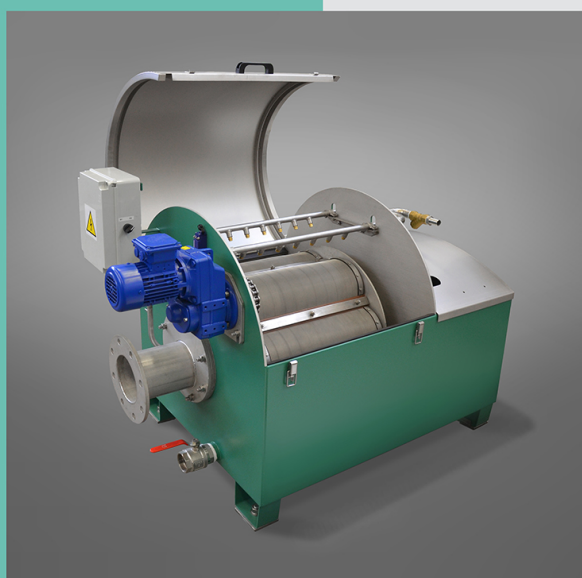


Microsieve filter – MFO, MFB

Microsieve filter represents a part of the tertiary wastewater treatment process. It is also used in the processing industry, in cooling water circuits, and wherever it is desirable to reduce the content of fine undissolved materials in water, or BOD and COD.

Contaminated water flows into the inner compartment of the filter through the inlet neck, undissolved materials are separated on the inside of the filter drum cells. The purified water flows through the microsieve and leaves the filtration device in the direction of flow. The flow rate of the microsieve gradually decreases due to a buildup of trapped impurities, which causes the difference between water level in front of the drum and behind the drum to increase. The difference in levels is sensed by a level sensor, which signals the electrical switchboard to activate the drum drive, and activates the rinsing pump, which uses filtered water to clean the screen using special nozzles. Rinsed impurities flow through a collection trough to the filter section with a submersible sludge pump controlled by its own level-sensing switch. They are pumped outside the filter area, or they can be drained by means of gravity.

Technical data									
Type:	10	15	22	32	50	75	100	160	220
Flow rate Q (l/s)*:	1 ÷ 10	10 ÷ 15	15 ÷ 22	22 ÷ 32	32 ÷ 50	50 ÷ 75	75 ÷ 100	100 ÷ 160	160 ÷ 220
Filter input power:	1,6 ÷ 5,2 kW, 400 V/50 Hz								
Filter heating:	0,42 ÷ 2,8 kW, 230 V/50 Hz								
Filter mesh size:	40, 63, 80, 100 μ m								
	other sizes according to customer requirements								
*Applies to water with undissolved material content of up to 30 mg/l and to filter mesh size of 63 μ m									



Product designation: **MFO - Q**
MFB - Q



ISO 9001

WASTEWATER TREATMENT PLANT EQUIPMENT

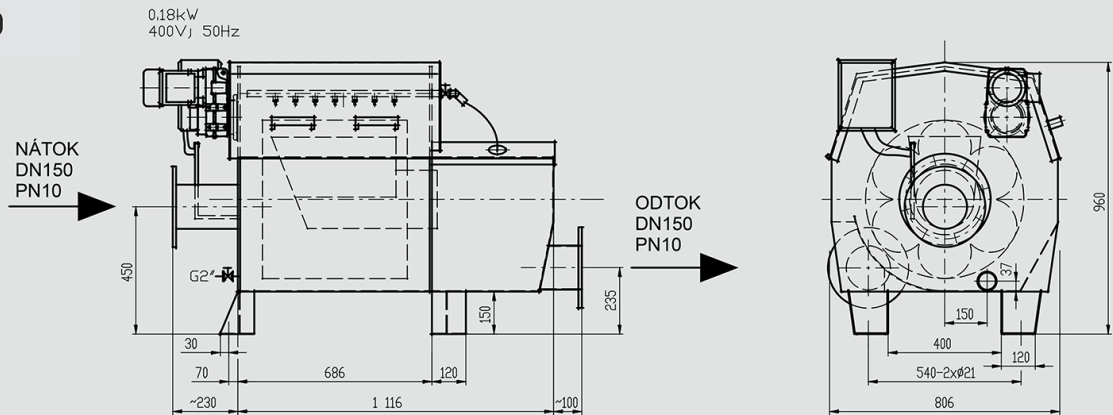
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The manufacturer offers filters in two basic designs, for a concrete channel (MFB), or with a steel trough (MFO). The standard delivery also includes an electrical switchboard with adjustable automated filter operation, and a level sensor, a water pump for rinsing and a pump for rinsed buildup of impurities.

