



ABF | Automatic brush filters for high dirt-loads

MASTERS OF FILTRATION



Any Technology



Anywhere



Any Challenge



Any Water Source

Your water challenge.
Our filtration solution.

Amiad Water Systems is a world leader in water treatment and filtration solutions. For over 57 years Amiad has devoted its passion and commitment to developing a comprehensive line of water filtration systems for a wide range of industrial applications.

Our solutions are integrated into the core of water filtration systems in the following industries and applications: metal, plastic, energy, chemical, water treatment and salt water disposal.

We develop filters that are able to cope with any water quality, in any geographical location.

We've spent years mastering filtration technology so we can offer a wide range of filters for every industrial need, including screen, disc, microfiber or media technology.

We consider every challenge as an opportunity to work side by side with our customers to solve their problems.

We'll go anywhere to ensure our filters perform as expected, 24/7, every day of the year.

When you want a high-performance solution for your water filtration system, consult with Amiad. We focus on doing what we do best.

Amiad. Masters of Filtration.



Disc
Technology



Screen
Technology




Media
Technology



Microfiber
Technology

ABF FEATURES




Automatic & self-cleaning
Flushes based on pressure differential and/or time




Reliable & durable
Designed for long-term and simple operation



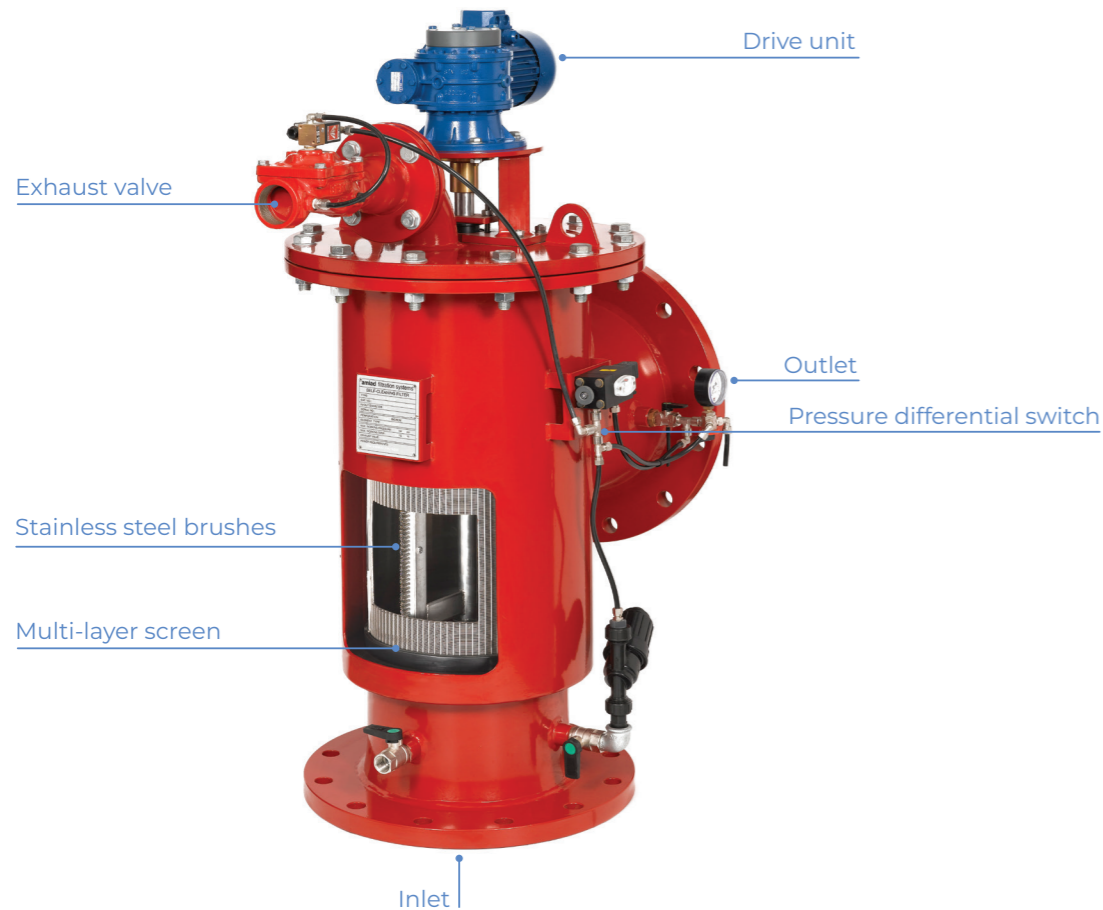
Heavy duty
For high dirt loads in rough conditions



