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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	<div>Maximum energy efficiency due to EC fan technology and IT-based control</div> <div>Minimal pressure loss at the air end, which in turn minimises the power consumption of the fans</div> <div>Control of the server inlet temperature</div> <div>Thanks to the speed-regulated compressor, the cooling output is ideally adapted to actual requirements</div> <div>With redundant temperature sensor integrated at the air end as standard</div> <div>Specific maintenance of the LCP DX due to separation of cooling and server racks</div>
Applications	<div>Ideal for IT cooling of small and medium-sized locations</div> <div>One or two racks can be cooled separately</div>

# Features

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
Monitoring	<p>Direct connection of the unit via SNMP over Ethernet</p> <p>Integration into RiZone</p>
Total cooling output to DIN EN 14511	<p>Useful cooling output L22 L30: 12 kW</p> <p>Useful cooling output L22 L45: 10 kW</p>
Total cooling output/Number of fan modules	12 kW/4
Modulation range	3 - 12 kW
Air throughput (unimpeded air flow)	At 50 Hz: 4,800 m³/h
Dimensions	<p>Width: 300 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,000 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>
Rated current max.	At 50 Hz: 7.5 A
Max. cooling output	12 kW
Type of electrical connection	Connection clamp

# Features

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
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
Options	Humidifier Dehumidification and reheater Condensate drain pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Packs of	1 pc(s).
Net weight	193
Gross weight	207
Customs tariff number	84186900
EAN	4028177691315
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

## Tender text

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

LCP Rack DX:

IT-optimised design, providing ideal support for