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## SK 3313.230 Liquid Cooling Package

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3313.230 - Liquid Cooling Package LCP Rack CW, LCP Rack CWG

Cooling via high-performance compact impellers. The LCP draws in the air at the sides at the rear of the server enclosures and blows the cooled air back into the front part of the server enclosure at the sides.

## Features

|                    |   |
|--------------------|---|
| Model No.          | SK 3313.230   |
| 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>Control of the server inlet temperature</p> <p>With redundant temperature sensor integrated at the air end as standard</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>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 LCP draws in the air at the sides at the rear of the server enclosures, cools it using high-performance compact impellers, and blows the cooled air back into the front part of the server enclosure at the sides</p>  |

# Features

|  |   |
|--|---|
| Material                                   | Sheet steel, spray-finished   |
| Colour                                     | RAL 7035  |
| Options                                    | Fully integrated fire detection and extinguisher system<br>Automatic server enclosure door opening<br>Direct connection of additional CMC III sensors is supported<br>Racks 2200 mm high  |
| Design                                     | Rack 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 | 10 kW/1<br>20 kW/2<br>30 kW/3   |
| Air throughput (unimpeded air flow)        | At 50 Hz: 4,800 m³/h  |
| Number of fan modules in supplied state    | 1   |
| 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                    | 200 V - 240 V, 1~, 50 Hz/60 Hz<br>346 V - 415 V, 3~, 50 Hz<br>346 V - 415 V, 3~, 60 Hz  |
| Max. cooling output                        | 30 kW   |
| Type of electrical connection              | Connector   |
| Duty cycle                                 | 100 %   |
| Cooling medium                             | Water   |

# Features

|   |  |
|---|--|
| Cooling medium note                               | Water quality according to unit specifications.  |
| EC fan  | Yes  |
| Fans may be exchanged with the system operational | Yes  |
| 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   | Fully integrated fire detection and extinguisher system<br>Automatic server enclosure door opening<br>Direct connection of additional CMC III sensors is supported<br>Racks 2200 mm high |
| Packs of  | 1 pc(s).   |
| Net weight  | 186  |
| Gross weight                                      | 206.5  |
| Customs tariff number                             | 84186900   |
| EAN   | 4028177953888  |
| ETIM 9  | EC002515   |
| ETIM 8  | EC002515   |
| ECLASS 8.0  | 27180712   |

# Approvals

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