Suitable for various applications
Ideal solution for filtration of poor quality water



ABF Parts



Scan to watch the ABF animation

Technical Specifications

Filter Type	ABF 3000	ABF 6000	ABF 10000	ABF 15000	Mega ABF 40000	Mega ABF 60000
General Data						
Maximum flow rate*	150 m ³ /h (660 gpm)	700 m ³ /h (3,100 gpm)	1,000 m ³ /h (4,400 gpm)	1,800 m ³ /h (8,000 gpm)	4,000 m ³ /h (17,600 gpm)	7,200 m ³ /h (32,000 gpm)
Inlet / Outlet diameter	3"-6" (80-150 mm)	8"-14" (200-350 mm)	8"-16" (200-400 mm)	14"-20" (350-500 mm)	16"-28" (400-600 mm)	20"-36" (500-900 mm)
Standard filtration degrees	Perforated screen 3,500, 2500, 1500, 800 micron Wedge Wire Screen 800, 500, 300, 200 micron					
Min. operating pressure	2 bar (30 psi) 1 bar (15 psi) upon request					
Max. operating pressure	10 bar (145 psi) 16 bar (232 psi) upon request					
Max. operating temperature	60°C (140°F) 95°C (203°F) upon request					
Electrical supply	230/480 VAC					
Weight [empty]	110 kg (245 lb)	213-260 kg (470-573 lb)	310-380 kg (683-838 lb)	650 kg (1430 lb)	2,250 kg (4960 lb)	6,200 kg (13670 lb)

Flushing Data				
Minimum flow for flushing	30 m ³ /h (132 gpm)	70 m ³ /h (300 gpm)	70-140 m ³ /h (300-600 gpm)	
Reject water volume per flush cycle	150 liter (40 gallon)	200 liter (53 gallon)	300 liter (80 gallon)	1,200 liter (317 gallon)
Flushing cycle time	15 seconds	15-30 seconds At 60 Hz		4 x 15-30 seconds
Exhaust valve	2" (50 mm)		3" (80 mm)	4 x 3" (80 mm)
Flushing criteria	Differential pressure of 0.5 bar (7psi), time intervals and manual operation			

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

Screen Data						
Filter area	3,000 cm ² (465 in ²)	6,000 cm ² (930 in ²)	10,000 cm ² (1550 in ²)	15,000 cm ² (2325 in ²)	40,000 cm ² (6200 in ²)	60,000 cm ² (9300 in ²)
Screen types	316 St. St. wedge wire 316 St. St. perforated screen					

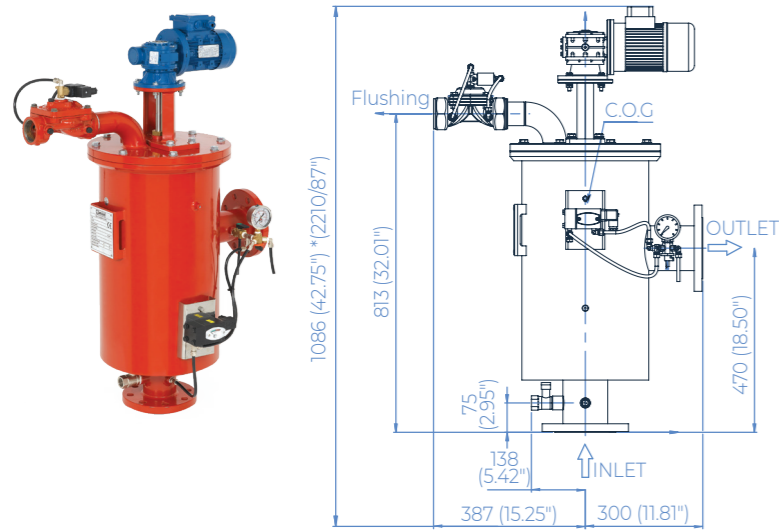
Control and Electricity						
Rated operation voltage	3 phase, 380/440V, 50/60Hz					
Electric motor	¼ HP Gear Output 14 RPM	¾ HP Gear Output 18 RPM	1 HP Gear Output 22 RPM	1.5 HP Gear Output 18 RPM	4 x 1 HP Gear Output 22 RPM	4 x 1.5 HP Gear Output 18 RPM
Current consumption	0.7 Amp.	1.5 Amp.	2.5 Amp.	3.0 Amp.	2.5 Amp.	3.0 Amp.
Control voltage	24 VAC					

