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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	<p>Maximum energy efficiency due to EC fan technology and IT-based control</p> <p>Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans</p> <p>Control of the server inlet temperature</p> <p>Due to the speed-regulated compressor, the cooling output adapts to the actual requirements</p> <p>Redundant temperature sensor integrated at the air end</p> <p>Special maintenance of the LCP DX due to separation of cooling and server enclosures</p>
Applications	<p>Ideal for IT cooling of small and medium-sized locations</p> <p>One or two racks can be cooled separately</p>

# Features

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  Absorbed thermal energy is emitted to the ambient air at the external condenser location, without heating up the installation room
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
Modulation range	5 - 20 kW
Air throughput (unimpeded air flow)	At 50 Hz: 4,800 m <sup>3</sup> /h
Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,200 mm
Suitable for enclosure type	VX IT
Installation in bayed enclosure suite	Flush
Rated operating voltage	380 V - 480 V, 3~, 50 Hz/60 Hz
Rated current max.	At 50 Hz: 12.4 A
Max. cooling output	20 kW
Type of connection (electrical)	Connection clamp

# Features

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
Noise pressure level	At 50 Hz: 68 dB(A)
Protection category IP to EN 60 529	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
Gross weight	261
Customs tariff number	84186900
EAN	4028177953819
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712

# Approvals

Explanations	Declaration of conformity
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