

Behälter und Systemlösungen Tanks and System Solutions



LIPP Thermal Storage Tank, 300 m³ volume

Tank, interior and exterior view

LIPP Thermal Storage Tank from 200 to 2,000 m³

Stainless Steel VERINOX® LIPP Double-Seam-System – effective 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 2,000 m³.

Fully equipped – stainless steel components

The large-volume, above ground storage tanks are fitted with all necessary safety and operation equipment in full stainless-steel. 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



Pitched roof

Oxygen-repellent membrane Tailored interior fittings: stainless steel

- Insulation: mineral wool up to 400 m
- Exterior: trapezoidal sheet metal

Tank wall: VERINOX® Stainless Steel

Temperature measuring points at different heights

Diffuser

Tank floor: full Stainless Steel Foundation: concrete Insulation (under foundation)

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



Technical data

Volume From 200 to 2,000 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 AWG 510

Operating pressure Atmospheric pressure

Operating temperature Up to 95° C

Materials

Tank wall **VERINOX®** Stainless Steel is a galvanized base material combined with a stainless

steel SS 304 layer on the tank-inside. Tank bottom

Stainless steel 304 Thickness: 0.8 – 1.0 mm

Tank roof Sandwich panels PU-foam 100 – 200 mm

Components Interior fittings, manhole, diffusers, nozzles etc.

made of SS 304

Tank wall

Construction

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

Tank bottom

SS 304 membrane installed on sub-structure anchored onto insulated concrete foundation welding connection between floor and tank wall

Tank roof

Pitched roof, sandwich panels on steel structure

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

