COMPACT magnetic dirt separator

Art.9085

100% MADE IN ITALY

Function

Pintossi+C compact magnetic dirt separator is an excellent solution to deal with the various plant engineering problems due to impurities present in the water (in particular rust and sand) which are created as a result of corrosion and encrustations during normal functioning operations in a heating system.
The filter guarantees **continuous protection of the boiler**, preventing the circulation of these microparticles in the system, thus preserving the most sensitive components such as the circulator and the heat exchanger.
The filter must be installed on the return circuit, at the inlet of the boiler. Thanks to the remarkable versatility of installation it can be either with the body horizontally or vertically, making it easily adaptable even in small spaces.

Technical specifications

Fluids:	Water or glycol solutions
Max. glycole:	30%
Max. working temp.:	90°C
Max. working pressure:	6 bar
Magnet:	14.100 Gauss
Filtration rate:	800 microns
Kv [m³/h]	5,65

Materials

Body:	GRIVORY
Cap:	GRIVORY
Filtering net:	Stainless Steel
Ball valve:	Brass
O-ring:	Silicone
Magnet:	NdFeB

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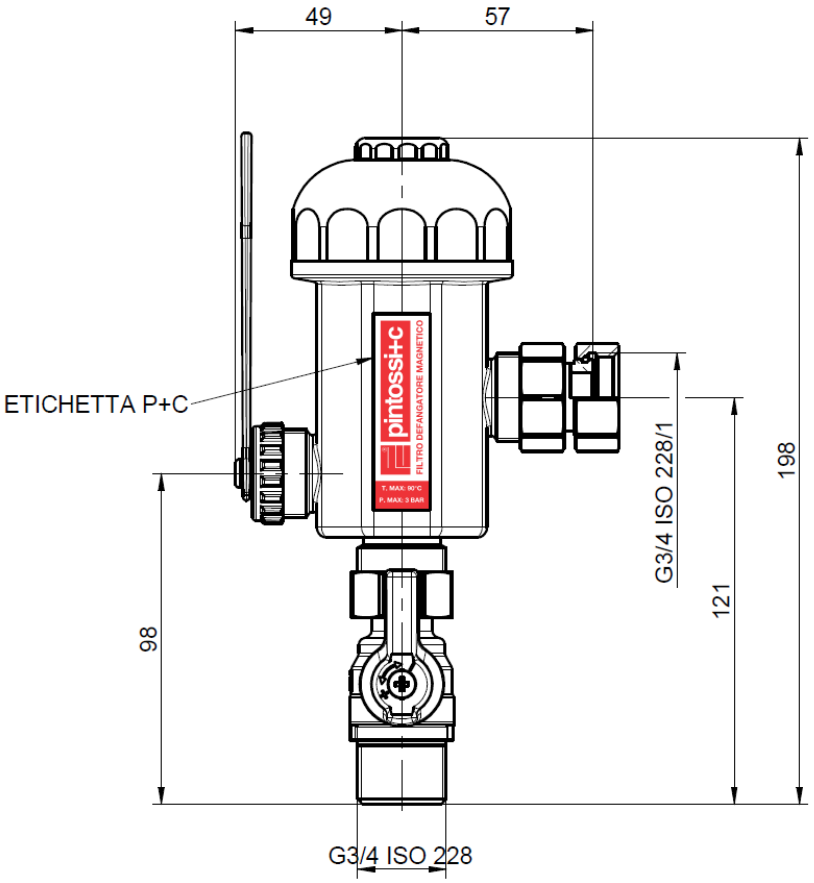
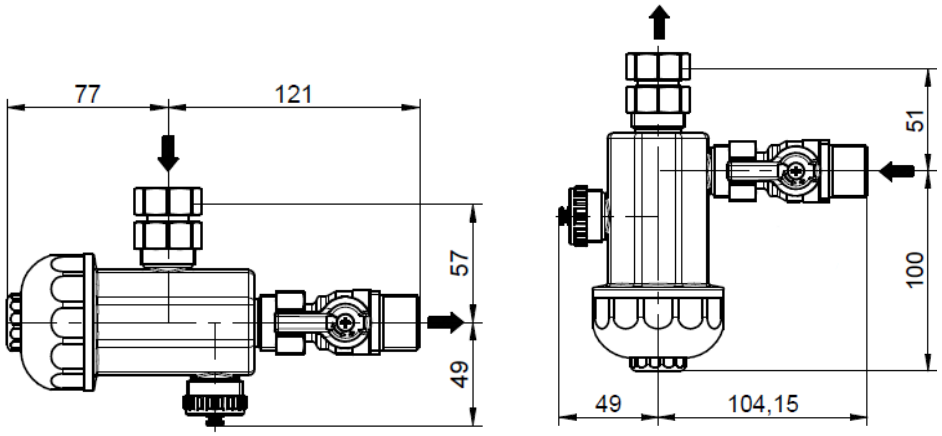
Dimensions



Installation

It is recommended to install the filter on the return circuit, before the fluid enter the boiler.
The filter has three G¾" threaded holes which allow the filter to be installed both in vertical or horizontal position, depending on the installation space available under the boiler.
It will therefore be sufficient to identify the most appropriate configuration for the installation of the filter in the specific system and use the threaded cap to close the third unused hole.



