

# speicherpraxis

Information zum HAASE-Wärmespeicher



## The project

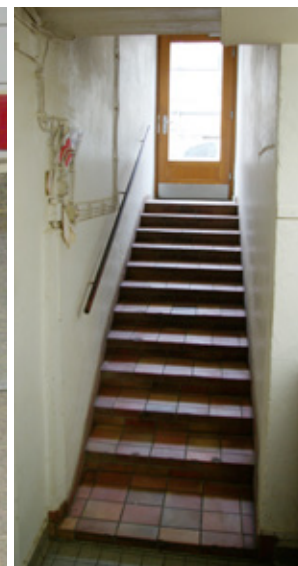
An established bakery in Hamburg wanted to optimise the wasted heat from their baking ovens and boilers. The bakery is part of an old established building occupying the ground floor and basement in this multi-storey building. Together with our Haase partner in Hamburg they came up with a solution to optimise this wasted energy by using our tank as a heat accumulator and utilise this heat to supply hot water as well as space heating to the 12 flats in the same building. The bakery is able to charge the users for this energy with an estimated return of investment of 3 years.

The great challenge was the implementation of all the required components. This was a rather difficult challenge since there was no additional space available. However there was some space under the basement of the bakery which was really the only solution.

This space, under the bakery, was excavated so that we could fit the three tanks (2 x 8,000 l plus 1 x 6,050 l). After the space issue came the access issue. This newly created space below the bakery was only accessible via a 70 x 70 cm floor opening (shown in the picture). This of course was no issue for our tanks, since this is



## Energy recovery 150,000 kWh a year



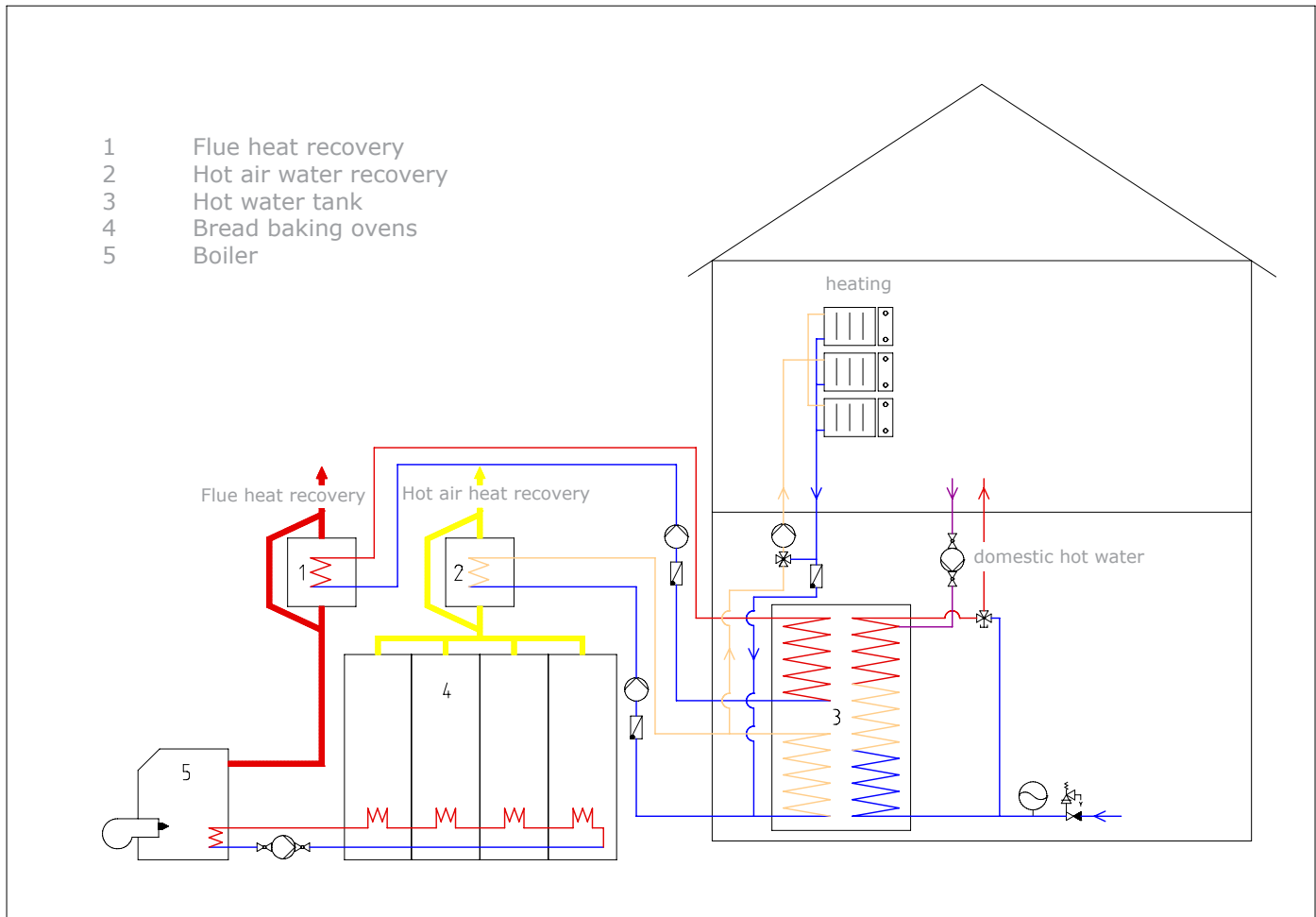
## Investment has been returned many times

one of our advantages. All components were passed through this floor opening and our skilled partner had no problems constructing these tanks in this rather unique location.

The skills and understanding of our Haase partner made this project a real success. During a recent visit, to the bakery, we

had the opportunity to meet with the owners of the bakery. They expressed that this was the best innovative and money making project and they thanked us for coming up and realising this project. This system is in operation now since 2011 and it will operate for many more years to come.

## System schematic



## Technical details

2 x T 422-77  
 Volume: 8,000 l  
 Height: 2.50 m  
 Diameter: 2.50 m

1 x T 419-58  
 Volume: 6,050 l  
 Height: 2.50 m  
 Diameter: 2.20 m

*assembled on site*

*Configuration:*  
 Heat exchangers for  
 primary and  
 secondary heat  
 transfer

*Heat sources:*

- Exhaust heat from ovens,  
about 62 kW
- Flue heat recovery from  
boiler, about 37 kW

*Application:*

- Domestic hot water
- Heating support



Our three tanks were constructed in this limited space available.



**HAASE**  
**IHR SPEICHERPROFI**

**Haase GFK-Technik GmbH**  
 Adolphstr. 62 01900 Großröhrsdorf  
 Tel. 03 59 52/3 55-0 Fax 03 59 52/3 55-33  
 info@haasetank.de www.haasetank.de