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SK 3311.450 Liquid Cooling Package

POWER DISTRIBUTION >> CLIMATE CONTROL

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IT INFRASTRUCTURE SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

ENCLOSURES

SK 3311.450 - Liquid Cooling Package LCP Inline DX, LCP Inline DX/FC

Ideal for cooling of small and medium-sized IT applications.

Features

| Model No. | SK 3311.450 |
|--------------------|--|
| Design | 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 minimises the |
| | power consumption of the fans |
| | Temperature monitoring and control |
| | With redundant temperature sensor integrated at the air end as standard |
| | Thanks to the speed-regulated compressor, the cooling output is ideally adapted to actual requirements |
| | Specific maintenance of the LCP DX due to separation of cooling and server racks |
| | 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 |
| Function principle | The LCP is designed for siting 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 variants include both a refrigerant and a water/ |
| | glycol heat exchanger. There is an additional free cooler integrated |
| | into the external condenser. |
| | 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 |
| | |

Features

| Dehumidification and reheater Condensate drain pump Low-temperature/high-temperature condenser (-40 °C/+53 °C)DesignSuite coolingMonitoringDirect connection of the unit via SNMP over Ethernet Integration into RiZoneNoteVariant with UL approval available on requestTotal cooling output to DIN EN 14511Useful cooling output L22 L30: 30 kWModulation range8 - 35 kWTotal cooling output/Number of fan modules35 kW/3Air throughput (unimpeded air flow)At 50 Hz: 9,900 m³/hDimensionsWidth: 600 mm Height: 2,000 mm Depth: 1,000 mmTo fit enclosure typeTS ITInstallation in bayed enclosure suiteFlushRated operating voltage360 V, 3~, 50 Hz 480 V, 3~, 60 HzRated ourput35 kWType of electrical connectionConnection clampDuty cycle100 %Cooling output86 kgreant | | |
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| Integration into RiZoneNoteVariant with UL approval available on requestTotal cooling output toUseful cooling output L22 L30: 30 kWDIN EN 14511Babble and available on requestModulation range8 - 35 kWTotal cooling output/Number of fan modules35 kW/3Air throughput (unimpeded air flow)At 50 Hz: 9,900 m³/hDimensionsWidth: 600 mm Height: 2,000 mm | Design | Suite cooling |
| Total cooling output to DIN EN 14511Useful cooling output L22 L30: 30 kWModulation range8 - 35 kWTotal cooling output/Number of fan modules35 kW/3Air throughput (unimpeded air flow)At 50 Hz: 9,900 m³/hDimensionsWidth: 600 mm Height: 2,000 mm Depth: 1,000 mmTo fit enclosure typeTS ITInstallation in bayed enclosure suiteFlushRated operating voltage360 V, 3~, 50 Hz 480 V, 3~, 60 HzRated current max.At 50 Hz: 22.4 AMax. cooling output35 kWType of electrical connectionConnection clampDuty cycle100 %Cooling mediumRefrigerantEC fanYes | Monitoring | |
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| fan modulesAir throughput (unimpeded air flow)At 50 Hz: 9,900 m³/hDimensionsWidth: 600 mm Height: 2,000 mm Depth: 1,000 mmTo fit enclosure typeTS ITInstallation in bayed enclosure | Modulation range | 8 - 35 kW |
| flow) Dimensions Width: 600 mm Height: 2,000 mm Depth: 1,000 mm To fit enclosure type TS IT Installation in bayed enclosure suite Rated operating voltage 360 V, 3~, 50 Hz 480 V, 3~, 60 Hz Rated current max. At 50 Hz: 22.4 A Max. cooling output 35 kW Type of electrical connection Connection clamp Duty cycle 100 % Cooling medium Refrigerant EC fan Yes | Total cooling output/Number of fan modules | 35 kW/3 |
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| Max. cooling output35 kWType of electrical connectionConnection clampDuty cycle100 %Cooling mediumRefrigerantEC fanYes | Rated operating voltage | |
| Type of electrical connectionConnection clampDuty cycle100 %Cooling mediumRefrigerantEC fanYes | Rated current max. | At 50 Hz: 22.4 A |
| Duty cycle100 %Cooling mediumRefrigerantEC fanYes | Max. cooling output | 35 kW |
| Cooling medium Refrigerant EC fan Yes | Type of electrical connection | Connection clamp |
| EC fan Yes | Duty cycle | 100 % |
| | Cooling medium | Refrigerant |
| SNMP card Yes | EC fan | Yes |
| | SNMP card | Yes |

Features

| Fans may be exchanged with the system operational | Yes |
|---|--|
| Temperature control | Linear fan control Inverter-controlled compressor |
| Pre-fuse | Miniature circuit-breaker/fuse: 40 A |
| Operating temperature range | 15 °C35 °C |
| Noise level | At 50 Hz: 69 dB(A) |
| Protection category to IEC 60 529 | IP 20 |
| Packs of | 1 pc(s). |
| Weight/pack | 398 kg |
| Customs tariff number | 84158200 |
| EAN | 4028177691353 |
| ETIM 8 | EC002515 |
| ETIM 7.0 | EC002515 |
| ECLASS 8.0 | 27180712 |

Approvals

Certificates

EAC

Explanations

Declaration of conformity