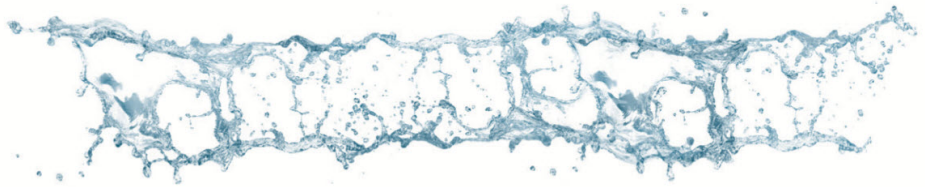


FILTRATION: SIDE STREAM FILTERS DSF15 / DSF50



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 contaminants

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 1u to 100u. 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).

PRODUCT RANGE

MODEL	Filter bag	Connection	Filter capacity	Maximum pressure	Maximum temperature	Pressure gauge	Maximum Peak pressure	Filter dimensions	Options
DSF 15	PP 0.41m2 (standard 10um)	DN50, flanged DIN PN 10	15m ³ /hour	6 bar	100°C	2 off glycerine filled, size 100mm, 0-6 bar	0.5 bar	Height 1193mm, Diameter 270mm	Set of magnets
DSF 50	3 x PP 0.41m2 (standard 10um)	DN100, flanged DIN PN 10	50m ³ /hour	6 bar	100°C	2 off glycerine filled, size 100mm, 0-6 bar	0.5 bar	Height 1600mm, Diameter 700mm	Set of magnets

Dimension layout - for reference only. Contact Lubron for certified drawings. As part of our continuous product development programme, LUBRON UK LIMITED reserve the right to change equipment specification without prior notice.