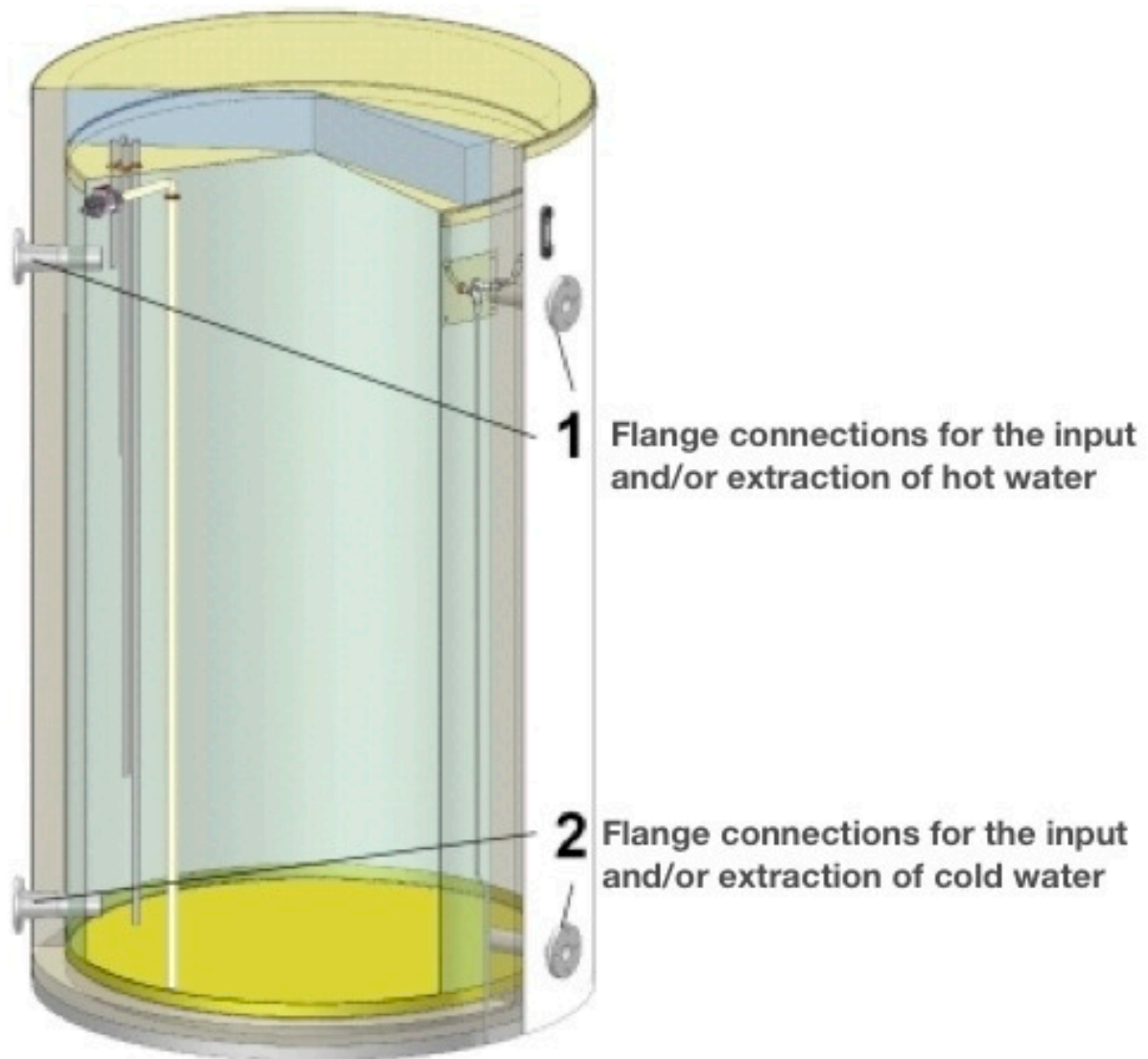


HAASE ENERGY TANK

Haase buffer storage with flange connections



Specifications T400 Buffer Tank

Volume	: 1000-20000 Gal.
Specific feature	: on site assembled
Storage medium	: water
Max. temperature	: 185 F.
Max pressure	: pressure-less
Insulation bottom	: styrodor high pressure board
Tank material	: Glass fiber reinforced plastic
Insulation cover and jacket	: Fiberglass wool
Loading and unloading system	: via flanges to external heat exchanger

