

PRESS RELEASE

Climate neutrality for high-density data centres

SCHÄFER IT-Systems adds to cooling solutions in its iQdata portfolio

Neunkirchen, 2nd August 2022. Traditionally, servers have been cooled using air, but meanwhile liquid cooling systems are increasingly being used. The almost completely water-cooled High Cap Edge from SCHÄFER IT-Systems – the specialist for data centre infrastructure and cooling solutions, as well as network technology – operates on the basis of direct hot water cooling. This rack-based, complete solution for Edge applications enables efficiency demands contained in EU guidelines to be met, irrespective of the installation site's ambient conditions. The intention is to achieve climate neutrality beyond classical data centres too.

The cooling system is based on an integrated In-Rack Cooler. In addition, a Slot-In Cooler or a BackCooler is provided for dissipating residual heat. This requires a cooling capacity of no more than a few kilowatts. Additional cooling for other hardware modules in the rack, such as network components, uninterruptible power supplies or power distribution strips, is not necessary.

The use of direct hot-water-cooled servers and water-conditioned Slot-In Coolers or BackCoolers reduces the costs for climate control units and enables the heat from the unit to be re-used for the district heating network, for example. With a temperature spread of 10 Kelvin, High Cap Edge achieves a cooling capacity of 50 kilowatts. Alternatively, free cooling with an output of up to 10 kilowatts at a temperature spread of 6 Kelvin is possible all year round.

The closed system approach provides a compact overall solution for high-density data centres, whose cooling capacity can be expanded by buying additional racks and their cooling systems. Due to the energetic integral concept and the closed design, High Cap Edge has a minimum of necessary interfaces.

SCHÄFER IT-Systems has developed the new iQdata cooling solution further together with its cooperation partner Cloud&Heat Technologies in Dresden. As the product name suggests, the target application is designed for high-performance, high-density data centres or edge applications in the smallest possible spaces.

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For information on iQdata Cooling visit: www.schaefer-it-systems.de/de/angebot/cooling

For information on Cloud&Heat Technologies visit: www.cloudandheat.com

Images and captions:

Fig. 1: High-Cap-Edge_Bild-1_(c)_Schaefer-Werke-GmbH.jpg

Caption: iQdata cooling solution High Cap Edge with SlotInCooler from SCHÄFER IT-Systems.

Fig. 2.: High-Cap-Edge_Bild-2_(c)_Schaefer-Werke-GmbH.png

Caption: iQdata cooling solution High Cap Edge with SlotInCooler from SCHÄFER IT-Systems.

About SCHÄFER IT-Systems (www.schaefer-it-systems.de):

SCHÄFER IT-Systems, an innovative manufacturer of made-to-measure network and server cabinet and data centre solutions for both conventional and complex applications, is part of the internationally successful company SCHÄFER WERKE.

This owner-led enterprise is headquartered in Neunkirchen in Germany's Siegerland region and operates globally with diversified business areas: EMW Steel Service Centre, perforated sheets, fully recyclable standard and special containers in stainless steel and installations for data centres as well as workshops and factories. The work of all these divisions is based on high-quality fine steel sheet. The processing of this material is one of the core competencies of this enterprise.

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