

# MAGNEX HP5P

**Compact, magnetic desludger, among the little and performing ones of its category**



## INTRODUCTION:

We live in an age of high efficiency boilers but, for many years, little attention has been given to the correct treatment of heating systems. Most plants suffer black iron oxide contamination; this phenomenon gives rise to heavy muddy deposits which are the result of the corrosive phenomena established inside the radiators and other metal components.

The size of the oxide particles can vary from very large to very small, in any case they create several problems to the circuit, also giving rise to a premature malfunction and breakdown of pumps and valves; moreover, when the heat exchanger of the boiler and the pipes are contaminated there is a drastic loss of efficiency.

MAGNEX HP5P provides many years of protection while maintaining a high efficiency of the plant, therefore associated with a financial benefit and greater reliability.

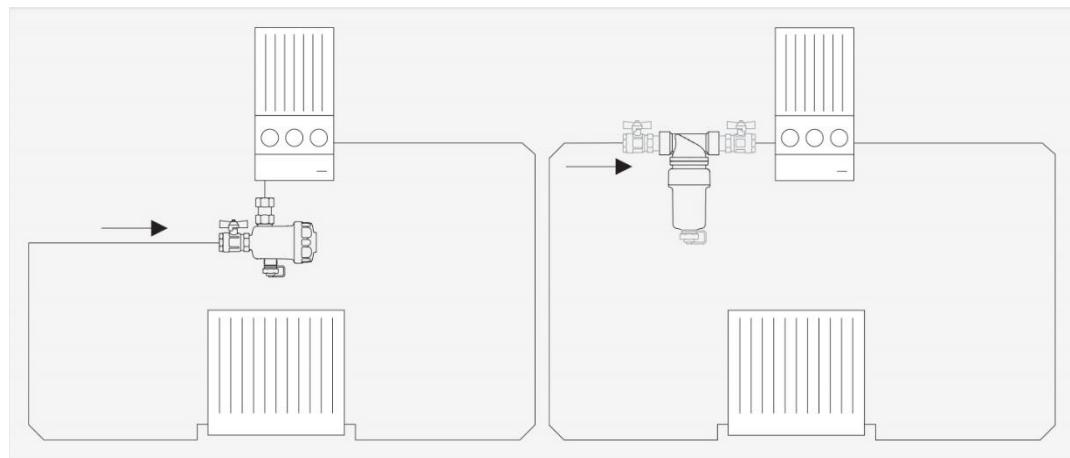
Moreover, with its compact dimensions, MAGNEX HP5P offers great versatility in installation and guarantees long life and maximum efficiency of the system: it eliminates impurities and fights corrosion.

## DESCRIPTION:

The MAGNEX HP5P magnetic desludger filter is part of 5 products with different characteristics and dimensions; it is studied to capture and hold the magnetite particles and all the impurities (rust, sand, silt etc.) that are formed due to corrosion and incrustations during the normal operation of a heating system.

The variation of the section brakes the water flow and the particles suspended in it thus allowing the magnet to attract all the impurities of ferrous origin, while the non-ferrous particles are filtered by the AISI 316 stainless steel wire mesh cartridge.

MAGNEX HP5P must be installed on the return circuit, at the boiler inlet after the last radiator; thanks to its compact dimensions, it can be easily installed under-boiler in domestic systems; MAGNEX HP5P is intended exclusively for heating systems for domestic use, in the case of other applications, always consult the manufacturer before installation.



*Installation scheme*



PRODOTTI CHIMICI E TECNICI - CHEMICAL AND TECHNICAL PRODUCTS

FACOT CHEMICALS Srl - Via Crema 44, 26010 Capralba CR, Italy - Tel. +39 0373450642 - [info@facot.it](mailto:info@facot.it) - [www.facotchemicals.com](http://www.facotchemicals.com)

**INSTRUCTIONS FOR USE:**

In the MAG-NEX HP5P filter, the fluid that passes through the cartridge filter element comes into contact with the magnet; the ferrous sludge is held thanks to the double effect of mechanical filtration (exerted by the cartridge) and magnetic field (exerted by the magnet).

The effect is further amplified by the section variation: the filter body has a larger diameter than the pipes, so the fluid slows down inside the filter and the suspended particles can be captured and retained more effectively.

In this way all the magnetic (ferrous residues) and non-magnetic (algae, mud, sand, etc.) contaminants present in the system are held in the filter body.

MAGNEX HP5P can be installed with different orientations: in the case of limited space underneath the boiler (e.g. boiler installed in kitchen cabinets) the filter must be installed with the main body horizontal and the cap facing front. If there is more space available for installation, it is possible to place MAGNEX HP5P with the vertical body and the cap facing downwards. In order to allow these installation setups it is sufficient to invert the position of the rotating connection connecting the boiler to the ball valve and rotate the filter 90 °.

MAGNEX HP5P is supplied complete with ball valve and swivel brass fitting.

**TECHNICAL DATA:**

Compatible fluids	water, glycol, corrosion inhibitors, sludge dissolvers, biocidal products
Body and head	GRIVORY
Gaskets	EPDM
Fittings	Brass
Filtering cartridge	Stainless steel AISI 316
Filtration grade	800 micron
Working temperature	+4 ÷ +90 °C
Max pressure	6 bar
Connections	3/4"
Magnet power	NeFeB - 13200 Gauss
Dimensions	195 x 120 x 66 mm

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