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TECHNICAL DATA SHEET

Ref: 5392114120
Magnetic filter for heat pumps



PRODUCT DESCRIPTION

Dirt separator filter designed for heating circuits and heat pump systems. It combines a powerful 1,2 T magnet with a stainless steel filter mesh to attract, capture and separate metal particles and other impurities in the fluid.

The lower chamber collects debris for easy discharge. The 360° swivel connection accommodates horizontal or vertical pipework while keeping the body upright.

Applications and benefits

Recommended applications

- Heat pump heating circuits.
- New or existing installations.
- Systems using water or water/ethylene glycol mixtures.
- Preferably installed in the return pipe.

Key benefits

- Magnetic capture of ferrous particles.
- Mechanical separation through an internal mesh.
- Low pressure drop and high Kv.
- Quick bottom discharge and easy maintenance.
- Removable valves and 360° swivel connection.

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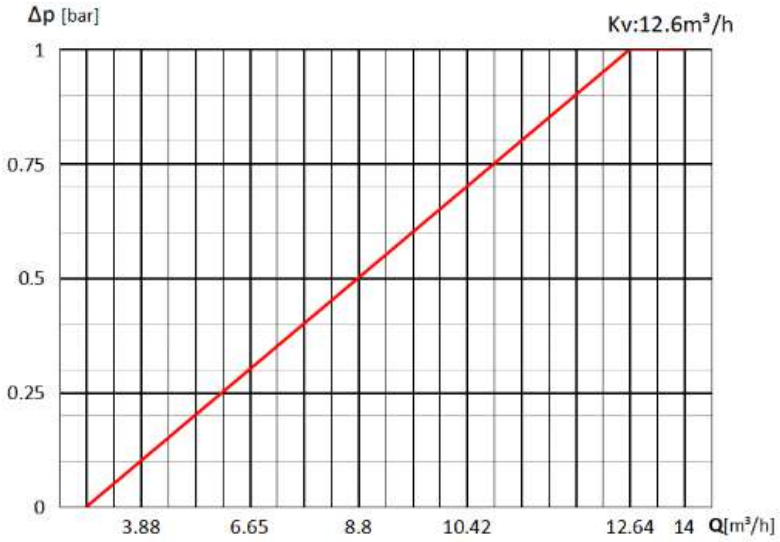
Technical specifications

Parameter	Specification
Compatible fluid	Water or ethylene glycol solution, maximum concentration 30 %
Maximum operating pressure	5 bar
Operating temperature	0 to 90 °C
Magnetic strength	1,2 T
Available connections	Ø 28 mm, Ø 35 mm and G 1 1/4"
Flow coefficient	Kv 12,6 m³/h
Connection orientation	360° swivel

Component	Material
Main body	PA66-GF30
Connection cover	PA66-GF30
Internal separator mesh	AISI 304 stainless steel + PA66-GF30
Connection valve	CW617N-4MS brass
Seals	EPDM

