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## SK 3311.470 Liquid Cooling Package

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FRIEDHELM LOH GROUP



# SK 3311.470 - Liquid Cooling Package LCP Inline DX, LCP Inline DX/FC

Ideal for cooling of small and medium-sized IT applications.



## Features

Model No.	SK 3311.470
Design	LCP Inline 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 minimises the power consumption of the fans</p> <p>Temperature monitoring and control</p> <p>With redundant temperature sensor integrated at the air end as standard</p> <p>Thanks to the speed-regulated compressor, the cooling output is ideally adapted to actual requirements</p> <p>Specific maintenance of the LCP DX due to separation of cooling and server racks</p> <p>Using LCP DX/FC variants in combination with indirect free cooling helps to save operating costs</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	<p>The LCP is designed for siting within a bayed enclosure suite. Hot air is drawn in from the aisle at the rear of the device, cooled by the high-capacity compact impellers, and blown back into the room or cold aisle after cooling.</p> <p>The LCP DX/FC variants include both a refrigerant and a water/glycol heat exchanger. There is an additional free cooler integrated into the external condenser.</p> <p>Absorbed thermal energy is emitted to the ambient air at the external condenser location, without heating up the installation room</p>
Material	Sheet steel, spray-finished
Options	<p>Humidifier</p> <p>Dehumidification and reheater</p> <p>Condensate drain pump</p> <p>Low-temperature/high-temperature condenser (-40 °C/+53 °C)</p>
Design	Suite cooling
Monitoring	<p>Direct connection of the unit via SNMP over Ethernet</p> <p>Integration into RiZone</p>
Note	Variant with UL approval available on request
Total cooling output to DIN EN 14511	Useful cooling output L22 L30: 35 kW
Total cooling output/Number of fan modules	35 kW/3
Modulation range	8 - 35 kW
Air throughput (unimpeded air flow)	At 50 Hz: 9,900 m³/h
Dimensions	<p>Width: 600 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,200 mm</p>
To fit enclosure type	TS IT
Installation in bayed enclosure suite	Flush
Rated operating voltage	<p>380 V - 480 V, 3~, 60 Hz</p> <p>400 V, 3~, 50 Hz</p>

# Features

Rated current max.	At 50 Hz: 22.4 A
Max. cooling output	35 kW
Type of electrical connection	Connection clamp
Duty cycle	100 %
Cooling medium	Refrigerant
EC fan	Yes
SNMP card	Yes
Fans may be exchanged with the system operational	Yes
Temperature control	Linear fan control Two-way control valve
Pre-fuse	Miniature circuit-breaker/fuse: 40 A
Operating temperature range	15 °C...35 °C
Noise level	At 50 Hz: 69 dB(A)
Protection category to IEC 60 529	IP 40
Options	Humidifier Dehumidification and reheater Condensate drain pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Packs of	1 pc(s).
Net weight	315
Gross weight	325
Customs tariff number	84158200
EAN	4028177691377
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712

# Approvals

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Certificates

EAC

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Explanations

Declaration of conformity