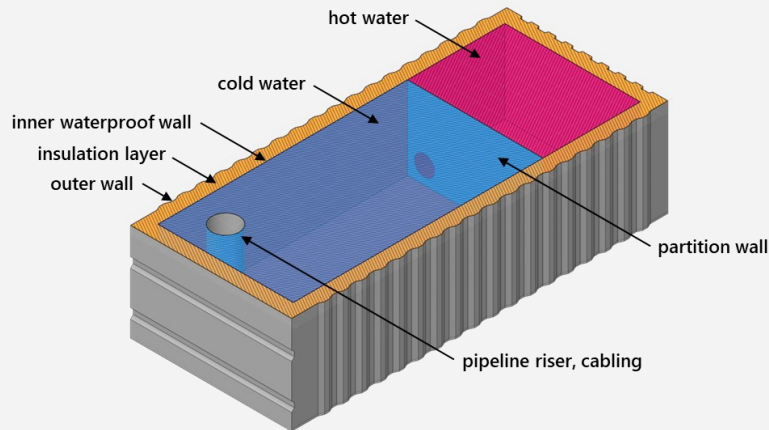


# SEP TSC 20 Thermal storage container

## Unique and variable design

The use of innovative materials and solutions results in heat loss on cold winter days of less than 1 °C/day, making the storage a suitable solution not only for short-term but also for medium-term heat accumulation. Achieving the desired storage capacity including different temperature levels is possible using a riser pipe with a unique system of interconnecting multiple units without increasing heat losses.



## High performance

The high temperature and volume of accumulated water, together with the minimal heat losses, ensures sufficient heat not only for hot water consumption, but also for heating or industrial purposes. The internal partitioning ensures high flexibility of operation.

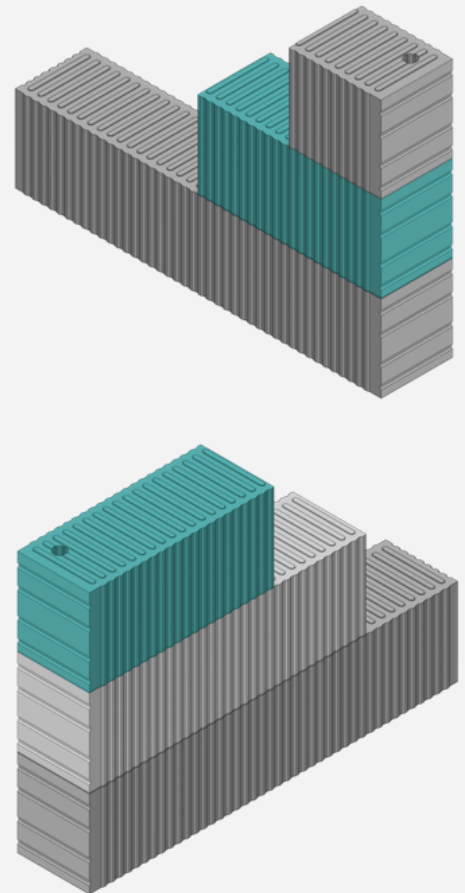
## Environmentally friendly

The use of readily available materials for design and water as a medium means that the storage is a safe and environmentally unparalleled friendly device. By storing the heat for direct use, energy conversion losses are subsequently minimized, leading to a substantial decrease in carbon footprint.

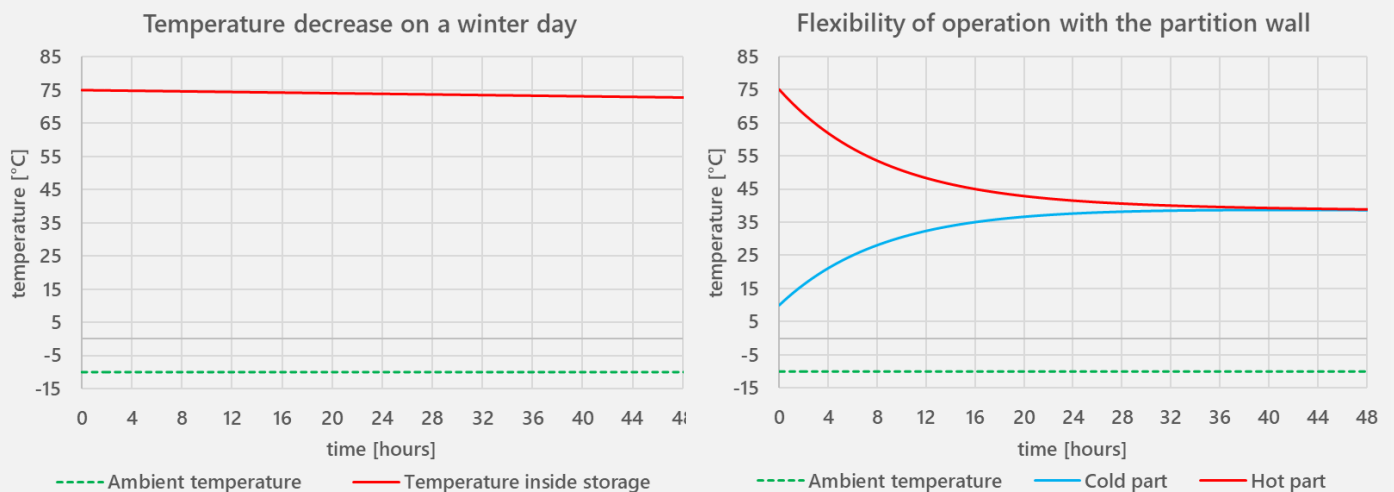


# Technical specification

Type	Thermal storage container
Usage	Accumulation of hot water for heating Hot water accumulation Thermal storage for residential and commercial purposes
Storage type	SEP TSC 20
Length / width / height	6.1 m x 2.5 m x 2.9 m
Weight of empty storage	2 800 kg
Frame material	Steel
Insulation layer	Polystyrene
Inner wall material	Polyethylene
Volume of water	20 m <sup>3</sup>
Maximum inner temperature	75 °C
Heat power	23 kW / 1 °C / hod
Operating heat capacity	3.7 GJ heat ( $\Delta T$ 45 °C) $\approx$ 1.0 MWh
System heat capacity	1.6 GJ heat ( $\Delta T$ 20 °C) $\approx$ 0.4 MWh
Riser pipe diameter	20 - 40 cm
Equipment	Variable Assembling System (VAS) Storage Management System (SMS) Container Towers Remote Monitoring and Support System (CTRMSS)



## Accumulation properties



The heat inside the battery is not lost but only transferred from the hotter to the colder part – it is cheaper to heat up the water to the desired temperature and also, the battery maintains high flexibility of operation.

