

# 80

## DrumFilter

Serie

4386 m<sup>3</sup> / h

15 / 500 µm

4 Sizes

Drum filter 80  
serie

### 4 Models

Frame



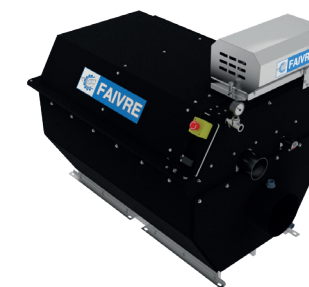
Input by pipe



Stainless style tank



HDPE tank



### Drum filter 80

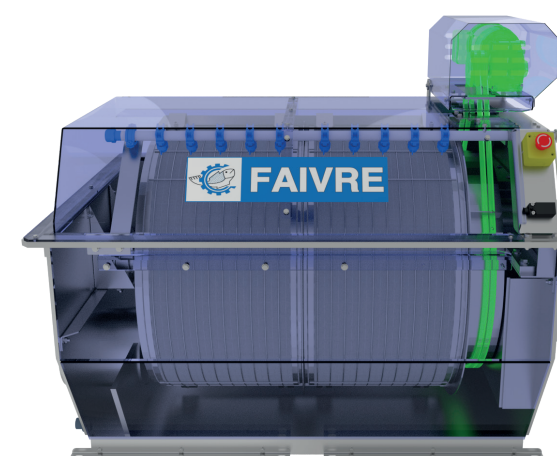
Flow rate up to 135 l/s (486 m<sup>3</sup>/h) at 100 µ.

With an 80 cm diameter drum, the Rotoclean 80 can treat reasonable amounts of water. It is available in 4 sizes (2, 4, 6 and 8 plates).

The Rotoclean 80 finds its place in closed circuits in both freshwater and seawater. It is also commonly used in aquaponics farms.

Built entirely in stainless steel and technical plastic, it is not very sensitive to corrosion.

Its 80 cm diameter drum rotates at 5 revolutions per minutes.



### BDS simple, reliable and robust system.

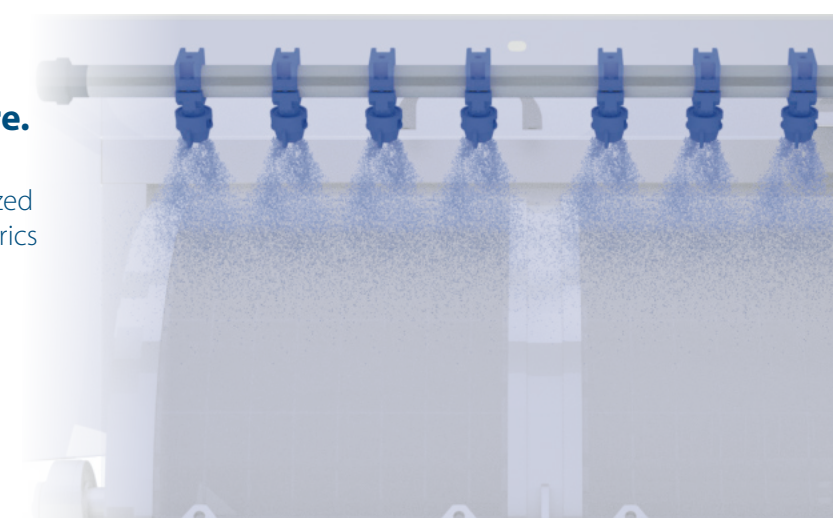
Rotoclean 80 drum filters benefit from the BDS system (Belt Drive & Support system). The motor, ideally placed on top of the drum filter, drives and supports the drum with one or more belts.

In 20 years of experience, this system has shown all its advantages:

- Soft start by nature (does not require a soft start with a frequency converter)
- Reliability over time (more than 5 years without maintenance)
- Transmission does not break if the drum jams (for example: if an object enters the drum)

### Rinsing ramp with optimized water consumption and pressure.

The pressure of the nozzles has been optimized in order to obtain a perfect rinsing of the fabrics without damaging them.





