

Cooling of server and switch rooms

Installation of four interconnected eChiller35 in the data center of the Saarland telecommunications provider VSENet.



Project and implementation

Energy-efficient conversion of the existing air-conditioning system with water-cooled air-conditioning cabinets. The air-conditioning cabinets are supplied by four interconnected eChillers with a cooling capacity of 140 kW. The required temperature on the intake side of the racks is 27°C maximum.

The core requirement was an above-average performance in energy efficiency due to rising power costs. Due to the high system temperatures, the FreeCooling option was also elementary.

Customer:

FAMIS GmbH,
Saarbrücken / Germany

Requirements:

- High energy efficiency
- Operational safety
- Sustainability and CO₂ savings

Outcome

The profitability calculation showed in advance that mechanical refrigeration can be dispensed for a large part of the year, and the FreeCooling module saves a lot of energy and money. The use of another eChiller is planned.

‘The eChiller was the perfect solution, both economically and strategically, for the expansion of the system at VSE NET. We are increasingly focusing on climate-friendly and future-proof solutions in our portfolio, so the sustainable refrigeration technology from Efficient Energy fits nicely’.

Marcel Schäfer, Authorised Signatory and Head of Technical Operations and Service



4 x 35 kW = 140 kW
Cooling capacity (kW)



18 °C
Setpoint temperature



R718 (water)
Refrigerant



Not relevant
Sound pressure power



Dry
Recooling

