



Thank you for choosing one of our products

GENERAL

In heating installations control systems with metallic pipes, the circulation of water containing impurities such as rust and sand that are formed due to corrosion with a result of rapid wear and damage to components. It also causes blockages in the heat exchangers, heating elements and pipes, resulting in a lower thermal efficiency within the system.

In general a "dirty" system causes a reduced performance of the radiator panels, increase in consumption and increase at the cost of the function and reduction to the life time of the system. Targeting in solving the problems of the circulating impurities the Smart Magnetic Filter is necessary in every heating application for the protection of the wall mounted natural gas boilers

SPECIAL FEATURES

Operating Temperature	0 - 95 °C
Maximum Operating pressure	6 bar
Compatible Fluid	water, water & glycol
Magnets	Neodymium N48
Filter Cartridge	AlSi304 (800µm)
Chamber capacity	180 ml
Connections	ISO 228 / (3/4" M. x 3/4" Fem.)

	CODE: 2019		CODE: 2020
	Connection		Connection
	3/4" M. x 3/4" Fem.		3/4" M. x 3/4" Fem.
Guarantee		Guarantee	
10 years		10 years	

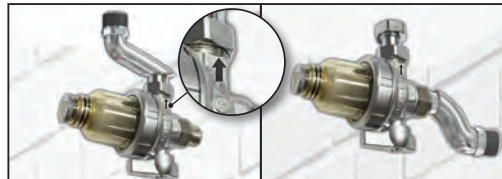
APPLICATION

Smart Mag Filter from Brass Form is the ideal solution for heating systems with gas installation (with a cluster of propane cylinders or tanks in areas where is no natural gas network) for the protection of the wall mounted natural gas boiler. The filter provides complete protection by **effectively combining two stages of cleaning** with the action of **a powerful neodymium magnet and a stainless - filter** so as to trap both metallic and non-metallic impurities circulating in the water of the closed system before damaging the boiler

Smart Mag-Filter (126mm length) is an ideal solution for wall mounted natural gas boilers in areas where there is **limited space**. The detachable neodymium magnet mounted inside the flow chamber retains effectively all metal particles, the liquid then passes through the stainless filter, which traps all the non-metallic impurities. **The embedded ball valve** makes the cleaning and the maintenance of the filter extremely easy since it provides the maintenance possibility with **no need of uninstall the filter form the heating application**.

INSTALLATION

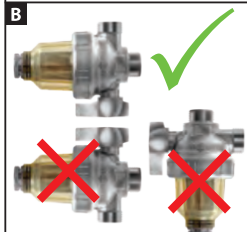
The filter must be installed in the circuit according to the flow direction of the arrow on the brass body. It is recommended to be placed in the return of the heating network, before the boiler.



A When installing or uninstalling the filter the water in the circuit should always be cold and without pressure.



B It should always be placed in a vertical position with the discharge tap looking downwards.

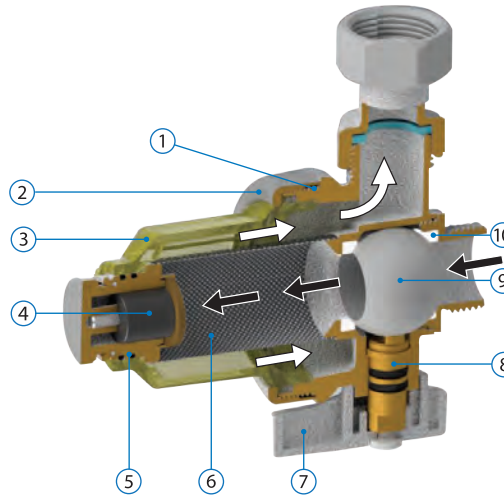


C The packing includes a 3/4 swivel nut which allows the connection to the boiler or in wall-mounted supply using a flexible connection spiral.



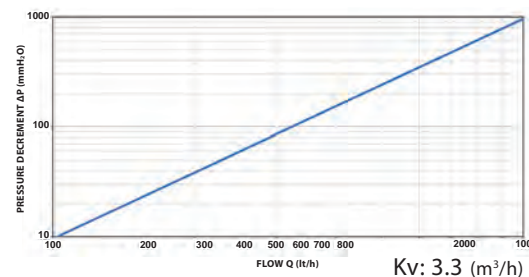
Safety Warning: The symbol reference to present of powerful magnetic field. This equipment can produce pulsed magnetic fields and at close proximity which may affect implanted medical devices.

TECHNICAL FEATURES

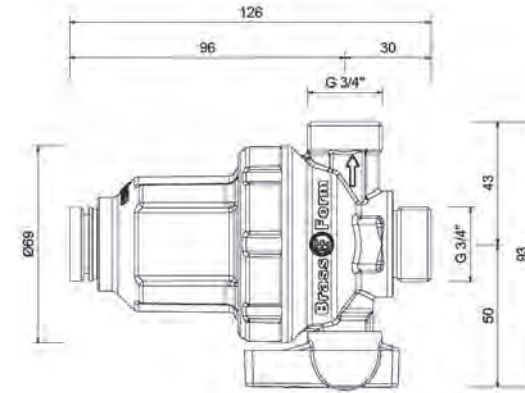


1	Filter Main Body Hot Forged Brass (cw617N)
2	Locking Nut Hot Forged Brass (cw617N)
3	Collection Chamber Polysulfone (PSU)
4	Magnet Neodymium N48
5	Orings NBR
6	Filter Cartridge AlSi304 (800µm)
7	Knob Thermoplastic ABS polymer
8	Spindle Brass (cw614N)
9	Ball Brass (cw614N), Polished, chromium plated
10	Ball Seats Protogenic PTFE

PRESSURE DROP DIAGRAM



DIMENSIONS



MAINTENANCE

Particle concentration on the filter reduces water supply to the plant while cleaning serves for proper circuit operations as well as a longer service life of the circuit and the boiler.

The design of the **Smart Mag Filter** makes maintenance and cleaning extremely fast and accessible. **The control before the maintenance can be visual** through the transparent container. During maintenance the water in the circuit should always be cold and the boiler switched off. **OFF**

- 1 Turn off the valve.
- 2 Unscrew the safety fitting.
- 3 Remove the transparent collection chamber.
- 4 Unscrew and remove the magnet to demagnetize the particles.
- 5 Remove the stainless steel filter and clean it with water.

