



山姆过滤器
SAM-FILTER

过滤器、过滤袋专业生产厂家

Professional manufacturer of filtration system

上海山姆环保设备有限公司

SHANGHAI SAM ENVIRONMENT PROTECTION CO.,LTD.

产品手册

PRODUCT CATALOG

SAM[®]

产品已通过 ISO9001: 2000 质量管理体系认证



山姆过滤器
SAM-FILTER



Shanghai SAM Environmental Protection Co., Ltd is located in Jin Qiao Export Processing Zone in Pudong New District, Shanghai, China. It is an ISO 9001:2000 certified high technical environmental protection company specialized in manufacturing and developing filter products. We currently have advanced equipment, strict quality control system, and provide strong technique support to our customers worldwide.

Our products are widely used in various fields such as Fine Chemistry、Water Treatment、Industrial Painting、Paper Making、Automobile and Metal Processing、Food and Beverage、Pharmacy、Petroleum and Petrification Industries, etc. Our main products include bag-filter housings、filter bags、dust collection filter bags、strainers、automatic self cleaning filters、automatic backwashing filters、plastic filters、stainless steel heat preservation filters、vortex self cleaning filters, and filtration equipments, etc. They can be used alone or combined to meet various industries filtration needs. At the same time, we have focused on researching and developing in the gas field in order to satisfy our domestic and overseas customers' requirements.



>> The range of application

Filter bag housings are precision manufactured for industrial processes and applications including:

- | | |
|----------------------------------|----------------------------|
| Adhesive | Automotive |
| Beverage | Biofuel |
| Chemical and Petrochemical | Cosmetics and Toiletries |
| Cutting Fluids and Cooling Water | Dairy Products |
| Peteregents | Electronics |
| Foods | Ink/Dyes |
| Lacquers | Lubrieants |
| Oils | Paints and Powder Coatings |
| Pharmaceutical | Resins |
| Varnishes | Water Treatment |



Product Description

Bag filter is typically used in applications requiring gross particulate removal.

- Filter bags are made of polypropylene or polyester felt materials
- Standard filter housings accept all major competitive brands of bags
- Single, multi-basket housing is available
- Sure-sealing covers, opened without special tools for quick elements change outs.
- Large-area, heavy-duty baskets
- Low pressure drops
- An air vent on the cover allows venting before start-up.
- Heavy duty 304 / 316 stainless steel construction for long equipment life.
- Flange or NPT connections are standard on all housings.

SAM Top-line bag filter housing adopts patent ring structure and relevant fittings. Their advantages are as follows:

- The sealed result is satisfactory, no side leaking;
- Effective filtering area is rather big, achieving more efficient filtering result;
- It is more convenient and swift to change the filter bag, thus to lower operating cost;
- The rational structure makes filtering more steadily and the result more reliable;
- The adjustable height makes the filter applicable to different occasions;
- Humanized design makes the filters most suitable for you.



Application Range

Products have been widely used in the following areas :

Automobile industry / Electronics industry / Food and beverage industry / Petrochemical, Chemical industry / Biopharmaceutical industry / Environmental Protection / Printing, furniture industry

Model	Filtration Area (m ²)	Max Flow (m ³ /h)	Working Pressure (Mpa)	Connection Type (inlet/outlet)	Material
SAM-1S	0.25	20	1.0	2"flange	304/316
SAM-2S	0.5	45	1.0	2"flange	304/316
SAM-4S	0.1	10	1.0	1"NPT	304/316

Filtration rate: 0.3-600 micron

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A side-line vessel is a full-featured investment-cast filter vessel. A bead, not sand, blasted finish that makes cleaning easy and a cover that can be easily adapted to different opening directions are among Side-line's many value added features::

