

Amiad Filtration Systems



PRODUCT OVERVIEW

*Clear Solutions
to Water
Filtration Problems*

2000





AMIAD: Clear solutions to water filtration problems

In an increasingly crowded world, the need for clean water concerns everyone involved in sustaining our quality of life into the twenty-first century.

For more than three decades, Amiad Filtration Systems has been the leader in providing clean water. Using its knowledge and experience, Amiad has developed a comprehensive line of exceptionally efficient automatic self-cleaning filters and manual filters for use in industry, municipalities and irrigation.

Amiad's customer service network is organized in parallel with its distribution system. Subsidiaries and distributors are selected according to their experience, and especially their ability to stock parts and maintain a high level of customer service. Amiad's customer support department, includes a team of engineers who are ready to provide on-site service and advice whenever, and wherever, needed.

Amiad's success is due, in great measure, to its timely introduction of key products, its prudent investment in staff education and production equipment, its commitment to the principles of R&D, the accumulated expertise born of long experience -- and most importantly, its dedication to its customers.

Amiad's commitment to filtration, has given it the basis to develop and provide comprehensive filtration solutions. Macro filtration requirements are available down to 10 microns. Amiad offers a wide variety of filters, filter elements, materials, filtration ranges, sizes and methods, in both automatic and semi-automatic operating systems. Self-cleaning automatic filters are available in individual system packages that can handle virtually any flow rate. The synergy of these elements enables Amiad to offer the most extensive line of filtration products in the world, including:

- 3/4" to 3" Corrosion-resistant plastic filters
- 2" to 14" steel filters, with high flow capacities
- Automatic self-cleaning filter units
- Media filters and multi media deep-bed filters
- Multiple options and accessories

FILTER ELEMENTS

A wide range of filter elements and filtration ranges are available for the different filters. This will allow optimum suitability for different solutions of filtration problems, taking into consideration the type, concentration and particle size of suspended solids, and in accordance with the filtration method.

Grooved Disc Elements

These elements are made up of numerous thin plastic discs that are stacked onto a telescopic core. Both sides of the discs are grooved and the grooves cross each other when piled up and tightened together. The disc element provides in-depth filtration with a high capacity to retain organic matter.

The unique telescopic design also provides ease of service and cleaning.

- For use with 1"-3" plastic filters and 2"-4" steel filters.

Screen Elements

Screen elements are offered in a variety of configurations, depending on the type of filter housing, application and the desired degree of filtration.

- Molded plastic construction with stainless steel screens for 3/4"-4" filters.
- Perforated (coarse filtration) or Weavewire (fine filtration) stainless steel screens for 2"-14" filters.



Amiad Filtration Systems have provided filtration solutions for virtually every water filtration requirement.

Applications include:

- Supply Water
- Cooling Water
- Process Water
- Wastewater

In industries such as: chemical and petrochemical industries, off-shore, power plants, mining, plastics, steel, food industry, paper and textile industries. Water treatment, municipal water supply: in hospitals, commercial centers, high-rise buildings, hotels, golf courses, irrigation, and many more.



In the last few years, Amiad has become a worldwide center for filtration studies. Research and tests are conducted under the factory supervision and published around the world. And the guide line is always - finding the right filtration solution for a specific water filtration problem.



SELECTING THE RIGHT FILTER FOR YOU

Amiad filters differ from each other both in inlet/outlet diameter, in filter area and in the options of filter element to be used. Moreover, there are variations in their hydraulic designs.

In selecting a filter appropriate to one's needs, the following factors should be taken into consideration:

1. The required degree of filtration.
2. Working flow rate.
3. Working pressure and hydraulic specifications of the water system.
4. Water quality - the concentration of suspended solids and their characteristics.

In principle, a larger filter is necessary to cope with dirtier water with a finer degree of filtration.