Our Rotoclean 80 drum filters are compatible with :

- Smart filter technology (page 10)

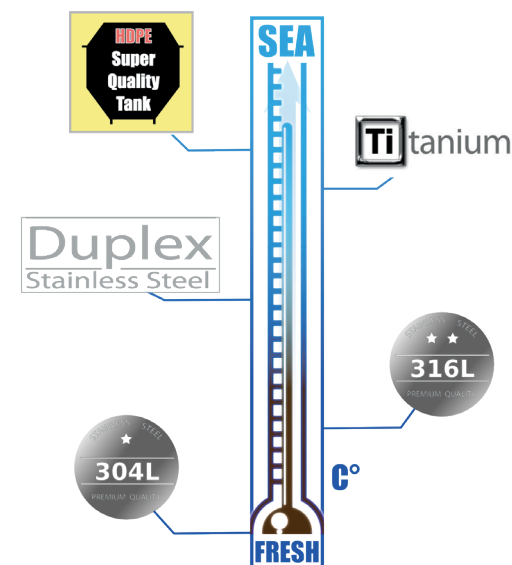
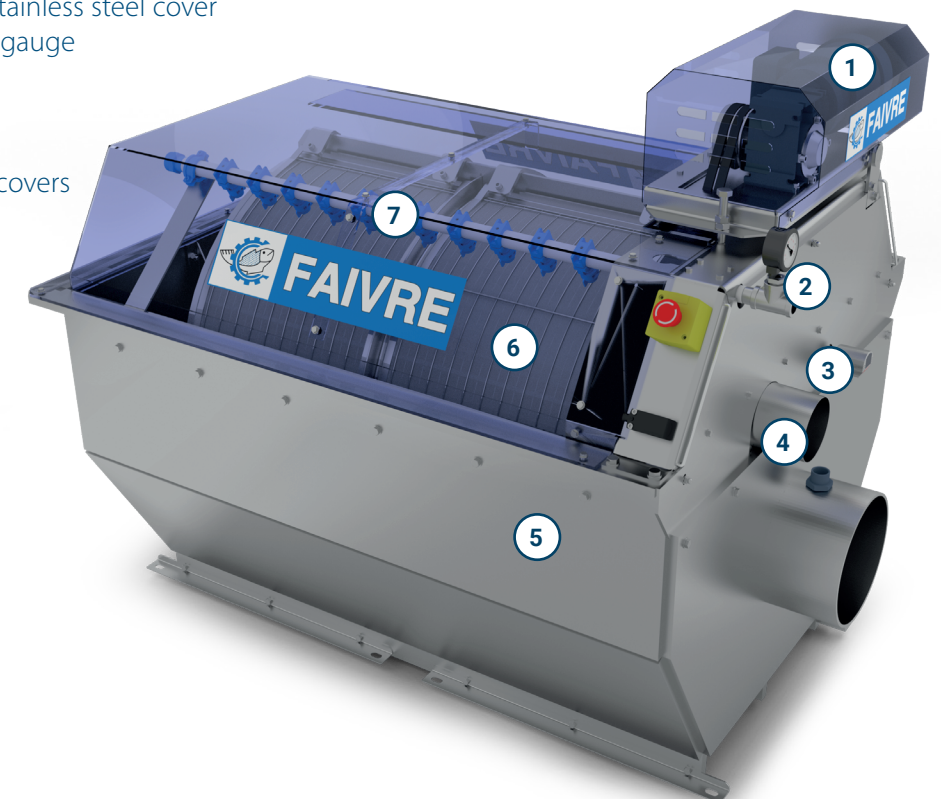
Smart filter



## Specifications

Model	Inlet -outlet standard	Motor power	Filter surface	Number of plates	Sludge outlet diameter	Number of Spray nozzles
2 - 80	Ø 200 mm (25l/s max.)	250 W	0,86 m²	2	Ø 110 mm	5
4 - 80	Ø 250 mm (39l/s max.)		1,72 m²	4		10
6 - 80	Ø 315 mm (62l/s max.)		2,58 m²	6		15
8 - 80	Ø 315 mm (62l/s max.)		3,44 m²	8		20

- 1 - Drum drive motor under stainless steel cover
- 2 - Rinsing manifold pressure gauge
- 3 - Level probe
- 4 - Sludge outlet
- 5 - Stainless steel tank
- 6 - Removable stainless steel covers
- 7 - Rinsing ramp



## High quality stainless steel construction.

Exclusive use of high quality stainless steel made in northern Europe (Norway, Finland, Sweden)

