

Press release

Rittal Ltd



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Rittal Blue e+ S cooling units

Cool successor with sustainable DNA

Rittal is expanding its smart cooling unit solutions by adding the new Blue e+ S range. Our latest generation of cooling units with their lower output categories of 300, 500, and 1,000 W have been designed for efficiency, ensuring a smaller footprint and lower costs – just like their “bigger brothers.” So it’s a win-win both for users and for our future.

Solutions that reduce our carbon footprint during production are in high demand. But at the same time, these solutions need to be intelligent and communication-enabled so that they can be easily integrated into digitalised manufacturing environments. Seven years ago, Rittal responded to this demand with its Blue e+ range of cooling solutions and launched extremely efficient enclosure cooling units, which provided on average energy savings of 75 percent. Now we have a new generation – the next generation – but still developed with that same design DNA. These new cooling units with their lower cooling outputs of 300, 500, and 1,000 watts called “Blue e+ S” add to the Blue e+ family and bring with them additional smart capabilities. And furthermore, this new generation offers innovative energy-saving features for the production process.

What’s behind this energy-saving and therefore cost reduction is the technology used, combining a heat pipe with inverter-controlled components. The heat pipe works without a compressor, expansion valve, or other regulating elements and so does not need any electrical energy except to operate the fan. Depending on the thermal energy generated in the enclosure and the current ambient temperature, cooling can be performed with the heat pipe alone. The additional compressor cooling only operates if a large amount of heat has to be dissipated from the enclosure or if the ambient temperature is very high. And what’s more – when it does operate, it is far more energy-efficient than conventional units. This is because the compressor and fans possess an inverter-controlled drive, which automatically adjusts their speeds depending on the requirements. As a result, the temperature within the enclosure remains constant, and the energy efficiency is significantly higher than with other more conventional cooling units.

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Staying cool all the time

Alongside energy efficiency, another feature also reduces the carbon footprint: The new Blue e+ S series uses a refrigerant with a GWP (Global Warming Potential) that is 56 percent lower than those used in comparable cooling units. Furthermore, instead of the R-134a previously used, the cooling circuit in the new generation of units now runs with R-513A refrigerant.

Smart communication-enabled capabilities

With their additional smart functions, the new cooling units also help in the digitisation process. With a fully integrated IoT interface as standard, the cooling units can be intelligently monitored in digitalised environments and easily connected to Rittal's new Smart Service Portal. This optimises the service processes and increases efficiency through predictive maintenance. As a result, fewer unplanned downtimes occur which all helps to manage the high cost of production, especially with Industry 4.0 processes.

Production-friendly facelift

These cooling units in the lower output classes have also undergone a facelift. Their most striking feature is an integrated coloured LED light strip. This means that warning messages can be immediately seen, even from far away. A display on the front of the enclosure provides additional up-to-date information. Moreover, the cooling units are equipped with the familiar NFC interface, which enables them to communicate with mobile devices that have the Rittal Scan & Service app installed.

For further information on the entire Rittal range visit www.rittal.co.uk or check out our linkedin page [@rittal-ltd-uk](https://www.linkedin.com/company/rittal-ltd-uk)

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Image 1 fri221836400.jpg: Photo shows: The Blue e+ S Cooling Unit

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About Rittal

Rittal, headquartered in Herborn, Germany, is a leading global provider of solutions for industrial enclosures, power distribution, climate control and IT infrastructure, as well as software and services. Systems made by Rittal are deployed in over 90 per cent of all industries across the world, including mechanical and plant engineering, food and beverages, and IT and telecommunications.

The international market leader's product portfolio includes configurable enclosures, with data available across the entire production process. Smart Rittal cooling systems, with up to 75 per cent lower power and a great CO2 advantage can communicate with the production landscape, enabling predictive maintenance and servicing. The offering also includes innovative IT products, from IT racks and modular data centres, to edge and hyperscale computing solutions.

Leading software providers Eplan and Cideon support the value chain, providing interdisciplinary engineering solutions, while Rittal Automation Systems offers solutions for switchgear. Within Germany, Rittal can supply products on demand within 24 hours – with precision, flexibility and efficiency

Founded in 1961, Rittal is the largest company in the owner-operated Friedhelm Loh Group. The Friedhelm Loh Group is active worldwide, with 12 production sites and 94 international subsidiaries. It has 11,600 employees and posted revenues of Euro 2.6 billion in fiscal 2019. In 2021, the family-run business was named one of Germany's leading employers by the Top Employers Institute, for the 13th year running. A Germany-wide survey by Focus Money magazine named Friedhelm Loh Group as one of the nation's top companies in terms of vocational training for the fifth year running in 2021

For more information, visit www.rittal.com and www.friedhelm-loh-group.com.