For specific assistance in choosing the optimum solution for your installation, you are invited to exploit the knowledge and experience accumulated in the past 30 years of filtration at Amiad.



plastic filters



3/4" Filter



1"-Super



1 1/2"-Compact



1 1/2"-Super

- All-purpose plastic filters from 3/4" to 3" in diameter. Filtration degrees available from 3500 to 22 micron.
- High particle retention: Large filter area allows long intervals between cleaning.
- Non-corrosive and durable: Engineering plastics; No metal parts in contact with water.
- Easy maintenance: The filter elements can be extracted from the filter housing for rinsing.
- Interchangeable filter element types and a wide range of filtration degrees, to suit different requirements.
- Minimal Energy Loss: Extremely low pressure loss at high flow rates.
- Multi-Purpose: Suitable for irrigation, industrial, domestic and laboratory applications.

Filter model	Cat. No.	Inlet/Outlet diameter [mm]	Maximum flow rate [m ³ /h]	Weight [kg]	Filter area [cm ²]	
					Screen	Disc
3/4"	01-07	20	3	0.28	110	-
1"C	01-10	25	5	0.28	110	-
1"S	01-12	25	7	0.63	170	200
1 1/2"C	01-15	40	15	0.86	170	200
1 1/2"S	01-16	40	15	1.2	340	460
2"T	01-202	50	25	4.4	465	790
2"T-S	01-222	50	25	5.4	700	1185
3"T	01-302	80	50	5.7	700	1185
3"LT-S	01-303	80	50	11	930	1580

Maximum working pressure: 10 bar

Maximum temperature at 4 bar: 60°C

FILTRATION DEGREES AVAILABLE

Filter type	Element type	Filtration degrees [micron]
3/4"-1"C	Weavewire	22, 50, 80, 100, 130, 200, 300, 500, 800
1"S-1 1/2"S	Disc element	25, 100, 130, 250
	Weavewire	22, 50, 80, 100, 130, 200, 300, 500, 800
2"-3"	Disc element	100, 130, 180, 250
	Weavewire	50, 80, 100, 130, 200, 300, 500
	Perforated	800, 1500, 2500, 3500

TURBOCLEAN

A revolutionary solution for non-stop filtration: Particles are pushed to the debris area, and the filter screen remains clean at all times. The Turboclean consists of an Amiad screen cylinder with a Torpedo inserted inside the screen.

The Torpedo is a static hydrodynamic device which fills most of the space inside the screen cylinder, creating high velocity along the screen, thus preventing particles from remaining on it.

Periodical opening of the drain port will release the dirt from the debris area without the need to open the filter for cleaning.

AUTOFLUSH

Automatic flushing of Turboclean filters: The Autoflush filters are supplied with a hydraulic valve that opens automatically by means of an electronic timer. The electronic timer allows determination of the flushing duration and the flushing intervals.

For filters with more than one flushing valve, Amiad offers the modular timers which are used for 3"LT-S filter (as shown), or for two or more filter units operated in sequence.

BRUSHAWAY

For Semi-automatic cleaning of Amiad "T" filters. The unit is made of nylon brushes on a PVC frame which is threaded into the filter lid and the brushes are then inserted inside the stainless steel screen.

A simple handle outside the filter, allows brushing away particles from the screen surface, removing them from the filter. Brushing is done during the filtering process without having to stop the water supply.

For use with filtration degrees of 200 microns and coarser.

SCANAWAY

The scanaway assembly consists of a PVC pipe with hollow wings that face the inner side of the screen. With a simple turn-of-a-handle, while the flushing port is open, the scanner rotates inside the screen and sucks in the dirt from the screen surface, expelling it from the filter.

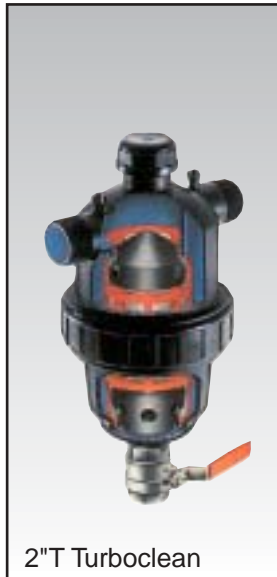
Scanning is done during the filtering process without having to stop the water supply.