- For filter bags sizes 01 and 02;
- 01 Size - 20,000 lt per hour flow for Nominal rated bags;
- 02 Size - 40,000 lt per hour flow for Nominal rated bags;
- Side entry inlet connection;
- Available in 304 or 316 stainless steel;
- 2" ANSI Inlet and Outlet;
- Buna NTM seals standard (Viton also available)
- Maximum operating pressure of 10 bar (standard model)
- Steam jacket (Optional)



Application Range

Products have been widely used in the following areas :

Automobile industry / Electronics industry / Food and beverage industry / Petrochemical, Chemical industry / Biopharmaceutical industry / Environmental Protection / Printing, furniture industry

Model	Filtration Area (m ²)	Max Flow (m ³ /h)	Working Pressure (Mpa)	Connection Type (inlet/outlet)	Material
SAM-1P	0.25	20	1.0	2"flange	304/316
SAM-2P	0.5	40	1.0	2"flange	304/316
SAM-4P	0.1	10	1.0	1"NPT	304/316

Filtration rate: 0.3-600 micron



Product Description

Bag filter is typically used in applications requiring gross particulate removal.

SAM intermediate layer type bag filters are constructed with two layers. Steam or warm oil can pass through the intermediate layers. The advantages of doing so are obviously to keep or raise the temperature of the fluids, so to prevent the fluids from solidifying, improve the speed of filtration of viscid liquid, or meet the requirements to the temperature of next process.

SAM X100 plastic filter 100% with PP (polypropylene) filtration system taking advantages of excellent PP material, can be used for filtering a lot of chemical sour soda liquids. It is really an economical and practical fine product, as it has no seam, no dead angle, accurate specification with high-quality, high capacity and efficiency.



SAM-2J



SAM-X100PP

Application Range

Products have been widely used in the following areas :

Automobile industry / Electronics industry / Food and beverage industry / Petrochemical, Chemical industry / Biopharmaceutical industry / Environmental Protection / Printing, furniture industry

Model	Filtration Area (m ²)	Max Flow (m ³ /h)	Working Pressure (Mpa)	Connection Type (inlet/outlet)	Material
SAM-1J	0.25	20	1.0	2"flange	304/316
SAM-2J	0.5	40	1.0	2"flange	304/316
SAM-X100PP	0.1	10	0.6	2"NPT	PP

Filtration rate: 0.3-600 micron

Product Description

Eye Bolt Closure System - The user friendly, cost effective bag filter housing for high volume, multiple applications and processes

- The bag filter housing is designed with a proven swing eye-bolt or segment clamp closure mechanism;
- Positive O-ring sealing offers easy and safe operation;
- We can provide almost all kinds of multi-bag filters available, from double-bag type to 24-bag type, complete in specifications;
- The flanges of the link outlet-inlet from 3"to18";
The Max.flow of single unit are from 90 cubic m./h to 1,080 cubic m./h;
- Available in carbon steel or Type 304 or 316 stainless steel for high corrosion resistance;
- If you buy our multi-bag filters, you can wait for a long time to change the used bags;



Application Range

Products have been widely used in the following areas :

Automobile industry / Electronics industry / Food and beverage industry / Petrochemical, Chemical industry / Biopharmaceutical industry / Environmental Protection / Printing, furniture industry

Model	Filtration Area (m ²)	Max Flow (m ³ /h)	Working Pressure (Mpa)	Connection Type (inlet/outlet)	Material
SAM-M2	1.0	90	1.0	3-4"flange	304/316
SAM- M3	1.5	135	1.0	3-4"flange	304/316
SAM- M4	2.0	180	1.0	3-6"flange	304/316
SAM- M5	2.5	225	1.0	3-6"flange	304/316
SAM- M6	3.0	270	1.0	3-6"flange	304/316
SAM- M7	4.0	360	1.0	4-8"flange	304/316
SAM- M8	5.0	450	1.0	6-8"flange	304/316
SAM- M10	6.0	540	1.0	6-10"flange	304/316
SAM- M12	7.0	630	1.0	8-10"flange	304/316
SAM- M14	8.0	720	1.0	8-12"flange	304/316
SAM- M16	9.0	810	1.0	10-14"flange	304/316
SAM- M18	10.0	900	1.0	10-16"flange	304/316
SAM- M20	11.0	990	1.0	12-18"flange	304/316
SAM- M24	12.0	1080	1.0	14-18"flange	304/316

Filtration rate: 0.3-600 micron



Product Description

Inside the Bag Filtration System, the filter bag is supported by an inside metal basket.

