



Automatic Pressure Filters

Turbidity Filters | Activated Carbon Filters

Iron - Manganese Removal Filters

ECF Series Automatic Pressure Filters

ECF/542 SERIES



Flow rate: 0.5 m³/h - 1.6 m³/h

Time based - GRP Pressure filters with high resistance to pressure and corrosion.

General Features

- Ease to use - Time based, simple programming on top mounted controller 542
- Low Service & maintenance cost - Simplified construction for quick access to replaceable parts
- Low capital investment - High performance, efficient filtration, with optimal energy consumption
- Flexible operation - Fully Automatic or Manually initiated washing process
- Safe operation: low voltage 24V power supply
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Note: Filter vessels can be made of specially coated completely anti-corrosive steel.

TYPE	Flow rate (m ³ /h) v=15m/h	Diameter (mm)	Height (mm)	Inlet / Outlet (thread)	Drain (hose connection)	Required space (mm)		
						Length	Width	Height
ECF 20	0.5	208	1052	3/4" male	1/2"	510	510	1260
ECF 40	0.8	257	1535	3/4" male	1/2"	560	560	1750
ECF 60	1.1	304	1485	3/4" male	1/2"	610	610	1700
ECF 100	1.6	369	1801	3/4" male	1/2"	670	670	2050

ECF/2400 SERIES



Flow rate: 1.9 m³/h - 3.6 m³/h

Time or volumetric based, high performance GRP pressure filters with sophisticated processing control via the 2400 computerized microprocessor valve.

General features

- Cost effective investment - High performance, efficient filtration, low energy consumption
- Fully automatic
- Ease to use - Computerized microprocessor control valve with 3 buttons and digital display
- Backwashing based on TIME or VOLUME or BOTH
- Ease in Service & Low maintenance cost - simplified mechanical parts for quick access to problem and low cost parts
- Safe operation: low voltage 24V power supply. Waterproof touch membrane panel.
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Note: Filter vessels can be made of specially coated completely anti-corrosive steel.

ECF Series Automatic Pressure Filters

TYPE	Flow rate (m ³ /h) v=15m/h	Diameter (mm)	Height (mm)	Inlet / Outlet (thread)	Drain (thread)	Required space (mm)		
						Length	Width	Height
ECF 120	1.9	406	1807	1" male	3/4" male	710	710	2050
ECF 150	2.6	469	1904	1" male	3/4" male	790	790	2100
ECF 200	3.6	552	1774	1" male	3/4" male	860	860	2100

ECF SERIES OPERATION



542 Control Valve

The washing process is performed by the 542 electromechanical control valve which is installed at the top of the vessel. A programmable timer controls the entire filter's operation.

Power supply: 24V AC - 50Hz, 50 Watt (220V/24V AC transformer is included)



2400 Control Valve

The washing process is performed by the 2400 microprocessor control valve installed at the top of the vessel, electronically controlling the entire filter's operation.

Power supply: 24V DC - 50Hz, 50 Watt (220V/24V DC transformer is included)

Via a digital display, the user can monitor the following:

- Remaining volume of filtered water before the backwash starts
- Step of washing cycle
- Remaining time for active cycle
- Total number of washing cycles performed by the system
- Elapsed time in days after the last performed washing cycle
- Peak flow since the last washing cycle

Note: Both filter types (ECF/542 and ECF/2400) give a continuous electrical signal output during the entire washing process, which can be used to activate any other compatible system (for example, outlet solenoid valve, indicative light or acoustic signal).

TFA Series Automatic Pressure Filters



TFA/MG SERIES

Flow rate: 4.4 m³/h - 10.4 m³/h

Time based high performance GRP pressure filters for medium flow rates.

