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FERRO®

NEW

MAGNETIC DIRT SEPARATOR

Magnetic dirt separator

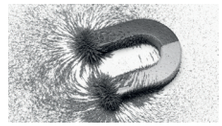
The magnetic dirt separator effectively removes impurities from the heating system by means of: →

magnetic cartridge

filter cartridge

Application and operation principle

Magnetic cartridge contamination separators are devices used in various systems, especially in heating, cooling and industrial installations, to remove contaminants such as rust, metal filings and other particles from the working fluid.



Main applications of the separators:
In heating and cooling systems, magnetic separators help to maintain the purity of the medium (water or glycol), which in turn:
- prevents damage to pumps, heat exchangers and other system components
- improves the energy efficiency of the system by minimising losses due to impurities
- extends the life of system components by reducing corrosion and deposits.

Design and components

Coupling with swivel nuts
- material: CW617N brass, gaskets: EPDM, DN20

Manual air vent
- material: CW617N brass, DN20

Dirt trap
- material: PA12, contamination level can be checked, O-ring seal: EPDM

Water ball valve with swivel nut
- material: CW617N brass, gland, gasket: EPDM, DN20, PN25

Filter insert
- stainless steel filter SUS304

Separator body
- material: PA 6, body: 2 elements, o-ring seal: EPDM, thread: 3/4".

Magnetic insert
- neodymium magnet N35 - (6500 GS)

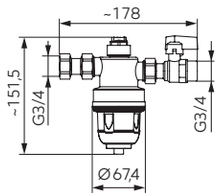
Impurities in the system cause many problems

- → noise in the installation
- → disturbances in the water circuit of the installation
- → reduced pump efficiency and often damage or destruction of pumps
- → repairs, complaints, service.

← Removal of magnetite

Magnetite is formed by the reaction of oxygen with iron. The magnetite in the system takes the form of a black deposit.

Technical specifications



Installation medium →

GLYCOL 50%

H_2O

Technical data →

PN [bar] 3

Tmax [°C] 90

Flow coefficient →

Kvs [m³/h] 5,4

Installation

The separator is installed underneath the boiler to protect its internal components, above all the circulation pump.