2"T Filter



2"T-Super



2"T Turboclean



2"T Scanaway



3"T Brushaway



3"TL



3"LT-S Autoflush



3"LT-Super

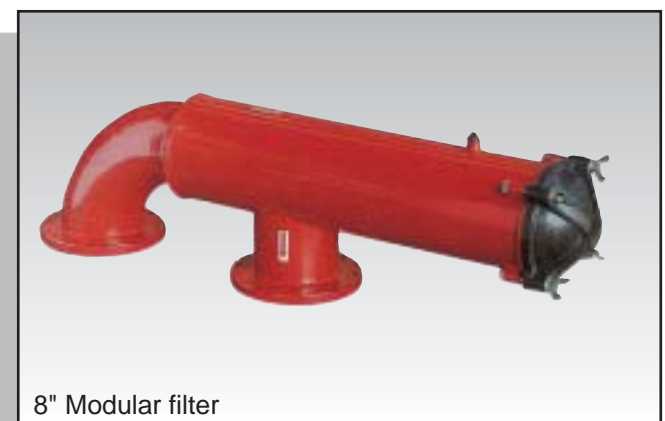
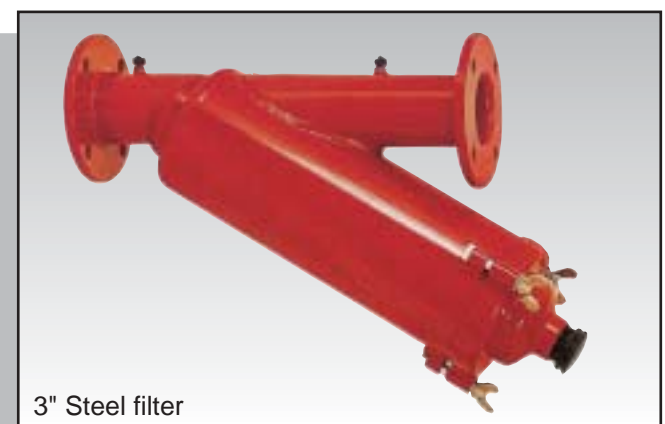
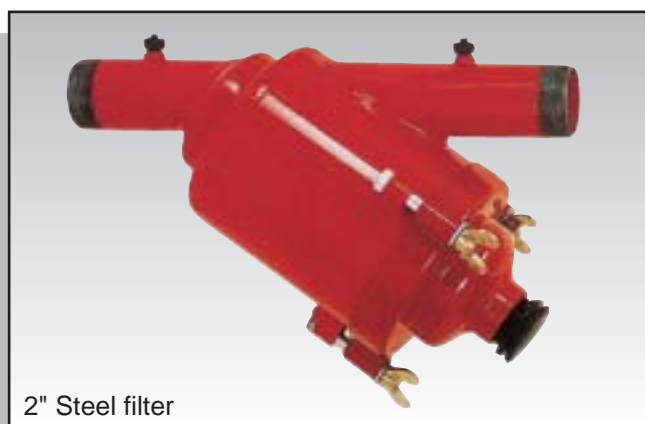
steel filters

