



LACKEBY HEAT EXCHANGER SLUDGE/WATER

High heat transfer technology  
designed with a minimal  
footprint



## LACKEBY HEAT EXCHANGER SLUDGE/WATER



When high performance,  
low costs and simplicity  
is the priority

The Lackeby Heat exchanger sludge/water is a unique designed unit for high viscous medias. The patented turning chambers enable us to design the heat exchangers for the highest possible heat transfer as well as meeting demands on small foot prints. The design also ensures that the heating or cooling system is running with as low load as possible to keep the operational cost down.

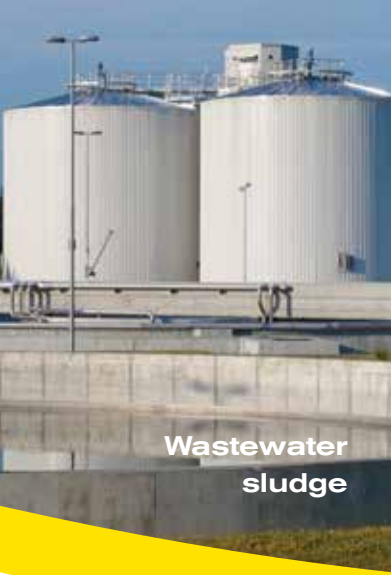
### **Sludge applications**

- Direct heating or cooling of raw or digested sludge on the feeding line
- Heating and/or cooling of digested sludge by digester or pasteurization circulation
- Energy recovery from heated sludge.

### **Wastewater applications**

- Wastewater cooling in for example biological tanks
- Energy recovery from outgoing wastewater.





### Using the Lackeby Heat exchanger sludge/water

A lot of excess heat is created in wastewater treatment plants and in biogas production. Over the years Lackeby have become experts in utilizing this process heat to its maximum. Our robust sludge/sludge, sludge/water heat exchangers are designed to recover a majority of the excess heat, greatly increasing operation efficiency and reducing operational costs.



### Made in Sweden

Lackeby has more than 25 years of experience in designing and manufacturing high performance products for efficient use of the energy resources.

More than 700 Lackeby Heat exchangers have been supplied to both industrial and municipal plants in over 25 countries worldwide.



## New developments

### **Safer transport**

Added shipping security bars will allow us to secure the units for safer transport to your plant.

### **Simplified maintenance**

All units will have the possibility to be hinged on either side to enable easy access for inspection and maintenance.

### **High resistance gasket**

Newly tested and improved gasket material with very high resistance to oil and high temperatures.

### **Gasket lifetime bars**

Newly implemented gasket lifetime bars which further extend the lifetime of the gasket and lower the time and cost for maintenance.

## **Lackeby Heat exchanger sludge/water**

Modular design sludge/water heat exchangers from Lackeby are compact, easy to install and maintain. Circular sludge channels ensure that large particles can be managed but also keeping the risk for clogging to a minimum. The innovative design with patented turning chamber provide high energy transfer, low pressure losses and minimal risk of clogging. This robust and modularized product have all features for high reliability and low maintenance requirements.

## **Green energy with a sludge/sludge configuration**

By connecting two sludge/water units with a water loop we can recover the already added energy to pre-heat the sludge earlier in the process. The design with a water loop eliminates the risk of contamination but also gives a flexibility and possibility to control how to run the process.

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*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 world wide. We are well known for our ability to customize products to each customer's unique requirements. Our products are characterized by reliability, have long life cycles and are easy to maintain. This makes Lackeby Products to a trusted partner and supplier of products with extensive knowledge for plant upgrading or new plant constructions, where quality and performance are to be guaranteed.*



**Industriële Milieutechnieken**

Kerkhofstraat 33 - 2220 Heist-op-den-Berg - Belgium  
info@task.be - www.task.be - +32(0)15 24 21 15



### **Lackeby Products AB**

Contact details: Phone: +46 480 770 100 | www.lackeby.com

Visiting address: **Kalmar** | Torsåsgatan 5F | SE-392 39 Kalmar | Sweden  
**Kungälv** | Bultgatan 28 | SE-442 40 Kungälv | Sweden