# speicherpraxis

Information zum HAASE-Wärmespeicher

Sonne im Tank

## The project

This system was designed to utilize the waste heat from the computer room cooling system and has been in use for over 5 years.

The council server rooms need to be at a stable cool temperature, which involves the removal of heat generated by the computers. Traditionally water/air systems are used for this practice, resulting in the compulsion of heat created during this process.

Mr. Iskenius-Eggers, chief engineer at the council designed, proposed and implemented a water/water heat pump, in conjunction with an energy storage tank and integrated piping to accumulate this surplus heat. The centre of this system is a 35 kW heat pump supplying 15-degree cold water for the computer room cooling system and the waste heat of approximately 62 degree that is accumulated in our Haase tank. Initially a 10 year payback was calculated, but the estimated payback for the implementation of our heat recovery tank, including connection to the heat pump, was less than one year, offering now yearly cost savings of around Euro 70,000.00. The energy is built up in our Haase tank over some 20 hours and used to supply ample hot water for the showering when the workers return from their work, in the afternoon.

## 500 showers a day for free


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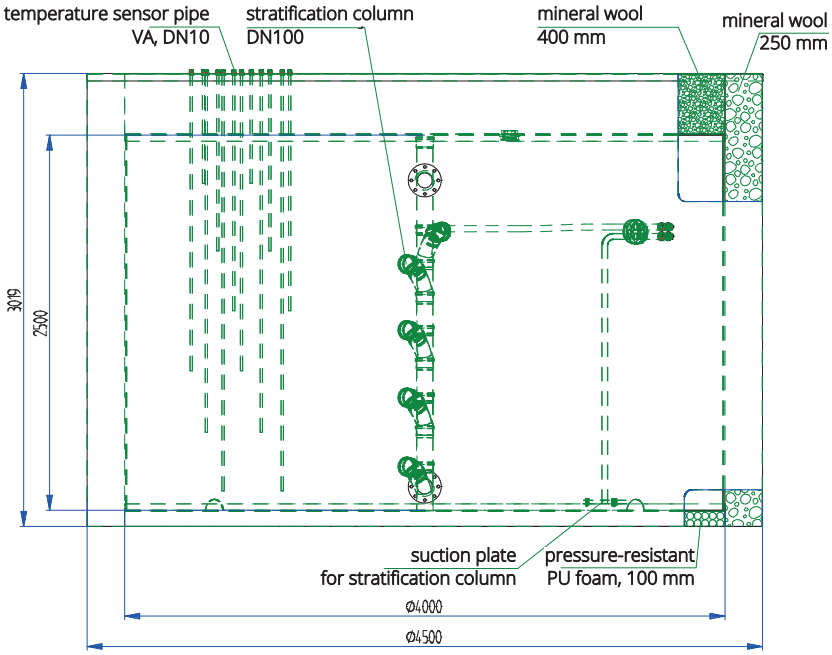


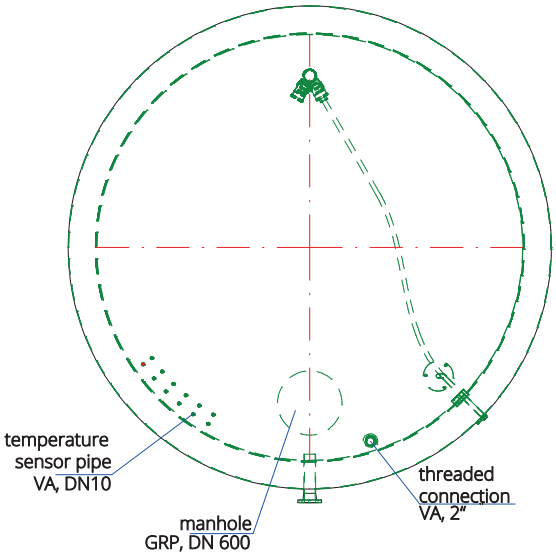


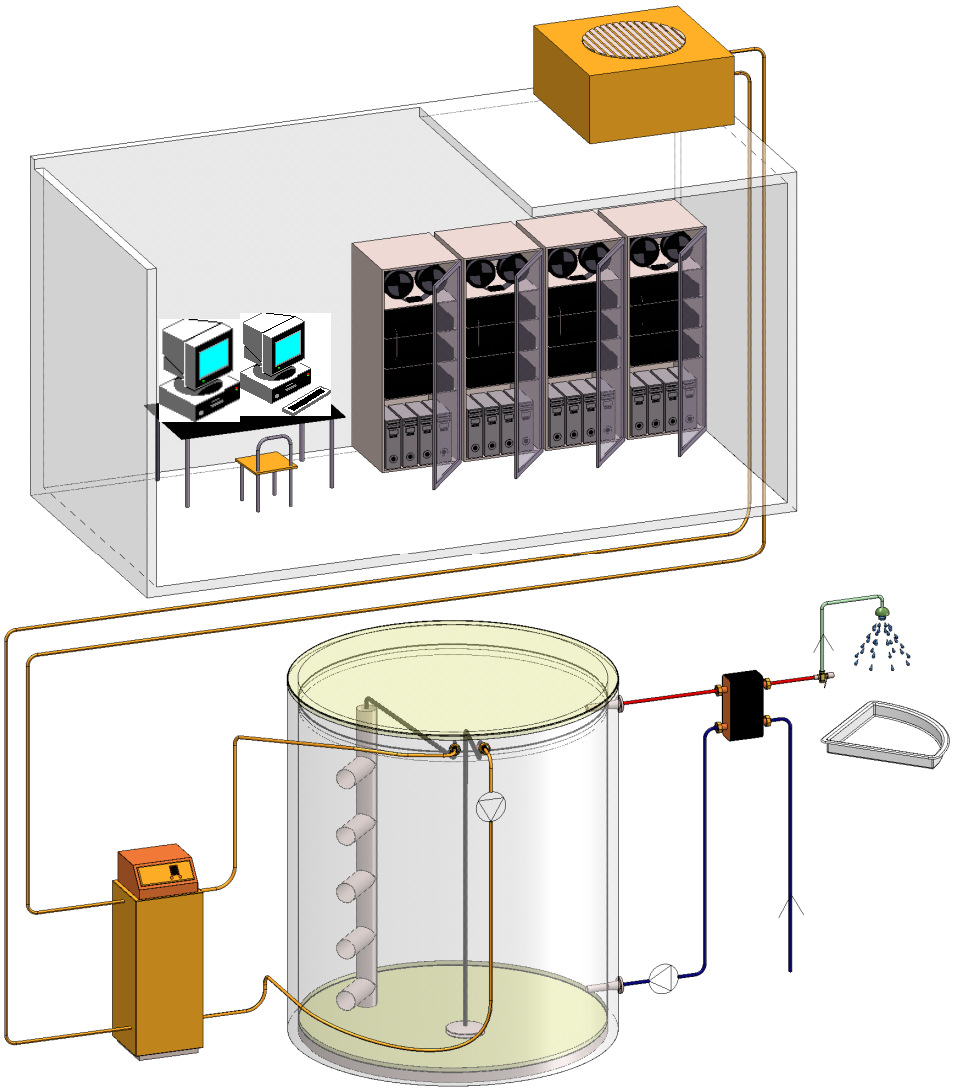

Main showering complex for 500 workers at the council headquarters in Hamburg

*Heat accumulation system:*

Haase 30,000 l stratification storage

Estimated hot water use:
25,000 l / day

Energy saving:
500,000 kWh / year

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