The incoming fluid is to flow out after filtered by the bag, thus the impurity is intercepted in the filter bag. You can continue to use the filter system after changing the filter bag. It is a trend for the bag filter to replace partly the cartridge filter. A. The small filter bag can filter large amount of liquid.

The filter bag is key to filtering. According to the result of research from a famous company, for over 10 years, filter bags have been a critical component of filtration systems worldwide. The quality of the filter bag determines the result of filtration to a great extent. SAM follows strict engineering standards in sourcing raw materials and in the manufacturing process of all filter bags to ensure that they are 100% good quality. The cloth of SAM filter bag is selected from world-famous enterprises.



Product Specifications

No.	Size (mm)	Materials	Micron Rating (μm)	Top-Ring Material	Craft
1	7"×17"	PP/PE/NO	0.5-600	PP/SS	Sewing/Welded
2	7"×32"	PP/PE/NO	0.5-600	PP/SS	Sewing/Welded
3	4"×8"	PP/PE/NO	0.5-600	PP/SS	Sewing/Welded
4	4"×14"	PP/PE/NO	0.5-600	PP/SS	Sewing/Welded
5	6"×22"	PP/PE/NO	0.5-600	PP/SS	Sewing/Welded

Filter bags have been widely used in the following areas :

Automobile industry / Electronics industry / Food and beverage industry / Petrochemical, Chemical industry / Biopharmaceutical industry Environmental Protection / Printing, Furniture industry



Product Description

The filter bags are the key elements which determine the dust collection efficiency and working temperature. Renewal of bags creates major cost in maintaining bag-housing. So, the lifetime of qualified bag can last from two years to six years under the condition of reasonable usage.

Appropriate Filter Media Selection

Temperature, moisture level and chemical characteristics of air, as well as particle size, weight, shape, abrasive behavior, dust concentration, filtration velocity, cleaning style, emission concentration and working system of baghouse should be considered for media selection.

In general, needle felt bags are used in pulse jet baghouse, Woven-fabric bags are used in section reverse flow or mechanical shake bag house.

Excellent Sewing Skill

- Advanced technology. The dimension of bag is up to the drawing. The shrinkage should be considered according to both working temperature and filter media.
- Complete equipment. The stitch arrangement is reasonable. Neither skip stitch nor broken stitch is allowed. At the same time, the sewing thread meets the requirement.
- All the accessories should be excellent and meet the requirement. In order not to damage the bag, any burrs or damaged parts will not be allowed.



Product Specifications

	Diameter	Length			Applicable for
Round Style (External Filtration)	120	2000	2400	2800	Pulse Jet Bag Housing
	130	3200	3600	4000	
	152	4400	4800	5200	
	200	5600		6000	
Round style (Internal Filtration)	180	6000	8000		Section Reverse Row Bag Housing
	250	10000	12000		
	300				
Flat Style	800	2000	3000	4000	Reverse Row Bag Housing
	900	5000		6000	
Envelope Style	1500*750*25				Side Insert Bag housing



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SAM-FILTER

Vortex Cartridge Filter housings

Product Description

SAM Self-cleaning Filter is consisted of Novo Filter Element (the core element) and other relevant parts. By the advanced design, it can overcome the connatural disfigurement of the traditional back-wash self-cleaning ones, with its high efficiency and easy maintenance, working under multi-modes, moving flexibly and filtering all kinds of contaminated liquids:

