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## SK 3311.420 Liquid Cooling Package

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FRIEDHELM LOH GROUP



# SK 3311.420 - 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 3311.420
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>
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>

# Features

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 L30: 12 kW Useful cooling output L22 L45: 10 kW Useful cooling output L22 L45: 34,121 BTU/h
Total cooling output/number of fan modules	12 kW/4 40,946 BTU/h
Modulation range	3 - 12 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	TS IT
Installation in bayed enclosure suite	Flush
Rated operating voltage	380 V - 480 V, 3~, 60 Hz 400 V, 3~, 50 Hz
Rated current max.	At 50 Hz: 7.5 A
Max. cooling output	12 kW 40,946 BTU/h
Type of connection (electrical)	Connection clamp
Duty cycle	100 %

# Features

Cooling medium	Refrigerant
EC fan	Yes
Fans may be exchanged with the system operational	Yes
Temperature control	Infinitely variable fan control Inverter-controlled compressor
Start-up current	11 A
Pre-fuse	Miniature circuit-breaker/fuse: 20 A
Storage temperature range	-20 °C...50 °C -4 °F...122 °F
Operating temperature range	15 °C...35 °C 59 °F...95 °F
Noise pressure level	At 50 Hz: 69 dB(A)
Refrigerant/cooling medium	Refrigerant: R410A Cooling medium: Refrigerant
Protection category IP to EN 60529	IP 40
Options	Humidifier Dehumidification and reheater Condensate lift pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Packaging unit	1 pc(s).
Net weight	202 kg
Gross weight	227 kg
Customs tariff number	84186900
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712

# Features

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Product description	SK LCP Rack DX, Refrigerant-based split cooling unit for rack cooling, Mounted on the side of the rack, flush, Cooling of one up to maximum two racks, Support of IT-compatible, #front-to-back# air routing,
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# Approvals

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Certificates	EAC
Explanations	Declaration of conformity