barnova

INNOVATIVE PRESSURE COMPETENCE

SPECIAL TANKS

Technoflex HT

Technoflex BT

Technoflex TS

Technoflex VA

Special tanks

Special paintwork

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INNOVATIVE PRESSURE COMPETENCE

Barnova TECHNOFLEX HT custom designs

Applications

These membrane expansion tanks are suitable for:

– Warm water heating systems in accordance with DIN EN 12828 and cooling circuits with water containing up to 50 % glycol

– Solar thermal systems to DIN EN 12976

– Hot water systems to DIN EN 12952 and 12953 to TRD 604

maximum operating pressure up to approx. 40 bar

Construction

These are planned, built and tested to customer's particular requirements.

Separate TÜV approval and CE marking in accordance with EU Pressure Equipment Directive 2014/68/EU and EN 13831, EN 13445 or AD 2000.

ASME certification with a U stamp is also possible.

Versions completely made of stainless steel are possible.

Examples

1. RWE Neurath power station, Germany

– 4 x **TECHNOFLEX HT 5000**

– max. operating pressure 33 bar

– with inspection hatch

– with internal coating

2. KMW AG power station, Germany

– 6 x **TECHNOFLEX HT 6000**

– max. operating pressure 16 bar

– with internal coating

– differential pressure measurement for level indication

3. Az Zour, Kuwait

– 4 x **TECHNOFLEX HT 4000**

– max. operating pressure 10 bar

– with internal coating

– packaged for transport by sea

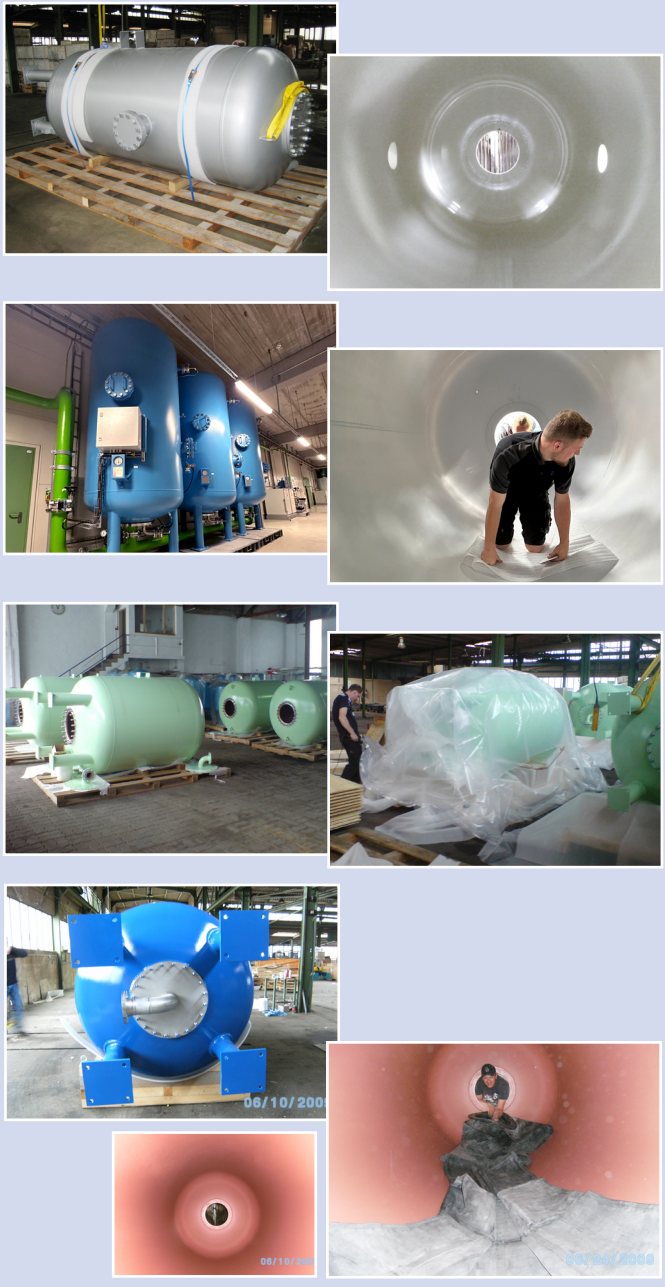
4. Bandirma, Turkey

– 1 x **TECHNOFLEX HT 7000**

– max. operating pressure 10 bar

– with stainless steel flanges

– with internal coating



Barnova TECHNOFLEX BT Sonderausführung

Applications

These membrane expansion tanks are suitable for:

- Pressure boosting systems and drinking water heating systems in accordance with DIN 1988 and DIN EN 806
- Fire extinguishing systems
- DVGW approval on request

Advantage!