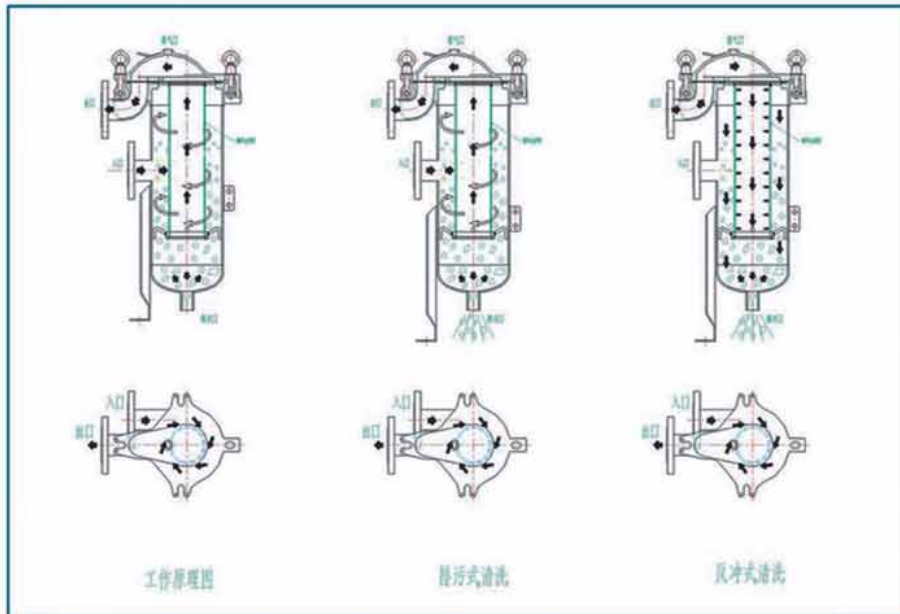
- 1) Water treatment(river, sea, lake), water supply and drainage, waste treatment;
- 2) The pre-treatment of the exactitude filtration such like bag filter and cartridge;
- 3) The filtration of the Acid and alkaline liquids, solvent, and kinds of chemicals;
- 4) The viscous liquid filtration and eliminate the fibrous impurities;
- 5) Available in 304 or 316 stainless steel;
- 6) 2" ANSI Inlet and Outlet;
- 7) The recycling use of the Coolants and rinsing liquid;



Application Range

Products have been widely used in the following areas :
Automobile industry / Electronics industry / Food and beverage industry / Petrochemical, Chemical industry / Biopharmaceutical industry / Environmental Protection / Printing, furniture industry

