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SK 3314.268

Liquid Cooling Package

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SK 3314.268 - Liquid Cooling Package LCP Rack CW/ 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 3314.268
Version	Rack cooling CW
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 Control of the server supply air temperature or optionally according to differential pressure Redundant temperature sensor integrated at the air end Optimum adaptability due to dynamic, continuous control of the cold water volume flow By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs Cooling capacity tailored to requirements thanks to modular fan units (fans can be replaced without tools and during operation) Fan modules configurable as n+1 redundancy. Standard 3-phase connection for electrical redundancy The UL version has a 1- or 2-phase fixed connection with additional cover as standard. The separation of cooling and enclosure prevents water from entering the server enclosure A maximum floor area of 0.36 m² for all cooling services Improved heat recovery due to high water return temperatures when using the LCP CW glycol variants, for example in conjunction with a heat pump Optimum access for maintenance and service from the front and the rear

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Features

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
Material	Housing: Carbon steel Front door: Aluminum, anodized/spray-finished Carbon steel, spray finished
Surface finish	RAL 9005, fine structure matt
Color	Housing: RAL 7035 Front door: Vertical sections, silver colored and horizontal sections, RAL 9005 RAL 9005
Options	Fully integrated fire detection and extinguisher system Automatic server enclosure door opening Direct connection of an additional 16 CMC III sensors is possible Racks in height 2200 mm, special color Condensate management kit including baffle plate separator and temperature and humidity sensor Display
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. Direct connection of the device via SNMP and via Ethernet (2 Ethernet interfaces, thus simplified cascading of up to 16 LCPs) Integration in RiZone OT Suite (Extended measurement and management functions, values can be transferred and visualized)
Total cooling output/number of fan modules	53 kW/6 180,844 BTU/h
Total cooling output	53 kW 180,844 BTU/h
Air throughput (unimpeded air flow)	At 60 Hz: 8,000 m³/h At 60 Hz: 4,708.6 cfm
Number of fan modules in supplied state	6

Features

Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,200 mm Width: 11.8 ″ Height: 78.7 ″ Depth: 47.2 ″
Suitable for enclosure type	VX IT TS IT
Installation in bayed enclosure suite	Flush
Rated operating voltage	200 V - 240 V, 1~, 50 Hz/60 Hz
Max. cooling output	53 kW 180,844 BTU/h
Type of connection (electrical)	Fixed connection with cover
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 2-way control ball valve
Water connections	DN 40 (G 1½" external thread)
Permissible operating pressure (p. max.)	10 bar 145 PSI
Water inlet temperature	15 °C 59 °F
Protection category IP to EN 60 529	IP 20
Optimized condensate management even at low water flow temperatures	Yes

Features

Options	Fully integrated fire detection and extinguisher system Automatic server enclosure door opening Direct connection of an additional 16 CMC III sensors is possible Racks in height 2200 mm, special color Condensate management kit including baffle plate separator and temperature and humidity sensor Display
Packaging unit	1 pc(s).
Net weight	224 kg
Gross weight	237.5 kg
CRA risk class	Default (Low Risk)
Customs tariff number	84186900
Product description	SK LCP Rack CW, 53 kW, UL, W x H x D: 300 x 2000 x 1200 mm, RAL 9005, fine structure matt

Approvals

Approvals	Cyber Security Certificate UL + C-UL (listed)
Explanations	Declaration of conformity

Tender text

 LCP Rack CW HD – 53kW (Closed Loop), 3314.268

 LCP Rack CW 3314.268: WHD - 300mm/12” x 2000mm/79” x 1200mm/48”
 Regulatory Model No.: LCP N 8A3R63SC9D000

 The design of the row based cooling unit is optimized for use in data centers. The integrated air/water heat exchanger guarantees a sensible cooling output of 53 kW (Maximum) compatible with standard IT Equipment (ITE) server enclosure dimensions, the lowest possible weight and comprehensive system performance monitoring.

