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## SK 3313.560 Liquid Cooling Package

State: 27.9.2024 (Source: [rittal.com/si-sl](https://www.rittal.com/si-sl))

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3313.560 - 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 3313.560
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>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 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 Direct connection of the unit via SNMP over Ethernet Integration into RiZone
Total cooling output/Number of fan modules	48 kW/4 51 kW/5 53 kW/6
Air throughput (unimpeded air flow)	At 50 Hz: 8,000 m <sup>3</sup> /h
Number of fans	4
Dimensions	Width: 300 mm Height: 2,000 mm 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 400 V, 3~, 50 Hz/60 Hz
Max. cooling output	53 kW
Type of electrical connection	Connector
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	Linear fan control 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
Packs of	1 pc(s).
Weight/pack	260 kg
Net weight	217.5
Gross weight	227.5
Customs tariff number	84186900
EAN	4028177953949
ETIM 8	EC002515
ETIM 7.0	EC002515
ECLASS 8.0	27180712

# Approvals

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Explanations	Declaration of conformity
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