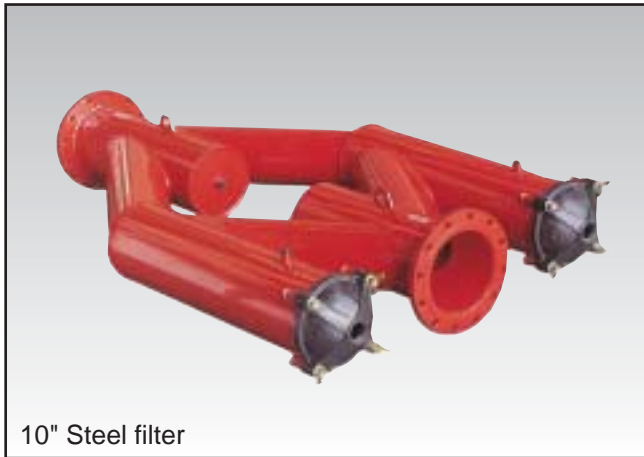
- Corrosive Resistant: Housings are manufactured from high quality steel and are protected by Phosphate pre-treated polyester (Armadillo Armor Coating).
- Filtration degrees available from 3500 to 50 micron.
- Various types of filter elements are available to solve different types of contamination problems.
- No tools required for maintenance.
- Semi-automatic option: Can be equipped with various automatic devices or semi-automatic cleaning devices such as Turboclean, Autoflush and Brushaway Assembly.
- Available with a wide variety of flanges as per European (DIN), British (BSTD), American (ASA) or Japanese (JIS) standards.

Filter model	2"	3"	4"L	4"C	4"S	6"C	6"S	8"	10"	12"	14"	
Catalogue number	02-020	02-030	02-041	02-040	02-042	02-060	02-062	02-08	02-10	02-12	02-14	
Inlet/Outlet diameter [mm]	50	80	100	100	100	150	150	200	250	300	350	
Maximum flow rate [m ³ /h]	25	50	80	80	80	160	160	300	500	650	1000	
Weight [kg]	8.1	18.2	19	30	38	43	60	76	191	280	365	
Filter Area [cm ²]	Screen cylinder	700	1430	1430	2175	2740	2740	5720	5720	11440	17160	22880
	Disc element	790	1700	-	2600	-	-	-	-	-	-	-

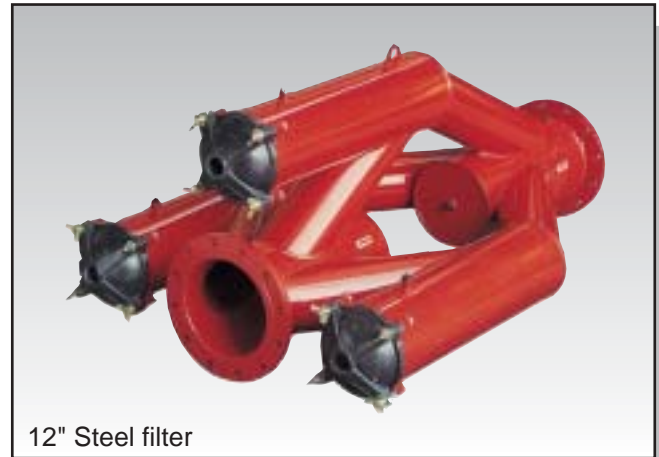
Maximum working pressure: 10 bar

Maximum temperature: 90°C





10" Steel filter



12" Steel filter

FILTRATION DEGREES AVAILABLE

Filter type	Element	Filtration degrees [micron]
2", 3", 4"C	Disc element	100, 130, 180, 250
2" - 14"	Weavewire screen	50, 80, 100, 130, 200, 300, 500
	Perforated screen	800, 1500, 2500, 3500

TURBOCLEAN

A revolutionary solution for non-stop filtration: Particles are pushed to the debris area, and the filter screen remains clean at all times.

