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SK 3311.530 Liquid Cooling Package

State: 19/12/2025 (Source: rittal.com/ie-en)

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



SK 3311.530 - Liquid Cooling Package LCP Inline CW, LCP Inline CWG

Bayed climate control designed for siting within a bayed enclosure suite. The hot air is extracted at the rear of the unit, cooled and then expelled forwards to the cold aisle.

Features

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|--------------------|--|
| Model No. | SK 3311.530 |
| Benefits | <p>Maximum energy efficiency due to EC fan technology and IT-based control</p> <p>Minimal pressure loss at the air end, which in turn minimises the power consumption of the fans</p> <p>Optimum adaptability due to dynamic, continuous control of the cold water volume flow</p> <p>By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs</p> <p>Targeted cooling output due to modular fan units</p> <p>Fan modules configurable as n+1 redundancy</p> <p>Standard 3-phase connection for electrical redundancy</p> <p>With redundant temperature sensor integrated at the air end as standard</p> <p>The separation of cooling and enclosure prevents the ingress of water into the server enclosure</p> <p>A footprint of max. 0.36 m² for all cooling services</p> <p>Improved heat recovery, thanks to high water return temperatures when using LCP CW glycol variants, for example in combination with a heat pump</p> <p>Optimum access for maintenance and servicing from the front and rear</p> <p>Tool-free replacement of the fan modules</p> |
| Function principle | <p>The hot air is drawn in from the room or hot aisle at the rear of the device and expelled at the front into the cold aisle after cooling.</p> <p>With this product, a raised floor is not necessary.</p> |
| Material | Sheet steel, spray-finished |
| Colour | RAL 7035 |

Features

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|---|---|
| Options | Direct connection of additional CMC III sensors is supported Racks 2200 mm high |
| Design | Suite cooling |
| Monitoring | Monitoring of all system-relevant parameters such as server air intake temperature, server waste air temperature, water inlet/return temperature, water flow, cooling output, fan speed, leakage Direct connection of the unit via SNMP over Ethernet Integration into RiZone |
| Total cooling output/Number of fan modules | 10 kW/1 20 kW/2 30 kW/3 |
| Air throughput (unimpeded air flow) | At 50 Hz: 4,800 m ³ /h At 60 Hz: 4,800 m ³ /h |
| Number of fan modules in supplied state | 1 |
| Dimensions | Width: 300 mm Height: 2,000 mm Depth: 1,200 mm |
| To fit enclosure type | TS IT |
| Installation in bayed enclosure suite | Set forward |
| Rated operating voltage | 230 V, 1~, 50 Hz/60 Hz 400 V, 3~, 50 Hz/60 Hz |
| Max. cooling output | 30 kW |
| Type of electrical connection | Connector |
| Duty cycle | 100 % |
| Cooling medium | Water |
| EC fan | Yes |
| Fans may be exchanged with the system operational | Yes |
| Temperature control | Linear fan control Two-way control valve |

Features

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|-----------------------------------|--|
| Water connections | DN 40 (G 1½" external thread) |
| Water inlet temperature | 15 °C |
| Protection category to IEC 60 529 | IP 20 |
| Options | Direct connection of additional CMC III sensors is supported Racks 2200 mm high |
| Packs of | 1 pc(s). |
| ETIM 9 | EC002515 |
| ETIM 8 | EC002515 |
| ECLASS 8.0 | 27180712 |

Approvals

| | |
|--------------|---------------------------|
| Explanations | Declaration of conformity |
|--------------|---------------------------|