

Machinery and Plants for
Paper Industry
Water Treatment Systems



Microscreen filter MSF

Microscreen filter MSF

in cooperation with



Microscreen filter is a drum filter and represents an ideal solution for the fine filtration of the clarified water after a DAF unit, the effluent from wastewater treatment plants as well as primary water.

Unit is designed to minimize the energy and water consumption.

Water containing solid particles flows through the inlet pipe into the interior part of the filter drum. Impurities are caught on the inner side of the filter cloth and the filtered water flows out through the cloth. The entire filter remains off during this initial process. As the filter cloth slowly becomes clogged by the increasing amount of filtered waste, its resistance to the flow increases. The water level inside the filter drum increases accordingly. When the present level is reached, the level probe located at the forefront of the filter automatically activates the rotating drum and simultaneously the rinsing pump which pumps the filtered water into the jet rinse system.

When the level return to lower limit, the system stops the drum and the pump operation.

The washing phase is using its already filtrate water.

Filtrate water is discharged by gravity through an internal hopper.

The unit is available in different construction versions for any installation requirements (complete steel construction or installation in a concrete channel).

The concept is based on a uniform supporting cartridge with a variable filter cloth for all filter sizes. The filtration cartridge can be installed very quickly without any fastening elements or tools.

The automatic activation and deactivation of the filter reduce the amount of electricity needed for filter operation, increase the average quality of the filtered water, increase the density of the out flowing sludge and prolong the life span of the entire apparatus.

Applications sectors:

- Municipal and Industrial Water Treatment Plants
- Paper and Board Industry
- Power and Heating Plants
- Mining Industry
- Chemical and Pharmaceutical Industry
- Textile Industry and Tanneries
- Food and Beverage Industry
- Industrial Laundry
- Fish Industry
- Potable Water Plant

Main advantages:

- Considerable improvement in the quality of treated water
- Small installation space demands
- Low investment and operating costs
- Fully automated operation
- Substantially higher reliability of treatment
- High resistance to wear and damage

Model	Length mm	Height mm	Width mm	Installed power kw	Operating weight Kg
1FB_0	1300	1320	1000	1,35	730
2FB_0	1900	1420	1200	1,35	1100
3FB_0	2720	1655	1400	2,37	2250
4FB_0	3220	1775	1600	3,27	3810
5FB_0	3830	1965	1800	3,85	7300
6FB_0	4665	2390	2100	4,45	15000



S.T. MACCHINE SpA

via Calcara, 1
36030 Monte di Malo (VI) Italy

tel +39 0445 602688
fax +39 0445 605452

www.stmacchine.it
info@stmacchine.it