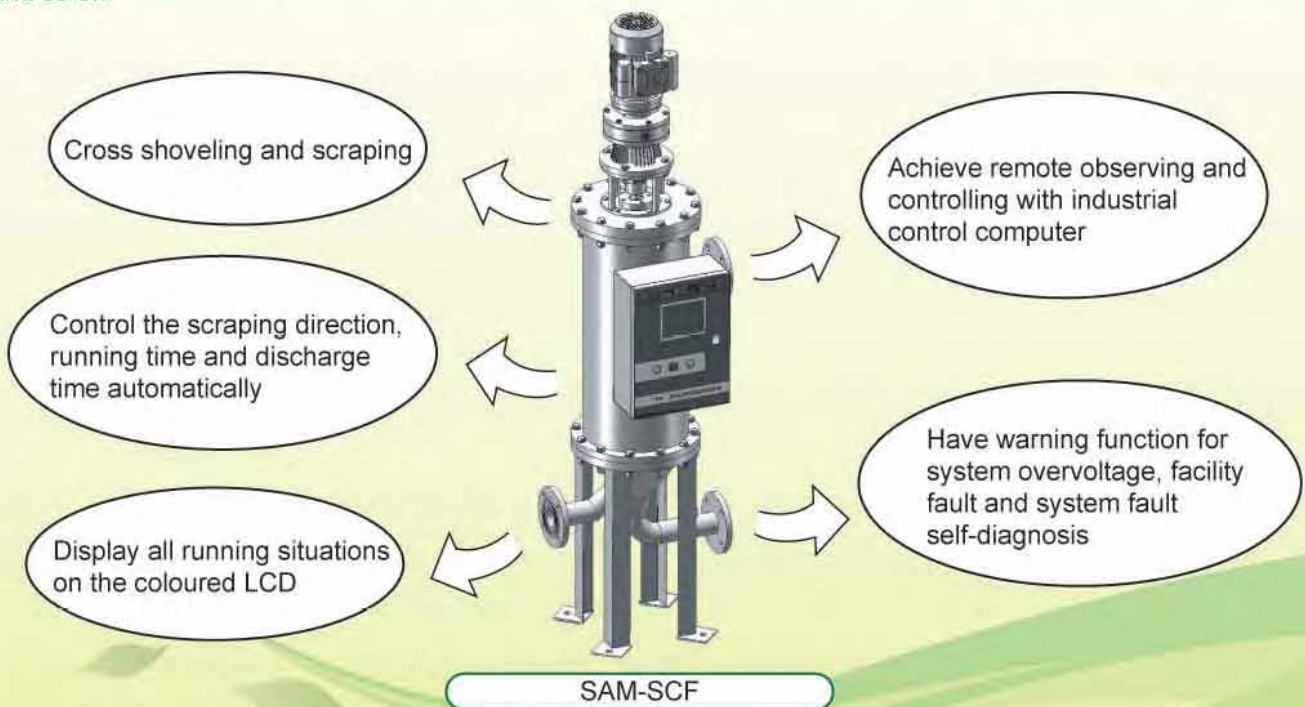
Work Principle





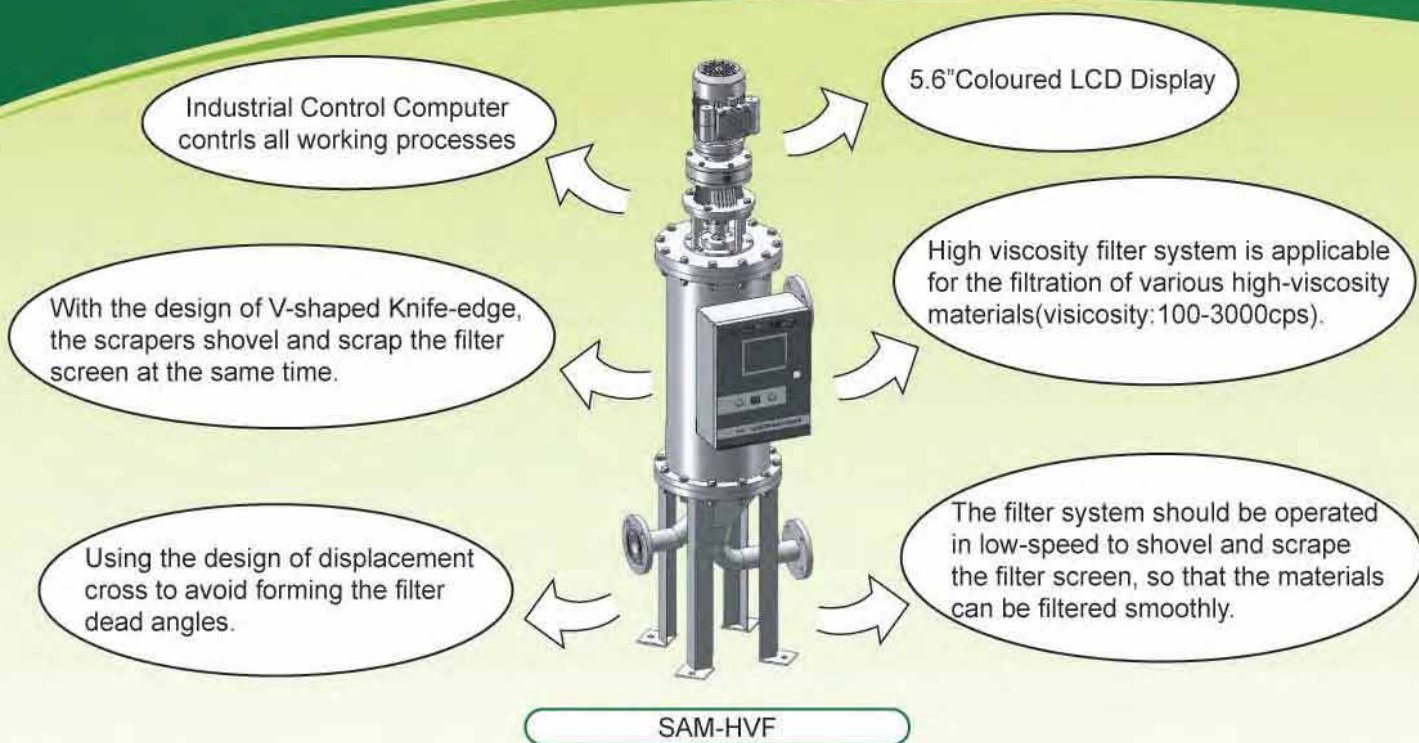
Automatic Backwashing Filter System Application Range:

