

— HEAT STORAGE

Accumulator tanks

The tank stores the heat from the boiler and smooths out the peaks – from 300 to 20,000 litres.

300–20,000 litres

VOLUME · STANDARD 5,000 LITRES

20–30 litres per kW

RULE OF THUMB

COMPLETE SUPPLIER · BIO THERM HEAT AB

BIO THERM HEAT.COM



— HEAT STORAGE

The boiler runs evenly. The tank takes the peaks.

The tank stores hot water from the boiler. The boiler can work evenly and efficiently while the tank meets the variations in heat demand.

VOLUME

300–20,000 litres

STANDARD

5,000 litres, larger to order

RULE OF THUMB

20–30 litres per kW of boiler output

SYSTEM

Closed heating systems, up to 95 °C



— HOW THE TANK WORKS

Heat is stored in layers.

Hot water is lighter than cold. The hot water settles at the top and the cold sinks to the bottom, with a sharp boundary in between.



IN AT THE TOP

Hot water from the boiler.

STRATIFICATION

The inflow is controlled to preserve it.

OUT AT THE BOTTOM

Cold water back to the boiler.

SIZES AND DATA

Thirteen sizes.



From 300 to 20,000 litres, for closed heating systems. Thirteen sizes up to 10,000 litres – the standard is 5,000 – and compact tanks up to 20,000 litres.

VOLUME litres	ACTUAL VOLUME litres	Ø INSULATED mm	HEIGHT mm	TILT HEIGHT mm	WEIGHT kg	CONNECTION inches
300	281	610	1,680	1,790	55	1¼"
500	485	760	1,735	1,895	77	1¼"
750	726	910	1,765	1,990	109	1½"
1,000	1,000	1,010	2,000	2,245	125	1½"
1,500	1,438	1,250	2,145	2,475	194	1½"
2,000	2,041	1,350	2,475	2,815	263	1½"
2,500	2,500	1,450	2,220	2,655	296	2"
3,000	3,000	1,450	2,720	3,085	346	2"
4,000	4,000	1,600	2,810	3,235	492	2"
5,000 STANDARD	5,000	1,800	2,870	3,390	582	2"
6,000	6,000	2,000	2,790	3,435	684	3"
8,000	8,000	2,000	3,490	4,025	823	3"
10,000 SPECIAL	10,000	2,000	4,240	4,690	973	3"

COMPACT, FOR LOW CEILINGS

2,500–20,000 litres

5,000 LITRES

Height 2,480 mm
Ø 2,000 mm

10,000 LITRES

Height 3,916 mm
Ø 2,200 mm

20,000 LITRES

Height 5,060 mm
Ø 2,600 mm

Tilt height = minimum ceiling height needed to raise the tank. Connection = flow and return to the heat source. Tanks up to 5,000 litres are available with one or two heating coils. Compact tanks over 5,000 litres have flanged connections (PN16 DN80–DN100) and are made to order. Final data for your plant is provided at the design stage.

ACCUMULATOR TANK AND TWO MULTIAUTO 65-100

— IN THE BOILER ROOM

The tank stands beside the boiler.

The tank adds flexibility and ensures a steady supply of heat, even when the boiler is not running. It is sized together with the boiler.

20–30 litres per kW

RULE OF THUMB

Tank volume per kW of boiler output.

2,000–3,000 litres

FOR A 100 kW BOILER

Calculated with the rule of thumb.

4,000–6,000 litres

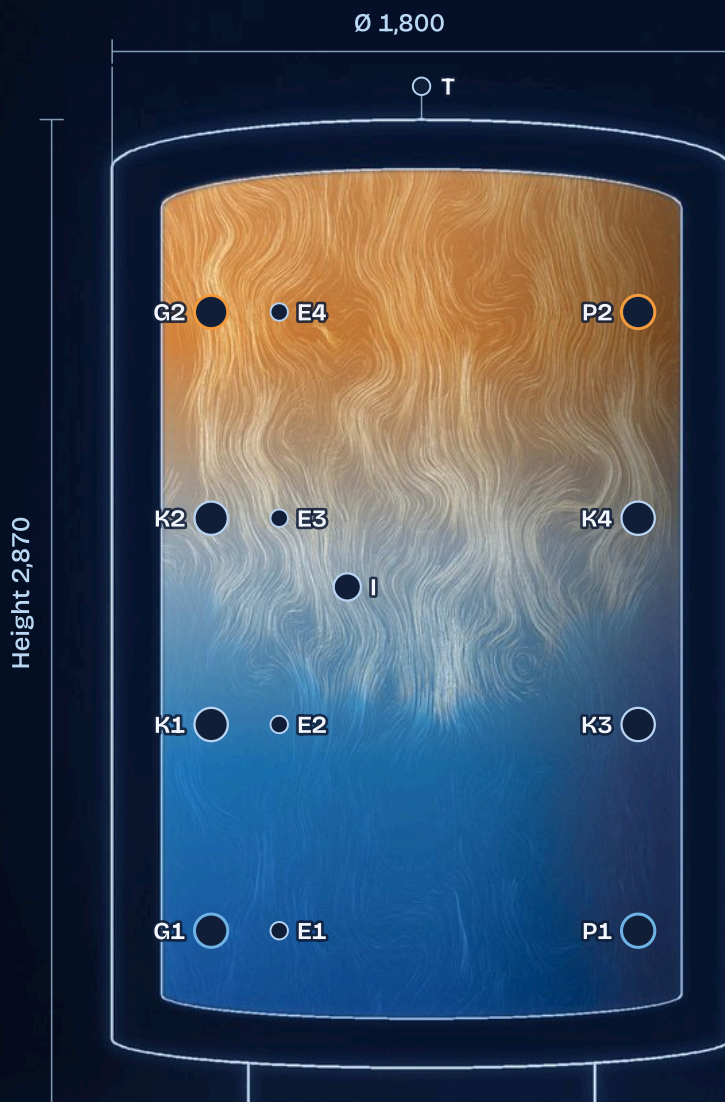
FOR A 200 kW BOILER

The standard tank holds 5,000 litres.

