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SK 3313.238
Liquid Cooling Package

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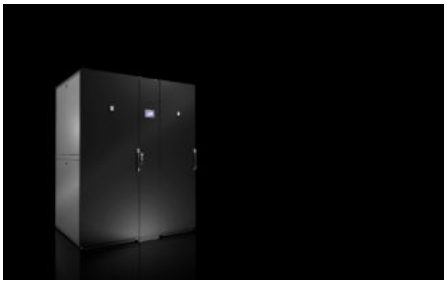
ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL | IT INFRASTRUCTURE | SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

SK 3313.238 - Liquid Cooling Package LCP Rack CW, LCP Rack 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

Model No.	SK 3313.238
Version	CW

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Features

Benefits	Maximum energy efficiency due to EC fan technology and IT-based control Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans Control of the server inlet temperature Redundant temperature sensor integrated at the air end 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 thanks to modular fan units Fan modules configurable as n+1 redundancy. The separation of cooling and enclosure prevents water from entering the server enclosure A maximum floor area of 0.36 m² for all cooling services Improved heat recovery due to high water return temperatures when using the LCP CW glycol variants, for example in conjunction with a heat pump Optimum access for maintenance and service from the front and the rear Tool-free fan module replacement
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	Carbon steel, spray finished
Surface finish	RAL 9005, fine structure matt
Color	RAL 9005
Options	Fully integrated fire detection and extinguisher system Automatic server enclosure door opening Direct connection of additional CMC III sensors is also possible Racks 2200 mm high
Version	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

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Features

Total cooling output/number of fan modules	10 kW/1 20 kW/2 30 kW/3 34,121 BTU/h 68,243 BTU/h 102,364 BTU/h
Total cooling output	10 kW 20 kW 30 kW 34,121 BTU/h 68,243 BTU/h 102,364 BTU/h
Air throughput (unimpeded air flow)	At 60 Hz: 6,500 m³/h At 60 Hz: 3,825.8 cfm
Number of fan modules in supplied state	4
Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,200 mm Width: 11.8 ″ Height: 78.7 ″ Depth: 47.2 ″
Suitable for enclosure type	VX IT TS IT PRO
Installation in bayed enclosure suite	Flush
Rated operating voltage	200 V - 240 V, 1~, 50 Hz/60 Hz 200 - 240 V AC
Max. cooling output	30 kW 102,364 BTU/h
Type of connection (electrical)	Connector
Duty cycle	100 %
Cooling medium	Water
Cooling medium note	Water quality according to unit specifications.

Features

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 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 also possible Racks 2200 mm high
Packaging unit	1 pc(s).
Net weight	200 kg
Gross weight	211.5 kg
CRA risk class	Default (Low Risk)
Customs tariff number	84186900
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712
Product description	SK LCP Rack CW UL, RAL 9005, base VX IT, air/water heat exchanger for rack cooling, side mounting on rack, flush

Approvals

Approvals	UR + C-UR (recognized)
Explanations	Declaration of conformity