Petroleum & chemical industry recycling water, condensation water, cooling water, oil field or oil platforms injection wells, note agent filter, as the UF/RO filter, steel making factory, auto factory parts flush filter and so on.



Automatic Self Cleaning Filter System Application Range:

1. Industrial circulating water, steel industrial furnace, circulating water, condensed water and cooling water of rolling mill and continuous caster.
2. Filtration of raw water: seawater desalination, river water, surface water and the pretreatment of plant water.
3. Environment engineering: preposing filter of bag filters, cartridge filters, UF and RO membrane.
4. Paper industry: filtration of raw water and white water.
5. Others: condensed water, cooling water of central air-conditioning system, cleaning filtration of petroleum & chemical industry and automobile manufacturing.



Automatic High Viscosity Filter System

Model	Cartridge number	A (mm)	B (mm)	C (mm)	D (mm)	Design Pressure (Mpa)	Design temperature (°C)	Max flux (m ³ /h)	In/Outlet (mm)	Outfall size (mm)
SAM-BWF300	5	1750	200	750	300	1.0	80	80	DN100	DN 50
SAM-BWF400	7	1780	230	750	400	1.0	80	120	DN150	DN 50
SAM-BWF500	15	1850	300	750	500	1.0	80	200	DN200	DN 80
SAM-BWF600	18	2180	420	750	600	1.0	80	300	DN250	DN 80
SAM-BWF700	21	2230	440	750	700	1.0	80	500	DN300	DN 100
SAM-BWF800	24	2350	460	750	800	1.0	80	700	DN350	DN 100
SAM-BWF1000	30	2500	460	750	1000	1.0	80	1200	DN450	DN 100
SAM-BWF1200	36	2620	460	750	1200	1.0	80	1600	DN500	DN 100
SAM-SCF273	1	1700	260	550	273	1.0	80	30	DN50	DN 50
SAM-SCF350	1	1700	300	550	350	1.0	80	70	DN100	DN 50
SAM-SCF450	1	1850	350	550	450	1.0	80	150	DN150	DN 50
SAM-SCF550	1	1850	350	550	550	1.0	80	250	DN200	DN 50
SAM-SCF650	1	2200	400	550	650	1.0	80	300	DN250	DN 50
SAM-SCF750	1	2200	400	550	750	1.0	80	400	DN300	DN 50
SAM-HVF273A	1	1700	260	550	273	1.0	80	15	DN50	DN50
SAM-HVF273B	1	1700	260	550	273	1.0	80	15	DN50	DN50
SAM-HVF350A	1	1800	260	550	350	1.0	80	30	DN80	DN50
SAM-HVF350B	1	1800	260	550	350	1.0	80	30	DN80	DN50

Filtration rate: 50-3000micron



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