

CASE STUDY:

BROBY WWTP



Lackeby innovation revolutionizes septic handling at SBVT

Broby WWTP, a small waste water treatment plant, had a great need of reducing the momentarily high biological load which occurred when receiving septic sludge (also known as external sludge). The high load caused instability in the biological treatment process which resulted in a waste water treatment plant with substantial problems to meet the effluent terms of condition.

Therefore, they very much needed to find a septic unit that combined a short truck off-loading time with a high screening capacity and which immediately could send the sieved effluent further on to the sludge storage.

SBVT - Skåne Blekinge Vattentjänst

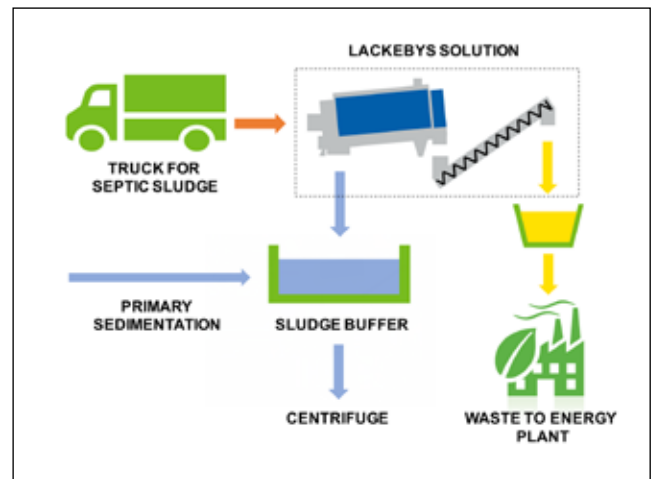
Skåne Blekinge Vattentjänst AB, also called SBVT, is a joint company that runs the operation of the waste water treatment plants in Bromölla, Olofström, Osby and Östra Göinge.

These four municipalities have in total some 51,000 habitants and about 14,000 households, connected to the treatment plants and operated daily by SBVT.

Lackeby solution:

With recommendations from the company in charge of septic recovery and transport in the municipality, Broby WWTP chose the Lackeby solution: Lackeby Roto-Sieve® septic unit.

The septic unit is based on the well-known Lackeby Roto Sieve® drum screen which has been modified for septic receiving. The unit's updated design efficiently handles high flow rates of demanding septic sludge. Due to the sieve drum design, there is an optimal separation of rocks, gravel and fibrous material without risk of clogging. When the off-loading is completed, an automatic release of accumulated liquid from the trough minimizes the problem with odor in the surroundings.



The result:

All external sludge at Broby WWTP is now received through the Lackeby Roto-Sieve® septic unit, RSS 36. The sieve drum is made of perforated stainless-steel plates with Ø 6 mm holes and handles flow rates up to 130 m³/h which means that the off-loading of a truck with trailer is completed in just 15 minutes.

In addition to the septic unit there is a Lackeby Screw conveyor press, SCP 220, equipped with extended lifting pipe and bag system. The screenings get efficiently dewatered with a small volume and high dryness as a result. Furthermore, it gets encapsulated with no risk of odor at storage and transport to incineration.

The control system and efficient wash function makes the unit almost completely self-cleaning. In combination with the integrated brush and a spray system with optimized run time, it keeps the need of manual cleaning to a minimum.



In addition to septic receiving, the Lackeby Roto-Sieve® septic unit RSS 36, is also suitable for storm flow and overflow screening.

“Even when the sludge contains a lot of sand, stones and fibres, it just works”.

Tobbe, septic truck driver.

Lackeby Products AB has more than 50 years of experience in designing and manufacturing high performance products for resource-efficient heat recovery and wastewater recycling. In our production facilities in Sweden we have made thousands of products for the toughest environments worldwide. We are well known for our ability to customize products to each customer's unique requirements.

All of our products are characterized by reliability, long life cycles and easy maintenance making Lackeby Products a trusted partner and supplier of products for plant upgrades or new plant constructions. We guarantee high quality, excellent performance and complete satisfaction.