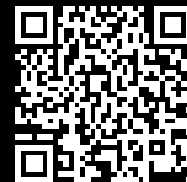


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# SK 3311.450

## Liquid Cooling Package

State: 2024-05-21 (Source: [rittal.com/ca-en](https://www.rittal.com/ca-en))

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FRIEDHELM LOH GROUP



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

Ideal for cooling small and medium-sized IT applications.

## Features

Model No.	SK 3311.450
Version	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 minimizes the power consumption of the fans</p> <p>Temperature monitoring and control.</p> <p>Redundant temperature sensor integrated at the air end</p> <p>Due to the speed-regulated compressor, the cooling output adapts to the actual requirements</p> <p>Special maintenance of the LCP DX due to separation of cooling and server enclosures</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>
Function principle	<p>LCP for use 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 versions contain both refrigerant as well as a water/glycol heat exchanger. A free cooler is also integrated in 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	Carbon steel, spray finished

# Features

Options	Humidifier Dehumidification and reheater Condensate lift pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Version	Row 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 L22 L30: 30 kW
Modulation range	8 - 35 kW
Total cooling output/number of fan modules	35 kW/3
Air throughput (unimpeded air flow)	At 50 Hz: 9,900 m³/h
Dimensions	Width: 600 mm Height: 2,000 mm Depth: 1,000 mm
Suitable for enclosure type	TS IT
Installation in bayed enclosure suite	Flush
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 connection (electrical)	Connection clamp
Duty cycle	100 %
Cooling medium	Refrigerant
EC fan	Yes
SNMP card	Yes

# Features

Fans may be exchanged with the system operational	Yes
Temperature control	Infinitely variable fan control Inverter-controlled compressor
Pre-fuse	Miniature circuit-breaker/fuse: 40 A
Operating temperature range	15 °C...35 °C
Noise pressure level	At 50 Hz: 69 dB(A)
Protection category IP to EN 60529	IP 20
Packaging unit	1 pc(s).
Weight/packaging unit	398 kg
Customs tariff number	84158200
EAN	4028177691353
ETIM 8	EC002515
ETIM 7.0	EC002515
ECLASS 8.0	27180712

# Approvals

Certificates	EAC
Explanations	Declaration of conformity