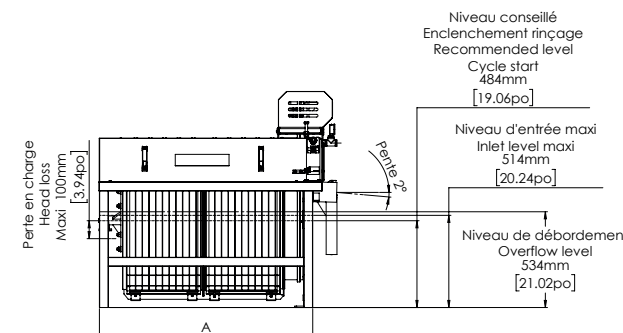
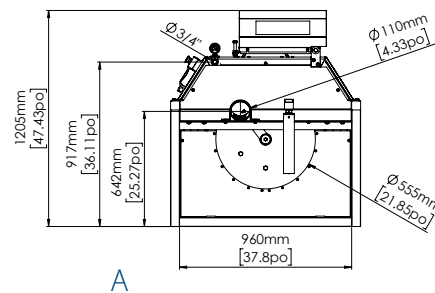
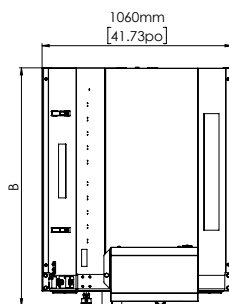
- Stainless steel AISI 304L (4301) for fresh water as standard
- Stainless steel AISI 316L (4404) for sea water as standard
- Stainless steel DUPLEX (2205), SUPER DUPLEX (2507), HDPE and Titanium for hot sea water.

The CCPUs of the material constituting your filter order can be supplied to you on request.

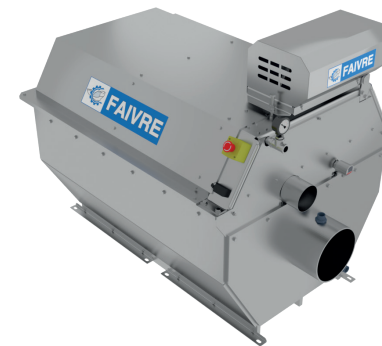
• Frame



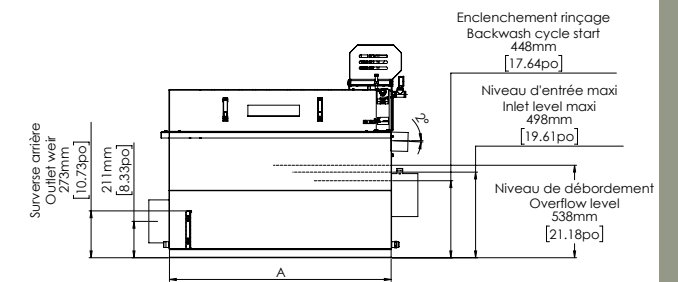
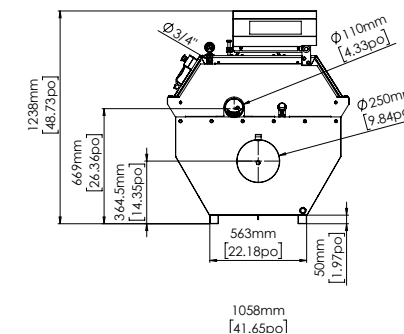
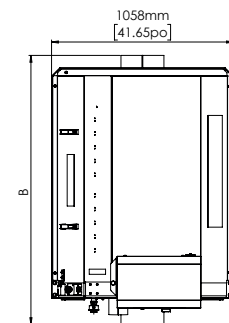
	2-80		4-80		6-80		8-80	
Net weight	185 kg	408 lbs	236 kg	520 lbs	293 kg	646 lbs	342 kg	754 lbs
Unit	cm	in	cm	in	cm	in	cm	in
Width	106	42	106	42	106	42	106	42
Height	121	48	121	48	121	48	121	48
Lenght (A)	75	29	119	47	163	65	207	82
Length (B)	89	35	133	52	177	70	221	87



