

## ABOUT SALSNES FILTER

Over 25 years ago, we designed the first rotating belt filter to provide customers with a highly efficient and reliable technology that could maximize solids separation and decrease costs. Today, we continue to lead the development of this technology from our office and manufacturing facilities in Namsos, Norway. We are a brand in the Trojan Technologies group of businesses, located in Ontario, Canada.

### The Salsnes Filter system provides an alternative to conventional primary treatment and can offer:

- Integrated thickening and optional dewatering
- 1/10th the land requirements
- 30-60% lower investment costs
- Smaller volume of drier sludge that reduces disposal costs
- Significantly lower lifecycle costs
- Less civil works
- Fully automated equipment
- Optimal removal of TSS to ease demand on downstream biological treatment
  - 30-60% removal in a typical municipal installation
  - up to 80% removal when a polymer is used
- Higher Volatile Solids content in primary sludge for biogas production
- Fast and easy maintenance
- Lower operating costs

### Product Overview

Enclosed Models

Channel Model



Maximum Hydraulic Flow

Up to 54 m<sup>3</sup>/h (0.3 MGD)

54 - 576 m<sup>3</sup>/h (0.3 - 3.7 MGD)

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Average Treated Flow

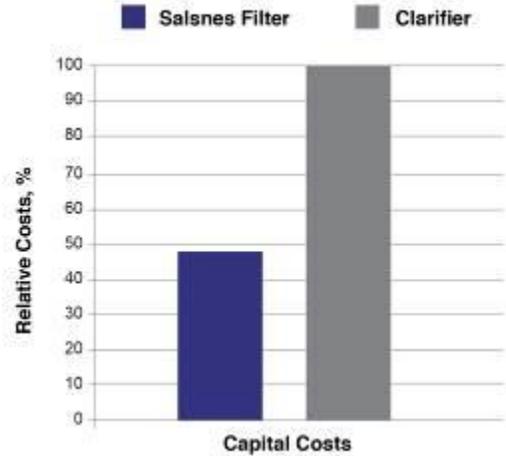
35 m<sup>3</sup>/h (0.2 MGD)

90 - 325 m<sup>3</sup>/h (0.6 - 2 MGD)

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## Cost Comparison

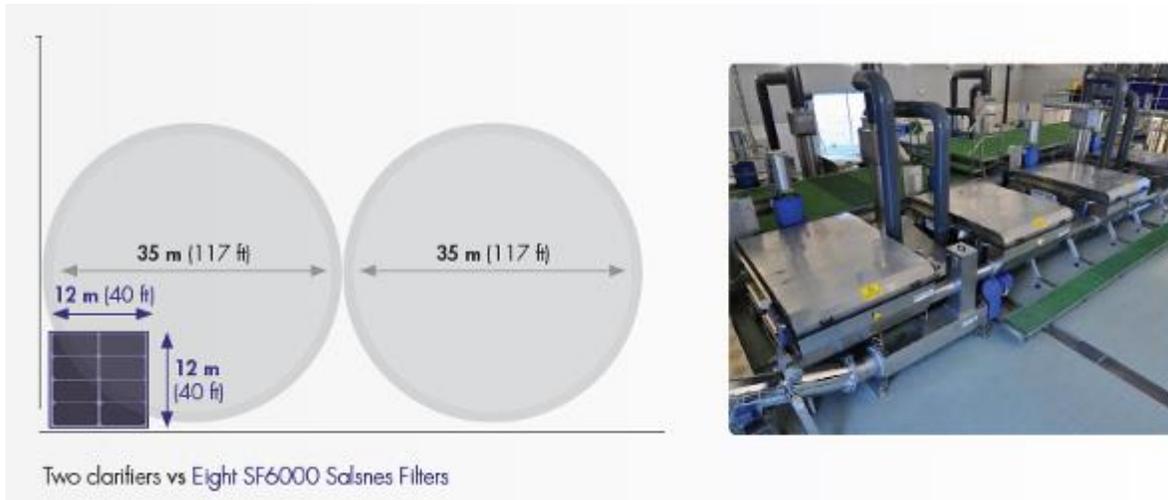
The above evaluation was completed by the Norwegian State Pollution Control Agency to discover cost efficient technology that could fulfill the European Union's stringent criteria for primary treatment. As you can see, the savings are substantial. A Salsnes Filter system costs half that of conventional primary sedimentation and clarification.



## Land Requirements Comparison

Tomasjord WWTP, Norway - 1,650 m<sup>3</sup>/h (10.5 MGD)

For those expanding primary or secondary capacity where land is expensive or unavailable, a Salsnes Filter system is ideal. It will typically use 1/10th the land of conventional treatment systems. The Tomasjord WWTP in Norway, shown above, would have needed 2,000 m<sup>2</sup> (21,530 ft<sup>2</sup>) of land to install clarifiers. Instead they installed a Salsnes Filter system and only used 150 m<sup>2</sup> (1,600 ft<sup>2</sup>) of land.



## Sludge Volume Comparison

The integrated thickening and dewatering processes of the Salsnes Filter system can drastically reduce sludge handling, transportation and disposal costs. The dry sludge exiting a Salsnes Filter system is 20 – 30% DM, while primary clarifier sludge can be 2% DM.

