



SAF 6000

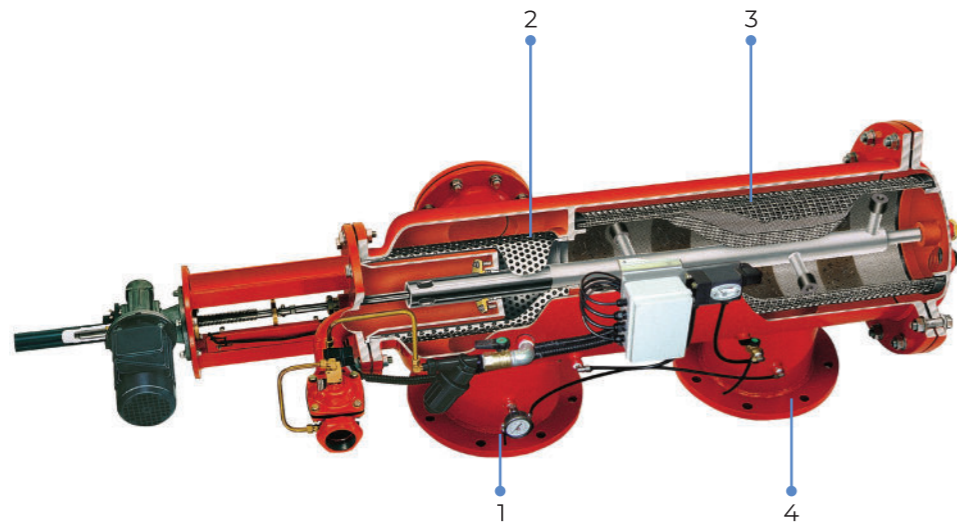
Reliable and durable self-cleaning
screen filter

Features

 <p>Continuous Flow No interruption of downstream flow during self-cleaning</p>	 <p>Suitable for Various Applications Ideal solution for filtration of poor quality water</p>	 <p>Reliable, Simple & Durable Designed for long-term, simple operation and minimal maintenance</p>
 <p>Large Filtration Area Advanced multi-layer weavewire screen for high TSS loads at high flow rates</p>	 <p>Adaptable Can be adapted for special applications with rubber lining, special coatings, various construction codes, pressure ratings, etc.</p>	

How the SAF 6000 filter works:

The Amiad SAF 6000 automatic filters are sophisticated, yet easy-to-operate, with a self-cleaning mechanism driven by an electric motor.



The Filtering Process

Raw water enters the filter inlet (1) and flows through the coarse screen (2) which protects the cleaning mechanism from large debris. The water passes through the fine screen (3), trapping dirt particles which accumulate inside the filter. Clean water flows through the filter outlet (4). The gradual dirt buildup on the inner screen surface causes a filter cake to develop, with a corresponding increase in the pressure differential across the screen. A pressure differential switch senses the increase and when it reaches a pre-set value (typically 7.0 psi), the cleaning process begins. The SAF 6000 filters support flow rates of up to 400 m³/h (1,760 gpm), with various screens designed to cover a range of filtration degrees, from 800 to 10 micron.

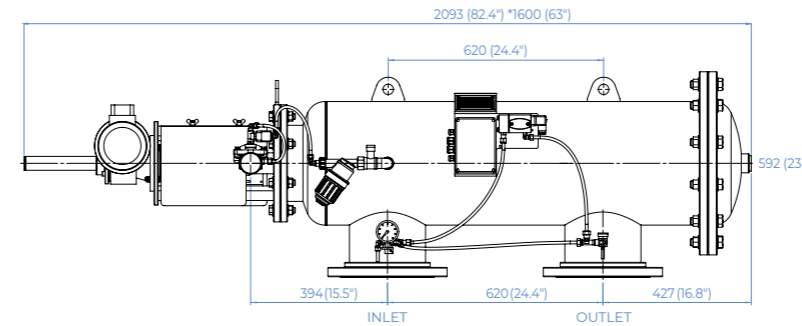
The Self-Cleaning Process

Cleaning of the filter is carried out by the suction scanner which spirals across the screen. The open exhaust valve creates a high velocity suction stream at the nozzle tips, which vacuum the filter cake from the screen. During the self-cleaning process, which takes 15-40 seconds, filtered water continues to flow downstream.

The Control System

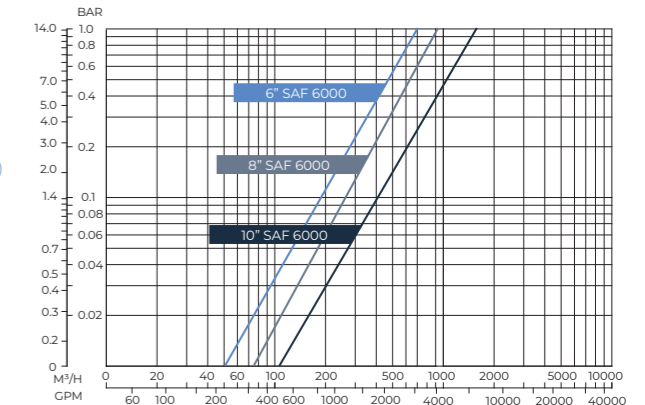
Operation and monitoring is done by PLC (Programmable Logic Controller). The PLC allows maximum operation flexibility and provides a wide range of control options from an independent stand-alone unit up to full integration within the customer's central control system.

Head Loss Graph (in clean water)



mm (inch)

*Approx. length required for maintenance



Technical Specifications

General data	
Max. flow rate*	400 m ³ /h (1,760 gpm)
Design pressure	10 bar (150 psi) 16 bar (240 psi) upon request
Min. operating pressure	2 bar (30 psi)**
Max. working temperature	60°C (140°F) 95°C (203°F) upon request
Filtration area	6000 cm ² (930 in ²)
Inlet / Outlet diameter	6" (150 mm), 8" (200 mm), 10" (250 mm)
Filter housing	10" (250 mm)
Weight: (empty)	250 kg (551 lb)

* Consult Amiad for optimum flow depending on filtration degree & water quality.

** For lower pressure please consult Amiad

Flushing data*	
Exhaust valve	50 mm (2")
Flushing time	40 sec.
Reject water volume per flush cycle	280 liter (74 gallon)
Flushing flow rate	25 m ³ /h (110 gpm)

* Standard nozzles at 2.5 bar (35 psi)

Construction materials*	
Filter housing and lid	Epoxy-coated carbon steel 37-2 (Stainless steel 316 available on request)
Screens	Stainless steel 316
Cleaning mechanism	Stainless steel 316, POM, PVC
Exhaust valve	Epoxy-coated cast iron, natural rubber
Seals	Synthetic rubber
Control	Aluminium, brass, stainless steel, PVC, nylon

* Amiad offers a variety of construction materials. Consult us for specifications.

Electronic control	
Control voltage	24V AC or DC
Electric motor	1/4 HP (0.18 Kw) 50/60 Hz
Rated operation voltage	Three-phase, 230/400/460V, 50/60 Hz Single-phase, 110/220V, 50/60 Hz
Current consumption	0.6 Amp. (with three-phase 400V)

Standard Filtration Degrees												
Stainless Steel Weavewire Screen												
micron	800	500	300	200	130	100	80	50	40	30	20	10
mm	0.8	0.5	0.3	0.2	0.13	0.1	0.08	0.05	0.04	0.03	0.02	0.01



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