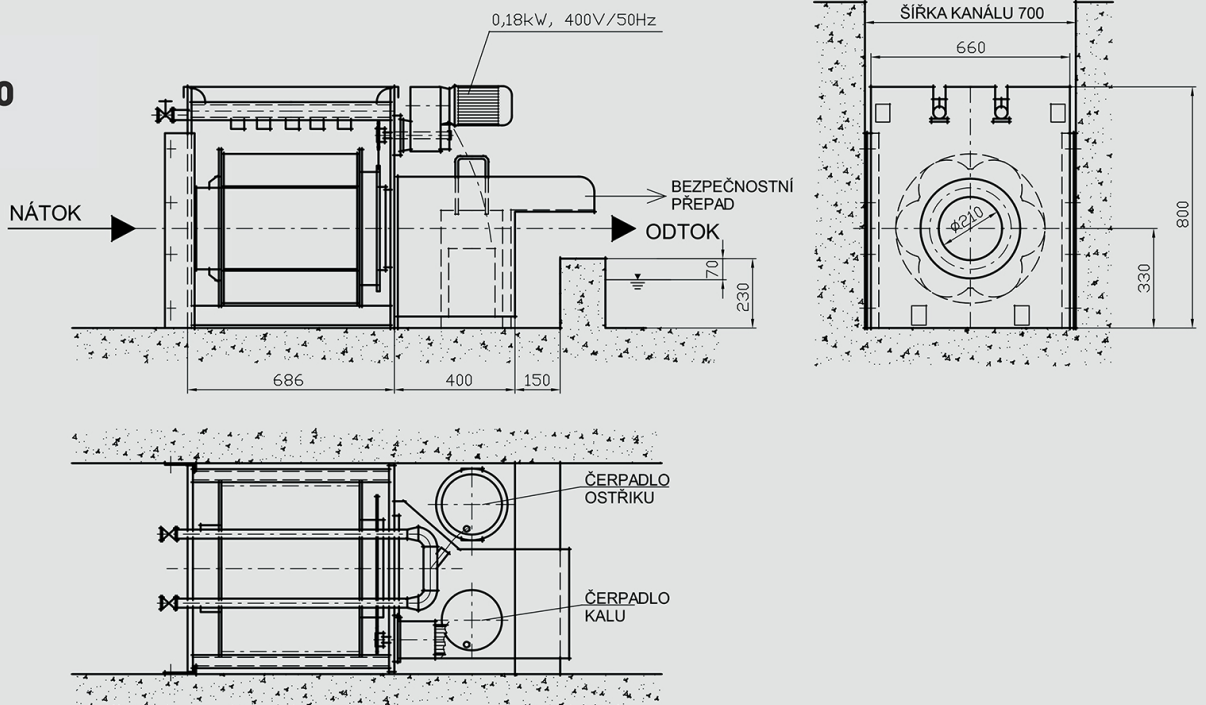
In order to determine the correct size of the microfilter, it is necessary to know the required flow rate, undissolved material content, sieve analysis to determine the mesh size of the sieve, and the required level of water purification. If some of these characteristics are not known, the manufacturer offers to conduct field tests directly at the site of the customer, using a test microfilter.

Design variants - example

MFO - 10



MFB - 10



On request, a heated version can also be supplied.

Material: the device is made of stainless steel, the drum bearings are made of bronze, the actual filter fabric is made of stainless steel. Filter mesh size is in range $17 \div 200 \mu\text{m}$ (in an irregular row).

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.