• Stainless steel tank



	2-80		4-80		6-80		8-80	
Net weight	219 kg	483 lbs	279 kg	615 lbs	345 kg	761 lbs	404 kg	891 lbs
Net weight full tank	635 kg	1400 lbs	900 kg	1984 lbs	1180 kg	2601 lbs	1460 kg	3219 lbs
Unit	cm	in	cm	in	cm	in	cm	in
Width	106	42	106	42	106	42	106	42
Height	124	49	124	49	124	49	124	49
Length (A)	85	33	129	51	173	68	217	85
Length (B)	112	44	156	62	200	79	244	96



• Input by pipe

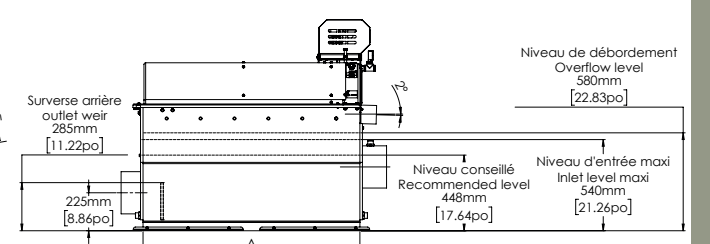
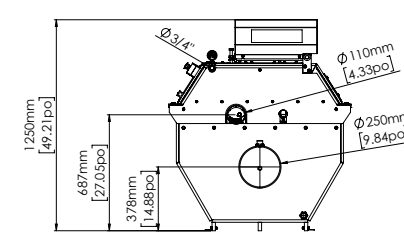
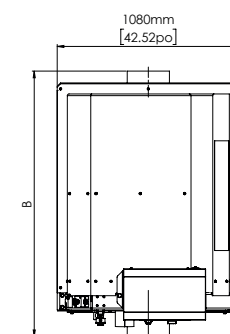
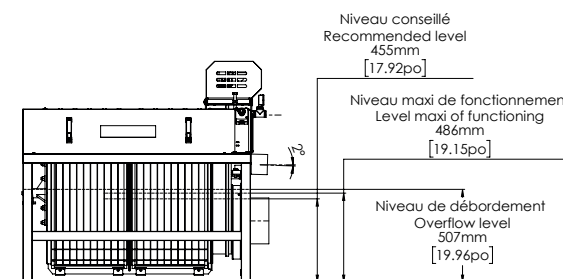
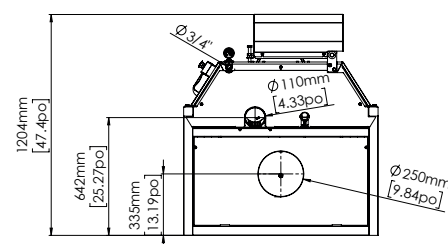
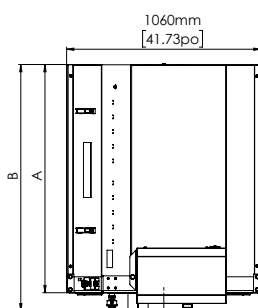


	2-80		4-80		6-80		8-80	
Net weight	195 kg	430 lbs	245 kg	540 lbs	302 kg	666 lbs	-	-
Unit	cm	in	cm	in	cm	in	cm	in
Width	106	42	106	42	106	42	106	42
Height	121	47	121	47	121	47	121	47
Length (A)	80	31	124	49	168	66	212	83
Length (B)	89	35	133	52	177	70	221	87

• HDPE tank



	2-80		4-80		6-80		8-80	
Net weight	219 kg	483 lbs	279 kg	615 lbs	345 kg	761 lbs	404 kg	891 lbs
Net weight full tank	635 kg	1400 lbs	900 kg	1984 lbs	1180 kg	2601 lbs	1460 kg	3219 lbs
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## Options



### Rinsing pump.

Vertical pump used for cleaning filter meshes. This pump is connected to the filter unclogging ramp. Its pressure is calculated so as to be adapted to the mesh of the filter.  
The pump is delivered with all the accessories for connection to the drum filter.

### Control box.

The control box is optional. It provides optimum control and safety for all our drum filters.

For the safety of people, the box includes:

- 1 lockable disconnecter.
- 2 emergency stops including 1 on the front of the cabinet, 1 other emergency stop is positioned on the drum filter.
- 1 fast-tripping current detector is also integrated in the box. This current detector allows the filter to stop instantly in the event that the filter suddenly becomes blocked. (which can happen when an oversized foreign body enters the filter with the water)

For the safety of the equipment, the box includes:

- 1 circuit breaker unit for the power supply to the cabinet.
- 2 Thermal circuit breakers to protect the motor of the drum filter and the motor of the rinsing pump.

