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## SK 3312.230 Liquid Cooling Package

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# SK 3312.230 - 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 3312.230		
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.		
	Standard 3-phase connection for electrical redundancy		
	The separation of cooling and enclosure prevents water from		
	entering the server enclosure		
	A maximum floor area of 0.36 m <sup>2</sup> for all cooling services		
	Improved heat recovery due to high water return temperatures wher 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		

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## Features

Color	RAL 7035		
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		
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		
Air throughput (unimpeded air flow)	At 50 Hz: 4,800 m³/h At 50 Hz: 2,825.2 cfm		
Number of fan modules in supplied state	1		
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	TSIT		
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	30 kW 102,364 BTU/h		
Type of connection (electrical)	Connector		

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### Features

Duty cycle	100 %		
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 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	195		
Gross weight	210		
Customs tariff number	84186900		
EAN	4028177811669		
ETIM 9	EC002515		
ETIM 8	EC002515		
ECLASS 8.0	27180712		

## Approvals

Certificates	EAC	

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