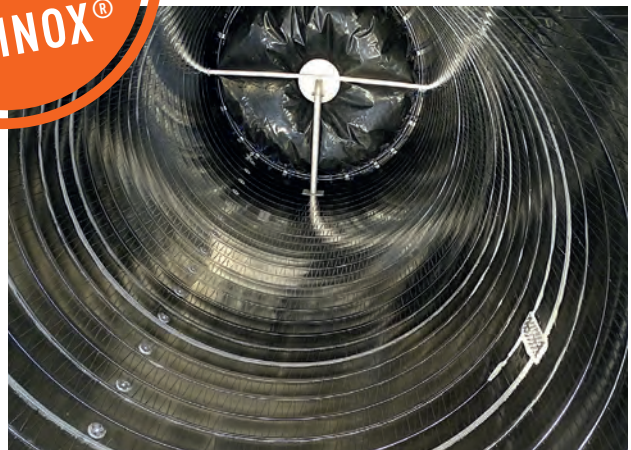




LIPP Thermal Storage Tank, 300 m³ volume



Tank, interior and exterior view

LIPP® Thermal Storage Tank from 200 to 1,500 m³

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 m³.

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.

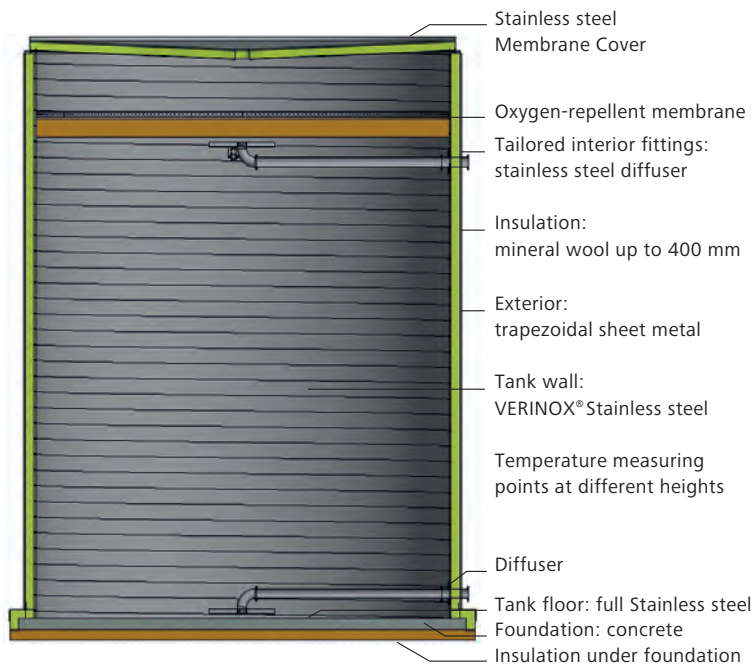
Without ongoing operating costs

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.

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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 m³

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 AGFW FW 510

Operating pressure

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

Operating temperature

40 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 – 1.5 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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