

# Automatic Pressurized Screen Filters, the FT series

## Cleaning by brushing

### Applications

Industry : Intake water, re-circulated cooling water, etc...

Agriculture : Source water filtration for irrigation.

Water Treatment : Mostly pre-filtration.

### Working Principle

The FT filters are normally installed on the pressure side after the pump.

For the cleaning of the filter, no dismounting of the filter is necessary.

The FT Screen Filters use a large filter area with a relatively slow flow velocity, implying high filtration efficiency.

The dirty water passes the filter element from inside and out. The impurities to eliminate will be deposited on the internal surface of the filter element and on the bottom of the filter.

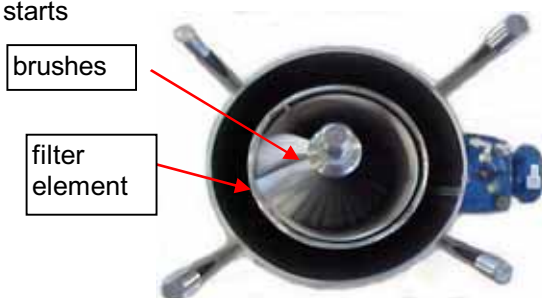
For the cleaning of the filter element, a drain valve opens and a violent water current circulates inside the filter element carrying the impurities away from the filter. Furthermore, during the cleaning cycle, internal brushes remove the remaining particles from the filter element.

Impurities are evacuated through the open drain valve.

When the drain valve is closed, the filter goes back to normal operation.

A manometer reads the pressure difference between the inlet and the outlet of the filter and controls the backwash frequency of the filter.

On the automatic version, a pressure differential initiates the backwash cycle, through a pre-selected setting of the pressure differential. The drain valve opens automatically and the electrical motor starts the internal brushing.



### Standard Materials of Construction :

Filter housing, accessories and filter element in stainless steel 304L

Option : stainless steel 316L

Support legs : stainless steel 304L

For FT 1010 models : housing in nylon

Other materials on request

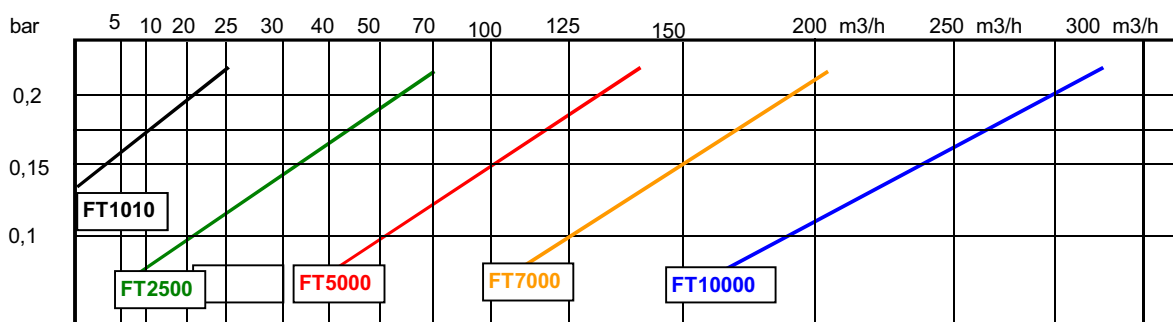


Diagram  
flow / pressure loss



# Automatic Pressurized Screen Filters, the FT series

## Cleaning by brushing

Model	Filter area cm <sup>2</sup>	Maximum flow	Inlet outlet	Purge connection	Cleaning mode	Net weight, kg
FT1010A	1100	25	1"1/2M	1"1/2	auto	19
FT2500A	2500	70	dn50 to 80	1"1/2	auto	28
FT5000A	5000	140	dn80 to 150	2"	auto	55
FT7000A	7000	200	dn100 to 200	2"	auto	65
FT10000A	10000	300	dn100 to 250	dn80	auto	135

Standard max. operating pressure : 10 bar.

On request up to 200 bar.

Other flow rates and connection sizes on demand.

Filtration levels : 125 - 2000 micron

The selection on a certain filter is principally based on the maximum flow at a defined filtration level. Consult factory to establish the limits.

### Needed Electrical supply for the Automatic Models :

380 V + Neutral. Other tensions on request.

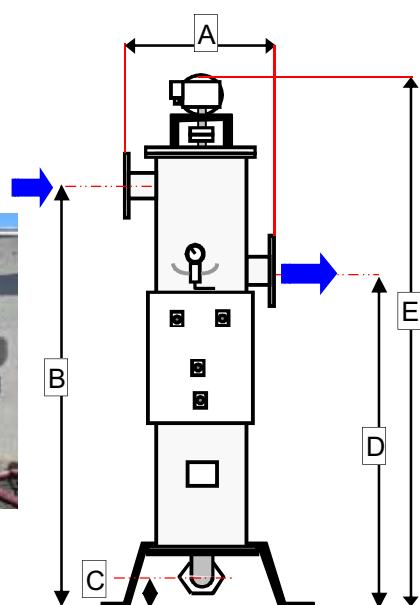
Power requirements : 0,12 kw

### Installation Instructions :

The FT Filters should be installed vertically and attached to the ground.

A check valve must be installed at the outlet of the filter to prevent any reverse flow which could damage the filter element.

An ideal FT installation includes 2 isolation valves, one at the inlet and one at the outlet of the filter.



Dimensions (in mm)

Model	A	B	C	D	E
FT1010A	230	735	125	700	950
FT2500A	280	1098	75	978	1400
FT5000A	434	1285	110	1045	1610
FT7000A	550	1285	110	1045	1610
FT10000A	590	1650	165	1420	1990

# Manual Pressurized Screen Filters, the FT series

## Cleaning by brushing

Model	Filter area cm <sup>2</sup>	Maximum flow	Inlet outlet	Purge connection	Cleaning mode	Net weight, kg
FT1010M	1100	25	1"1/2M	1"1/2	manual	12
FT2500M	2500	50	dn50 or 65	1"1/2	manual	23
FT5000M	5000	100	dn80 or 100	2"	manual	45
FT7000M	7000	150	dn100 or 150	2"	manual	60
FT10000M	10000	200	dn100 or 150	dn80	manual	120

Standard max. operating pressure : 10 bar

On request up to 200 bar

Other flow rates and connection sizes on demand

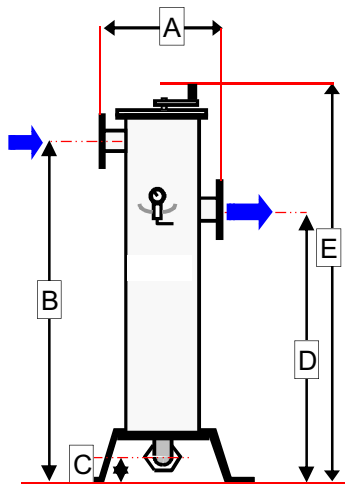
Filtration levels : 125 - 2000 micron

No dismantling of the filter necessary for cleaning; open the drain valve and turn the crank for brushing.

### Installation

The FT Filters should be installed vertically and attached to the floor. A check valve must be installed at the outlet of the filter to prevent back surge of flow which could damage the filter element.

It is recommended to install 2 isolating valves for possible dismantling of filter from system.



FT 5000 M 100 bar

### Dimensions (in mm)

Model	A	B	C	D	E
FT1010M	230	735	135	720	830
FT2500M	280	1098	125	980	1280
FT5000M	434	1285	110	1045	1490
FT7000M	550	1285	110	1045	1490
FT10000M	590	1650	165	1420	1870