

PRODUCT DATA SHEET



Inn Automatic Self-Cleaning Filter

OVERVIEW

Particulates existing in water lead to turbidity and clogging problems in machines, pipelines, and bacteria producing media. A good designed automatic self-cleaning filter can filtrate until 50 micron sensitivity and can remove turbidity until 2 NTU.

Material:	Stainless steel/Super duplex/Carbon Steel
Inner filter material:	Stainless steel
Inlet/outlet diameter:	1" – 8"
Power:	Electricity/Hydraulic controlled
Filter Capacity:	10 m ³ /h – 1200 m ³ /h
Filtration sensitivity:	> 50μ

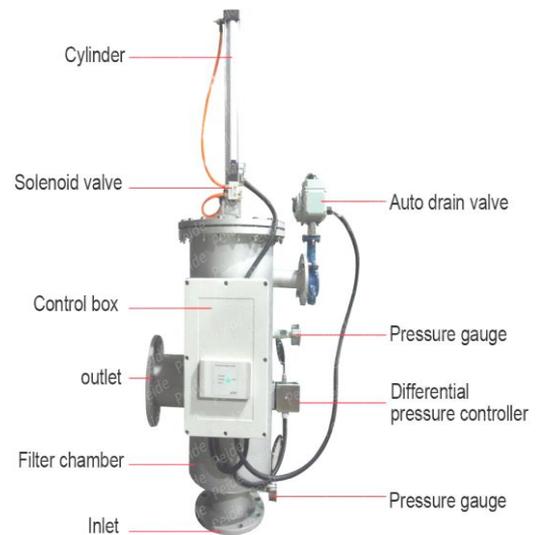
Backflush operation is done by using existing pressure of the water line,

- Standard production pressure is 10 bar, 80°C.
- There is also production for high temperature and pressures.
- Filtration continues during backwash, washes with % 100 efficiency and few water.
- During washing it requires at least 1,7 bar influent pressure in order to make backwash with % 100 efficiency
- It has board structure which is designed for producing solution in pressure problematic lines.
- It works efficiently until 10 ppm greasy waters, consumes low energy,
- Filter board production standard is AISI 304 and there are also
- AISI316 productions depending on demand
- Regarding to sea water applications and process requirements inside and outside coating can be done EPOXY, POLYESTER, CTP etc.
- By the help of honeycomb structured AISI304 & 316 filter pulley element, all the filtration area is effectively used.
- All vacuum series filters provide superior performance in surface waters with automatic flush coarse screen option.
- Filtration mesh quality is AISI 316.
- On PLC panel, instant differential pressure (ΔP), reverse wash counts are read and counter can be reset,
- A time-dependent reverse rinse option of 1-12 hours is available as standard on the panel,
- Frequent washing, high differential pressure alarms can be read and reset on the panel by sound and light,
- PLC, MMC, PC etc. Can be easily connected by the help of PLC panel washing, alarm etc.



Backwashing Operation

- As the particulate water entering the filter moves out of the inner surface of the filter element, the particulates adhere to the filter inner surface and filtered water go to the filtered system.
- When the filter inlet-outlet pressure difference is 0,5 bar, the filter PLC panel opens the drop valve and at the same time energizes the motor reducer group and starts to rotate the filter cleaning collector.
- The filtration in the filter will move rapidly towards the atmospheric medium at the outlet of the pressure drop valve from the cleaning nozzles connected to the collectors, so that a natural vacuum is created at the inner surface of the filter element by reverse flow and cleaned with 100% efficiency.
- When the return operation, which is approximately 20 seconds and the entire filter surface is scanned, the filter drop valve closes and the cleaning collector stops.



Application Areas

Pre-Filtration to:

- RO/UF Membrane
- UV
- Bags / Cartridges
- Cooling Tower
- Seawater
- Well Water
- River Water
- Greenhouses
- Commercial Irrigation
- Process Water



Cooling Tower



Commercial Irrigation



Greenhouses