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## SK 3313.550 Liquid Cooling Package

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3313.550 - 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 3313.550  |
| Design             | CWG  |
| 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        | 20 kW/2<br>31 kW/3<br>35 kW/4   |
| Air throughput (unimpeded air flow)               | At 50 Hz: 5,000 m <sup>3</sup> /h   |
| Number of fan modules in supplied state           | 2   |
| 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             | Flush   |
| Rated operating voltage                           | 230 V, 1~, 50 Hz/60 Hz<br>400 V, 3~, 50 Hz/60 Hz  |
| Max. cooling output                               | 28 kW   |
| Type of electrical connection                     | Connector   |
| Duty cycle  | 100 %   |
| Cooling medium                                    | Water/glycol  |
| EC fan  | Yes   |
| Fans may be exchanged with the system operational | Yes   |
| Temperature control                               | Linear fan control<br>Two-way control valve   |

# Features

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|---|--|
| 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  |
| Optimized condensate management even at low water flow temperatures | Yes  |
| Options   | Direct connection of additional CMC III sensors is supported<br>Racks 2200 mm high |
| Packs of  | 1 pc(s).   |
| Net weight  | 235 kg   |
| Gross weight  | 245 kg   |
| Customs tariff number   | 84158200   |
| ETIM 9  | EC002515   |
| ETIM 8  | EC002515   |
| ECLASS 8.0  | 27180712   |
| Product description   | SK LCP Inline CW/glycol, 28 kW, RAL 7035, WHD: 300 x 2000 x 1200 mm                |

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# Approvals

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