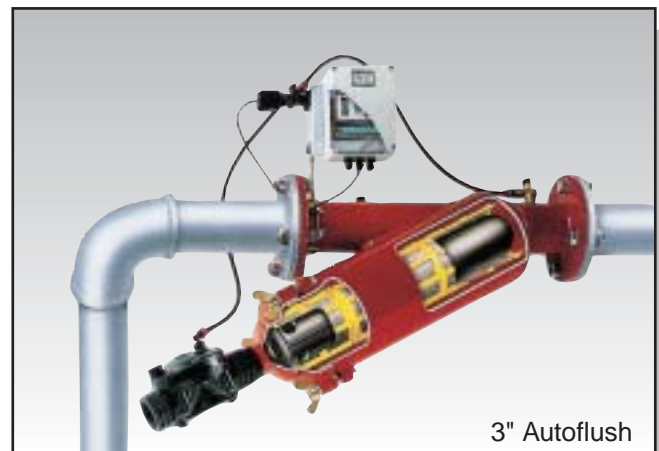
The Turboclean consists of an Amiad screen cylinder with a Torpedo inserted inside the screen. The Torpedo is a static hydrodynamic device which fills most of the space inside the screen cylinder, creating high velocity along the screen, thus preventing particles from remaining on it. Periodical opening of the drain port will release the dirt from the debris area without the need to open the filter for cleaning.



8" Turboclean

AUTOFLUSH

Automatic flushing of Turboclean filters: The Autoflush filters are supplied with a hydraulic valve that opens automatically by means of an electronic timer. The electronic timer allows determination of the flushing duration and the flushing intervals. For filters with more than one flushing valve, Amiad offers modular timers.



3" Autoflush

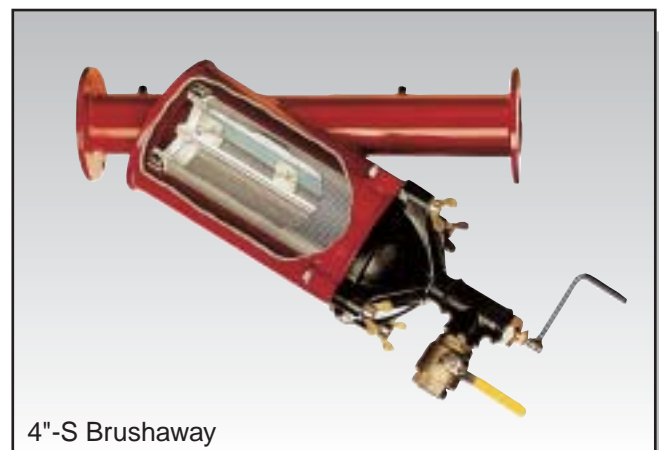
BRUSHAWAY

For Semi-Automatic cleaning of steel filters 2"-14". The unit is made of nylon brushes, on a stainless steel frame, which is threaded into the filter lid and the brush assembly is then inserted inside the stainless steel screen. A simple handle outside the filter lid, brushing away particles from the screen surface, and remove them from the filter. Brushing is done during the filtering process without having to stop the water supply.

For use with filtration degrees of 200 microns and coarser.

SCANAWAY

The scanaway assembly consists of a PVC pipe with hollow wings that face the inner side of the screen. With a simple turn-of-a-handle, while the flushing port is open, the scanner rotates inside the screen and sucks in the dirt from the screen surface, expelling it out from the filter. Scanning is done during the filtering process without having to stop the water supply. Available for steel filters 2"-4".



4"-S Brushaway

automatic filters

- Real-time self-cleaning filters: clean themselves automatically when head-loss across the screen reaches a preset value.
- Uninterrupted water supply: the filter cleans itself in just seconds without interrupting downstream flow.
- Corrosion-proof: the filter housing is made of multi-layer epoxy-coated steel.
- Modular structure: different diameters, suitable for use singly or in manifold configuration providing optimal solutions to meet specific customer requirements.
- Flexibility of control options: electric control boards to suit specific needs. Flushing according to pressure differential and/or according to time. Continuous flushing, alarm signals, flushing counter, and more.
- Wide range of applications including: water supply, cooling water, process water, wastewater.
Industries: steel plants, plastic plants, car industries, food processing, municipal water supply, irrigation, golf... and more.

