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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 the air at the sides at the rear of the server enclosures and blows the cooled air back into the front part of the server enclosure at the sides.



Features

Model No.	SK 3314.238
Design	Rack cooling CW

Features

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>Control of the server air inlet temperature or (optionally) according to differential pressure</p> <p>With redundant temperature sensor integrated at the air end as standard</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>Modular fan units for a demand-based cooling output (fan replacement without tools, also possible during operation)</p> <p>Fan modules configurable as n+1 redundancy</p> <p>Standard 3-phase connection for electrical redundancy</p> <p>The UL variant includes a 1- or 2-phase fixed connection with additional cover 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 m² 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>
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>Enclosure: Sheet steel</p> <p>Front door: Aluminium, anodised/spray-finished</p> <p>Sheet steel, spray-finished</p>
Surface finish	<p>RAL 9005, finely textured matt</p>
Colour	<p>Enclosure: RAL 7035</p> <p>Front door: Vertical sections, silver coloured and horizontal sections, RAL 9005</p> <p>RAL 9005</p>

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 possible</p> <p>Racks in height 2200 mm, special colour</p> <p>Condensate management kit including baffle separator plus 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 unit via SNMP over Ethernet (2 Ethernet ports for simpler cascading of up to 16 LCPs)</p> <p>Integration into RiZone OTM Suite (extended measuring and management functions, values can be transferred and visualised)</p>
Total cooling output/Number of fan modules	30 kW/4
Air throughput (unimpeded air flow)	At 60 Hz: 6,500 m³/h
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>
To fit 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	30 kW
Type of electrical connection	Fixed connection with cover
Duty cycle	100 %
Cooling medium	Water
Cooling medium note	Water quality according to unit specifications.
EC fan	Yes

Features

Fans may be exchanged with the system operational	Yes
Temperature control	Linear fan control Two-way control valve
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
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 possible Racks in height 2200 mm, special colour Condensate management kit including baffle separator plus temperature and humidity sensor Display
Packs of	1 pc(s).
Net weight	200
Gross weight	211.5
Customs tariff number	84186900
EAN	4028177977655

Approvals

Approvals	UL + C-UL (listed)
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