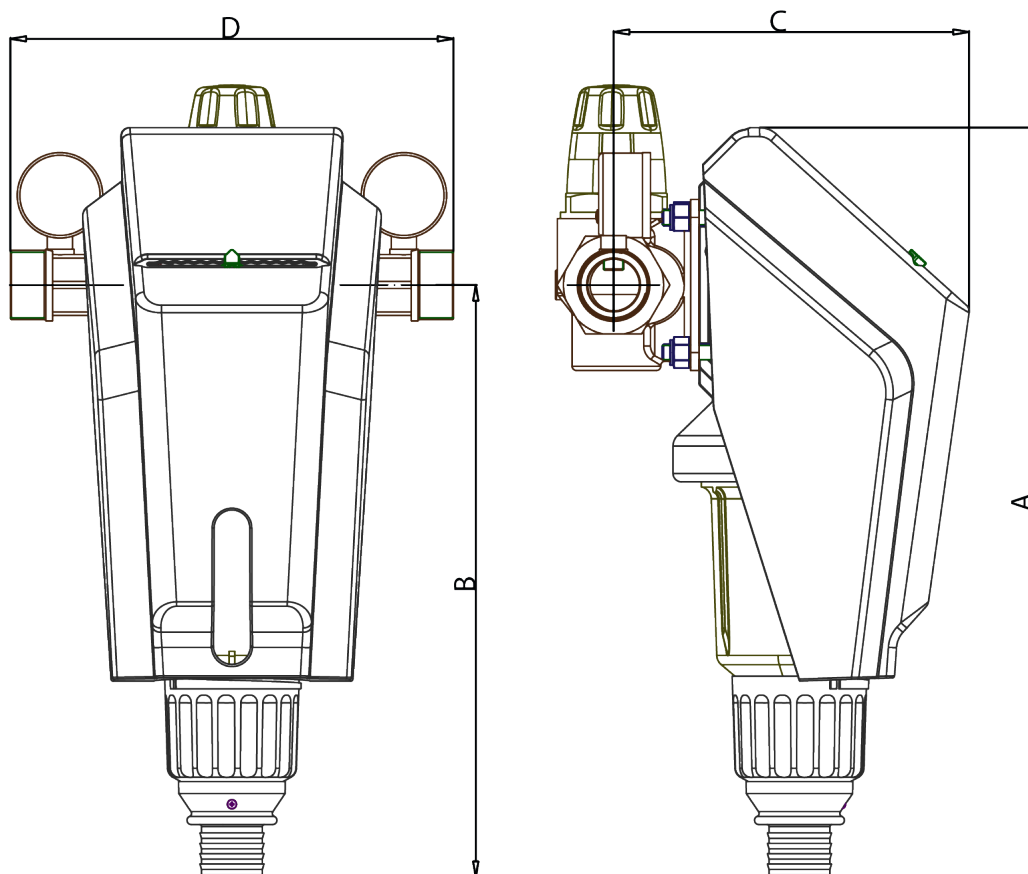
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Dimensions



Backwash filter
(TWF-1)

		1"	1 1/4"
A	Total height	[mm] 355	355
B	Installation height up to the middle of the connection	[mm] 281	281
C	Installation depth up to the middle of the connection	[mm] 167	167
D	Installation length with/without screw connection	[mm] 183 / 110	188 / 110



Domestic water station (HWS-1)

			1"	1 1/4"
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B	Installation height up to the middle of the connection	[mm]	281	281
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D	Installation length with/without screw connection	[mm]	215 / 112	223 / 112

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