



Product factsheet

Systems for wastewater heat recovery and energy from surface water

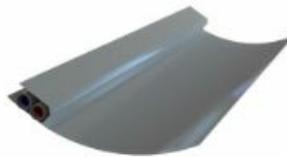
Hardware product or technological device
Consulting or service offering (e.g. training)

Our product: THERM-LINER heat exchanger



THERM-LINER A

- ▶ Made from stainless steel
- ▶ For pipelines size DN 400 / 16" upwards
- ▶ Installed directly inside the pipeline



THERM-LINER B

- ▶ Made from stainless steel
- ▶ For pipelines size DN 400 / 16" upwards
- ▶ Installed directly inside the pipeline



THERM-LINER C

- ▶ Made from stainless steel
- ▶ For all pipelines
- ▶ Replacement/bypass for host pipes



THERM-LINER Stack

- ▶ Made from stainless steel
- ▶ For pipelines and treatment plants
- ▶ Placement mainly at treatment plants



THERM-LINER External

- ▶ Made from stainless steel
- ▶ For pipelines and treatment plants
- ▶ Flexible external placement



Special solutions

- ▶ Made from stainless steel
- ▶ For rivers and lakes
- ▶ Flexible placement

Description

Energy from Wastewater: Our patented THERM-LINER heat-exchanger systems harvest energy from municipal wastewater and energy from surface water. This form of power generation is a climate-friendly way to heat buildings and decarbonize heat grids. We offer solutions throughout the municipal wastewater infrastructure, from treatment plants and gravity pipelines to pressurized wastewater pipelines. As well we are developing projects to harvest energy from surface water, e.g. at hydropower plants and industrial wastewater. The Therm-Liner heat exchanger systems are tailor-made. They are made from 1.4404 stainless steel for long durability. UHRIG's Therm-Liner can be fitted precisely into any sewer without causing any restrictions on operation. The system can be installed in existing sewers via the manhole without civil engineering.

Target audience

Water utilities, energy companies, property developers

Actors, their roles and interactions

Water utilities need to be involved from the beginning to co-design the installation of the system in their infrastructure. Energy service providers that are operating the energy systems will need to engage with water utilities to agree on a contract for installation / operation of the system in the wastewater infrastructure.

Unique selling points

<https://energie.uhrig-group.com/en/#produkt-therm-liner>

Technical requirements

<https://energie.uhrig-group.com/en/faqs/>

Publications

<https://energie.uhrig-group.com/en/downloads/>

URL

<https://energie.uhrig-group.com/en/>

Technologies applied by the product

- Heat recovery & storage systems
- [Low grade heat recovery from wastewater](#)

Costs

Depending on the scope of the project
Last update: 2025-04-17

Technology Readiness Level

Level 9 (Last update: 2025-04-17)

Related tags

energy

wastewater

heat

sewer

Energy recovery

Wastewater Treatment