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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

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Model No.	SK 3311.410
Benefits	<ul style="list-style-type: none"><li>Maximum energy efficiency due to EC fan technology and IT-based control</li><li>Minimal pressure loss at the air end, which in turn minimises the power consumption of the fans</li><li>Control of the server inlet temperature</li><li>Thanks to the speed-regulated compressor, the cooling output is ideally adapted to actual requirements</li><li>With redundant temperature sensor integrated at the air end as standard</li><li>Specific maintenance of the LCP DX due to separation of cooling and server racks</li></ul>
Applications	<ul style="list-style-type: none"><li>Ideal for IT cooling of small and medium-sized locations</li><li>One or two racks can be cooled separately</li></ul>

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# Features

Function principle	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 Absorbed thermal energy is emitted to the ambient air at the external condenser location, without heating up the installation room
Material	Sheet steel, spray-finished
Options	Humidifier Dehumidification and reheater Condensate drain pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Design	Rack cooling
Monitoring	Direct connection of the unit via SNMP over Ethernet Integration into RiZone
Total cooling output to DIN EN 14511	Useful cooling output L30 L22: 12 kW Useful cooling output L22 L45: 10 kW
Total cooling output/Number of fan modules	12 kW/4
Total cooling output	12 kW
Modulation range	3 - 12 kW
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

# Features

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
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 kg
Gross weight	207 kg
Customs tariff number	84186900
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712

# Features

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Product description

SK LCP Rack DX, Refrigerant-based split cooling unit for rack cooling, Mounted on the side of the rack, flush, Cooling of one up to maximum two racks, Support of IT-compatible, #front-to-back# air routing,

# Approvals

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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