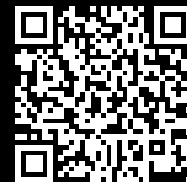


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SK 3311.410 Liquid Cooling Package

State: 12/14/2025 (Source: rittal.com/us-en)

ENCLOSURES

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



SK 3311.410 - Liquid Cooling Package LCP Rack DX

Rack-based cooling of one to two IT racks. Continuous adjustment of the cooling output provided by output-controlled compressors in the Rack DX LCP (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 minimizes the power consumption of the fans</p> <p>Control of the server inlet temperature</p> <p>Due to the speed-regulated compressor, the cooling output adapts to the actual requirements</p> <p>Redundant temperature sensor integrated at the air end</p> <p>Special maintenance of the LCP DX due to separation of cooling and server enclosures</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>

Features

Material	Carbon steel, spray finished
Options	Humidifier Dehumidification and reheater Condensate lift pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Version	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 L22 L30: 12 kW Useful cooling output L22 L45: 10 kW Useful cooling output L22 L45: 34,121 BTU/h
Total cooling output/number of fan modules	12 kW/4 40,946 BTU/h
Modulation range	3 - 12 kW
Air throughput (unimpeded air flow)	At 50 Hz: 4,800 m³/h At 50 Hz: 2,825.2 cfm
Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,000 mm Width: 11.8 " Height: 78.7 " Depth: 39.4 "
Suitable for 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 40,946 BTU/h
Type of connection (electrical)	Connection clamp
Duty cycle	100 %

Features

Cooling medium	Refrigerant
EC fan	Yes
Fans may be exchanged with the system operational	Yes
Temperature control	Infinitely variable fan control Inverter-controlled compressor
Start-up current	11 A
Pre-fuse	Miniature circuit-breaker/fuse: 20 A
Storage temperature range	-20 °C...50 °C -4 °F...122 °F
Operating temperature range	15 °C...35 °C 59 °F...95 °F
Noise pressure level	At 50 Hz: 69 dB(A)
Refrigerant/cooling medium	Refrigerant: R410A Cooling medium: Refrigerant
Protection category IP to EN 60 529	IP 20
Options	Humidifier Dehumidification and reheater Condensate lift pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Packaging unit	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

Certificates

EAC

Explanations

Declaration of conformity