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SK 3313.260
Liquid Cooling Package

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FRIEDHELM LOH GROUP

SK 3313.260 - Liquid Cooling Package LCP Rack CW, LCP Rack 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 3313.260
Design	CW
Benefits	Maximum energy efficiency due to EC fan technology and IT-based control Minimal pressure loss at the air end, which in turn minimises the power consumption of the fans Control of the server inlet temperature With redundant temperature sensor integrated at the air end as standard Optimum adaptability due to dynamic, continuous control of the cold water volume flow By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs Targeted cooling output due to modular fan units Fan modules configurable as n+1 redundancy Standard 3-phase connection for electrical redundancy The separation of cooling and enclosure prevents the ingress of water into the server enclosure A footprint of max. 0.36 m² for all cooling services Improved heat recovery, thanks to high water return temperatures when using LCP CW glycol variants, for example in combination with a heat pump Optimum access for maintenance and servicing from the front and rear Tool-free replacement of the fan modules
Function principle	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

Features

Material	Sheet steel, spray-finished
Colour	RAL 7035
Options	Fully integrated fire detection and extinguisher system Automatic server enclosure door opening Direct connection of additional CMC III sensors is supported Racks 2200 mm high
Design	Rack 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 m³/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	Flush
Rated operating voltage	200 V - 240 V, 1~, 60 Hz 346 V - 415 V, 3~, 50 Hz 346 V - 415 V, 3~, 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.

Features

EC fan	Yes
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
Packs of	1 pc(s).
Weight/pack	260 kg
Customs tariff number	84195080
EAN	4028177953901
ETIM 7.0	EC002515
ECLASS 8.0	27180712

Approvals

Explanations	Declaration of conformity