

Side Stream Filters DSF 15 and DSF 50



The DSF Side Stream Filters are specially designed to remove troublesome suspended debris from re-circulating water systems, such as heating circuits, chilled water or condensate systems.

The filters incorporate easily changed highly efficient re-usable bags, and offer a low cost but extremely effective remedy for removing corrosion products and accumulated start-up debris that cause system performance issues.

Water system contaminant

In both heating and condensate systems contaminants can accumulate causing damage to circulation pumps and blockages to heat exchangers, control valves and pipework.

Most of these contaminants are produced by various corrosion processes or precipitation of calcium carbonate if hard-water is used for topping up.

The corrosion can be significant if oxygen is able to enter the system on a regular or continuous basis, such as when refilling via the normal expansion and contraction process.

The oxygen can cause corrosion of metals and may lead to a variety of unwelcome deposits. If magnetite (a form of iron oxide) is produced it will adhere to pumps and pipework, particularly in areas of low flow.

Also, other foulants may have been introduced to the system during installation or modification, such as dust, sand or maybe, welding slags or pipe sealing materials and need removing.

Filter design

The filter comprises of a rugged steel filter housing fitted with a clamp-style lid and is supported on three stout legs. Flanged 2" inlet and outlet connections allow for precise and easy installation, and the unit is fitted with pre- and post-filter pressure gauges to allow easy visualisation of filter cleanliness.

The bag filter is supported internally, and is available in sizes from 1µ to 100µ. An optional set of filter magnets is available and their use is recommended for lphw applications.

Typical installation

A typical complete installation is shown, but simple connection across flow and return pipeworks is often all that is necessary.

In heating systems the preferred position is parallel to the return piping, or at the lowest system point. Usually, systems are sized to cope with 10% of the return flow (depending on the history, type of contamination and size of the system).

TECHNICAL DATA

Type	DSF 15	DSF 50
Filter bag	PP 0.41m ² (standard 10µm)	3 x PP 0.41m ² (standard 10µm)
Connection	2" flange, DN 50 PN 10	DN 100 PN 10
Filter capacity	15m ³ /hour	50m ³ /hour
Maximum pressure	6 bar	6 bar
Maximum temperature	100°C	100°C
Pressure gauge	2 off glycerine filled, size 100mm, 0-6 bar	2 off glycerine filled, size 100mm, 0-6 bar
Maximum ΔP	0.5 bar	0.5 bar
Filter dimensions	height 1193mm, Ø270mm	height 1600mm, Ø700mm
Options	set of magnets	set of magnets

We reserve the right to change the specifications at any time

TYPICAL ASSEMBLY



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