UNIQUE.WORLDWIDE

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® 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 2,000 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

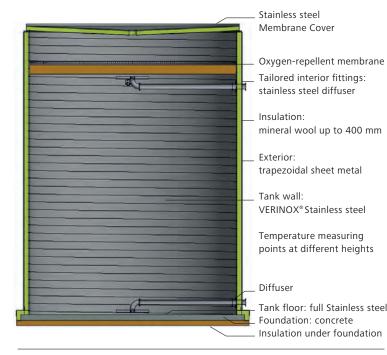
The LIPP Thermal Storage Tanks operate at atmospheric pressure, at a temperature of up to 95°C and are suitable for use with heating water. No additional nitrogen system necessary.



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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 2,000 m³

Diameter/Height

Infinitely variable from 4 m Optimized diameter/height

Height

Variable, up to approx.

Storage medium

Heating water according to VDI 2035 or AWG 510

Operating pressure

atmospheric/ventilated Maximum pressure: 5 mbar Minimum pressure: -2,5 mbar stainless steel 304 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

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





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