General features

- Ease to use - Fully automatic operation. Time based, simple programming on top mounted Autotrol Magnum Control Valve
- Low service & maintenance cost
- Cost effective investment - High performance, efficient filtration, low energy consumption
- Flexible design - Automatically or Manually initiated washing process
- Safe operation: low voltage 12V power supply
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

TYPE	Flow rate (m ³ /h) v=15m/h	Diameter (mm)	Height (mm)	Inlet / Outlet (thread)	Drain (thread)	Required space (mm)		
						Length	Width	Height
TFA 300	4.4	610	2130	1 1/2" male	1 1/2" male	1200	1200	2600
TFA 500	7.0	770	2290	1 1/2" male	1 1/2" female	1400	1400	2700
TFA 700	10.4	938	2365	1 1/2" male	1 1/2" female	1550	1550	2800

TFA SINGLE @ TWIN SERIES



General features

- Cost effective investment - High performance - efficient filtration - low energy consumption
- Fully automatic
- Flexible design - Automatically or Manually initiated washing process
- Backwashing process can be controlled by several sources of automation
- Ease in Service & Low maintenance cost - High quality valves and piping
- Valves - Optional Pneumatic or Electrical
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Note: A special feature of the TFA/TWIN series is that one pressure vessel is back-washed with filtered water from the other vessel, eliminating the need for an intermediate filtered water tank.

TFA/SINGLE SERIES

Flow rate: 13.6 m³/h - 31 m³/h

GRP pressure filter with external piping system for the backwash operation.

TYPE	Flow rate (m ³ /h) v=15m/h	Diameter (mm)	Height (mm)	Inlet / Outlet (DN/mm)	Drain (DN/mm)	Required space (mm)		
						Length	Width	Height
TFA 900	13.6	1074	2800	50/63	50/63	1500	1600	3220
TFA 1300	17.5	1220	2800	50/63	50/63	1650	1750	3220
TFA 2300	31.0	1623	2880	80/90	80/90	2050	2150	3340
TFA 850 (*)	13.6	1074	2550	50/63	50/63	1500	1600	3000
TFA 1250 (*)	17.5	1220	2670	50/63	50/63	1650	1750	3040
TFA 1800 (*)	31.0	1623	2500	80/90	80/90	2050	2150	2900

(*) For use in containers or applications with limited height.

TFA Series Automatic Pressure Filters

TFA/TWIN SERIES

Flow rate : 14 m³/h - 62 m³/h

Two GRP pressure vessels in parallel with a commonly shared external piping system for the backwash operation.

TYPE	Flow rate (m ³ /h) v=15m/h	Diameter per column (mm)	Height (mm)	Inlet / Outlet (DN/mm)	Drain (DN/mm)	Required space (mm)		
						Length	Width	Height
TFA 500	14.0	770	2605	50/63	40/50	1770	1250	3005
TFA 700	20.8	938	2620	50/63	50/63	1950	1400	3020
TFA 900	27.2	1074	2800	65/75	50/63	2290	1500	3200
TFA 1300	35.0	1220	2800	80/90	50/63	2550	1530	3200
TFA 2300	62.0	1623	2880	100/110	100/110	3350	2000	3280
TFA 850 (*)	27.2	1074	2550	65/75	50/63	2350	1450	3050
TFA1250 (*)	35.0	1220	2670	80/90	50/63	2650	1530	3070
TFA 1800 (*)	62.0	1623	2500	100/110	100/110	3350	2000	2900

(*) For use in containers or applications with limited height.

TFA SERIES OPERATION



TFA/MG

Autotrol Magnum

Top mounted washing valve with an electronic microprocessor control regulating filter operation, by means of a programmable timer.

Power supply: 12VAC-50Hz, 20 Watt (220V/12V AC transformer is included)

TFA Single & Twin

The valves on the external piping system can be controlled in several ways:

SE10 panel

For stand alone filters, the integrated SE10 panel controls the plant's entire washing process. One filter set can be controlled per SE10 panel.

The SE10 panel is an easy to use microprocessor unit, having only a single button for daily operation and monitoring.

Power supply: 24V DC - 50Hz, 50 Watt (220V/24 DC transformer is included)



ROT4F

TEMAK PLC installed in reverse osmosis plants. If the filters are part of the pre-treatment of a TEMAK reverse osmosis system, the SE10 is not necessary as the ROT4F PLC can control the automatic valves on the pressure vessels, to perform the washing process.

Power supply: 24V AC- 50Hz



Alternative PLC module (Programmable Logic Controller)

Automation for process control, distributed control systems and networking in highly customized systems. PLC automates the operation phases of the filter to a large extent and allow remote control & monitoring.

