

# speicherpraxis

Information about projects with the HAASE hot water tank



## The project

This system was designed to utilise the surplus heat generated by the Daikin VRV system during the cooling period. This results in an estimated hourly energy accumulation of around 50 kWh. There are two additional VRV units for hot water production when there is no surplus heat available from the cooling process. This set up can supply 100 kW per hour.

There is also a major design upgrade in the hot water distribution throughout the hotel.

The key to this system is the accumulation of primary energy in the 14,900 l Haase tank. This primary hot water is circulated throughout the building. Individual hot water stations, which are placed on each floor, supply via a heat exchange system (variable controlled) secondary, hot water the individual rooms.

### Advantages:

- Reduced capital investment
- Long life of storage tank (no internal heat exchangers used)
- Simple maintenance of individual heat exchange systems
- Eliminate Legionella in storage tanks



The tank was installed on the 12th floor shortly before commissioning. The hotel has now opened.

## Reuse, Recycle, Recover (RRR): Usage of the surplus energy for 125 rooms



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## The system

This system utilises the rejected heat from the VRV system during cooling operation.

The surplus heat is accumulated in our Haase storage tank and provides hot water to a hot water circuit throughout the hotel. Both circuits are non-pressurised. Our Haase tank is placed on the top floor in the building. Throughout the building, freshwater stations are placed to provide pottable hot water. Generally, one of these freshwater stations can serve the requirements of one floor.

In case of insufficient heat recovery, an additional two separate high temperature heat pumps provide additional hot water to our Haase tank.

The system control includes variable speed pumps which ensure ample supply of hot water.

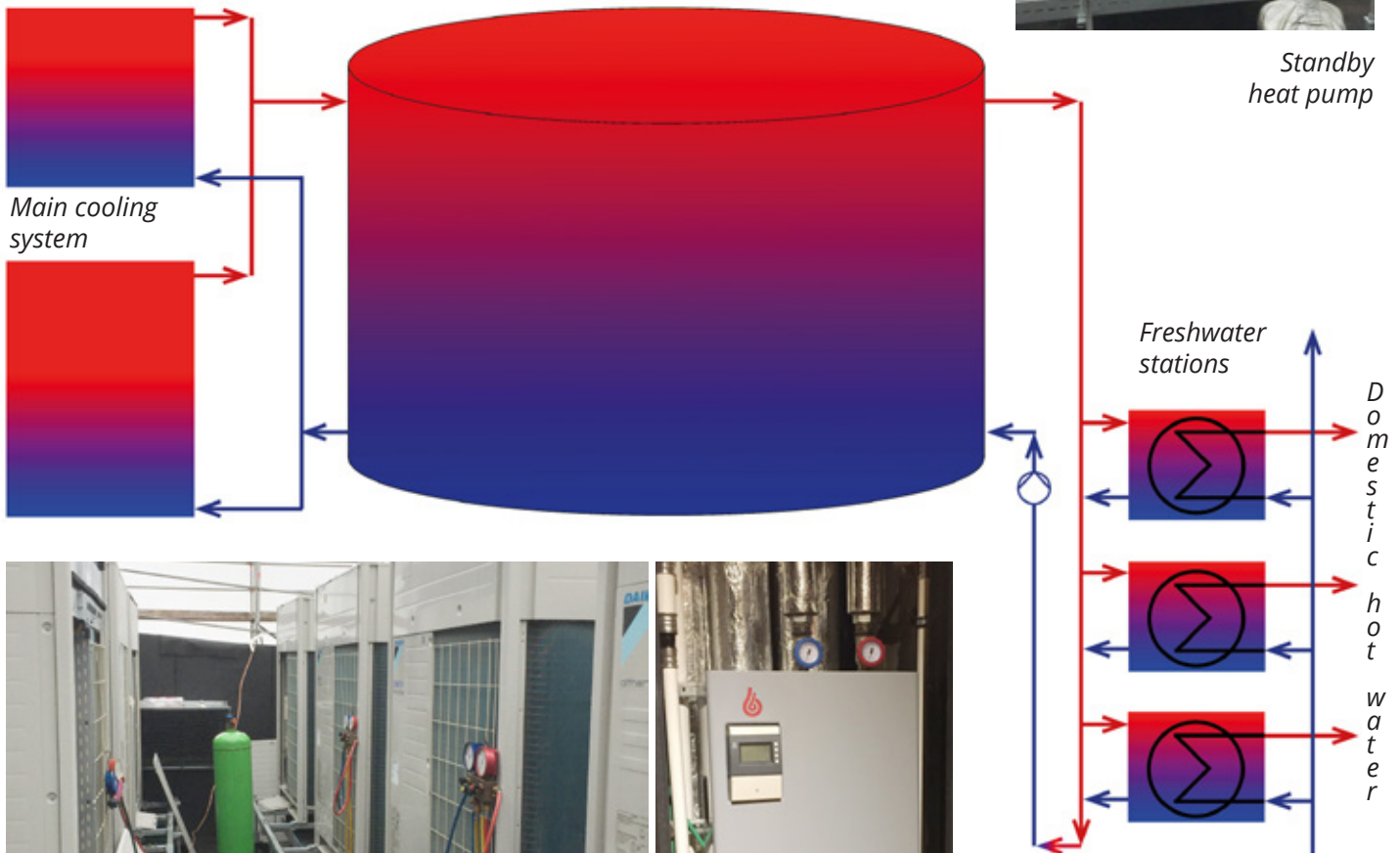
Standby heat pump

Haase hot water tank

14,900 litres



Standby heat pump



Main cooling system



Freshwater stations

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