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Rittal Cooling Units Now With New Output Class

Rittal's Blue e+ cooling units are acknowledged as the most efficient of their kind on the market. Independent tests have shown they are – incredibly - 75 per cent more energy efficient than previous cooling solutions.

On the back of this success, the company is now extending the Blue e+ range. The new unit to be launched in the first quarter of 2018 will provide an output class as low as 1.6 kW, extending the existing range of between 2 to 6kW.

Blue e+ units will be on the Rittal stand (D720) at Drives and Controls 2018.

“This new unit is an important milestone for the Blue e+ cooling unit range and is designed to increase the flexibility of our offering and meet a growing need for compact cooling units for efficient enclosure climate control,” explains Karl Lycett, Rittal's product manager for climate.

The Blue e+ cooling units feature inbuilt, innovative, patented hybrid technology. This combines an inverter driven cooling circuit with an independent heat pipe to provide passive cooling. This has a significant role in delivering the unit's exceptionally high efficiency ratings.

The inverter driven cooling circuit of the new Blue e+ range is also rated as highly energy efficient. Frequency converters precisely adjust the speed of the DC motors controlling the fans and compressor via voltage control, which allows the cooling output to be tailored to the current environmental requirements and deliver **demand based cooling**. This results in a significant reduction of energy consumption over conventional solutions.

Precise, demand based cooling ensures minimal thermal stress for components within enclosures, so constant temperature fluctuations (such as in the conventional two-point control systems) can be considered as a thing of the past. This not only increases the service life of the cooling units and enclosure components, it also means higher process reliability.

All the units in the new range can be operated in all standard grids worldwide thanks to the innovative multi-voltage capability. Permissible input voltage ranges from 110 V (single-phase) to 480 V (three-phase) in conjunction with a mains frequency of 50 Hz or 60 Hz.

Blue e+ units also excel in terms of connectivity, safety and handling. The units feature a graphical touchscreen control panel which displays all key information at a glance. System messages appear as plain text and are multi-lingual while standardised communication interfaces ensure easy integration into a production plant's control systems.

Meanwhile, the newly released IoT interface means Blue e+ units can link to customer-owned monitoring, energy management and/or superordinate systems via OPC-UA, Profinet, SNMP, Modbus TCP and CANopen, enabling predictive maintenance, data analytics and more.

In addition to the CULUS listing, Rittal cooling units and fan-and-filter units also now have a UL listing in the new "FTTA" (Environmental-rated Accessories for Enclosures) category. "The FTTA approval, means the type rating/IP protection class of the climate-controlled enclosure is certified by UL. It's a common question on user groups, and I'm delighted we can offer an authoritative response," says Karl.

Further information at www.rittal.co.uk and www.friedhelm-loh-group.com or on twitter @rittal_ltd.

Blue e+ units will be on show along with other solutions from Rittal – The System, at Drives and Controls (the NEC Birmingham, 10-12 April 2018), on Stand D720.

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Image

Picture shows: Rittal Blue e+ new output class

Notes

Rittal, headquartered in Herborn, Hessen, 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 across a variety of industrial and IT applications, including vertical sectors such as the transport industry, power generation, mechanical and plant engineering, IT and telecommunications. Rittal is active worldwide with 10,000 employees and 58 subsidiaries.

Its broad product range includes infrastructure solutions for modular and energy-efficient data centres with innovative concepts for the security of physical data and systems. Leading software providers Eplan and Cideon complement the value chain, providing interdisciplinary engineering solutions, while Rittal Automation Systems offers automation systems for switchgear construction.

Founded in Herborn in 1961 and still run by its owner, Rittal is the largest company in the Friedhelm Loh Group. The Friedhelm Loh Group operates worldwide with 18 production sites and 78 international subsidiaries. The entire group employs more than 11,500 people and generated revenues of around €2.2 billion in 2014. For the seventh time in succession, the family business has won the accolade "Top German Employer" in 2015.

Further information can be found at www.rittal.com and www.friedhelm-loh-group.com.

