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# SK 3314.538

## Liquid Cooling Package

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IT INFRASTRUCTURE

SOFTWARE & SERVICES



FRIEDHELM LOH GROUP

# SK 3314.538 - Liquid Cooling Package LCP Inline CW/ 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 3314.538  |
| Version   | Row Cooling<br>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 minimizes the power consumption of the fans</p> <p>Control of the server supply air temperature or optionally according to differential pressure</p> <p>Redundant temperature sensor integrated at the air end</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>Cooling capacity tailored to requirements thanks to modular fan units (fans can be replaced without tools and during operation)</p> <p>Fan modules configurable as n+1 redundancy.</p> <p>Standard 3-phase connection for electrical redundancy</p> <p>The UL version has a 1- or 2-phase fixed connection with additional cover as standard.</p> <p>The separation of cooling and enclosure prevents water from entering the server enclosure</p> <p>A maximum floor area of 0.36 m<sup>2</sup> for all cooling services</p> <p>Improved heat recovery due to high water return temperatures when using the LCP CW glycol variants, for example in conjunction with a heat pump</p> <p>Optimum access for maintenance and service from the front and the rear</p> |

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# Features

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| Function principle                         | 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.<br>With this product, a raised floor is not necessary  |
| Material                                   | Housing: Carbon steel<br>Front door: Aluminum, anodized/spray-finished<br>Carbon steel, spray finished   |
| Surface finish                             | RAL 9005, fine structure matt  |
| Color                                      | Housing: RAL 7035<br>Front door: Vertical sections, silver colored and horizontal sections, RAL 9005<br>RAL 9005   |
| Options                                    | Automatic server enclosure door opening<br>Direct connection of an additional 16 CMC III sensors is possible<br>Racks in height 2200 mm, special color<br>Condensate management kit including baffle plate separator and temperature and humidity sensor<br>Display  |
| 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 device via SNMP and via Ethernet (2 Ethernet interfaces, thus simplified cascading of up to 16 LCPs)<br>Integration in RiZone OT Suite (Extended measurement and management functions, values can be transferred and visualized) |
| Total cooling output/number of fan modules | 30 kW/4<br>102,364 BTU/h   |
| Total cooling output                       | 30 kW<br>102,364 BTU/h   |
| Air throughput (unimpeded air flow)        | At 60 Hz: 6,500 m <sup>3</sup> /h<br>At 60 Hz: 3,825.8 cfm   |
| Number of fan modules in supplied state    | 4  |

# Features

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| Dimensions  | Width: 300 mm<br>Height: 2,000 mm<br>Depth: 1,200 mm<br>Width: 11.8 "<br>Height: 78.7 "<br>Depth: 47.2 " |
| Suitable for enclosure type                       | VX IT<br>TS IT   |
| Installation in bayed enclosure suite             | Protruded  |
| Rated operating voltage                           | 200 V - 240 V, 1~, 50 Hz/60 Hz   |
| Max. cooling output                               | 30 kW<br>102,364 BTU/h   |
| Type of connection (electrical)                   | Fixed connection with cover  |
| 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  |
| Temperature control                               | Infinitely variable fan control<br>2-way control ball valve  |
| Water connections                                 | DN 40 (G 1½" external thread)  |
| Permissible operating pressure (p. max.)          | 10 bar<br>145 PSI  |
| Water inlet temperature                           | 15 °C<br>59 °F   |
| Protection category IP to EN 60529                | IP 20  |

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# Features

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|-----------------------|---|
| Options               | Automatic server enclosure door opening<br>Direct connection of an additional 16 CMC III sensors is possible<br>Racks in height 2200 mm, special color<br>Condensate management kit including baffle plate separator and temperature and humidity sensor<br>Display |
| Packaging unit        | 1 pc(s).  |
| Net weight            | 203 kg  |
| Gross weight          | 213 kg  |
| Customs tariff number | 84186900  |
| Product description   | SK LCP Inline CW advanced, 30 kW, UL, W x H x D: 300 x 2000 x 1200 mm, RAL 9005, fine structure matt  |

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# Approvals

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| Approvals | UL + C-UL (listed) |
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