Filter model	TAF	SAF-1500	SAF-3000	SAF-4500	SAF-6000	ABF-L 6000	ABF-L 10000	EBS	Mega EBS
Catalogue number	03-9	03-7	03-6	03-2	03-3	03-1	03-11	03-4	03-5
Inlet/Outlet diameter [mm]	50/80	50-100	80-150	100-200	150-250	200-350	200-350	200-350	400-600
Maximum flow rate [m ³ /h]	50	80	150	250	400	700	1,000	1,000	4,000
Max. working pressure [bar]	10	10	10	10	10	10	10	10	10
Max. temperature [°C]	60	80	80	80	80	80	80	80	80
Filter area [cm ²]	700	1,500	3,000	4,500	6,000	6,000	10,000	10,000	40,000
Flow for flushing [m ³ /h]	8	7	11	15	25	50	50	50	50-200
Weight* [kg]	14.6	84	115	165	260	260	380	380	2250

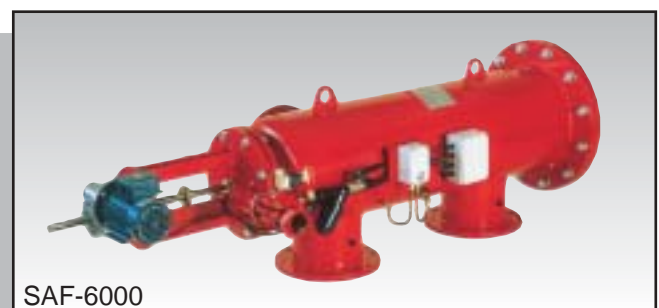
*Weight per unit changes according to model and inlet diameter. Weight given here refers to heaviest version.

FILTRATION DEGREES AVAILABLE

Filter model	Filtration degrees [micron]
TAF series	50, 80, 100, 130, 200, 300, 500
SAF series	10, 25, 50, 80, 100, 130, 200, 300, 500
ABF-L series	200, 300, 500, 800, 1500, 2500, 3500
EBS series	10, 25, 50, 80, 100, 130, 200, 300, 500, 800

"SAF" SERIES

- For flow rates up to 400 m³/h per unit.
- Electrically operated on-line filter.
- Minimum wasted water during flushing: Less than 1%
- Cleaning mechanism consists of a suction scanner that sucks in the filter cake from the inner surface of the screen in a spiral movement.
- Electronically monitored cleaning, with flexibility of control options.





ABF-L

"ABF" FILTERS

- For flow rates up to 1000 m³/h per unit.
- ABF filters are suitable for high dirt load filtration requirements and heavy duty conditions.
- Cleaning mechanism consists of 3 stainless steel brushes revolving inside the screen cylinder.

"TAF" SERIES

- For flow rates up to 50 m³/h.
- Compact filter unit that needs minimum water for flushing.
- The hydraulic series is available with hydraulic or electronic control.
- Also available TAF Electric filter series.



2" TAF

"EBS" SERIES

- For flow rates up to 4,000 m³/h per unit.
- No interruption of flow downstream during flushing.
- Minimum water wasted during flushing.
- Available with filtration down to 10 microns.



EBS



Mega EBS

customized filter units

Amiad offers a wide range of options for specific filtration solutions, both manually and automatically cleaned.

- Stainless steel filter housings, 316L
- High pressure filter housings, from 16 bar operating pressure.
- Rubber lined filter housings for sea water.
- Special colour coating available on request, as per RAL code to meet customer special project requirements.
- Amiad offers design and assembly of complete filtration systems including valves, manifolds and other accessories. Amiad has extensive experience in solving space restrictions, adopting to customers' control systems, delivery of all-inclusive solutions with ease of maintenance.