The control box is delivered with:

- 5m cable for the power supply.
- 10m cable with M23 connector to easily connect the drum motor, the flushing pump, the emergency stop and the hood safety switch.
- 10m of cable with an M12 connector to easily connect the water level radar.

Ref. : - **FTC001-EAS**

Power supply 3 x 200 - 230 - 400 - 440 - 480 - 575 V 50Hz / 60Hz



### Level probe and (or) Timer

A level probe and a timer are 2 possible options in order to control the operation of the drum filter.

The level probe is a high-performance radar which only takes into account the level of the liquid and which is not disturbed by foam on the surface of the filtered liquid.  
The timer allows the drum to be started and stopped by simple programming on the component inside the cabinet using a screwdriver.

These two options are available separately or together on the boxes, please specify this when ordering.



**RADAR**



**TIMER**

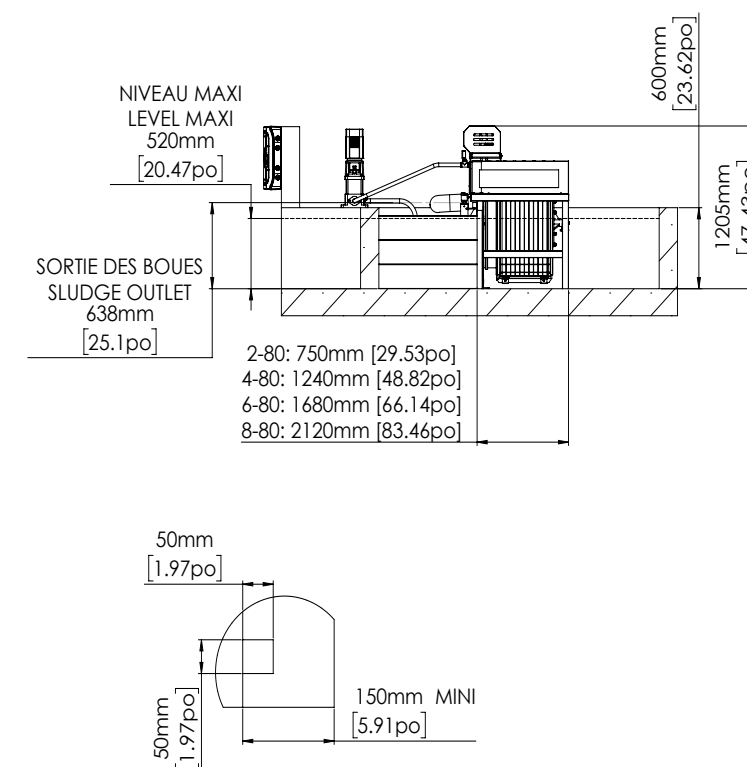
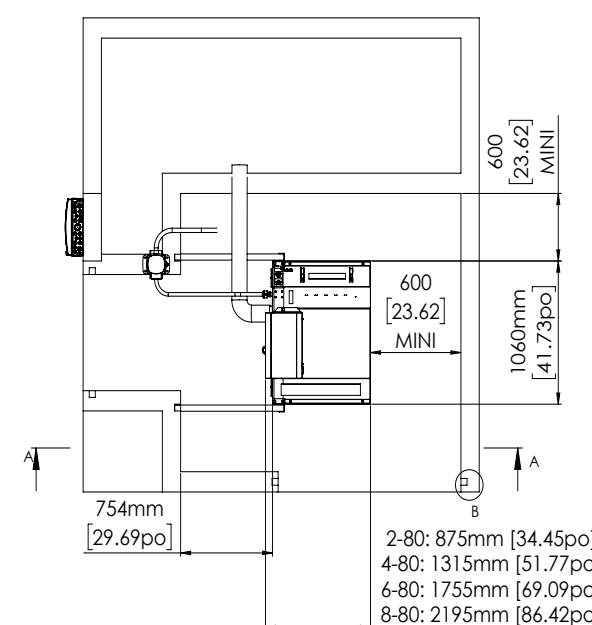
Ref. :

- **FTDSN4** Level radar **LR2050**

- **FTDT01** Cabinet timer **FTC001-EAS**

## Installation examples

### FT80 Frame



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