

EFFECTIVE WASTEWATER SOLUTIONS

## SALSNES FILTER

**Salsnes Filter series** are fully automated mechanical wastewater treatments systems to primary treatment in municipal or industrial applications.

### MUNICIPAL SEWAGE TREATMENT PLANTS

Salsnes filter can replace and relive primary sedimentation tank that is traditionally used to removing suspended solids at municipal treatment plants. In this case Salsnes filter is without dewatering unit.

### INDUSTRIAL SEWAGE TREATMENT PLANTS

Salsnes filter provide much higher removal efficiency than with traditional sedimentation units. Industrial applications use as a standard dewatering units that gives rate of dewatering up to 60%.

### DESIGN

Salsnes Filters are very solid and compact in design.

System of wire cloth cleaning, by means of pressured air, guarantees to keep the wire cloth cleaned during operation. The system is prepared for odour control with its enclosed design and connection pipe for ventilation and odour control systems. Basic versions supporting a wide range of flow rates and with no limitations in flow capacity designs. Standard versions are equipped with integrated dewatering system. Versions without dewatering and mirrored versions, to ease connections for duty/standby or parallel operation, may also be provided on request.

Salsnes Filters are provided in stainless steel 304 or 316L, dependent on requirements.

### SALSNES FILTER TYPES

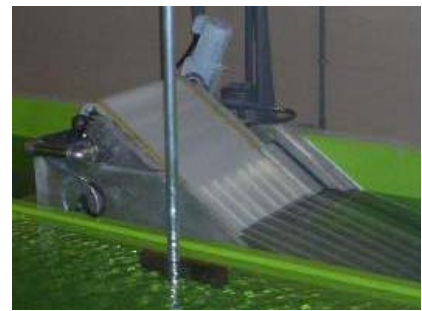
**SF** – stand-alone,    **SF Floc** – stand-alone with flocculation chamber    **SFK** – channel type



Type SF



Type SF Floc



Type SFK

*Salsnes Filter is made to meet the requirements set in the **European Council Directive 91/271/EEC** (May 21 1991) regarding urban wastewater treatment.*

Salsnes Filter characterised with low operational cost and filter fully automated. During last years Salsnes won about 80% of Norwegian market, of municipal sewage treatment plants also is the only European company that is present on Canadian and USA markets.

## SALSNES FILTER - municipal applications

- Capacity:  $\div 650 \text{ m}^3/\text{h}$
- Separation efficiency:
  - for small sewage treatment plants with reduction of BOD  $\div 60\%$
  - for bigger sewage treatment plants with nitrogen reduction  $\div 45\%$
- Reduction COD  $\div 35\%$
- Reduction BOD  $\div 25\%$
- Dry substance  $25\div 35\%$



## SALSNES FILTER against traditional primary sedimentation units

- Lower investment cost up to 50%
- Lower operations cost up to 25%
- Filter occupied only 10 % of the area normally dedicated for sedimentation tank
- Compact, hermetic design, no odour emission
- Weekly service about 30 min.



## SALSNES FILTER – industrial applications

- Capacity:  $\div 650 \text{ m}^3/\text{h}$
- Separation efficiency:  $\div 70\%$
- Reduction COD  $\div 35\%$
- Reduction BOD  $\div 25\%$
- Dry substance  $25\div 35\%$



Meat industry



Brewery



Cellulose-paper industry



Tannery



Vegetable/fruits industry:  
carrot