

A better climate

High-power climate control solutions for small server rooms

Just introduced at CeBIT and already a success! The general room cooling concept didn't meet the requirements of the Verband der Chemischen Industrie e.V. (VCI or German Chemical Industry Association), and the decision was made to use the Rittal Liquid Cooling Package (LCP).

High performance servers in particular generate a lot of heat, which can have fatal consequences for the availability when the server room overheats. This is a scenario well known to the VCI, an association of about 1,600 German chemical companies, from their own experience. The room cooling concept used there didn't work: when the climate control system failed one day, the server room heated up and all but a few machines failed.



During the planning of the reconstruction of the barely 64 square meter room, the VCI decided to use the server cooling concept from Rittal. The Liquid Cooling Package (LCP) is as simple as it is effective: air/water heat exchangers provide direct cooling from the side panel. The cooling capacity can be adjusted to meet the actual requirements and expanded "on demand" later on without making a large investment.

Monitoring capabilities are also present: the Computer Multi Control TopConcept (CMC-TC) monitoring system regularly informs the persons responsible in the form of monitoring records containing current values of, for example, the temperature in the server room or in the enclosures. When critical values are exceeded, the CMC-TC prevents a network failure and equipment shutdown using an automatic alarm.

"The room is big enough now for all five server enclosures, each with an output of 3 kW", summarised the IT Manager Peter Oberländer. Thanks to the LCP, the heat is easy to remove now. If the volume of data should increase, then it will be no problem to implement additional or higher performance server systems.

Components: Racks, Liquid Cooling Packages (LCP), CMC, PSM

Would you like to find out more about this project?

RimatriX5 Solution Center:

Hotline: +49 (0)2772 505-1800
e-mail: rimatriX5@rittal.de