Construction Materials*	
Filter housing and lid	Epoxy or Polyester coated carbon steel 37-2
Cleaning mechanism	Stainless steel 316L, PVC, Acetal
Exhaust valve	Epoxy-coated cast iron, Natural rubber
Seals	Synthetic rubber, Teflon
Control	Brass, Stainless steel, Nylon

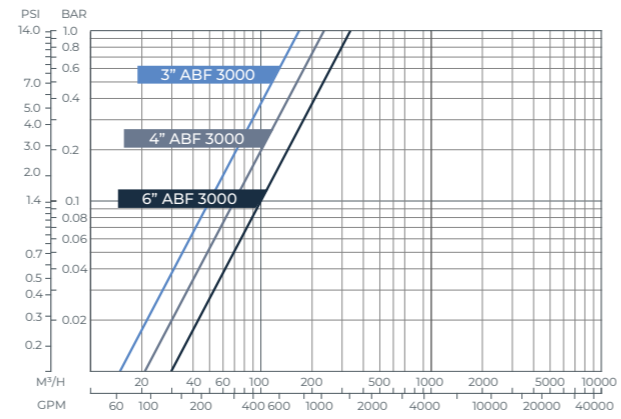
* Amiad offers a variety of construction materials. Please consult us for specifications.

ABF Models

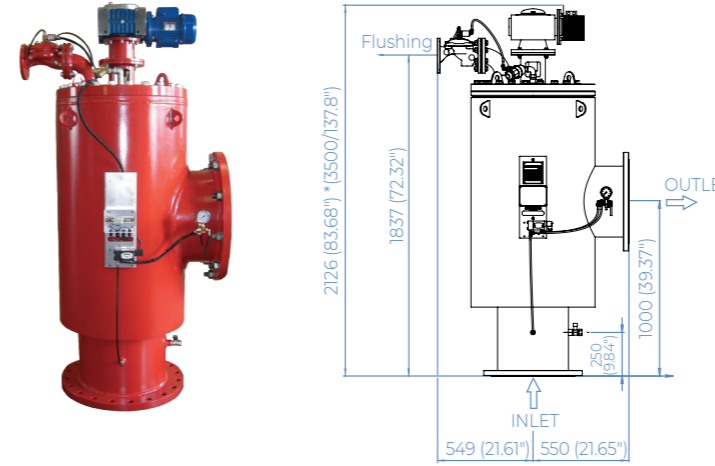
ABF 3000



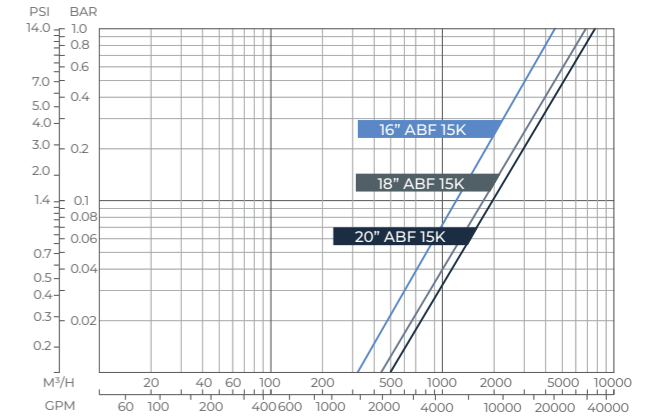
Head Loss Graph (in clean water)



