

Advanced Primary Treatment

salsnes Filter™

The Salsnes Filter can relieve primary treatment burden at municipal and industrial wastewater treatment plants in a very small footprint, saving major infrastructure investment and space. Salsnes Filters are compact, completely covered systems which are easy to maintain. Screenings dewatering and odor containment are integrated parts of the machine.

The Salsnes Filter removes organic and inorganic solids as fine as 15-30 micron. It removes high percentages of TSS and particulate BOD in wastewater. For most municipal applications, this means removal of 40-70% TSS and 30% BOD.

The Salsnes Filter cost-effectively reduces the organic load on downstream processes. Reduced load means more capacity in existing plants and smaller downstream processes (with resulting cost savings) in new plants.

When compared with sedimentation as primary sewage treatment, the Salsnes Filter typically requires less than 50% of the capital investment and less than 10% of the footprint.



**Salsnes capacities range from 5000 GPD to 10 MGD+
(18 to 38,000 m³/day+)**

Applications

With over 290 installations as of 2010, the Salsnes Filter has been used effectively for:

- Primary Wastewater Treatment
- Membrane Pretreatment
- Fishing Industry
- Food / Dairy Industry
- Pulp and Paper Industry
- Hog Manure Dewatering
- Poultry Rendering Facilities

How it works

The Salsnes Filter removes solids on a continuous-loop fine mesh screen. As the screen moves, it carries solids out of the flow and drops them into a hopper. An auger press dewateres the collected screenings while screened wastewater flows through the unit.

As the screen rotates, a patented air-blower system forces the retained screenings off the mesh and into the screenings hopper, virtually eliminating solids carry-over. Additionally, a patented hot water wash periodically removes any grease or other solids that may adhere to the mesh.

Superior Performance

Removal of 40-70% TSS and 30% BOD

Self-Cleaning Operation

Patented air cleaning system

Cost-Effective

Small footprint, low capital cost, low maintenance

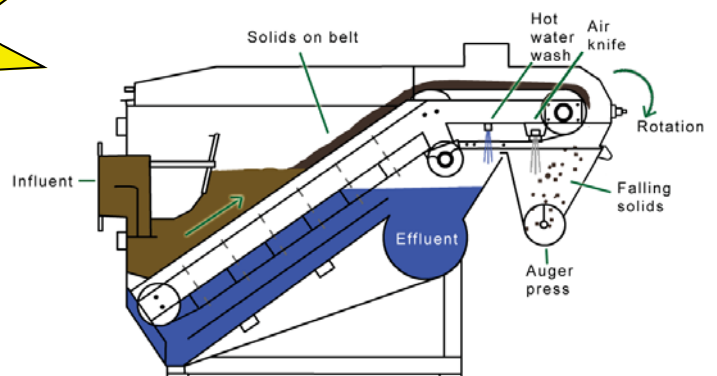
Screenings Dewatering

25-40% solids in dewatered screenings

Effective Environmental Solution

Compact and efficient solution reduces the impact on the environment

Scum thickening also!



Salsnes Operation Diagram

Blue Water for a Green World®



**BLUE WATER
TECHNOLOGIES INC**

For more information, please contact Blue Water:

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The Salsnes Filter can remove solids as fine as 15-30 microns. The mesh size can be varied depending on the application.



The screen is cleaned as it moves along the conveyor. The solids drop into a hopper. An optional hot water wash cleans grease and oil.



In the hopper, a screw press dewateres the solids to a cake with up to 40% solids.



The dewatered screenings will pass the Paint Filter Test. They are generally suitable for land filling; they have also been used as fuel for cogeneration.

Salsnes supplies standard equipment ranging in sizes suitable for small communities to large cities. There is no limitation in flow capacity designs. The Salsnes Filter is available in four unique models which can be customized for varying capacities, with up to 14,000 m³/day (3.7 MGD) in a single unit.

Salsnes Filter Capacities & Dimensions

Data	Model #			
	SF 1000 ¹	SF 2000	SF 4000	SF 6000
Flow Range²	0.23-0.48 MGD (10-20 L/sec)	0.43-0.93 MGD (20-40 L/sec)	0.88-1.87 MGD (40-80 L/sec)	1.73-3.76 MGD (75-160 L/sec)
TSS Removal Efficiency	40-70%			
Cake Solids %	25-40%			
Length	48" (1220 mm)	74" (1880 mm)	91" (2300 mm)	102" (2580 mm)
Width	42" (1050 mm)	64" (1625 mm)	85" (2150 mm)	107" (2720 mm)
Height	51" (1290 mm)	52" (1300 mm)	52" (1300 mm)	65" (1630 mm)
Weight	850 lb (380 kg)	1050 lb (475 kg)	1275 lb (575 kg)	1600 lb (1598 kg)

(1) Model SF1000 has an integral air blower within the filter enclosure.

(2) Capacities shown are based on municipal sewage of 250 mg/L TSS using a 350 micron screen. The high end of the capacity range listed is for very diluted wastewater— hydraulic capacity for clean water.

See the video of a Salsnes Filter in action at www.blueh2o.net/salsnes.

Contact your Blue Water Representative to:

- obtain a third-party engineering report on Salsnes Filter performance,
- learn more about how the Salsnes Filter solution may fit into a specific plant,
- arrange a pilot demonstration at a plant.

Blue Water is proud to offer a broad platform of water treatment technologies, from primary wastewater treatment to advanced effluent polishing steps to environmental remediation processes. We strive to meet our customers' needs cost-effectively, considering both capital expense and ongoing operations and maintenance costs. Additionally, we keep an eye on the future by looking for sustainability in our technologies, including environmentally friendly materials and energy conservation.