Haase buffer storage with flange connections

Application

- short-term interim storage of large amounts of energy

Advantage

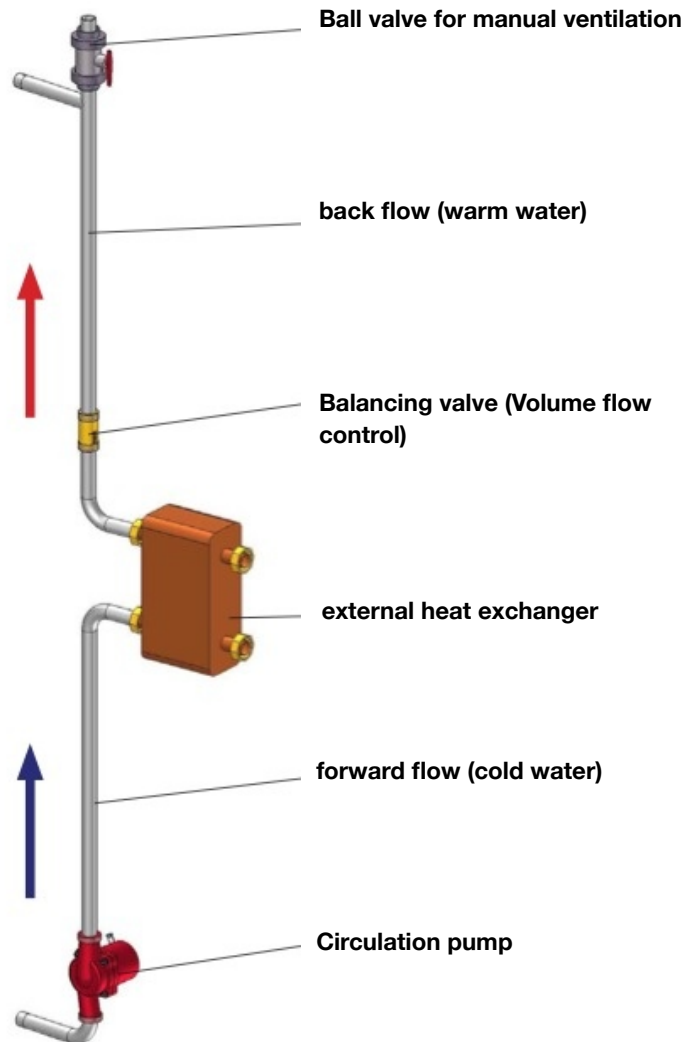
- after short injection time high usable system tank temperature
- through use of external heat exchangers little danger of calcification in the buffer tank
- high temperature difference between forward and backward flow
- introduction in to the tank of large amounts of energy in short time period

Extras

- to separation of systems a pump per external heat exchanger is needed , we suggest the use of a balancing valve to regulate the flow in the system

Available Flange sizes

- DN 32,50,70,100 (other sizes are on request)



applies to the use case of system loading

(This version of the joint assembly to serve as a non-binding example)

Operation

The water is directly put into and/or extracted from the buffer tank. During loading, the cold water is extracted from the buffer tank by the lower flange, heated, and put into the buffer tank by the upper flange. The buffer tank is unloaded by the extraction of hot water from the upper portion of the tank and input of the cooled water into the lower portion. Due to the pressure-free operation of the buffer tank , an external heat exchanger must be used for system separation.

Advantages

The buffer tank can be equipped with any number of flanges of any size.

This enables application as a hydraulic compensator and the storage and/or extraction of high energy quantities within a short period of time.