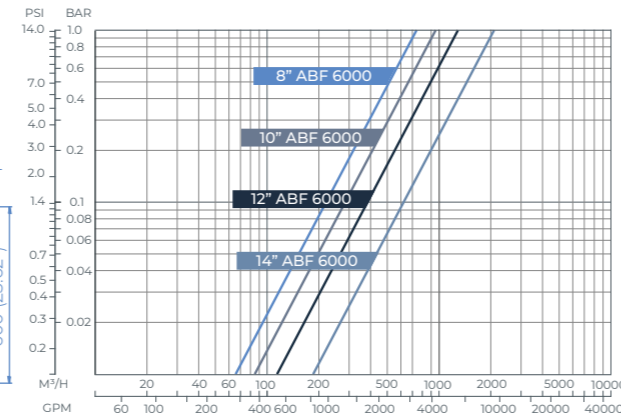
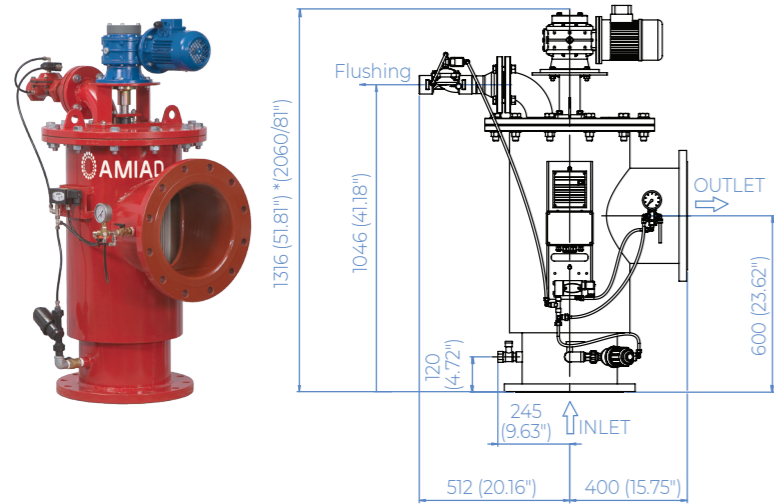
ABF 15000



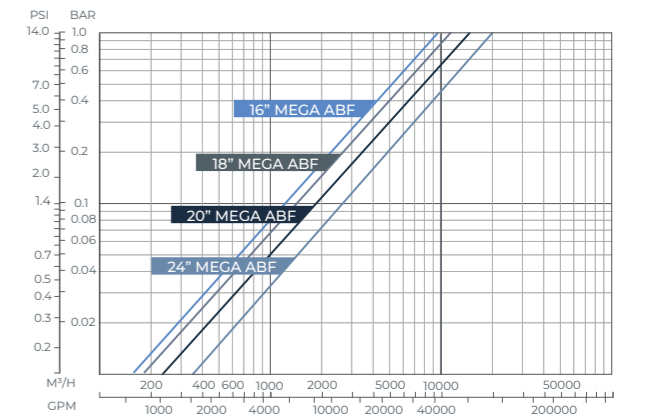
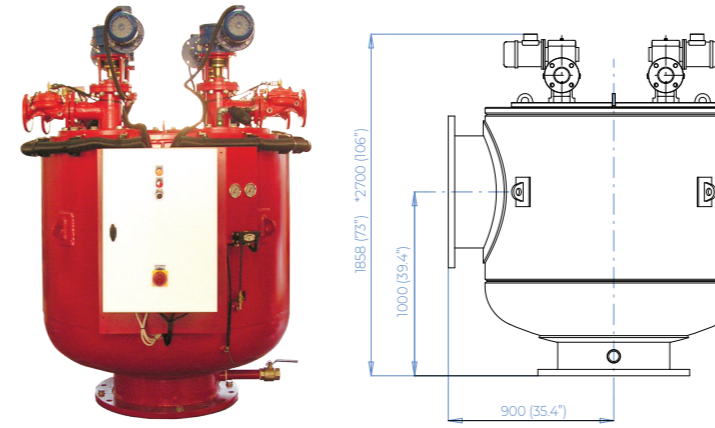
Head Loss Graph (in clean water)



