

Diafil

MAGNETIC FILTER WITH DRAIN FOR THERMAL PLANTS

APPLICATION

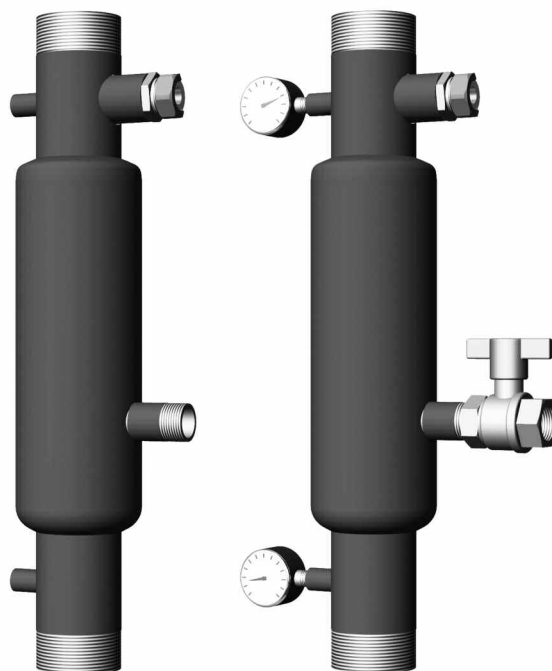
DIAFIL is the in-line filter complete with magnet and manual drain for periodic cleaning, designed for the measurement of the pressure differential by threaded connections.

- **interception of impurities by mechanical filtration**
- **capture of the ferrous impurities in the water**
- **discharge of impurities collected in the filter by manual valve**
- **possibility to measure the filter obstruction by the reading of the pressure differential**

MAIN FEATURES

DIAFIL is a filter necessary for preserving thermal plants from deterioration due to the presence of impurities, processing residues and iron dust in circulating water. Thanks to the dedicated drainage sleeve, it is possible to perform an easy and quick cleaning action without removing the filter's parts.

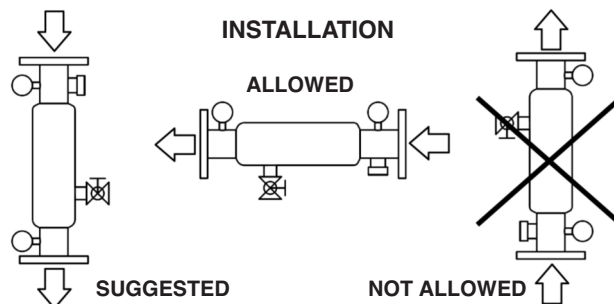
Furthermore, the pressure outlets positioned upstream and downstream of the filter allow to understand when **DIAFIL** filter has to be drained and cleaned, by simply installing manometers. If pressure switches or pressure transducers are installed to replace manometers, it is possible to remotely signal that the filter needs to be discharged by connecting these sensors to a control unit. Light filter mesh: 1.5 mm (0.9 mm on request).



FUNCTIONING

The inlet flow to the filter immediately meets the action of the magnet, which has the task of retaining the metallic particles. Subsequently, the mesh filter separates the impurities by a mechanical action: impurities are collected in an appropriate seat. The cleaned fluid can consequently continue its path towards the filter outlet. In order to perform the discharge of impurities, please see the instructions below:

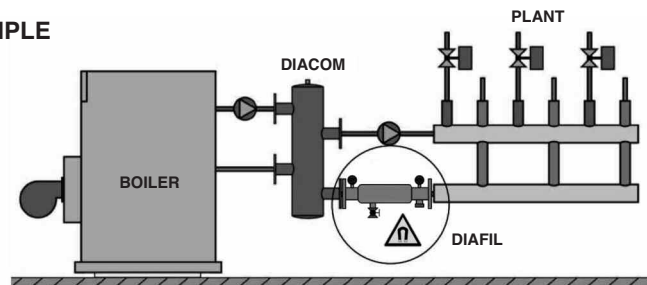
1. close the manual interception valve downstream of the filter
2. remove the magnet from its seat
3. open the drain valve, allowing the inlet pressure to remove all impurities.



VERSIONS AVAILABLE

- 1", 1"1/4, 1"1/2, 2", threaded connections
- DN65, DN80, DN100 flanged connections

EXAMPLE



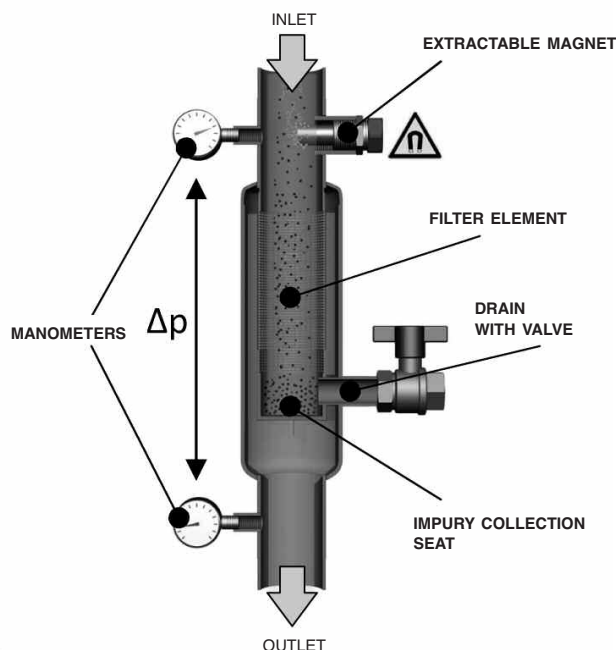
PARTICULARITY



1. diamagnetic seat • 2. removable magnet holder • 3. magnet

Note: inspectable version with extractable filter element on request.

OPERATING PRINCIPLE



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**HYDROTHERMAL SYSTEMS
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