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SK 3311.440 Liquid Cooling Package

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FRIEDHELM LOH GROUP



SK 3311.440 - 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 3311.440
Version	LCP Inline DX
Benefits	<ul style="list-style-type: none">Maximum energy efficiency due to EC fan technology and IT-based controlMinimal pressure loss at the air end, which in turn minimizes the power consumption of the fansTemperature monitoring and control.Redundant temperature sensor integrated at the air endDue to the speed-regulated compressor, the cooling output adapts to the actual requirementsSpecial maintenance of the LCP DX due to separation of cooling and server enclosuresUsing LCP DX/FC variants in combination with indirect free cooling helps to save operating costs
Applications	<ul style="list-style-type: none">Ideal for IT cooling of small and medium-sized locationsOne or two racks can be cooled separately

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	<p>Useful cooling output L22 L30: 12 kW</p> <p>Useful cooling output L22 L45: 10 kW</p> <p>Useful cooling output L22 L45: 34,121 BTU/h</p>
Total cooling output/number of fan modules	<p>12 kW/4</p> <p>40,946 BTU/h</p>
Modulation range	3 - 12 kW
Air throughput (unimpeded air flow)	<p>At 50 Hz: 4,800 m³/h</p> <p>At 50 Hz: 2,825.2 cfm</p>
Dimensions	<p>Width: 300 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,200 mm</p> <p>Width: 11.8 "</p> <p>Height: 78.7 "</p> <p>Depth: 47.2 "</p>
Suitable for enclosure type	TS IT

Features

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 %
Cooling medium	Refrigerant
EC fan	Yes
Fans may be exchanged with the system operational	Yes
Temperature control	Infinitely variable fan control Inverter-controlled compressor
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)
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	208.5 kg
Gross weight	233.5 kg
Customs tariff number	84186900

Features

ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712
Product description	SK LCP Inline DX, Refrigerant-based split cooling unit for suite cooling, Mounted on the side of the rack, flush, Cooling of several racks, Support of IT-compatible, #front-to-back# air routing,

Approvals

Certificates	EAC
Explanations	Declaration of conformity