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SK 3311.260

Liquid Cooling Package

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SK 3311.260 - 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 3311.260
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
Material	Sheet steel, spray-finished

Features

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	40 kW/4 45 kW/5 55 kW/6
Air throughput (unimpeded air flow)	At 50 Hz: 8,000 m³/h At 60 Hz: 8,000 m³/h
Number of fan modules in supplied state	4
Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,200 mm
To fit enclosure type	TS IT
Installation in bayed enclosure suite	Flush
Rated operating voltage	230 V, 1~, 50 Hz/60 Hz 400 V, 3~, 50 Hz/60 Hz
Max. cooling output	55 kW
Type of electrical connection	Connector
Duty cycle	100 %
EC fan	Yes
Fans may be exchanged with the system operational	Yes

Features

Temperature control	Linear fan control Two-way control valve
Water connections	DN 40 (G 1½" external thread)
Water inlet temperature	15 °C
Protection category to IEC 60 529	IP 20
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
Packs of	1 pc(s).
Net weight	210
Gross weight	235
EAN	4028177661837
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712

Approvals

Explanations	Declaration of conformity

Tender text

TopTherm LCP Rack CW, 3311.260 WHD(mm) 300x2000x1200
TopTherm LCP RACK CW:

The design of the unit is optimised for use in data centres. The integrated air/water heat exchanger guarantees a cooling output of up to 60 kW, combined with standard server enclosure dimensions, the lowest possible weight and comprehensive possibilities for monitoring.
The air/water heat exchanger is mounted on the side of the rack.
LCP Rack CW offers enclosure-based cooling separate from the room air and is thus also able to reduce the noise level.
The unit is capable of providing cooling for either one or two server racks.
The hot server air is drawn off to the rear of the server rack. After cooling, it is expelled left and right in front of the 482.6 mm (19") level over the whole enclosure height and is thus made available to the IT equipment once more.

The use of four integrated EC fan modules (cooling output up to 40 kW) achieves maximum efficiency and minimises the electrical energy consumption.
The unit is prepared for the incorporation of a maximum of six EC fan modules (cooling output up to 60 kW). For this reason it is possible to retrofit two additional fan modules up to full configuration and achieving the optimum cooling output.
This safeguards the value of an investment where the full cooling output is not yet required at the time of initial operation.

The flow characteristics of the heat exchanger have been optimised for the minimum possible pressure loss on the air side. This in turn minimises the energy consumption of the fans.
The high-performance heat exchanger guarantees maximum

cooling output even at high water inlet temperatures, enabling the proportion of operation in combination with indirect free cooling to be maximised and operating costs reduced accordingly.

The air/water heat exchanger and server rack remain separate from each other. This eliminates the risk of water penetrating into the server rack and improves the ease of installation and service.
Condensate and leakage management is integrated.
The water connection can be realised optionally to the top or bottom by way of an accessory kit