CONNECTIONS AND INSULATION

Properly connected, well insulated.

Connections at four heights, sensor pockets and space for an immersion heater. The drawing shows the 5,000-litre standard tank.



① Flow from the boiler
G2 and P2, at the top.

② Return to the boiler
G1 and P1, at the bottom.

③ Sensor pockets
E1-E4, 1/2" female thread.

④ Immersion heater
I, 1 1/2".

⑤ Extra ports
K1-K4.

⑥ Air vent
T, at the very top.

THE 5,000-LITRE STANDARD TANK FROM THE FRONT · SIMPLIFIED DRAWING

90_{mm}
INSULATION

95^{°C}
MAX. TEMPERATURE

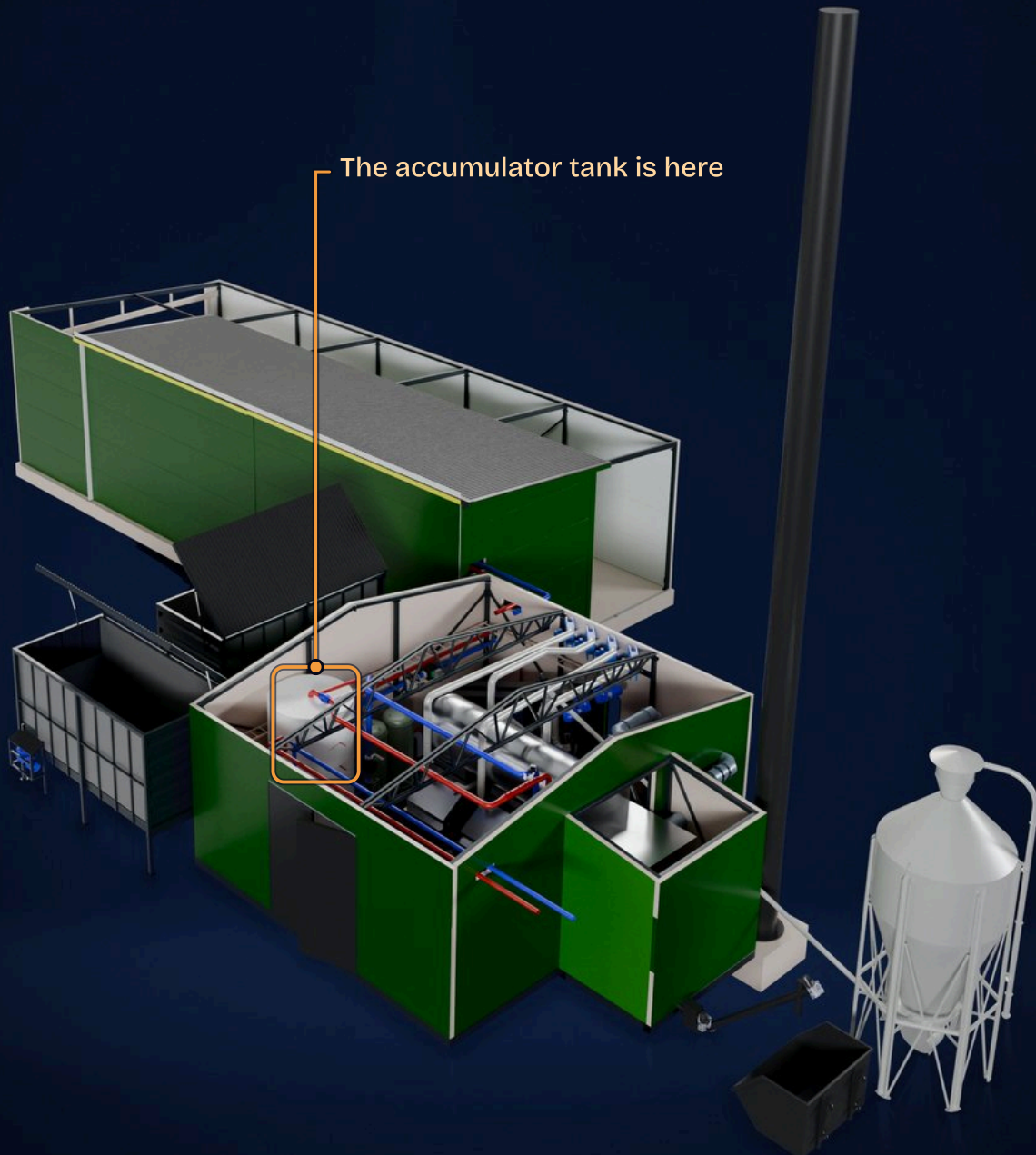
3 / 6_{bar}
PRESSURE CLASS

3,390_{mm}
TILT HEIGHT

— THE COMPLETE PLANT

The tank ties the plant together.

Biotherm designs the entire chain and sizes the tank together with the boiler.



01

Fuel store

Built to suit the site.

02

Boiler

Runs evenly.

03

Tanks

20–30 litres per kW.

04

Installation

Commissioning.

05

Heat out

To the building.

— FREE HEAT-LOAD CALCULATION

Let's calculate your heating.

We start with a needs analysis and a free heat-load calculation. Then we size the tank together with the boiler and take responsibility for the entire plant.

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READ MORE

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Technical data according to Biotherm Heat AB's range, subject to change. The rule of thumb of 20–30 litres per kW is a guideline – final sizing is done in the quotation. © 2026 Biotherm Heat AB.