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## SK 3311.450 Liquid Cooling Package

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FRIEDHELM LOH GROUP

# SK 3311.450 - Liquid Cooling Package LCP Inline DX, LCP Inline DX/FC

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



## Features

Model No.	SK 3311.450
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	Humidifier Dehumidification and reheater Condensate drain pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Design	Suite cooling
Monitoring	Direct connection of the unit via SNMP over Ethernet Integration into RiZone
Note	Variant with UL approval available on request
Total cooling output to DIN EN 14511	Useful cooling output L30 L22: 30 kW
Total cooling output/Number of fan modules	35 kW/3
Total cooling output	35 kW
Modulation range	8 - 35 kW
Air throughput (unimpeded air flow)	At 50 Hz: 9,900 m <sup>3</sup> /h
Dimensions	Width: 600 mm Height: 2,000 mm Depth: 1,000 mm
To fit enclosure type	TS IT
Installation in bayed enclosure suite	Flush

# Features

Rated operating voltage	360 V, 3~, 50 Hz 480 V, 3~, 60 Hz
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 Inverter-controlled compressor
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 20
Options	Humidifier Dehumidification and reheater Condensate drain pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Packs of	1 pc(s).
Customs tariff number	84158200
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712
Product description	Evaporator unit for room cooling in conjunction with condenser 3311.360, width: 300 mm

# Approvals

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Explanations

Declaration of conformity