An internal coating extends the service life of the membrane and protects the tank from corrosion.

Construction

These are planned, built and tested to customer's particular requirements.

Separate TÜV approval and CE marking in accordance with EU Pressure Equipment Directive 2014/68/EU and EN 13831, EN 13445 or AD 2000.

ASME certification with a U stamp is also possible.

The membrane is made from a special butyl rubber GQLY 5590, to ensure maximum impermeability.

Water flows through every part of the water compartment in the membrane expansion tank. Parts in contact with water (system connections) are made of stainless steel. The inside of the tank is completely coated to the German recommendations for parts in contact with drinking water (KTW), category A (tested to DVGW worksheet W 270).

The replaceable membrane made of butyl GQLY 5590 to DIN 4807 part 3 corresponds to the KTW recommendations, category C (tested to DVGW worksheet W 270).

Versions completely made of stainless steel are possible.

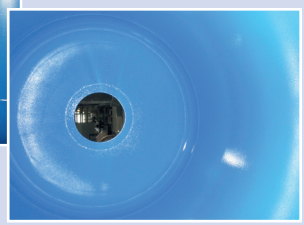
Examples

1. Kolba pumping station

- 3 x **TECHNOFLEX BT 4000**
- max. operating pressure 16 bar
- with internal coating
- 3 x **TECHNOFLEX BT 4000**
- max. operating pressure 25 bar
- with internal coating

2. Karlstein-Stetten pumping station

- 2 x **TECHNOFLEX BT 2000**
- max. operating pressure 16 bar
- with internal coating
- 2 x **TECHNOFLEX BT 500**
- max. operating pressure 16 bar
- with internal coating



Barnova TECHNOFLEX TS Sonderausführung

Applications

Barnova temperature reduction tanks are used to lower the temperature of the feed to membrane expansion tanks or pressure maintenance stations or stem/condensation extractors.

Hot water heating systems to DIN EN 12828
solar thermal systems to DIN EN 12976
Hot water systems to DIN EN 12952 and 12953
to TRD 604

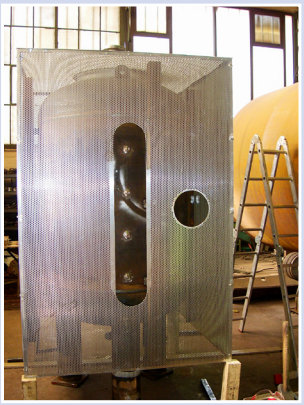
Construction

These are planned, built and tested to customer's particular requirements.
Separate TÜV approval and CE marking in accordance with EU Pressure Equipment Directive 2014/68/EU and EN 13831, EN 13445 or AD 2000.
ASME certification with a U stamp is also possible.
Versions completely made of stainless steel are possible.

Examples

1. Refuse incinerating power station, Umea Sweden

- **TECHNOFLEX TS 2000**
- max. operating pressure 38 bar
- max. operating temperature 230°C
- with protective housing



2. KMW AG power station, Germany

- **TECHNOFLEX TS 2000**
- max. operating pressure 16 bar
- max. operating temperature 145°C
- with manhole
- sand-blasted interior
- with protective housing

Barnova TECHNOFLEX VA custom designs

Applications

Non-pressurised stainless steel, cylindrical or rectangular tanks to collect washing water or dirty water containing oil

Construction

Separate TÜV approval and CE marking in accordance with EU Pressure Equipment Directive 2014/68/EU and EN 13831, EN 13445 or AD 2000.

Examples

1. Power station in Hemweg, the Netherlands

– washing water container 3.75 m^3

– cylindrical

2. Power station in Malcenice, Slovakia

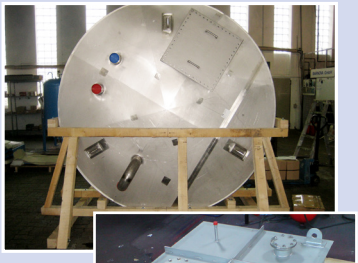
– washing water container 1.5 m^3

– rectangular

3. Power station in Livorno, Italy

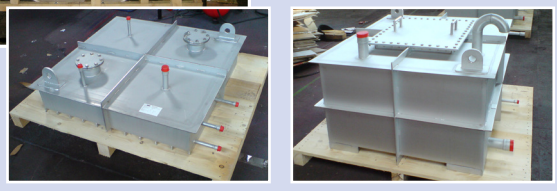
– washing water container 3 m^3

– cylindrical, low profile



– washing water container 200 + 600 litres

– rectangular, low profile + high



4. Power station in Westphalia, Germany

– tank for dirty oil, 1000 litres

– cylindrical

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INNOVATIVE PRESSURE COMPETENCE

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