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## SK 3314.238 Liquid Cooling Package

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IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3314.238 - Liquid Cooling Package LCP Rack CW/ CWG

Cooling via high-performance compact impellers. The LCP draws in air from the side at the rear of the server enclosure and blows the cooled air back into the front part of the server enclosure from the side.



## Features

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Model No.	SK 3314.238
Version	Rack cooling CW

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# Features

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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>
Function principle	<p>The LCP draws in the air at the sides at the rear of the server enclosures, cools it using high-performance compact impellers, and blows the cooled air back into the front part of the server enclosure at the sides</p>
Material	<p>Housing: Carbon steel</p> <p>Front door: Aluminum, anodized/spray-finished</p> <p>Carbon steel, spray finished</p>
Surface finish	<p>RAL 9005, fine structure matt</p>
Color	<p>Housing: RAL 7035</p> <p>Front door: Vertical sections, silver colored and horizontal sections, RAL 9005</p> <p>RAL 9005</p>

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# Features

Options	<p>Fully integrated fire detection and extinguisher system</p> <p>Automatic server enclosure door opening</p> <p>Direct connection of an additional 16 CMC III sensors is possible</p> <p>Racks in height 2200 mm, special color</p> <p>Condensate management kit including baffle plate separator and temperature and humidity sensor</p> <p>Display</p>
Monitoring	<p>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.</p> <p>Direct connection of the device via SNMP and via Ethernet (2 Ethernet interfaces, thus simplified cascading of up to 16 LCPs)</p> <p>Integration in RiZone OT Suite (Extended measurement and management functions, values can be transferred and visualized)</p>
Total cooling output/number of fan modules	<p>30 kW/4</p> <p>102,364 BTU/h</p>
Total cooling output	<p>30 kW</p> <p>102,364 BTU/h</p>
Air throughput (unimpeded air flow)	<p>At 60 Hz: 6,500 m<sup>3</sup>/h</p> <p>At 60 Hz: 3,825.8 cfm</p>
Number of fan modules in supplied state	4
Dimensions	<p>Width: 300 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,200 mm</p> <p>Width: 11.8 "</p> <p>Height: 78.7 "</p> <p>Depth: 47.2 "</p>
Suitable for enclosure type	<p>VX IT</p> <p>TS IT</p>
Installation in bayed enclosure suite	Flush
Rated operating voltage	200 V - 240 V, 1~, 50 Hz/60 Hz
Max. cooling output	<p>30 kW</p> <p>102,364 BTU/h</p>

# Features

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
Optimized condensate management even at low water flow temperatures	Yes
Options	Fully integrated fire detection and extinguisher system 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	197 kg
Gross weight	199 kg
Customs tariff number	84186900
Product description	SK LCP rack CW, 30 kW, UL, W x H x D: 300 x 2000 x 1200 mm, RAL 9005, fine structure matt

# Approvals

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Approvals	UL + C-UL (listed)
Explanations	Declaration of conformity

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