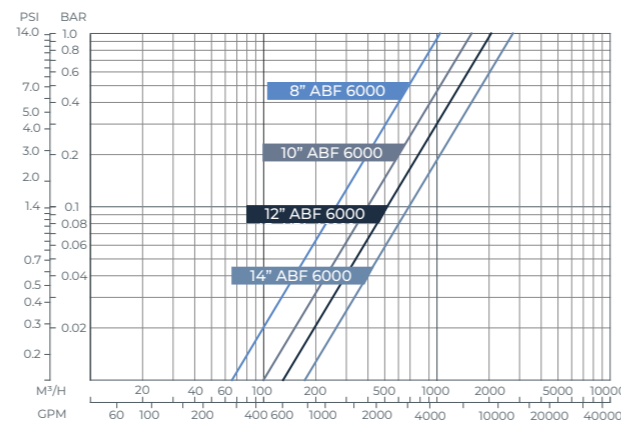
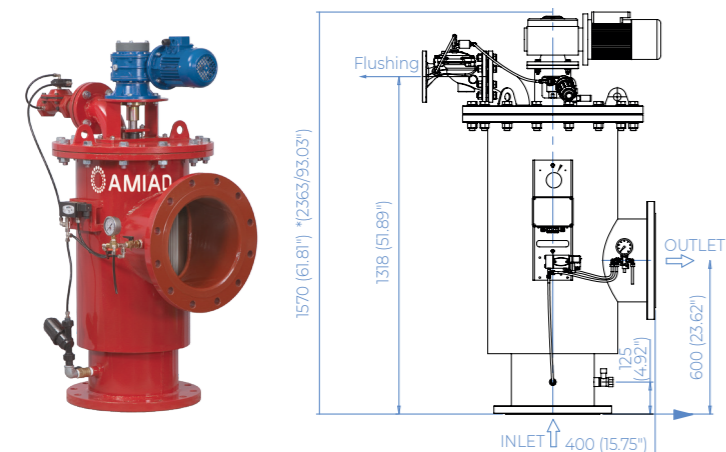
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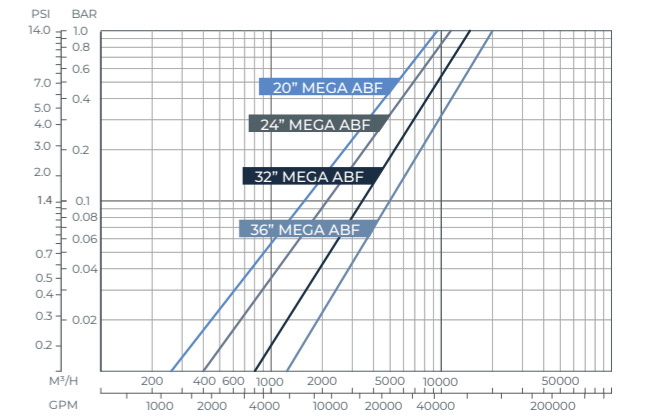
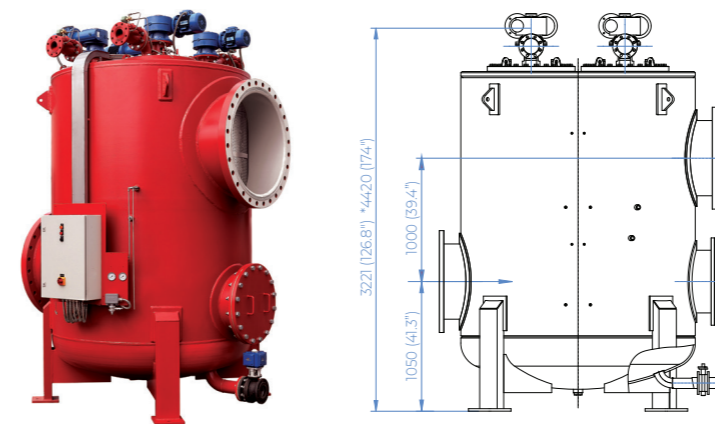
ABF 40000



ABF 10000



ABF 60000



mm (inch)
*Approx. length required for maintenance

mm (inch)
*Approx. length required for maintenance



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FILTRATION**

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