Automatic Pressure Filters

Turbidity Filters | Activated Carbon Filters
Iron - Manganese Removal Filters

TEMAK®
TOTAL WATER SOLUTIONS

TF Series Automatic Pressure Filters

TF/263 SERIES

Flow rate: 0.5 m³/h - 3.6 m³/h

Time based - GRP Pressure filters with control valve 263 and time programmer 742.

General Features

- Cost effective investment - High performance, efficient filtration, low energy consumption
- Fully automated operation
- Ease to use - Computerized microprocessor control valve with 4 buttons and digital display
- Flexible setting - Choice to start washing time or remote signal (remote mode)
- Flexible design - Automatic or manual start of reverse washing process
- Low maintenance & service cost
- Simplified mechanical parts for easy maintenance and low cost spare parts
- Safe operation: low voltage 12V AC power supply. Waterproof touch membrane panel
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

TYPE	Flow rate (m³/h) v=15m/h	Diameter (mm)	Height (mm)	Inlet / Outlet (thread)	Drain	Required space (mm)		
						Length	Width	Height
TF020	0.5	208	1082	pvc Φ32	Drain elbow ½" for rubber hose ¾"	510	510	1260
TF040	0.8	257	1565	pvc Φ32	Nozzle ¾" for rubber hose 1"	560	560	1750
TF060	1.1	304	1515	pvc Φ32	Nozzle ¾" for rubber hose 1"	610	610	1700
TF100	1.6	369	1825	pvc Φ32	Nozzle ¾" for rubber hose 1"	670	670	2050
TF120	1.9	406	1812	pvc Φ32	Nozzle ¾" for rubber hose 1"	710	710	2050
TF150	2.6	469	1904	pvc Φ32	Nozzle ¾" for rubber hose 1"	790	790	2100
TF200	3.6	552	1805	pvc Φ32	Nozzle ¾" for rubber hose 1"	860	860	2100

TF/263 SERIES OPERATION

263 Control Valve

The rinsing process is performed by 263 control valve with the 742 timer programmer, installed at the top of the vessel, and fully controls the operation of the filter.

Power Supply: 12V AC (220V/12VAC transformer is included)

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

- Stage of the rinsing process
- Remaining rinsing time
- Time in days since the last rinse

NOTE: The filters send an external electrical signal (closed contact) during rinsing, which can be used to activate any other compatible system (for example, outlet solenoid valve, indicative light or acoustic signal). In addition the rinsing can be started by a remote signal.

TFA Series Automatic Pressure Filters

TFA/MG SERIES

Flow rate: 4.4 m³/h - 10.4 m³/h

Filter wash time setting with vessels of centrifugal Fiber-Glass of high resistance to pressure and corrosion.

General features

- Ease to use - Fully automatic operation. Time based, simple programming on top mounted Autotrol Magnum Control Valve
- Low maintenance and repair costs. Simplified mechanical components for easy maintenance and low cost of spare parts
- Cost effective investment - High performance, efficient filtration, low energy consumption
- Flexible design - Automatically or Manually initiated washing process
- Flexible setting - Choice to start washing time or remote signal (remote mode)
- Safe operation: low voltage 12V power supply
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

TYPE	Flow rate (m³/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 SERIES (SIGNLE - TWIN - TRIPLE)

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 TRIPLE series is that one pressure vessel is backwashed with filtered water from the other vessel, eliminating the need for an intermediate filtered water tank.

TFA Series Automatic Pressure Filters

TFA/SINGLE SERIES

Flow rate: 13.6 m³/h - 31 m³/h

Filters made of centrifugal Fiber - Glass with external piping system.

TYPE	Flow rate (m³/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 (TWIN - TRIPLE)

Flow rate: 14 m³/h - 62 m³/h

Pressure filters made of centrifugal Fiber - Glass in parallel operation with a common system of external piping.

TYPE	Flow rate (m³/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/TWIN	14.0	770	2605	50/63	40/50	1770	1250	3005
TFA 700/TWIN	20.8	938	2620	50/63	50/63	1950	1400	3020
TFA 900/TWIN	27.2	1074	2800	65/75	50/63	2290	1500	3200
TFA 1300/TWIN	35.0	1220	2800	80/90	50/63	2550	1530	3200
TFA 2300/TWIN	62.0	1623	2880	100/110	100/110	3350	2000	3280
TFA 850/TWIN (*)	27.2	1074	2550	65/75	50/63	2350	1450	3050
TFA1250/TWIN (*)	35.0	1220	2670	80/90	50/63	2650	1530	3070
TFA 1800/TWIN (*)	62.0	1623	2500	100/110	100/110	3350	2000	2900
TFA1800/TRIPLE/ EL (**)	93	1600	2500	DN150/160mm	DN80/90mm	5300	4000	2500
TFA/2X1800/TWIN/ EL (**)	124	1600	2500	200mm	DN125/140mm	7100	4000	2500

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

(**) The space requirements for filters TFA1800 / TRIPLE / EL and TFA / 2X1800 / TWIN / EL, relate to their installation in a building. There is an alternative arrangement of the pipes to reduce the required width in order for them to be placed in a container.

TFA Series Automatic Pressure Filters

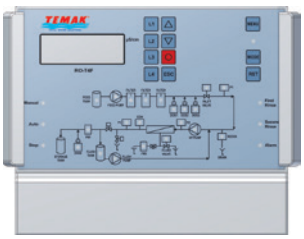
TFA SERIES OPERATION

TFA/MG

Autotrol Magnum

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

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



ROT4F

ROT4F is PLC type control panel of TEMAK that can be used either for autonomous filtration systems or for filters that have been installed as a pre-treatment of the reverse osmosis system. The ROT4F panel can control the automatic valves of pressure vessels to complete the rinsing process.

Upon request:

- Start rinsing at a specific time and day
- Manual start of rinsing
- Start of rinsing based on time operation or with signal from differential pressure switch for systems including a final tank of filtered water or reverse osmosis

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 24V 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 (m³/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/SE20 NTF

TFB/SE20 NTF

Operation:
It is carried out through the external piping with the pneumatics controlled butterfly valves. An electromagnetic control valve distribute the commands to the butterfly valves of the system.

Panel SE20 NTF
Separate electronic panel with digital LCD screen which controls the washing process based on time or differential pressure. SE20 NTF panel can control up to two filters in parallel operation or in series, the water feed pump, the backwash pump, the air blower, as well as the ventilation stage at the inlet of the filter in cases of iron and manganese removal.

There is an output signal throughout the wash which can be used to activate an audible or visual signal etc.

In addition, the washing can be started with a remote signal.

Electrical Supply: 24V DC (220V/24V DC transformer included).

Air washing system: Due to sufficient free space inside the filter, air washing can be performed.

Note: In case of air washing, the use of a blower is required.

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	●				

"Experts in Processing Water"

TEMAK®
TOTAL WATER SOLUTIONS

WATER VALUE AMBASSADOR
• ATHENS 1980 •

TÜVNORD ISO 9001 | TÜVNORD ISO 14001 | TÜVNORD ISO 45001 | TÜVNORD ISO 50001 | TÜVNORD ISO 22000 | TÜVNORD ISO 22301 | Certified ISO 13485 DQS Management System

62, Tatoiou str., GR 136 77, Acharnes (Menidi), Athens, Greece
+30 210 2581 583 +30 210 2533 989 info@temak.gr www.temak.gr