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SK 3311.430
Liquid Cooling Package

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FRIEDHELM LOH GROUP

SK 3311.430 - 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 3311.430
Version	LCP Inline DX
Benefits	Maximum energy efficiency due to EC fan technology and IT-based control Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans Temperature monitoring and control. Redundant temperature sensor integrated at the air end Due to the speed-regulated compressor, the cooling output adapts to the actual requirements Special maintenance of the LCP DX due to separation of cooling and server enclosures Using LCP DX/FC variants in combination with indirect free cooling helps to save operating costs
Applications	Ideal for IT cooling of small and medium-sized locations One or two racks can be cooled separately

Features

Function principle	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 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. Absorbed thermal energy is emitted to the ambient air at the external condenser location, without heating up the installation room
Material	Carbon steel, spray finished
Options	Humidifier Dehumidification and reheater Condensate lift pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)
Version	Row Cooling
Monitoring	Direct connection of the unit via SNMP over Ethernet Integration into RiZone
Note	Variant with UL approval available on request
Total cooling output to DIN EN 14511	Useful cooling output L22 L30: 12 kW Useful cooling output L22 L45: 10 kW
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	Width: 300 mm Height: 2,000 mm Depth: 1,000 mm
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

Features

Rated current max.	At 50 Hz: 7.5 A
Max. cooling output	12 kW
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
Operating temperature range	15 °C...35 °C
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	181
Gross weight	224
Customs tariff number	84186900
EAN	4028177691339
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712

Approvals

Certificates	EAC
Explanations	Declaration of conformity