Dimensions and pressure drop

PRESSURE DROP CURVE

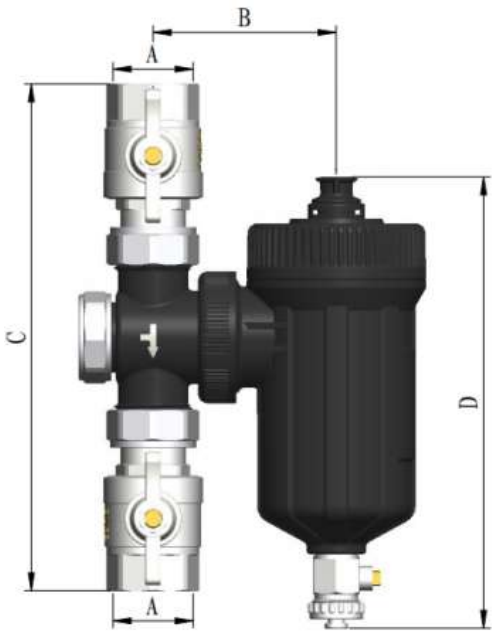


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Dimensions

Reference	Connection	A (mm)	B (mm)	C (mm)	D (mm)
5392114120	1 1/4"	96	95	269	237

DIMENSIONAL DRAWING

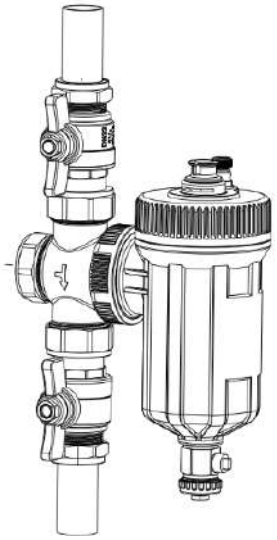


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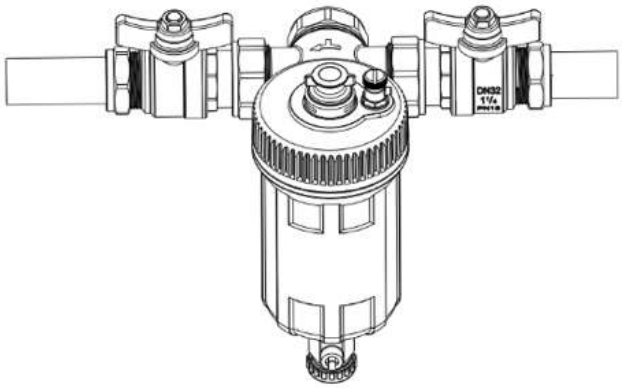
Installation

1. 1. Check that circuit pressure and temperature are within the specified limits.
2. 2. Install the filter preferably in the system return pipe.
3. 3. Follow the flow direction indicated by the arrows on the body.
4. 4. Align the inlet and outlet valves to suit the horizontal or vertical pipework.
5. 5. Always keep the main body upright.
6. 6. Check all joints for leaks before commissioning the system.

