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## SK 3313.560 Liquid Cooling Package

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IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3313.560 - 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

|                    |  |
|--------------------|--|
| Model No.          | SK 3313.560  |
| Design             | CW   |
| 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 m<sup>2</sup> 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

|   |   |
|---|---|
| Options   | Direct connection of additional CMC III sensors is supported<br>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<br>Direct connection of the unit via SNMP over Ethernet<br>Integration into RiZone |
| Total cooling output/Number of fan modules        | 48 kW/4<br>51 kW/5<br>53 kW/6   |
| Air throughput (unimpeded air flow)               | At 50 Hz: 8,000 m³/h  |
| Number of fan modules in supplied state           | 4   |
| Dimensions  | Width: 300 mm<br>Height: 2,000 mm<br>Depth: 1,200 mm  |
| To fit enclosure type                             | VX IT   |
| Installation in bayed enclosure suite             | Set forward   |
| Rated operating voltage                           | 230 V, 1~, 50 Hz/60 Hz<br>400 V, 3~, 50 Hz/60 Hz  |
| Max. cooling output                               | 53 kW   |
| Type of electrical connection                     | Connector   |
| Duty cycle  | 100 %   |
| Cooling medium                                    | Water   |
| Cooling medium note                               | Water quality according to unit specifications.   |
| EC fan  | Yes   |
| Fans may be exchanged with the system operational | Yes   |

## Features

|  |  |
|--|--|
| Temperature control                      | Linear fan control<br>Two-way control valve  |
| Water connections                        | DN 40 (G 1½" external thread)  |
| Permissible operating pressure (p. max.) | 10 bar   |
| Water inlet temperature                  | 15 °C  |
| Protection category to IEC 60 529        | IP 20  |
| Options                                  | Direct connection of additional CMC III sensors is supported<br>Racks 2200 mm high |
| Packs of                                 | 1 pc(s).   |
| Net weight                               | 217.5  |
| Gross weight                             | 227.5  |
| Customs tariff number                    | 84186900   |
| EAN                                      | 4028177953949  |
| ETIM 9                                   | EC002515   |
| ETIM 8                                   | EC002515   |
| ECLASS 8.0                               | 27180712   |

## Approvals

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