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## SK 3311.560 Liquid Cooling Package

State: 12/15/2025 (Source: [rittal.com/us-en](http://rittal.com/us-en))

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FRIEDHELM LOH GROUP



# SK 3311.560 - 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 3311.560
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>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 thanks to modular fan units</p> <p>Fan modules configurable as n+1 redundancy.</p> <p>Standard 3-phase connection for electrical redundancy</p> <p>Redundant temperature sensor integrated at the air end</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> <p>Tool-free fan module replacement</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	Carbon steel, spray finished
Color	RAL 7035
Options	<p>Direct connection of additional CMC III sensors is also possible</p> <p>Racks 2200 mm high</p>

# Features

Version	Row 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	40 kW/4 45 kW/5 55 kW/6 136,486 BTU/h 153,546 BTU/h 187,668 BTU/h
Air throughput (unimpeded air flow)	At 50 Hz: 8,000 m³/h At 60 Hz: 8,000 m³/h At 50 Hz: 4,708.6 cfm At 60 Hz: 4,708.6 cfm
Number of fan modules in supplied state	4
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	TS IT
Installation in bayed enclosure suite	Protruded
Rated operating voltage	230 V, 1~, 50 Hz/60 Hz 400 V, 3~, 50 Hz/60 Hz
Max. cooling output	55 kW 187,668 BTU/h
Type of connection (electrical)	Connector
Duty cycle	100 %
Cooling medium	Water

# Features

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)
Water inlet temperature	15 °C 59 °F
Protection category IP to EN 60 529	IP 20
Options	Direct connection of additional CMC III sensors is also possible Racks 2200 mm high
Packaging unit	1 pc(s).
Net weight	220
Gross weight	236
EAN	4028177661912
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712

# Approvals

Explanations	Declaration of conformity
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