VERTICAL PIPEWORK



HORIZONTAL PIPEWORK

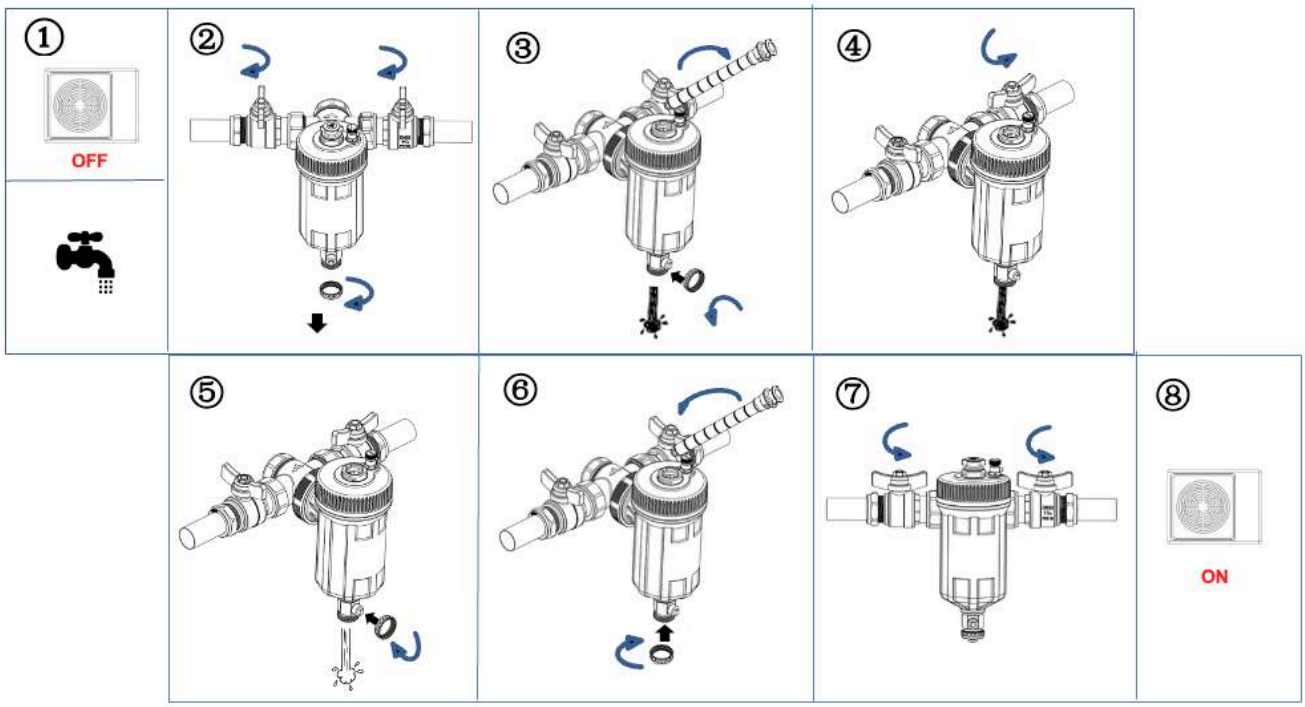


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Cleaning and maintenance

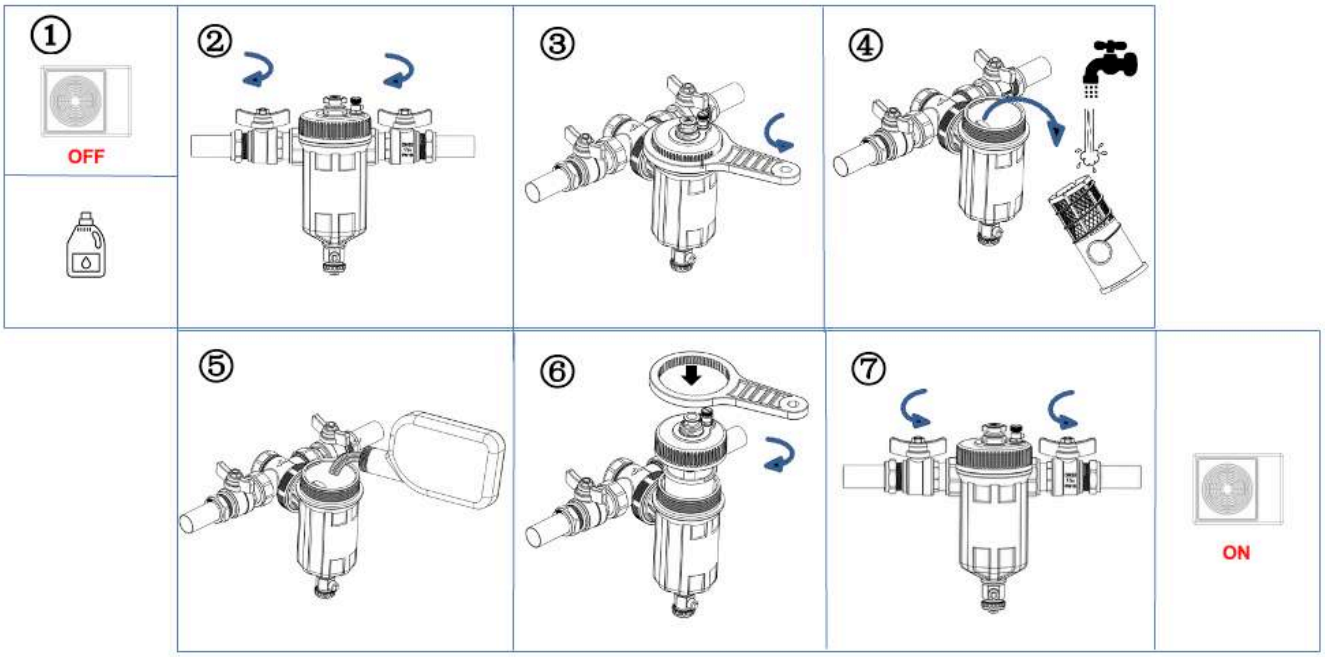
Operation	Frequency / procedure
Flushing and draining (FIGURE 1)	Every 1–3 months, depending on water quality. Close the valves, release the pressure and discharge debris through the bottom valve.
Inspection	Every 3 months. Check for leaks and inspect connections and overall condition.
Mesh cleaning (FIGURE 2)	If performance drops after flushing, close the valves, remove the cover and take out the mesh. Rinse with clean water or clean with a soft brush.
Adding treatment products (FIGURE 2)	With the circuit isolated and depressurised, open the top cover, add the cleaning or protective product and close securely.
Extended shutdown	Flush the filter and drain all water from it.

FIGURE 1



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FIGURE 2



Safety warnings

- This unit contains powerful magnets. Keep away from pacemakers, implanted cardiac devices, electronic equipment and precision instruments.
- Before installing or servicing the filter, close the valves and fully depressurise the pipework.
- Do not exceed the specified pressure, temperature or glycol concentration limits.
- After any work, check that the cover, mesh, drain valve and connections are correctly fitted and secured.