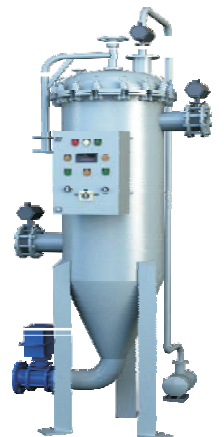


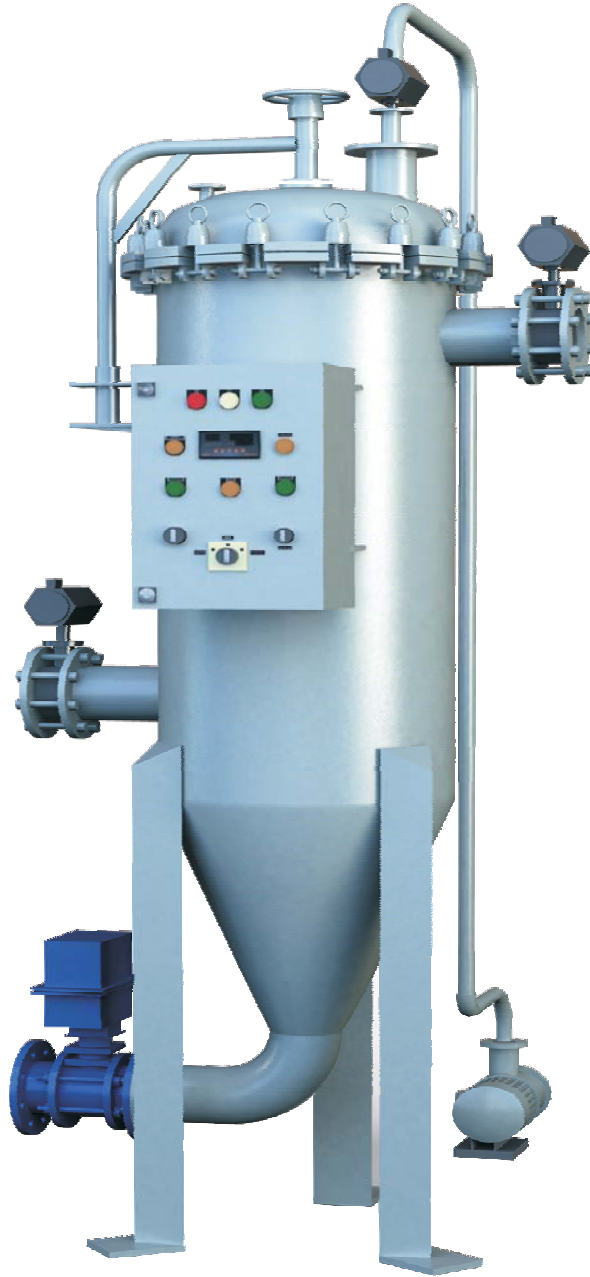


Auto Backwash Self Cleaning Filter*

Designer-Manufacturer-Exporter-Supplier



* Patent Pending



Auto Backwash Self Cleaning Filter

Auto back wash Self Cleaning Filter is used for Preliminary Filtration of demanding application of Various Industries.

Its very useful for applications where suspended solid load is Comparatively high. It is designed for uninterrupted flow, hassles free filtration, Minimum manual intervention & automated filtration demand for almost all industrial application.

Construction

Auto Back wash type self-cleaning filter is constructed of filter housings, filter elements, drain valve, auto back wash valve, Differential pressure gauge and control panel. Filter housings can be offered in various materials of construction such as various grades of stainless steel, carbon steel and alloy metal. Filter elements can be offered with wedge wire, sintered multi-layer wire mesh, plain wire mesh and sintered metal powder configuration. They are selected based on application demand and filtration quality.

For 100 microns and more, normally it is recommended to use wedge wire element. From 2 microns to 100 microns, it is advisable to use sintered multi-layer wire mesh and plain wire mesh, depending upon the application requirement. For final filtration of 0.2 microns to 5 microns, sintered metal powder is a suitable filter media.

Customers can use pneumatically or electrically operated butterfly valve or ball valve as per their process requirement. These valves can be easily configured with control Panel. Control panels can be offered with FLP (flame proof) and non-FLP, depending upon the process requirement.

Operation

Auto Back wash type self cleaning filters work on a flow direction of outside to inside. Unfiltered fluid enters into filter housing through bottom tangential inlet connection. Contaminants are deposited on the outer surface of filter elements and clean filtrate passes through inside diameter of element and comes-out through the top tangential outlet. Users can set their differential pressure data within control panel. Once the differential pressure across the system reaches the pre-defined level of pressure drop, inlet and outlet valves shut down and the drain and backwash valves open for defined interval of time. During this process, debris deposited on outer surface of element shall be drained out and collected through bottom drain. This cycle continues as per pre-defined settings and process requirements. Auto Back wash type systems are available with multiple filter elements, wherein one element is in use and the other can be cleaned at the same time. This will help to have uninterrupted flow of the fluid.

Technical Specification

Flow Rate

Capacity: Up to 2000 m³ /hr & more

Material of Construction

- SS 316L, SS 316, SS 304, Super Duplex, Duplex Stainless steel 2205, CARBON STEEL (ALL GRADE), MILD STEEL, ALLOY METALS,

Gasket / O Ring Material

- Neoprene, Nitrile, Silicone, Viton, Buna N, EPDM, PTFE, Spiral Wound, CAF

End Connections Available

- NPT / BSP Threaded
- Flanged Table E / Table F
- ANSI B 16.5 Flanged
- DIN Standard
- Tri Clover Adaptors
- SMS / Dairy End Connection

Features & Benefits

- High filtration accuracy, stable filtrate quality and supply.
- Due to its own search and emergency operation function, self cleaning filter can do automatic back-washing and can cope with volatile fluctuations without manual intervention.
- Filtration equipment control system is unique and has a precise operation, which is to adjust back-washing pressure setting according to different sources and filtration accuracy in a flexible way.
- The system has high efficiency and strong recovery. Its cartridge elements can be used for longer period without replacement.
- In case of multiple element design during back-washing process, each cartridge operates in turn and meanwhile the other cartridges continue the filtration process without being affected.
- Self cleaning filter has a drain valve, which has a short-back-washing facility and consumes less water, thereby saving water, power and energy source.
- Reasonable and compact structural design.
- No consumable material, low operation and maintenance cost, simple operation and management.
- High temperature gasket designs
- ASME Code Stamp & PED Certification Design available

Applications

- | | |
|------------------------------------|--------------------------|
| • Paint & Inks | • Landscape water |
| • Surface water removal | • Adhesive |
| • Solvents | • Green spray |
| • Boiler backwater | • Lubricants |
| • Chemicals | • Agriculture irrigation |
| • Domestic water supply | • Cooling water |
| • Reverse osmosis [Pre Filtration] | • Ion exchange |
| • Glycol | • Reclaimed water |
| • softening | • Oil field |



Designed By: e-brandstudio.com

Filter Concept Pvt. Ltd.

(An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 Certified Company)

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