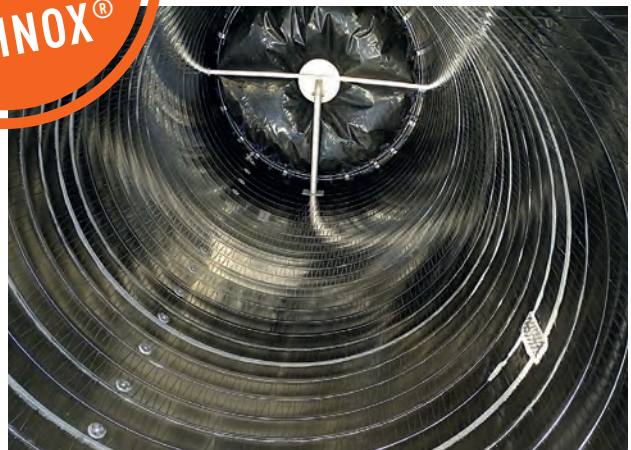




LIPP Thermal Storage Tank, 300 m<sup>3</sup> volume



Tank, interior and exterior view

## LIPP® Thermal Storage Tank from 200 to 1,500 m<sup>3</sup>

Stainless Steel VERINOX® and LIPP® Double-Seam-System –  
long-life and low-maintenance

### Innovative heat storage system

The LIPP Thermal Storage Tank is a customized solution to effectively store excessive heat from biogas plants, biomass heating plants, solar plants or other heat sources.

### Automated on-site fabrication

These LIPP Thermal Storage Tanks are automatically fabricated on site in the LIPP Double-Seam-System made of stainless steel VERINOX®. The patented process, which has been tried and tested worldwide, enables the infinitely variable production of tanks with an effective volume of up to 1,500 m<sup>3</sup>.

### Fully equipped – stainless steel components

The large-volume, above ground storage tanks are fitted with all necessary safety and operation equipment. Additional, individual components according to client's specification can be considered. The roof and wall insulation is individually adapted to local conditions.

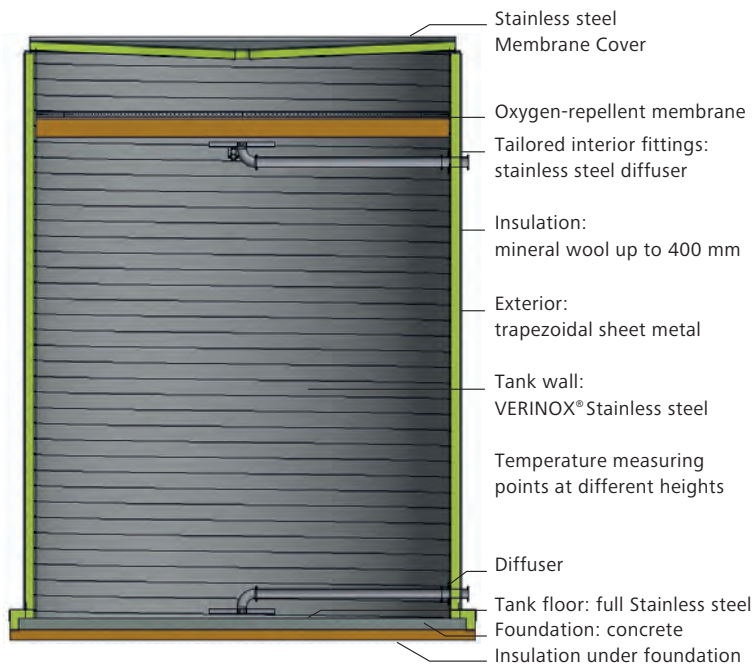
### Without ongoing operating costs

The LIPP Thermal Storage Tanks operate at atmospheric pressure, at a temperature of up to 95° C and are suitable for use with heating water. No additional nitrogen system necessary.

PRODUCTINFO //////////////////////////////////////



## LIPP® Thermal Storage Tank for heat storage



## Major advantages

- Tank-inside and interior fittings in stainless steel
- No ongoing operating costs
- Incl. safety systems
- Long durability
- Low-maintenance
- Tailored to individual requirements
- Infinitely variable in diameter and height
- Same quality worldwide
- Short construction time



### Technical data

#### Volume

From 200 to 1,500 m<sup>3</sup>

#### Diameter/Height

Infinitely variable from 4 m  
Optimized diameter/height ratio

#### Height

Variable, up to approx. 20 m

#### Storage medium

Heating water according to VDI 2035 or AWG 510

#### Operating pressure

atmospheric/ventilated  
Maximum pressure: 5 mbar  
Minimum pressure: -2,5 mbar  
Other pressures on request

#### Operating temperature

Up to 95° C

### Materials

#### Tank wall

VERINOX® Stainless steel is a galvanized base material combined with a stainless steel 304 layer on the tank-inside.

#### Tank bottom

Stainless steel 304  
Thickness: 0.8 – 1.0 mm

#### Tank roof

Membrane cover  
Stainless steel 304  
Thickness: 0.8 – 1.0 mm

#### Components

Interior fittings, manhole, diffusers, nozzles etc.  
made of stainless steel 304

### Construction

#### Tank wall

LIPP Double-Seam-System; automated on-site fabrication

#### Tank bottom

Concrete foundation and insulation

#### Tank roof

Free supported stainless steel membrane  
Insulation 100 – 400 mm  
Water-proofing and rain collecting system

#### Tank exterior

Insulation: mineral wool 200 – 400 mm  
Cladding: trapezoidal sheet metal in standard RAL color

### Certifications and Qualifications

LIPP is ISO 9001:2015 certified. We are specialized manufacturer according to § 19 German Water Act and DIN-EN 1090-2 EXC 3. We are paying particular attention to the durability of our products, a professional execution and a solid workmanship in every detail due to qualified and certified technicians in house and on-site

#### Design and Manufacturing

Verifiable structural calculations according to EURO CODE III in connection with DIN EN1090-2

#### Documentation

Verifiable structural calculations, foundation plans, installation plans and as-built drawings as well as Operation and Maintenance manuals



PRODUCTINFO //////////////////////////////////////

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