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## SK 3313.290 Liquid Cooling Package

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FRIEDHELM LOH GROUP



# SK 3313.290 - Liquid Cooling Package LCP Rack DX

Rack-based cooling of one to two IT racks. Continuous adjustment of the cooling output provided by output-controlled compressors in the Rack DX LCP (evaporator). An external condenser is required to operate the unit.



## Features

Model No.	SK 3313.290
Version	DX
Benefits	<ul style="list-style-type: none"><li>Maximum energy efficiency due to EC fan technology and IT-based control</li><li>Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans</li><li>Control of the server inlet temperature</li><li>Due to the speed-regulated compressor, the cooling output adapts to the actual requirements</li><li>Redundant temperature sensor integrated at the air end</li><li>Special maintenance of the LCP DX due to separation of cooling and server enclosures</li></ul>
Applications	<ul style="list-style-type: none"><li>Ideal for IT cooling of small and medium-sized locations</li><li>One or two racks can be cooled separately</li></ul>

# Features

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> <p>Absorbed thermal energy is emitted to the ambient air at the external condenser location, without heating up the installation room</p>
Material	Carbon steel, spray finished
Options	Humidifier Dehumidification and reheater Condensate lift pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Version	Rack cooling
Monitoring	Direct connection of the unit via SNMP over Ethernet Integration into RiZone
Total cooling output to DIN EN 14511	Useful cooling output L22 L35: 20 kW
Total cooling output/number of fan modules	20 kW/4 68,243 BTU/h
Total cooling output	20 kW 68,243 BTU/h
Modulation range	5 - 20 kW
Air throughput (unimpeded air flow)	At 50 Hz: 4,800 m <sup>3</sup> /h At 50 Hz: 2,825.2 cfm
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
Installation in bayed enclosure suite	Flush
Rated operating voltage	380 V - 480 V, 3~, 50 Hz/60 Hz

# Features

Rated current max.	At 50 Hz: 12.4 A
Max. cooling output	20 kW 68,243 BTU/h
Type of connection (electrical)	Connection clamp
Duty cycle	100 %
EC fan	Yes
SNMP card	Yes
Fans may be exchanged with the system operational	Yes
Temperature control	Infinitely variable fan control Inverter-controlled compressor
Start-up current	32 A
Operating temperature range	5 °C...35 °C 41 °F...95 °F
Noise pressure level	At 50 Hz: 68 dB(A)
Protection category IP to EN 60529	IP 20
Options	Humidifier Dehumidification and reheater Condensate lift pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Packaging unit	1 pc(s).
Net weight	250 kg
Gross weight	261 kg
Customs tariff number	84186900
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712
Product description	LCP Rack DX, 68243 BTU/h, flush, RAL 7035, WHD: 300 x 2000 x 1200 mm, 380 – 480 V/3~/50 – 60 Hz

# Approvals

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Explanations

Declaration of conformity