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## SK 3313.570 Liquid Cooling Package

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FRIEDHELM LOH GROUP



# SK 3313.570 - 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 3313.570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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

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|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | 38 kW/4<br>40 kW/5<br>44 kW/6                                                                                                                                                                                                                                                       |
| Total cooling output                       | 38 kW<br>40 kW<br>44 kW                                                                                                                                                                                                                                                             |
| Air throughput (unimpeded air flow)        | At 50 Hz: 4,800 m <sup>3</sup> /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                        | 35 kW                                                                                                                                                                                                                                                                               |
| Type of electrical connection              | Connector                                                                                                                                                                                                                                                                           |
| Duty cycle                                 | 100 %                                                                                                                                                                                                                                                                               |
| Cooling medium                             | Water/glycol                                                                                                                                                                                                                                                                        |
| EC fan                                     | Yes                                                                                                                                                                                                                                                                                 |

# Features

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|---------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 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                                                                              |
| 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                                                          | 235.5 kg                                                                           |
| Gross weight                                                        | 245.5 kg                                                                           |
| Customs tariff number                                               | 84158200                                                                           |
| ETIM 9                                                              | EC002515                                                                           |
| ETIM 8                                                              | EC002515                                                                           |
| ECLASS 8.0                                                          | 27180712                                                                           |
| Product description                                                 | SK LCP Inline CW/glycol, 35 kW, RAL 7035, WHD: 300 x 2000 x 1200 mm                |

# Approvals

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