

GF Piping Systems

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COOL-FIT 4.0 in data centers

The sustainable cloud for small and medium-sized enterprises

Cooled with GF Piping Systems

LEITWERK AG offers regional and sustainable IT solutions through BADEN CLOUD®.

With COOL-FIT 4.0, GF Piping Systems supports the sustainable operation of BADEN CLOUD®



As home office becomes the new normal, cloud computing is playing an increasingly important role. Recognizing this trend as well, the NOVELLUS Group created BADEN CLOUD® through its subsidiary LEITWERK AG. The company gears its services mainly towards small and medium-sized enterprises seeking a regional and sustainable IT solution. The cooling of the data centers is indispensable: COOL-FIT 4.0 ensures reliable and maintenance-free air conditioning for lower energy consumption.

Background to the project

As more and more hardware resources are needed in modern data centers, many companies are hitting the limits of their capacity. Which is why, as a regional partner, LEITWERK AG is offering modular IaaS (Infrastructure-as-a-Service) solutions in the form of BADEN CLOUD®. The services cover a broad spectrum, from colocation (rental of IT space) all the way through to managed services comprising a full IT package. Besides protection against hacker attacks, a redundant power supply and a state-of-the-art extinguishing system, data center cooling in particular plays a key role in secure operation.

Chosen technical solution

The devices in data centers become extremely warm during operation. An adequate cooling system must therefore ensure that the right temperature is maintained at all times. And so LEITWERK AG decided to install COOL-FIT 4.0 from GF Piping Systems at the Appenweier site. The fully pre-insulated plastic piping system offers distinct advantages over conventional piping systems: corrosion-free, it requires barely any maintenance and can be installed in up to half the time thanks to its low weight.

Accomplished improvements

LEITWERK AG is aiming for CO2 neutrality in the operation of its BADEN CLOUD®. To that end, the company was looking for a piping system that is both energy-efficient and reliable. Thanks to the low thermal conductivity of plastic and the pre-insulated design of COOL-FIT 4.0, the system achieves a 30% improvement in energy efficiency. This not only makes the computer center more sustainable, it also reduces the operating costs – to the benefit of both LEITWERK AG and the customer.



The servers, storage systems and network components in computer centers get extremely hot – cooling is an indispensable process.



COOL-FIT 4.0 in the BADEN CLOUD® cooling system at the Appenweier site.

Customer benefits

- Made from plastic, COOL-FIT 4.0 is corrosion-free and requires barely any maintenance. Plastic means a long service life.
- COOL-FIT 4.0 is fully pre-insulated and hence up to 30% more energy-efficient than conventional piping systems.
- The plastic components are much lighter than metal alternatives and can be installed in up to half the time.

Your contact

Georg Fischer Piping Systems Ltd
Ebnatstrasse 111
8201 Schaffhausen / Switzerland

Telephone +41 (0)52 631 11 11
mail@georgfischer.com
www.gfps.com

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