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# SK 3311.410

## Liquid Cooling Package

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3311.410 - Liquid Cooling Package LCP rack DX, LCP rack DX/FC

Rack-based cooling on one to two IT racks. Continuous cooling output adjustment due to the use of an output-controlled compressor in the LCP Rack DX (evaporator) An external condenser is required to operate the unit.

## Features

Model No.	SK 3311.410
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>Control of the server inlet temperature</p> <p>Thanks to the speed-regulated compressor, the cooling output is ideally adapted to actual requirements</p> <p>With redundant temperature sensor integrated at the air end as standard</p> <p>Specific maintenance of the LCP DX due to separation of cooling and server racks</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>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	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	Rack cooling

# Features

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
Modulation range	3 - 12 kW
Total cooling output/Number of fan modules	12 kW/4
Air throughput (unimpeded air flow)	At 50 Hz: 4,800 m <sup>3</sup> /h
Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,000 mm
To fit 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
Type of electrical connection	Connection clamp
Duty cycle	100 %
Cooling medium	Refrigerant
EC fan	Yes
Fans may be exchanged with the system operational	Yes
Temperature control	Linear fan control Inverter-controlled compressor
Start-up current (LRA)	11 A
Pre-fuse	Miniature circuit-breaker/fuse: 20 A
Storage temperature range	-20 °C...50 °C

# Features

Operating temperature range	15 °C...35 °C
Noise level	At 50 Hz: 69 dB(A)
Refrigerant/cooling medium	Refrigerant: R410A Cooling medium: Refrigerant
Protection category to IEC 60 529	IP 20
Packs of	1 pc(s).
Weight/pack	207 kg
Net weight	193
Gross weight	207
Customs tariff number	84186900
EAN	4028177691315
ETIM 8	EC002515
ETIM 7.0	EC002515
ECLASS 8.0	27180712

# Approvals

Certificates	EAC
Explanations	Declaration of conformity

# Tender text

Tender text for LCP Rack DX, 3311.410 WHD (mm)  
300x2000x1000

LCP Rack DX:

IT-optimised design, providing ideal support for