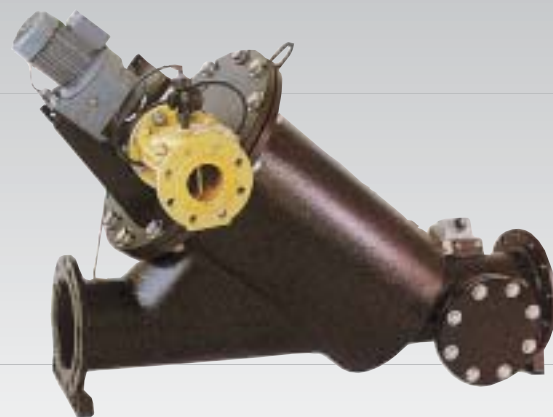
Modular ACE, stainless steel



High pressure filtration system



ABF high pressure



ABF-Y rubber lined



SAF-6000 rubber lined



SAF-6000 stainless steel

media filters

- Media and multi-media deep-bed filters for agriculture, green houses and water treatment purposes.
- Complete filtration solutions: Modular or custom designed. Manual or automatic backwash systems, complete with manifolds, valves and control units.
- Advanced designing allows perfect water distribution during filtering and backwashing.
- Wide range of vessel types and sizes allows adaptation to many filtration applications.
- For use with different bedding: Gravel, Sand, Anthracite, Active Carbon.

Nominal size	1 1/2"/16"	2"/20"	2"/24"	3"/30"	3"/36"	3"/42"	4"/48"
Catalogue number	04-3161	04-3202	04-3242	04-3303	04-3363	04-3423	04-3484
Flow rate range [m ³ /h]	10	20	28	35	50	75	90
Vessel diameter [mm]	400	500	600	750	900	1050	1200
Inlet & outlet [mm]	40	50	50	80	80	80	100



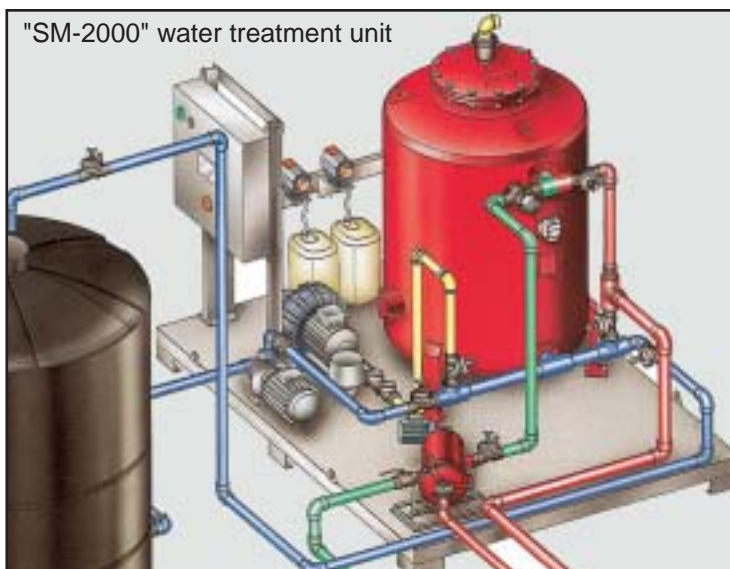
30" sand filter, cutaway



Sand filters for irrigation



3 x 36" filtration system



"SM-2000" water treatment unit

SM-2000

- "SM-2000": Water treatment units for fine filtration: Down to 1 micron; less than 1 NTU.
- Skid mounted units for water treatment, are available in standard containers.

Unit type	SM-3	SM-7	SM-12	SM-20
Flow rate range [m ³ /h]	0.5 - 3	3 - 7	7 - 12	12 - 20
Inlet / Outlet pipe diameter [mm]	32	40	50	63
Media filter diameter [cm \ inch]	50 \ 20	75 \ 30	90 \ 36	120 \ 48
Total height [cm]	280	280	280	280
Dimensions [W x L cm]	220 x 300	220 x 300	220 x 300	220 x 300
Weight [kg]	1900	2700	3200	4250



amiad filtration systems

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Amiad products undergo constant monitoring for quality control. The manufacturer reserves the right to incorporate changes and improvements in the products without prior notice.