

Faivre drum filters

Self-cleaning drum filters

We offer a complete series of robust, economical and highly efficient filters.



OPERATING PRINCIPLE

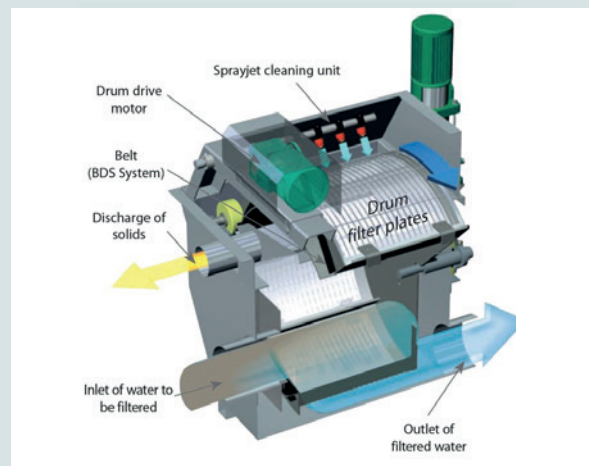
The water to be filtered is directed into a rotating drum. The outer surface of the drum is made of strong Stainless steel plates with an inox mesh overlay. Suspended solids larger than the perforations are retained on the inside of the mesh.

The drum rotates slowly (at a rate of 3 to 8 rpm, depending on the model) and separates the solids from the water. Solids are rinsed away and discharged through a discharge channel located at the top of the drum.

Faivre filters are designed to resist corrosion, as they are constructed entirely of type 304L or 316L inox steel for use in water containing aggressive components.

All filter components are carefully designed and dimensioned. Faivre drum filters have few moveable parts, thanks to the exclusive rotation system and use of a belt drive system (BDS).

The drum requires little maintenance. The inox mesh can easily be replaced if worn or if the water cleaning requirements change.



Faivre drum filter

SPECIFICATIONS

- Robust structure
- Resists corrosion
- For use in water containing aggressive components
- Few moveable parts
- Low maintenance
- High-efficiency filters, robust and economical in use
- Artec Aqua AS is the Norwegian importer of Faivre drum filters
- Handles sludge and discharges efficiently and economically, regardless of volume.
- The filters are used in aquaculture, industry, municipal sewage plants etc.



Stainless steel mesh available as standard :
25µ, 35µ, 63µ, 80µ, 100µ et 120µ

Drum filters 120 serie

DRUM FILTER ROTOCLEAN 120cm Ø
flow rate up to 760 m³/h at 100 µ.

The 120 series is available in the 3 configurations : frame, tank, pipe

Drum filters 200 serie

DRUM FILTER ROTOCLEAN 200 cm Ø
flow rate up to 3240m³/h at 100µ.

The 200 series has been designed for huge fish farms where there are strict requirements for the filtration of outgoing effluent flows, large recirculation system.

Drum filters 40, 60 & 80 serie

DRUM FILTER ROTOCLEAN 40, 60 & 80 cm Ø
flow rate up to 486 m³/h at 100 µ.

The 40, 60 & 80 models are compact filters designed specifically for closed circuit of fish farm installations, hatchery or laboratory.

The 60 and 80 series are available in the 3 configurations : frame, tank, pipe

Drum filters 160 serie

DRUM FILTER ROTOCLEAN 160 cm Ø
flow rate up to 2700m³/h at 100µ.

The 160 series has been designed for the fish farms where there are strict requirements for the filtration of outgoing effluent flows, large aquariums with filtration flow rate of 26µ in closed circuit.

The 160 serie is available in the 3 configurations : frame, tank, pipe





Model 2-40 with 36µ mesh on recirculation system.



Model 4-80 with 36µ mesh on recirculation system.



Model 9-120 with frame outlet fish farm



View on 2 filters 32-160 with frame in sturgeon farm



View on 2 filters 28-160 with frame in outlet fish farm



SWITCH BOX :
The switch box is delivered connected at the filter with 10 meters of cable.
- IP 55 sealed galvanized steel with reinforced anti corrosion coating switch box



CONNECTORS :
Easy installation: all cables are supply with IP 68 Connectors



GRUNDFOS PUMP CR TYPE :
Vertical stainless steel pump, positioned on the side of the filter, uses the water filtered to clean the screens

		Indicative maximum capacity (litre/second)*															
		40		60		80		120		160		160		200			
Filter model	Mesh size	1-40	2-60	2-80	4-80	6-80	3-120	6-120	9-120	8-160	12-160	16-160	20-160	24-160	28-160	32-160	40-200
Water containing max. 10 mg/l of material to be removed. Outlet to aquaculture facility	26µ	4.5	8	13	26	39	20	40	62	55	82	110	136	164	190	220	264
	36µ	6	14	23	46	69	35	70	102	94	140	184	230	280	330	380	455
	40µ	6	15	26	52	78	42	82	123	112	170	222	280	330	390	450	540
	63µ	6	20	34	68	102	51	105	155	140	210	280	350	420	480	550	660
	80µ	6	22	38	76	114	59	111	180	164	244	310	390	470	550	640	770
Water containing max. 25 mg/l of material to be removed. Closed loop	100µ		27	45	90	135	70	130	210	195	290	370	460	550	650	750	900
	26µ	3.5	7	13	26	39	18	41	60	55	80	112	135	165	190	215	258
	36µ	6	10	18	36	54	24	54	82	74	110	146	185	225	255	290	348
	63µ	6	15	25	50	75	33	76	116	102	150	200	250	300	350	400	480
80µ	6	19	32	64	106	62	144	155	196	250	320	385	450	510	612		
Max. input to filters with tank		6	16	39	39	39	62	62	62	200	200	200	200	200	200	200	-
Filter with tank - inlet pipe Ø standard inlet - outlet	Ø125 mm	Ø160 mm	Ø250 mm			Ø315 mm			Ø500-Ø630 mm						-		
Motor power (W) 400V-50Hz-3ph		250	250	250	250	250	250	250	250	550	550	550	550	550	550	550	550
Drum surface (m ²)		0.5	0.86	1.72	2.58	1.29	2.58	3.87	3.44	5.16	6.88	8.6	10.32	12.04	13.76	16.51	
Number of mesh plates		2	2	4	6	3	6	9	8	12	16	20	24	28	32	40	

*at a water speed of 1 m/sec.