



LIPP Thermal Storage Tank, 5,200 m³ volume



Automated LIPP Welding Technology

LIPP® Thermal Storage Tank from 1,500 to 6,000 m³

Automated welding process for carbon steel – longevity 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 LIPP welding technology

The carbon steel tanks are fabricated on site with the patented automated LIPP Welding Technology. The horizontal MAW-welding process enables the infinitely variable production of tanks up to 6,000 m³ volume with horizontal welding only.

Fully equipped

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.

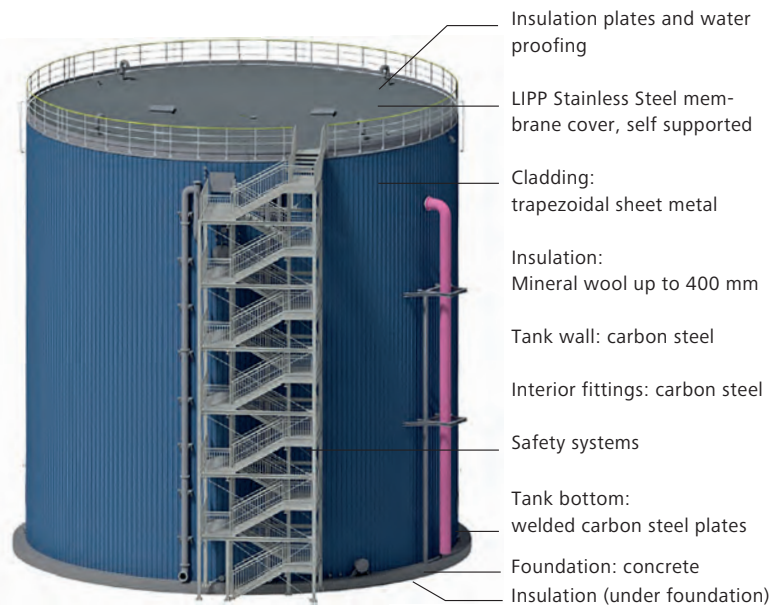
Without ongoing operating costs

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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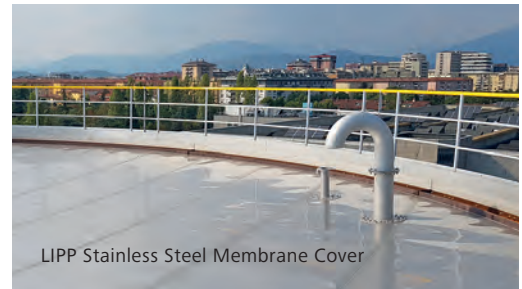


LIPP® Thermal Storage Tank for heating water



Major advantages

- No ongoing operating costs
- Long durability
- Low-maintenance
- Tailored to individual requirements
- Infinitely variable in diameter and height
- Same quality worldwide
- **Only horizontal welds**



Technical data

Volume

From 1,500 to 6,000 m³

Diameter/Height

Infinitely variable from 8 m;
Optimized diameter/height ratio

Height

Variable

Storage medium

Heating water up to 95° C
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

Carbon steel grade:
as required
Material thickness:
3 – 10 mm

Tank bottom

Carbon steel grade:
as required
Thickness: 5 – 10 mm

Tank roof

SS 304 or 316L
Thickness: 0,8 – 1,5 mm

Components

Interior fittings,
Manhole, diffusers,
temperature sleeves etc.
In specified carbon
steel grade

Construction

Tank wall

Automated
LIPP Welding Technology
MAW welding, horizontal

Tank bottom

Concrete foundation and
insulation underneath
Manually welded carbon steel
plates, anchored on concrete
Welding connection between
floor and tank wall

Tank roof

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

Exterior wall

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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