TFB Series Automatic Pressure Filters

TFB SERIES

Flow rate: 10 m³/h - 100 m³/h

Time or Pressure drop based - epoxy coated steel pressure filters, with an external piping system, having automatic pneumatic valves for the washing operation process.



General Features

- Heavy duty for highly demanding applications - Epoxy coated steel filters
- Sufficient bed height for air scouring
- Filters suitable for Iron and Manganese removal
- Efficient filtration and washing Nozzle plate at the base of the filters
- Ease to use - Time or Pressure drop based
- Ease in Service - & Low maintenance cost simplified mechanical parts
- Cost Effective Investment - High performance, efficient filtration, low energy consumption
- Flexibility in the backwash options Automatically or Manually initiated washing process
- Safe operation: low voltage 12V power supply
- Materials - Specially coated steel completely anti-corrosive. For special requests, filters can be made of stainless steel or with rubber coating inside, applicable to all models
- Maximum working pressure: 6 bar

TYPE	Flow rate (m ³ /h) v=15m/h	Diameter (mm)	Height (mm)	Inlet / Outlet (DN/mm)	Drain (DN/mm)	Required space (mm)		
						Length	Width	Height
TFB 10	10	900	2900	65/75	65/75	1900	1700	3480
TFB 12	12	1000	2900	65/75	65/75	2000	1800	3520
TFB 14	14	1100	3000	65/75	65/75	2100	1900	3560
TFB 17	17	1200	3000	80/90	80/90	2200	2000	3620
TFB 20	20	1300	3100	80/90	80/90	2300	2100	3680
TFB 25	25	1500	3100	80/90	80/90	2500	2300	3740
TFB 30	30	1600	3200	100/110	100/110	2600	2400	3780
TFB 35	35	1700	3300	100/110	100/110	2700	2500	3820
TFB 40	40	1800	3300	100/110	100/110	2800	2600	3860
TFB 50	50	2100	3400	125/140	125/140	3100	2900	4000
TFB 60	60	2300	3400	125/140	125/140	3300	3100	4080
TFB 75	75	2500	3500	150/160	150/160	3500	3300	4180
TFB 100	100	2900	3500	150/160	150/160	3900	3700	4320

TFB Series Automatic Pressure Filters

TFB SERIES OPERATION

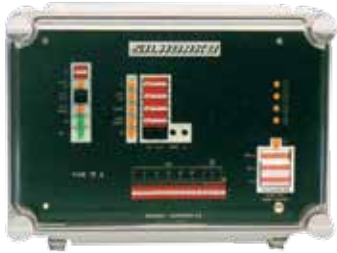
TFB/TF5

Operation:

Via external piping system, with pneumatically controlled butterfly valves, for filtration and washing operation. Two pneumatic pilot valves, acting as a sub-master of the main control unit, distributing signals to the butterfly valves of the system.

TF5 panel:

Separate electronic panel which controls the washing process based on a set time or a differential pressure. The TF5 can control up to 4 filters of filter sets, the feed water pump, the backwash pump, the air blower and the air compressor. A continuous electrical signal output during the entire washing process is used for activation of any other compatible systems (Indicative light, acoustic signal, etc). Series of light indicators showing the active washing cycle.



Power supply: 220V AC- 50HZ (12V AC- 50 Hz transformer is included)

Air scouring:

Made possible due to the sufficiently available freeboard.

Note: Air blower must be considered, if air scouring is to be performed.

AUTOMATIC PRESSURE FILTERS APPLICATIONS

Sectors	Applications	Feed Water Filtration	Dechlorination	Recycling (Before Deionizer)	Biological Treatment	Swimming Pools
Buildings & Residential		●				●
Chemical Industry		●				
Fish Farms		●				
Food & Beverages		●	●			
Green Houses		●				
Hospitals		●				
Hotels & Tourist Villages		●			●	●
Laboratories		●				
Marine		●				●
Metallurgy & Aluminium		●		●		
Municipalities		●			●	
Paper Industry		●				
Pharma & Cosmetics		●	●			
Restaurants & Kitchens		●	●		●	
Reverse Osmosis		●	●			
Spin, Textile & Dyeing Houses		●			●	
Washing Stations		●			●	
Water Bottling		●				



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