Microsieve filter – MF 5

MF5 microsieve filter is a device for continuous filtration of fine undissolved materials from water using a fine microsieve with a mesh size in the range of hundredths of a millimeter.

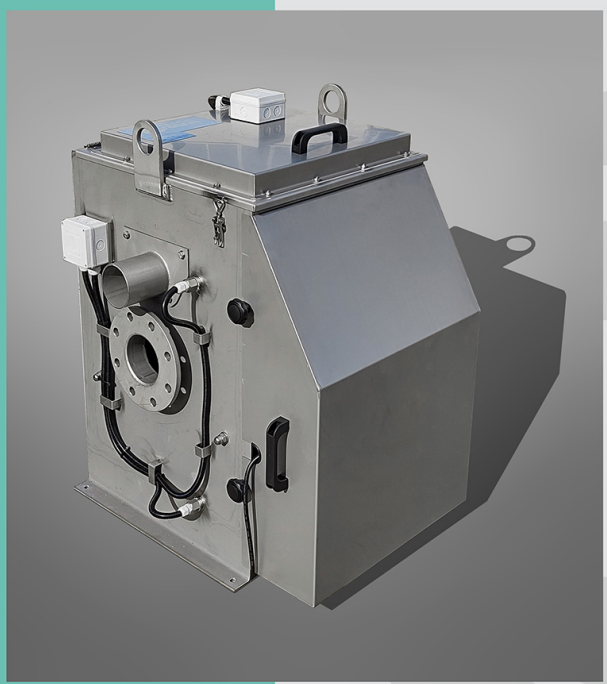
It extends our series of microfilters currently on offer, with a range of 10 – 220 l.s-1, and provides the smallest flow size yet, up to 5 l.s-1. The main benefit of the MF 5 model is lowering the initial investment necessary, as well as the operating costs.

It is used in WWTP tertiary treatment areas, where it reduces the content of undissolved materials and thus improves the overall cleaning efficiency. The filter can also be used in industrial water treatment applications.

For operation in below-zero temperatures, the filter can be provided with heating. The filter is equipped with an integrated safety overflow in case of emergency overload of the drum with incoming water. In its working position, the MF 5 is placed on a flat concrete foundation and fixed with anchor bolts.

Technical data	
Flow rate:	1 to 5 $l.s^{-1}$
Engine input power:	0,12 kW/400 V/50 Hz
Pump input power:	0,55 kW/400 V/50 Hz
Heating input power:	420 W/230 V/50 Hz
Filter fabric:	40; 63; 80 μm
Switchboard controlled automated operation:	continuous operation
Material:	all-stainless steel

For alternate parameter value ranges, please consult the manufacturer



ISO 9001

Product designation: **MF 5**

WASTEWATER TREATMENT PLANT EQUIPMENT

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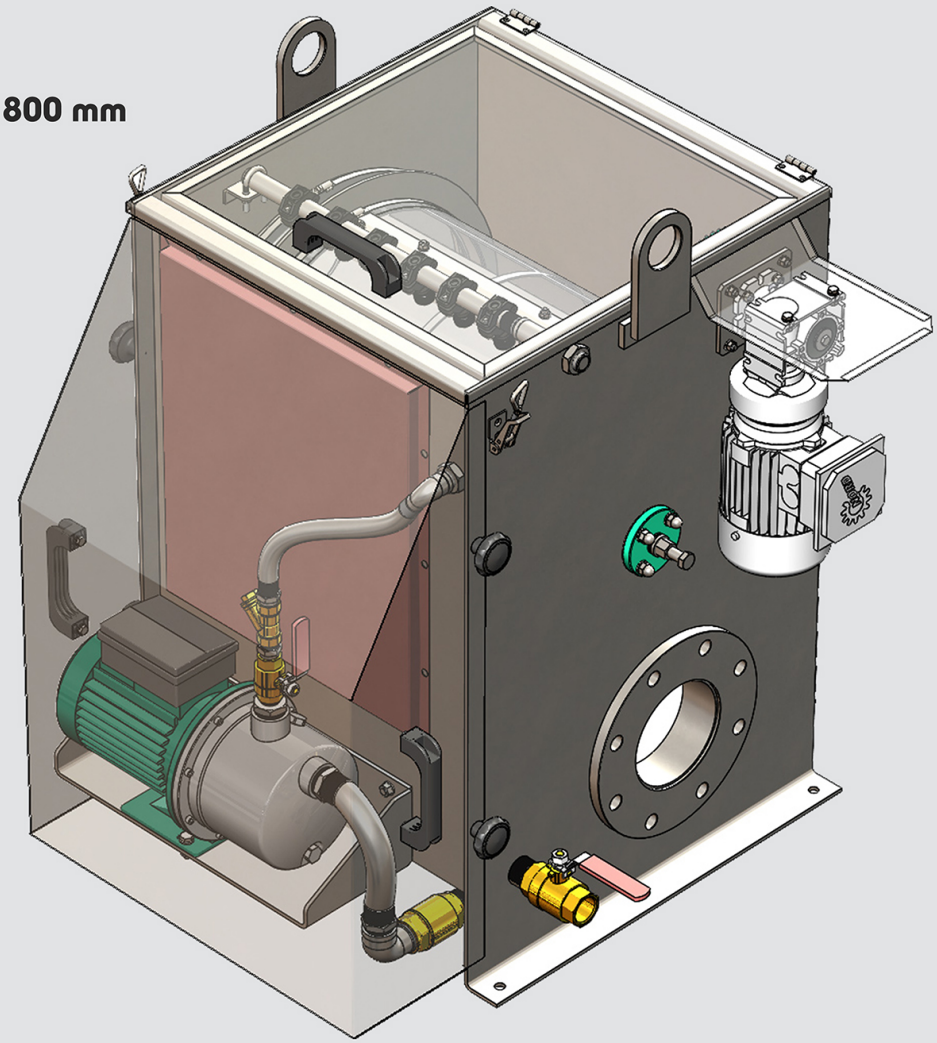
The MF 5 is assembled from a trough with a closable lid. A drum covered with microfabric is inserted into the trough. The drum drive is derived from an electric gearbox. The inner compartment of the drum with contaminated water is separated from the outer compartment with filtered water by a flexible seal. The filter includes a self-priming pump used by the drum rinsing device.

MF 5
Dimensions: 800 x 700 x 800 mm



The contaminated water flows through the inlet into the microfilter drum and passes through the filter sieve of the drum, where undissolved materials collect on the inner surfaces of the sieve. Collected particles on the sieve form a thin, continuous layer, which reduces its permeability. Gradually, the filtration effect increases and water level inside the drum rises. A switching probe senses the water level and turns on the drum drive and the rinsing pump.

Spraying water from the nozzles rinses the drum's outer surface and cleans the filter screen. Rinsed impurities are drained into the trough and drained by means of gravity.

The manufacturer Fontana R, s.r.o. offers its customers free consultations and technical assistance to help ensure optimal integration of equipment into the technological part of given WWTP.

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