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## SK 3311.470 Liquid Cooling Package

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FRIEDHELM LOH GROUP



# SK 3311.470 - Liquid Cooling Package LCP Inline DX

Ideal for cooling small and medium-sized IT applications. Continuous adjustments of the cooling output provided by output-controlled compressors in the Inline DX LCP (evaporator). An external condenser is required to operate the unit.



## Features

Model No.	SK 3311.470
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>

# Features

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
Options	<p>Humidifier</p> <p>Dehumidification and reheater</p> <p>Condensate lift pump</p> <p>Low-temperature/high-temperature condenser (-40 °C/+53 °C)</p>
Version	Row Cooling
Monitoring	<p>Direct connection of the unit via SNMP over Ethernet</p> <p>Integration into RiZone</p>
Note	Variant with UL approval available on request
Total cooling output to DIN EN 14511	Useful cooling output L22 L30: 35 kW
Total cooling output/number of fan modules	<p>35 kW/3</p> <p>119,425 BTU/h</p>
Modulation range	8 - 35 kW
Air throughput (unimpeded air flow)	<p>At 50 Hz: 9,900 m³/h</p> <p>At 50 Hz: 5,826.9 cfm</p>
Dimensions	<p>Width: 600 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,200 mm</p> <p>Width: 23.6 "</p> <p>Height: 78.7 "</p> <p>Depth: 47.2 "</p>
Suitable for enclosure type	TS IT
Installation in bayed enclosure suite	Flush

# Features

Rated operating voltage	380 V - 480 V, 3~, 60 Hz 400 V, 3~, 50 Hz
Rated current max.	At 50 Hz: 22.4 A
Max. cooling output	35 kW 119,425 BTU/h
Type of connection (electrical)	Connection clamp
Duty cycle	100 %
Cooling medium	Refrigerant
EC fan	Yes
SNMP card	Yes
Fans may be exchanged with the system operational	Yes
Temperature control	Infinitely variable fan control 2-way control ball valve
Pre-fuse	Miniature circuit-breaker/fuse: 40 A
Operating temperature range	15 °C...35 °C 59 °F...95 °F
Noise pressure level	At 50 Hz: 69 dB(A)
Protection category IP to EN 60529	IP 40
Options	Humidifier Dehumidification and reheater Condensate lift pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Packaging unit	1 pc(s).
Net weight	315
Gross weight	325
Customs tariff number	84158200
EAN	4028177691377
ETIM 9	EC002515

# Features

ETIM 8	EC002515
ECLASS 8.0	27180712

# Approvals

Certificates	EAC
Explanations	Declaration of conformity