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## SK 3311.148 Liquid Cooling Package

State: 6/4/2026 (Source: [rittal.com/us-en](http://rittal.com/us-en))

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3311.148 - Liquid Cooling Package LCP Inline CW

These highly efficient Inline units can create a cold curtain down a row rather than simply moving air into an aisle. Available in two versions: Flush, a configuration where the unit's face matches that of the adjacent enclosures and air flows into the racks, and Protruding where the unit is bumped out 8 inches into the aisle and cool air flows from both sides across the face of nearby enclosures. The unit's high-efficiency fans have been moved to the front of the LCP – on the cool side away from maximum heat – which will extend the life of the fans. Water connections are available at either the top or bottom of the unit.



## Features

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Model No.	SK 3311.148
Benefits	<ul style="list-style-type: none"><li>Maximum energy efficiency due to EC fan technology and IT-based control</li><li>Minimal area load due to low weight</li><li>The separation of cooling and enclosure prevents water from entering the server enclosure</li><li>Redundant temperature sensor integrated at the air end</li><li>Fan modules configurable as n+1 redundancy.</li><li>Targeted cooling output thanks to modular box-type plug-in fan units</li><li>By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs</li><li>Optimum adaptability due to dynamic, continuous control of the cold water volume flow</li><li>Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans</li><li>Up to 102364.26 BTU/h cooling output on a small footprint</li><li>Top or bottom feed water connection</li></ul>

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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
Color	Exterior: RAL 9005 Enclosure frame and interior: RAL 7035
Supply includes	Incl. 2 fan modules.
Options	Various sensors Racks
Max. cooling output	30 kW 102,364 BTU/h
Type of connection (electrical)	Connector
Air throughput per fan	4800
Cooling medium	Water
EC fan	Yes
Fans may be exchanged with the system operational	Yes
Cooling medium note	18/27/30 kW
Temperature control	Infinitely variable fan control 2-way control ball valve
Water connections	DN 40 (G 1½" external thread)
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
Installation in bayed enclosure suite	Flush
Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,050 mm Width: 11.8 " Height: 78.7 " Depth: 41.3 "

# Features

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Total cooling output/number of fan modules	18 kW/2
	27 kW/3
	30 kW/4
	61,419 BTU/h
	92,128 BTU/h
	102,364 BTU/h

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Water inlet temperature	15 °C
	59 °F

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Packaging unit	1 pc(s).
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# Approvals

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Approvals	UL
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