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# SK 3313.230

# Liquid Cooling Package

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# SK 3313.230 - Liquid Cooling Package LCP Rack CW, LCP Rack CWG

Cooling via high-performance compact impellers. The LCP draws in air from the side at the rear of the server enclosure and blows the cooled air back into the front part of the server enclosure from the side.

## Features

| | |
|---|---|
| Model No. | SK 3313.230 |
| Version | CW |
| Benefits | Maximum energy efficiency due to EC fan technology and IT-based control<br>Minimal pressure loss at the air end, which in turn minimizes the power consumption of the fans<br>Control of the server inlet temperature<br>Redundant temperature sensor integrated at the air end<br>Optimum adaptability due to dynamic, continuous control of the cold water volume flow<br>By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs<br>Targeted cooling output thanks to modular fan units<br>Fan modules configurable as n+1 redundancy.<br>Standard 3-phase connection for electrical redundancy<br>The separation of cooling and enclosure prevents water from entering the server enclosure<br>A maximum floor area of 0.36 m² for all cooling services<br>Improved heat recovery due to high water return temperatures when using the LCP CW glycol variants, for example in conjunction with a heat pump<br>Optimum access for maintenance and service from the front and the rear<br>Tool-free fan module replacement |
| Function principle | 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 |

# Features

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| Material | Carbon steel, spray finished |
| Color | RAL 7035 |
| Options | Fully integrated fire detection and extinguisher system<br>Automatic server enclosure door opening<br>Direct connection of additional CMC III sensors is also possible<br>Racks 2200 mm high |
| Version | Rack cooling |
| Monitoring | Monitoring of all system-relevant parameters such as server air intake temperature, server waste air temperature, water inlet/return temperature, water flow, cooling output, fan speed, leakage.<br>Direct connection of the unit via SNMP over Ethernet<br>Integration into RiZone |
| Total cooling output/number of fan modules | 10 kW/1<br>20 kW/2<br>30 kW/3<br>34,121 BTU/h<br>68,243 BTU/h<br>102,364 BTU/h |
| Air throughput (unimpeded air flow) | At 50 Hz: 4,800 m³/h<br>At 50 Hz: 2,825.2 cfm |
| Number of fan modules in supplied state | 1 |
| Dimensions | Width: 300 mm<br>Height: 2,000 mm<br>Depth: 1,200 mm<br>Width: 11.8 ˝<br>Height: 78.7 ˝<br>Depth: 47.2 ˝ |
| Suitable for enclosure type | VX IT |
| Installation in bayed enclosure suite | Flush |
| Rated operating voltage | 200 V - 240 V, 1~, 50 Hz/60 Hz<br>346 V - 415 V, 3~, 50 Hz<br>346 V - 415 V, 3~, 60 Hz |

# Features

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|---|---|
| Max. cooling output | 30 kW<br>102,364 BTU/h |
| Type of connection (electrical) | Connector |
| Duty cycle | 100 % |
| Cooling medium | Water |
| Cooling medium note | Water quality according to unit specifications. |
| EC fan | Yes |
| Fans may be exchanged with the system operational | Yes |
| Temperature control | Infinitely variable fan control<br>2-way control ball valve |
| Water connections | DN 40 (G 1½" external thread) |
| Permissible operating pressure (p. max.) | 10 bar<br>145 PSI |
| Water inlet temperature | 15 °C<br>59 °F |
| Protection category IP to EN 60 529 | IP 20 |
| Options | Fully integrated fire detection and extinguisher system<br>Automatic server enclosure door opening<br>Direct connection of additional CMC III sensors is also possible<br>Racks 2200 mm high |
| Packaging unit | 1 pc(s). |
| Net weight | 186 |
| Gross weight | 206.5 |
| Customs tariff number | 84186900 |
| EAN | 4028177953888 |
| ETIM 9 | EC002515 |
| ETIM 8 | EC002515 |
| ECLASS 8.0 | 27180712 |

# Approvals

Explanations                          Declaration of conformity