

Press Information

Rittal GmbH & Co. KG

*Rittal at HMI in Hanover
from 11 - 15 April 2005
Hall 11, Stand E04*

Water cooling for frequency converter

Rittal Direct Cooling Package DCP: Liquid-operated partial assembly mounting plate for the dissipation of heat loss.

Herborn/Hanover, 15 April 2005 - For the dissipation of heat losses in enclosures of high safety class Rittal is now offering an innovative cooling solution for power electronics - in particular for cases where conventional cooling methods cannot be used. Employing the Rittal Direct Cooling Package DCP components of power electronics such as variable-frequency converters, servo controllers, motor controllers, braking resistors, line filters, and motor choke inductors can be efficiently cooled through a liquid-operated partial assembly mounting plate. On the one hand, you may install the system, also named Cold Plate as cold plate using system attachment consisting of T-slots and clamp straps. Thus additional drills on the cooling plate will not be necessary. On the other hand, Cold Plate is available with completely free surface for customer-made tapping. This allows flexible installation of varying components. Both variants are available with various coolant infrastructures, either with standard enclosure piping or with stainless steel distributor and flex-piping.

The extensive range of system accessories offers the user variable installation in Rittal's enclosure system TS 8. Installation and mounting is facilitated by sophisticated system attachment. The only prerequisite is connection to an existing cooling-water circuit or re cooler. Rittal DCP is providing the user with the most efficient solution for cooling power

"Fascinating Future" is the banner above the new information platform of Herborn-based company Rittal. Publications of the latest research results are flanked by user reports and other articles documenting the successful implementation of new technologies in the more than 8,000 different Rittal products. After all, the future has many complexions. "Fascinating Future" sets new standards in quality and cost-efficiency. It demonstrates that Rittal is an important partner for the world market when it comes to research and development. For more details, visit: www.fascinating-future.com

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electronics of Rear-Flat or Cold-Plate technology - in particular for enclosures of high safety class.



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Today, with more than 8,000 standard products available for immediate delivery, Rittal is one of the leading system providers for housing and enclosure technologies. The product spectrum covers the fields of industrial enclosures, electronic packaging, power distribution, IT solutions and communication systems, alongside a variety of unique solutions for system climate control. As a specialist supplier, Rittal presents solutions ranging from active fan ventilation for applications with lesser cooling requirements up to air-water heat exchangers and recooling systems for higher temperatures.

The scope of competence also embraces cooling for sensitive electronics in enclosures and housings for industrial process control, as well as for server and network technologies. Introducing their new Power Cooling System in 2002, Rittal was the first manufacturer to show the world how a liquid-based CPU cooler can be integrated in the infrastructure of server racks.

In addition to future-oriented solution expertise in all matters of system climate control, Rittal offers a comprehensive range of customer services, including world-wide consulting, maintenance and spare parts services, and special climate control service centres for 54 countries. Service hotlines, mobile on-site customer service, and climate control consultants with heat-sensitive cameras and computer simulation (CFD) round off the programme.

Under the roof of Rittal International optimum synergies for the customer are created, based on close co-operation with market leaders like Eplan (Number One in Europe for software solutions for general engineering and plant construction and the general industry), Lampertz (a prominent supplier in the field of data and system security), and Litcos (a provider of innovative security concepts for data systems). 19 high-tech production locations – including, since February 2004, a state-of-the-art site in Shanghai, China – 60 subsidiaries; 150 sales and logistic centres and more than 70 agencies around the globe enable us to optimally supply all of the world's market places. In Germany, 22 Rittal sales and logistics centres cater for the customers' every need with nation-wide service. With over 8,500 employees world-wide, Rittal International is the largest company of the Friedhelm Loh Group of Haiger, Germany. Overall, the group has a workforce of more than 10,000.

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Pictures:

Picture Rittal Direct Cooling Package: *Cooling frequency converter efficiently with Rittal Direct Cooling Package DCP: Liquid-operated partial assembly mounting plate dissipates high loss powers.*

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