 The air/water heat exchanger is mounted to the side of the IT equipment (ITE) enclosure (Sidecar).
 The LCP Rack CW offers closed loop airflow, cabinet-based independent of room climate control (CRAC/CRAH), to further reduce room ambient noise levels. No cold air to IT device intakes or heated exhaust air is discharged into operational spaces.
 The unit is capable of cooling either one or two IT Equipment enclosures. Please contact Rittal if additional IT Equipment enclosures will be supported by a single LCP HD unit.
 Maximum efficiency is achieved by using 6 built-in EC fan modules (cooling capacity up to 53 kW, 180844 BTU/h).

 The air/water heat exchanger and ITE Enclosure are incorporated into a single bayed suite but nevertheless remain separate from each other. This eliminates the risk of water penetrating into the server rack and simplifies installation and service.
 There is no access to the adjacent IT rack via the LCP.
 Leakage monitoring is integrated. If a sensor installed in the condensate tray detects a leakage, the main controller issues an alarm message and/or interrupts the supply of cooling medium to the unit.
 All components which may come into contact with condensate are made from stainless steel in order to avoid corrosion.

 The unit was developed for the exclusive purpose of providing a 100% sensible cooling output.
 An accessory kit enables top or bottom feed water connections (G 1½" external thread). A separate Coupling Kit (9977379) is provided to

connect from BSPP threaded connections at the LCP (Supply and return) to NPT fittings from facility water piping.
 An air bleed valve at the top rear of the heat exchanger provides rapid and simple air bleeding.
 Hot-swappable fans can be quickly replaced, without the need for tools or specially qualified personnel, also during continued operation.

 An advanced software OS, enabling network integration for the monitoring/setting of all technical parameters is provided as a standard feature.
 An integrated fail-safe operating mode maintains reliable cooling in case of a controller failure.
 Up to 16 CMC III sensors (temperature/humidity etc.) can be connected to the CAN bus.

NEW-PAGE
 Technical Data:
 Sensitive cooling output with 6 fans: 53 kW (180844 BTU/h)
 Operating temperature range: 50-122°F/10 - 50 °C
 Operating temperature range, cooling medium: 50-86°F/10 – 30 °C (non-condensing)
 Lower inlet temperatures possible after consultation with the manufacturer.

 Installed fans: 6
 Air throughput (MAX): 4700cfm/8000 m³/h (6 fans)
 Cooling output (six fans): 53 kW
 Air intake temperature (EAT): 75°F/24°C
 Water inlet temperature (EWT): 59°F/15°C
 NOTE: Thermal capacity determined by EAT and EWT setpoints. Capacity can vary based on operating conditions
 Medium: Water (or water/glycol mixture) (NOTE: Glycol mix will reduce capacity)
 Cooling medium throughput (0-37GPM/0-140 LPM): approx. 33GPM/125 LPM (pure water)
 Pressure loss: approx. 15PSI/1 bar
 Water connection: G 1½" external thread
 Voltage: 200-240V, AC50/60Hz, L1, (L2/N), PE
 Max. connected load (6 fan modules): 3150 W
 Server supply air temperature control via flow rate control and continuously variable speed EC fans
 Noise level at a distance of 1 m: max. 88 dB(A)

 Color: Enclosure frame, roof panel, side panels and rear door: RAL 9005 Black, fine structure matte
 Dimensions WxHxD: 12”/300mm x 79”/2000mm x 48”/1200mm
 Configuration Solid Doors Front & Rear, Solid roof with adjustable panel for hose, power, network connections
 Weight as delivered: 573 Lbs/260 kg

