

SOBYE BELT FILTER

High filtration capacity on a small surface at a low cost





HIGH FILTRATION CAPACITY ON SMALL SURFACE AT A LOW COST

With our Soby filter you get an automatic, self-cleaning belt filter that removes particles from water in a cost-effective and space-efficient way. The Soby filter replaces the standard primary filtration of municipal waste water and sedimentation processes, but on a much smaller area. Thanks to its effectiveness, it offers an investment saving of up to 50 %.

The Soby filter is also used successfully in fish farming and fish processing. Further advantages are that the system delivers an extremely dry sludge and chemicals are normally not required, which facilitates the further treatment or processing of recoverable material.

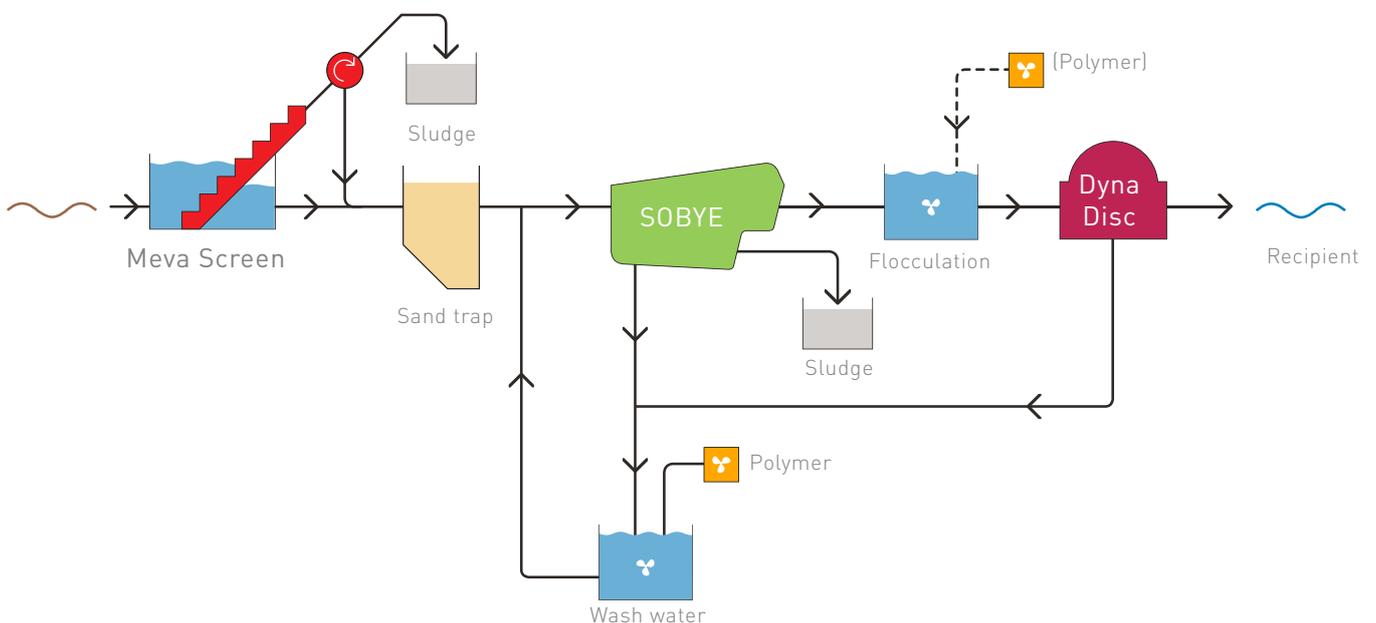
HOW THE SOBYE FILTER WORKS

The untreated water is led into the filter and the particles are separated when the water passes through the screen belt. The screen belt rotates when it needs cleaning. The belt is cleaned principally by brush and then flushed at a high pressure, which is both cheaper and in many respects better than air cleaning.

The particles separated by the brush are transported internally in the filter to a press that de-waters the sludge to a very high dry content. The waste water is drained out of the filter separately and can normally be led back to the incoming water.

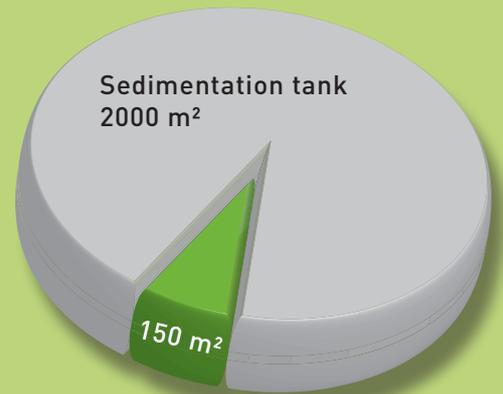


FLOW CHART EXAMPLE, MUNICIPAL WASTE WATER



ADVANTAGES OF THE SOBYE FILTER

WITH THE SOBYE FILTER
YOU CAN SAVE UP TO
1850 m²



Compact and efficient

The Soby filter has an exceptionally high filtering capacity in relation to its small size. It is therefore an excellent choice when space is limited and it provides savings because no large structures or tanks must be built. The filter fits well into an existing facility and is also suitable as a channel filter. The filter tank casing is made of stainless steel (EN1.4404) and wetted parts are IP-67 rated.

