



SILVERMAG MAX

MAGNETIC AND PARTICULATE
SYSTEM FILTER 1"

EN

INSTALLATION AND
OPERATING INSTRUCTIONS

BEFORE YOU BEGIN. PLEASE READ THESE INSTRUCTIONS CAREFULLY.

The following instructions have been written to help you to install and service the BWT SILVERMAG MAX magnetic and particulate system filter safely and efficiently. We recommend that the unit is installed and serviced by a qualified installer or a competent person with the necessary and appropriate training at all times.

CAUTION



Strong Neodymium magnet - KEEP AWAY from electrical and magnetic devices including but not limited to computers, mobile phones, medical devices, watches and bank cards.



High Pressure - Always release any pressure in the device before servicing.



High Temperature - Risk of scalding handle with care unit can get hot when in service.

Important - Always follow the electrical and safety standards when installing the BWT SILVERMAG MAX ensuring pipe work is adequately supported and appropriately earth bonded.

DESCRIPTION

The BWT SILVERMAG MAX magnetic and particulate system filter is a nickel-plated brass filter used to protect piping systems from impurities and metallic particles.

Its stainless-steel mesh traps larger particles, while its neodymium magnetic rod captures metallic debris, effectively protecting the generator (boiler or heat pump) and the HVAC circuit from damage caused by impurities. This ensures both the longevity of the equipment and the energy efficiency of the system. Its 1" connection makes it compatible with floor-standing boilers and heat pumps. The 360° nut allows for both vertical and horizontal installation.

TECHNICAL FEATURES

COMPOSITION AND DIMENSIONS

1. Inlet/Outlet 1" male (nickel-plated brass). Connection for the 22 mm or 28 mm valves, that can be positioned either vertical or horizontal.
2. Drain valve (nickel-plated brass).
3. Magnetic rod (Neodymium magnet with a power of 12,000 Gauss).
4. 800-micron stainless steel filtration mesh.
5. 360° rotated nut.
6. Screw connection between the upper and lower sections. .
7. Sediment chamber.
8. Air vent.

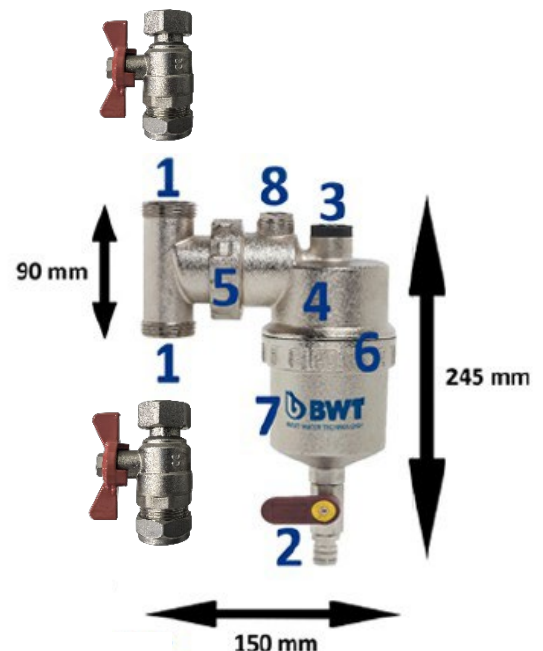
Weight: **3 kg** / Max pressure: **10 bar**

Max temperature: **80°C** / Max flow rate: 4 m³/h

Note: The thermowell is made of stainless steel and the seals are EPDM.

