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## SK 3314.568 Liquid Cooling Package

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3314.568 - 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 3314.568
Version	Row Cooling 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

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. With this product, a raised floor is not necessary
Material	Housing: Carbon steel Front door: Aluminum, anodized/spray-finished Carbon steel, spray finished
Surface finish	RAL 9005, fine structure matt
Color	Housing: RAL 7035 Front door: Vertical sections, silver colored and horizontal sections, RAL 9005 RAL 9005
Options	Automatic server enclosure door opening Direct connection of an additional 16 CMC III sensors is possible Racks in height 2200 mm, special color Condensate management kit including baffle plate separator and temperature and humidity sensor 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. Direct connection of the device via SNMP and via Ethernet (2 Ethernet interfaces, thus simplified cascading of up to 16 LCPs) Integration in RiZone OT Suite (Extended measurement and management functions, values can be transferred and visualized)
Total cooling output/number of fan modules	53 kW/6 180,844 BTU/h
Total cooling output	53 kW 180,844 BTU/h
Air throughput (unimpeded air flow)	At 60 Hz: 8,000 m <sup>3</sup> /h At 60 Hz: 4,708.6 cfm
Number of fan modules in supplied state	6

# Features

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Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,200 mm Width: 11.8 " Height: 78.7 " Depth: 47.2 "
Suitable for enclosure type	VX IT TS IT
Installation in bayed enclosure suite	Protruded
Rated operating voltage	200 V - 240 V, 1~, 50 Hz/60 Hz
Max. cooling output	53 kW 180,844 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 2-way control ball valve
Water connections	DN 40 (G 1½" external thread)
Permissible operating pressure (p. max.)	10 bar 145 PSI
Water inlet temperature	15 °C 59 °F
Protection category IP to EN 60529	IP 20

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Options	Automatic server enclosure door opening Direct connection of an additional 16 CMC III sensors is possible Racks in height 2200 mm, special color Condensate management kit including baffle plate separator and temperature and humidity sensor Display
Packaging unit	1 pc(s).
Net weight	228 kg
Gross weight	240 kg
Customs tariff number	84186900
Product description	SK LCP Inline CW advanced, 53 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)
Explanations	Declaration of conformity

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