Low operating costs

The fact that the Soby filter uses an integrated brush for cleaning the filter belt means no compressor or pump is required. Competitors' belt filters using compressed air for cleaning require energy-consuming compressors that are expensive both to purchase and operate.

Many application areas

For more than 25 years Soby belt filters have been installed on more than 200 sites and used for applications including fish processing, fish farming and pre-filtering of municipal waste water.

Flexible and robust construction

The Soby filter is available in three standard versions with different capacities. Special models have also been developed for various industry requirements. The belt filter can also form part of a larger system delivery from Nordic Water consisting of a complete filtration system. The Soby filter comes with a very strong belt that can withstand higher pressure drop than competitors' belts.

Provides a good working environment

As a supplier, we value a good working environment. By cleaning the filter belt with a brush and water the diffusion of particles and bacteria in the air is prevented. Together with a low noise level this gives your operational staff a good working environment. Operating costs also show that the cleaning brush and water is a highly competitive method. The required ventilation from the screens is only 5–15 m³/h, which means very low ventilation costs.

The Nordic Water Soby filter has been installed in many different application areas since 1986.



Haus Treatment plant, Norway
Built in 2015.
Dimensioned for 2500 PE (population equivalent)
Maximal waste water flow 37l/s
Dimensioned waste water flow 18l/s



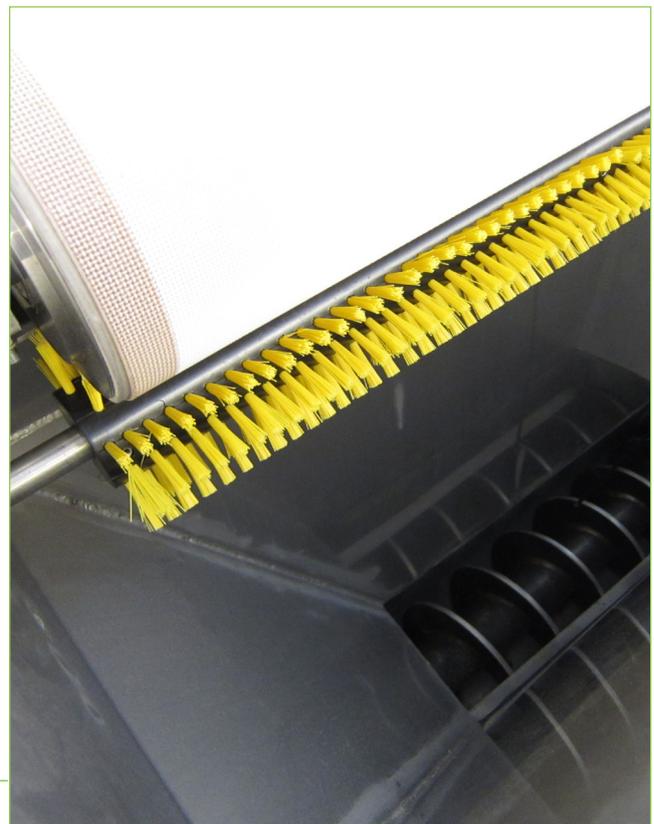
Smart design - easy to maintain

The Soby-filter belt is incorporated into a cassette that you can easily remove from the filter tank for maintenance and repair. The belt is made of polyester, which ensures an exceptionally long operating life cycle. Since you can easily replace the belt in about 30 minutes, without the need to change the belt filter in general, you can safely accommodate future changes in filtration requirements.

Full control for special requirements

The belt filter can be delivered together with a control panel; it can be equipped with control instrumentation and monitoring to meet specific needs such as remote control.

Cleaning the belt with a brush and water is one of the most energy efficient solutions. It prevents the spreading of particles and bacteria through the air. This, combined with its low noise level, gives your staff a good working environment.







APPLICATION AREAS

Primary filtration of municipal waste water

The Soby filter replaces the standard primary filtration of municipal waste water and completely replaces the sedimentation processes, but on a much smaller area.

Fish farming

In fish farming there is a natural water contamination from fish faeces and leftover food residue. High levels of this contamination can damage the growth and survival of fish stocks. The Soby filter removes particles and allows you to maintain a good water quality.

Fish processing industry

The Soby filter has been used successfully for many years in the treatment of waste water from the fish processing industry. The waste water may contain high levels of particulate matter and oxygen-consuming substances, often in combination with grease and oil, for example. By using a Soby belt filter these levels can be effectively lowered while maintaining performance and low or no chemical consumption.

LOOK TO US FOR SETTLING, SCREENING AND FILTRATION SOLUTIONS

As pioneers of inclined plate settling, continuous backwash filtration and microscreening, Nordic Water, is a leader in providing proven filtration solutions for water and wastewater treatment industries. Through

intelligent engineering and advanced technology, our single components and packaged systems deliver a reliable filtration and superior separation that will meet or exceed your expectations.

OTHER PRODUCTS FROM NORDIC WATER:

- DynaSand® Filters
- DynaDisc® Disc Filters
- DynaDrum® Drum Filters
- Lamella® Separator Compact Plate Settlers
- Zickert™ Sludge Scrapers and basin equipment
- Meva™ Screens and screenings treatment equipment

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