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

# 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	<p>Humidifier</p> <p>Dehumidification and reheater</p> <p>Condensate lift pump</p> <p>Low-temperature/high-temperature condenser (-40 °C/+53 °C)</p>
Version	Rack cooling
Monitoring	<p>Direct connection of the unit via SNMP over Ethernet</p> <p>Integration into RiZone</p>
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 m³/h
Dimensions	<p>Width: 300 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,200 mm</p>
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 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
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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