 Controller/Interfaces:
 Front and Rear network interfaces at the customer connection panel: 2 x RJ45 switched, each 10/100/1000 MBit/s (16 IP addresses)
 Front USB interfaces: USB 2.0 type C for serial configuration. Power supply for basic configurations, USB 2.0 type A for storage media, status LED, set and reset button
 Rear CAN bus interface RJ 45: For connection of up to 16 CMC III sensors
 Rear alarm relay output: changeover contact (NO/NC) (48V DC, 1A, 250 VAC, 2 A)
 Digital Input: 1 x (male)
 Analog inputs: 2 x (4-20 mA connector)
 RS232 for display connection
 Supported protocols: IPv4 / IPv6<(>,<)>
 integrated web server, HTTP, HTTPS, SSL, SSH<(>,<)>
 NTP, Telnet, TCP/IP v4 and v6, DHCP, DNS, NTP<(>,<)>
 Syslog, SNMP v1, v2c and v3, Traps<(>,<)>
 OPC-UA, Modbus/TCP<(>,<)>
 FTPS, SFTP (update / file transfer)<(>,<)>
 e-mail dispatch (SMTP)
 User management incl. rights management: Yes
 LDAP(S) / Radius connection: Yes
 USB port for firmware update / data logging function: Yes
 Initial commissioning / mass configuration: Yes, via predefined CSV file

 Software:
 Control according to server supply air temperature or optionally according to differential pressure.
 Automatic or manual control selectable
 Remote control via SNMP, Modbus/TCP or OPC-UA possible
 Setpoint setting by external temperature sensor selectable.
 Optional water-side delta T control for efficient chiller operation
 Programming of logical links (tasks) for automation of specific processes possible

 Measurements: Thermal and electrical power are measured continuously. Determination and display of current EER, ∑ fan operating hours, ∑ valve cycles and ∑ flow rate [l].

 Touch-Screen Display, Color, (Installed):
 The front door mount LCD screen displays all relevant operating parameters directly on the LCP.
 Individual icons display operational parameters and LCP status at a glance and, if necessary, the user can react as quickly as possible and change parameters.

 The following parameters can be read and changed at various levels:

 - Display of the cold air temperature supplied to the 19“ equipment
 - Display of the hot air temperature discharged from the 19” equipment
 - Display of the control mode (automatic, manual, remote)
 - Configuration menu: Air Circuit, Coolant circuit, Condensate Management, Fan Registry
 - Cooling water flow temperature/return temperature
 - Cooling water flow
 - Control valve position
 - Display of pPUE, EER and Cap (cooling capacity)
 - Overview of all parameters and the option to change them (protected with PIN)
 - Display of alarm and warning messages
 - Overview page with IP address of the device, software version and contact person etc. (can be entered individually)

 Touchscreen display, packaging unit consisting of:
 - Color touch screen display, incl. mounting accessories
 - 4.3" display, 480 x 272 pixels
 - Resistive touch
 - Brightness 200 cd/m²
 - Storage temperature -4 – 158°F/-20 - +70 °C
 - Ground cable

 Special Features:
 Easy maintenance of the device from the front and rear. Cable routing, power distribution and aisle containment can be installed above the LCP. 2 Ethernet interfaces, simplifying the cascading of up to 16 LCPs (saving on ports and switches)
 Tool-free replacement of the fans during operation. Optional

differential pressure control.
 Integrated software with water-side delta T control for efficient chiller operation
 A droplet separator with patented condensate management is recommended for operation with water supply temperatures (EWT) below the dew point. This option must be requested in advance.
 Available expansion height to match adjacent taller (86”/2200mm – 47RU) ITE enclosures (79”/2000mm LCP standard: 42 U)

 Accessories:
 North America Coupling Kit (BSPP to NPT): 9977379
 Connection hose: Contact Rittal North America
 Condensate pump: 3314.012
 VX Side Wall Mounting Kit: 3313.089 (NOTE: 1 Kit required per sidewall
 CMC III temperature sensor: 7030110
 CMC III differential pressure sensor: 7030150
 Add-on LCP Flush to VX IT: 5301310
 Add-on LCP Flush to TS IT: 5301312
 Integrated droplet separator on request