

Auto Backwash Self-cleaning Filter

The automatic self cleaning filter is commonly used as first filtration step for surface waters such as lake, river or canal water and in wastewater reuse process. These filters are specially designed for high flow rates and continuous operation as they are highly effective in removing suspended solids down to 50 micron without flocculants, pre coats or granular media.

When unfiltered liquid flows into the shell from the inlet, a rigid cylinder screen strains particles from the water source, trapping debris on the inside. This layer of buildup causes differential pressure across the inlet and outlet. A controller monitors the filter and opens a flush valve when it senses adequate differential pressure. This creates rapid flow through the internal cleaning apparatus which vacuums buildup from the screen and expels it.

These filters are of higher efficiency and precision of range of 30-1500 microns

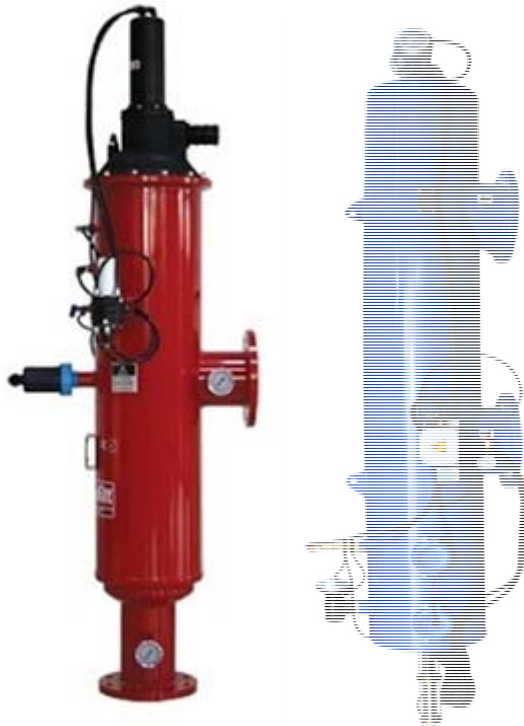
Working principle

- ◇ The filtration principle is very simple; the stainless steel screen is installed on a cylindrical shell.
- ◇ The water flows through the screen and the particles are retained on the inside of the screen of the filter element. The filtered water then flows out through the outlet.
- ◇ When the particles accumulated to a certain number and the pressure differential increases to the pre-determined level, the flushing cycle starts.
- ◇ It include two steps: First, the automatic drain valve opens on the drainage outlet. Then, electronic motor drives the cleaning brushes which are inside the screen, the solids are expelled through the drain valve.
- ◇ Filters continue to supply filtered water even during the flushing cycle. The whole working system is controlled by a smart box which has several control modes: pressure differential, time, manual and PLC.

Applications

- Commercial - Golf course and sporting field irrigation systems.
- Industrial - Pre-pretreatment of UF/RO and waste water recycling.
- Irrigation - Primary filtration for the prevention of blockages in irrigation system
- HVAC- cooling tower side filtration and full system
- Metal Processing Plants - Filtration for water cooling and spray nozzles.

Mining - Cleaning of process and waste water. Acidic water slowly dissolves the Neutralizing media to raise pH and increase alkalinity to a satisfactory level.



Filter Model: ASCSW - ASCBW

Specifications	Value
Single filter flow (max)	4000 m3/h
Filtration range	50/100/200/400/600/1000 micron
Working pressure	0.2-1.6 Mpa
Adjustable flushing time	10-200 sec
Power supply	380 v/50 Hz, AC 24V
Control modes	Pressure difference/time/manual / plc
Shell material	Carbon steel/SS304 / SS316L
Screen material	SS304/ SS316L

Please give us a call on 042 3542039-40 or email us at sales@water2000.com.pk and one of our professional team member will happily demonstrate how we can save your significant cost and greatly improve the performance of your water or wastewater treatment plant.