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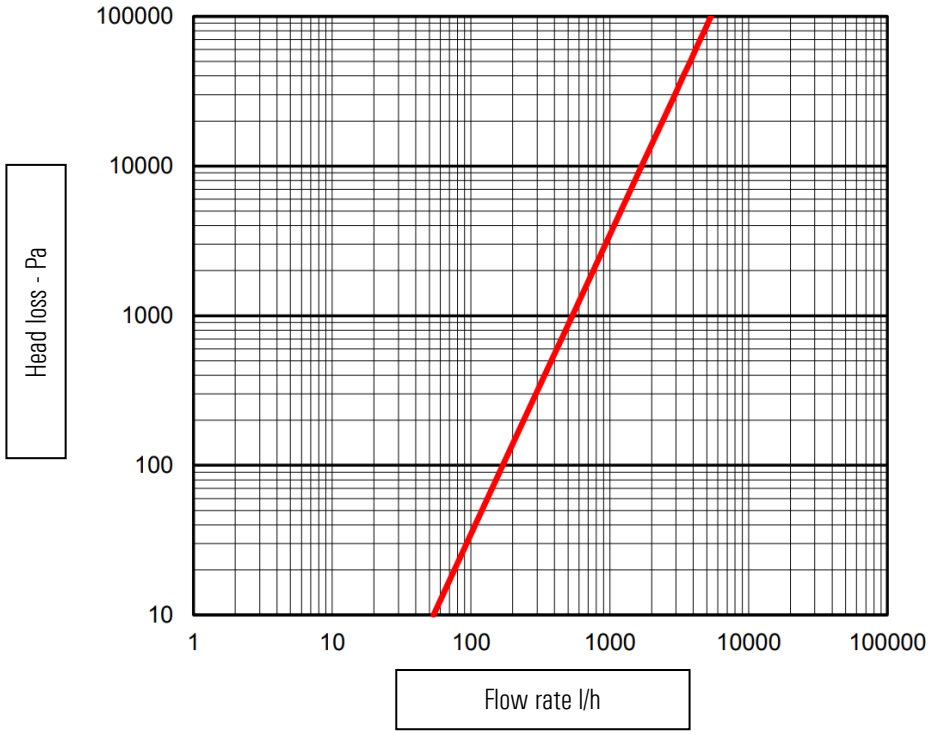
Hydraulics characteristics



Connection	KV Angle version
3/4"	5,65 m^3/h

Mainteinance

It is important to carry out periodic cleaning operations of the filter.
It is recommended to remove impurities at least once a year and after one month during the first installation.

1. Before cleaning the filter, make sure that the boiler is switched off and the fluid is cool.
2. Close the ball valve.
3. Remove the magnet from the magnet cap.
4. If the filter is installed in horizontal position unscrew the drain plug and drain the water; if the filter is installalled in vertical position directly unscrew the magnet plug.
5. Remove the filtering net and wash it under running water to remove any impurities still retained.
6. Before reassembling the filter, check the condition of the o-ring, if necessary replace it with a new one.

Warnings

- The filter must be installed by a qualified technician.
- Before installation or maintenance, check that the circuit is insulated.
- Install the filter on the return circuit, at the inlet of the boiler.
- Make sure there is adequate access in case of maintenance or repair.
- Make sure the system is properly installed before proceeding with the installation of the filter.
- In case of pressure >5 bar it will be necessary to install a pressure reducer upstream of the filter.
- In the event of water hammering, an expansion tank or shock absorber must be installed downstream of the filter.
- Use only original parts.
- Do not use to treat compressed air and gases.
- The filter contains powerful magnets. Persons with pacemakers must keep a safe distance from the filter while operating. Pay attention to the use of electronic equipment near the filter.

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The manufacturer is not responsible for any damage to persons, animals and property in the event of improper use, not in accordance with the instructions for use or tampering with the filter and is exempt from all liability in the specific cases contemplated as follows:

- Partial or total unrespect of installation and maintenance instructions.
- Unsuitable operating temperature.
- Pressure surges or water hammers.
- Improper use of the filter.
- Unauthorized modifications or interventions.
- Use of non-original parts.
- Negligence in ordinary and extraordinary maintenance.

Fluid characteristics

Reference standard for water treatments in heating systems is Norm UNI 8065:2019 which regulates the parameters that must be observed to avoid scale and corrosion phenomena.
In order to grant product warranty, the fluids charactersitcs must comply with the rules in force in the country of relevance or at least present features not less to the ones prescribed by the Norm UNI 8065:2019.
In particular, minimum standards necessary but not sufficient to control are the following:

Fluid aspect:	Limpid
PH:	Between 7 and 8
Iron (FE):	< 0,5 mg/kg (< 0,1 mg/kg for steam)
Copper (CU):	< 0,1 mg/kg (< 0,05 mg/kg for steam)
Antifreeze:	Passiveted Propylene Glycol
Conditioning:	as indicated by the producer

In any case when using antifreeze and conditioning solutions, is required to control and verify the correct compatibility between these substances and the construction materials stated in Pintossi+C technical datasheet.