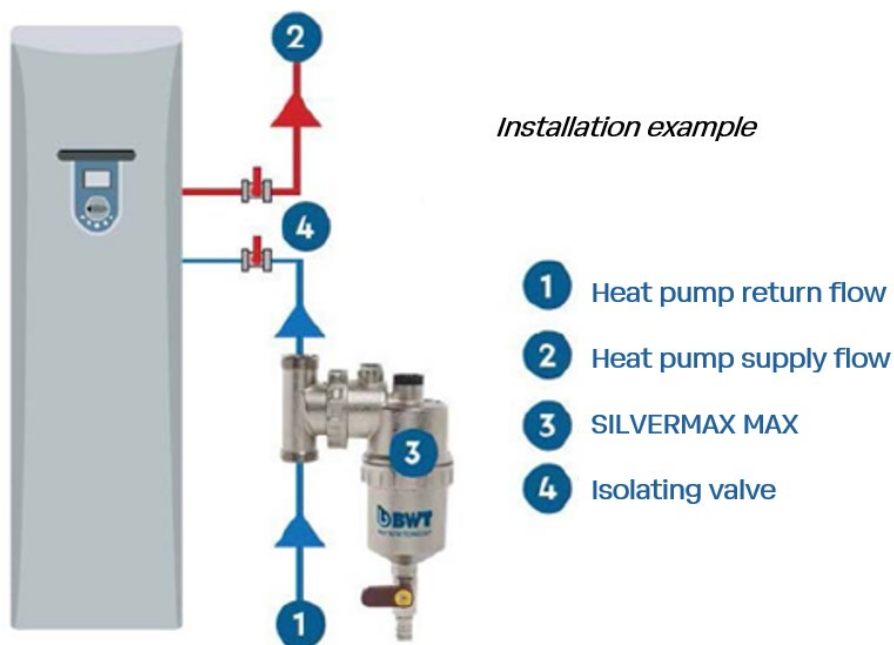
PRINCIPLE OF OPERATION

Water enters via the valves (1). A flow direction arrow on the 360° rotated nut shows the water flow direction to ensure proper operation. Metallic particles in the water are attracted and captured by the central magnetic rod casing (7). Other impurities are retained by the stainless-steel mesh filter and directed to the sediment chamber. Note: The design of the BWT SILVERMAG MAX filter prevents metallic particles from entering the filtration compartment (5).



INSTALLATION

1. Unbox the Filter, check all the components are present.
2. Switch off the electrical supply to the pump and boiler, and then partially drain the system.
3. Select a suitable configuration (vertical or horizontal) and a length of pipework where you would like to install the filter. Ideally this should be on the return to the boiler. Once installed this will help prevent any collected debris entering the boiler.
4. Measure and mark the pipe, then remove this section using a suitable pipe cutter, de burr if necessary.
5. Attach the filter to the pipe either side of the cutout ensuring both ends are fully engaged before tightening with a suitable spanner.
6. Ensure the filter sits square and it and the associated pipework is suitably supported on both sides
7. Always check the level of scale and corrosion inhibitor in the heating system after installation and re-dose with BWT Power Crystals if levels of protection are low or unknown.
8. Recharge and pressurise the system, start the boiler and check for leaks.



MAINTENANCE

Regular cleaning is recommended at least during each boiler service and can be done more frequently if necessary. Maintaining the sludge filter is straightforward and the drain valve allows for quick discharge of accumulated impurities. The filter can also be disassembled to clean the mesh filter, magnetic rod casing, and interior by following the instructions below.

1. Shut off the upstream inlet valve (1)
2. Release the pressure by opening the drain valve (2), Place a container under the valve to catch any water.
3. Unscrew the nut (6)
4. Remove the filter assembly, unscrew magnetic rod cap (3) and wash the mesh.
5. Reassemble in reverse order and close the drain valve before opening the inlet valve.

ADDITIONAL CLEANING

A backwash cleaning can be performed if needed. Turn off the boiler temporarily, close the inlet valve, remove the magnet, open the water return valve from the system, and open the sludge separation drain valve. Let water flow until it runs clear, then close the valves.

Note: We recommend that the filter is drained, cleaned and any maintenance is carried out by your installer at least every 12 months during your annual boiler service or more frequently if any clogging is observed.

Product Name	Product Code	Description	Accessories included
Silvermag MAX	SMMAX	SILVERMAG MAX MAGNETIC AND PARTICULATE SYSTEM FILTER 1"	
Silvermag MAX 22	SMMAX22	SILVERMAG MAX MAGNETIC AND PARTICULATE SYSTEM FILTER 1" plus 2x 22mm valves	2x 22mm valves
Silvermag MAX 28	SMMAX28	SILVERMAG MAX MAGNETIC AND PARTICULATE SYSTEM FILTER 1" plus 2x 28mm valves	2x 28mm valves
Silvermag MAX PRO	SMMAXPRO	SILVERMAG MAX MAGNETIC AND PARTICULATE SYSTEM FILTER 1" plus 2x POWER CRYSTALS PROTECTOR VALUE PACK	2x POWER CRYSTALS PROTECTOR VALUE PACK
Silvermag MAX PRO plus	SMMAXPROPLUS	SILVERMAG MAX MAGNETIC AND PARTICULATE SYSTEM FILTER 1" plus 1x Limebeater 22mm and 2x POWER CRYSTALS PROTECTOR VALUE PACK	1x Limebeater 22mm 2x POWER CRYSTALS PROTECTOR VALUE PACK

WARRANTY

The BWT SilverMag MAX is guaranteed against faulty workmanship and materials for a ten-year period. The guarantee is only valid if the product has been installed and used in accordance with the manufacturer's instructions and has not been dismantled or interfered with in any way. Please register your product by calling 01494 838 100 or visiting www.bwt.com.

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