



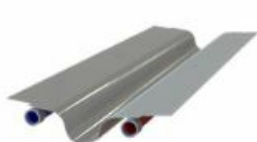
## Product factsheet

# Systems for wastewater heat recovery

Hardware product or technological device

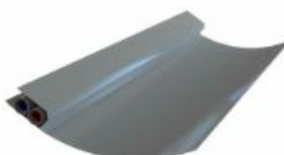
Service offering

Our product: THERM-LINER heat exchanger



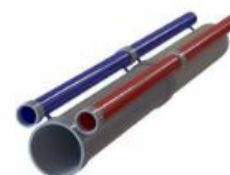
### THERM-LINER A

- ▶ 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 system harvest energy from municipal wastewater. 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. In addition, we generate power from river water 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

## 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