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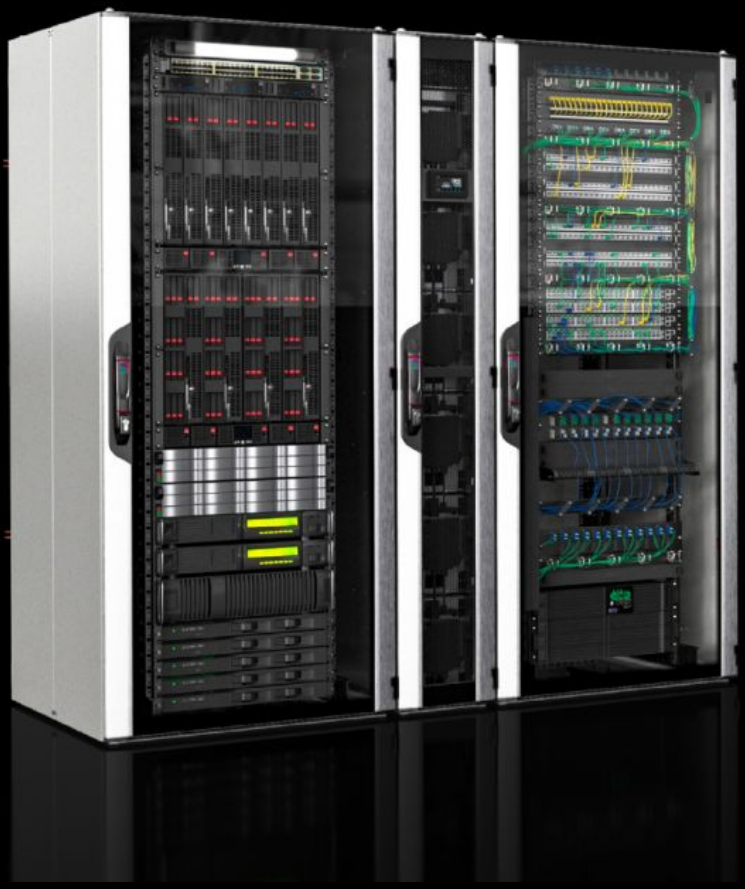

SK 3314.130
Liquid Cooling Package

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ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL | IT INFRASTRUCTURE | SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

SK 3314.130 - Liquid Cooling Package LCP Rack CW/ CWG

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

Features

Model No.	SK 3314.130
Design	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 minimises the power consumption of the fans Control of the server air inlet temperature or (optionally) according to differential pressure With redundant temperature sensor integrated at the air end as standard 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 Modular fan units for a demand-based cooling output (fan replacement without tools, also possible during operation) Fan modules configurable as n+1 redundancy Standard 3-phase connection for electrical redundancy The UL variant includes a 1- or 2-phase fixed connection with additional cover as standard. The separation of cooling and enclosure prevents the ingress of water into the server enclosure A footprint of max. 0.36 m² for all cooling services Improved heat recovery, thanks to high water return temperatures when using LCP CW glycol variants, for example in combination with a heat pump Optimum access for maintenance and servicing from the front and rear

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	Enclosure: Sheet steel Front door: Aluminium, anodised/spray-finished
Colour	Enclosure: RAL 7035 Front door: Vertical sections, silver coloured and horizontal sections, RAL 9005
Options	Fully integrated fire detection and extinguisher system Automatic server enclosure door opening Direct connection of an additional 16 CMC III sensors possible Racks in height 2200 mm, special colour Condensate management kit including baffle separator plus 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 unit via SNMP over Ethernet (2 Ethernet ports for simpler cascading of up to 16 LCPs) Integration into RiZone OTM Suite (extended measuring and management functions, values can be transferred and visualised)
Note	From serial number 2025K000110475 onwards (production date: 16 September 2025), only display 3314.030 may be used as an accessory. The previous display model 3311.030 is no longer compatible as of that date. All newly produced LCPs will be indicated by a green sticker on the packaging.
Note on Model No.	Optimised condensate management also at low water inlet temperatures, available upon request.
Total cooling output/Number of fan modules	10 kW/1 20 kW/2 30 kW/3
Total cooling output	10 kW 20 kW 30 kW

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Features

Air throughput (unimpeded air flow)	At 50 Hz: 4,800 m³/h
Number of fan modules in supplied state	1
Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,000 mm
To fit enclosure type	VX IT TS IT
Installation in bayed enclosure suite	Flush
Rated operating voltage	200 V - 240 V, 1~, 50 Hz/60 Hz 346 V – 415 V, 3~, 50 Hz/60 Hz
Max. cooling output	30 kW
Type of electrical connection	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	Linear fan control Two-way control valve
Water connections	DN 40 (G 1½" external thread)
Permissible operating pressure (p. max.)	10 bar
Water inlet temperature	15 °C
Protection category to IEC 60 529	IP 10B

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Features

Options	Fully integrated fire detection and extinguisher system Automatic server enclosure door opening Direct connection of an additional 16 CMC III sensors possible Racks in height 2200 mm, special colour Condensate management kit including baffle separator plus temperature and humidity sensor Display
Packs of	1 pc(s).
Net weight	186 kg
Gross weight	196 kg
Customs tariff number	84186900
Product description	LCP Rack CW, 30 kW, flush, RAL 7035, WHD: 300x2000x1000 mm

Approvals

Explanations	Declaration of conformity Declaration of conformity UK

Tender text

LCP Rack CW, 3314.130:
Regulatory model no.: LCP G 8A1R13SA70000

The design of the unit is optimised for use in data centres.
The integrated air/water heat exchanger guarantees a sensitive cooling output of 30 kW with standard server enclosure dimensions, the lowest possible weight and comprehensive possibilities for monitoring.

The air/water heat exchanger is mounted on the side of the rack.
LCP Rack CW offers enclosure-based cooling separate from the room air and is thus also a means to reduce the noise level.
The unit is capable of providing cooling for either one or two server racks.
The use of an integrated EC fan module (cooling output up to 10 kW) achieves maximum efficiency and minimises the electrical energy consumption.
The cooling output can be raised to 30 kW by installing two further fan modules (accessories).
This safeguards the value of an investment where the maximum cooling output is not yet required at the time of initial installation.
The unit is prepared for the incorporation of up to six EC fan modules.
Configuration with the maximum number of fans can thus also serve to achieve redundancy or to minimise electrical power consumption.

The air/water heat exchanger and server rack 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 sensitive cooling output.
An accessory kit enables the water connection to be realised either at the top or at the bottom (G 1½" external thread).

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Fast commissioning of the unit thanks to fast and simple air bleeding.
The fans can be replaced in a matter of seconds and without the need for tools or specially qualified personnel, also during continued operation.

An advanced software concept enabling network integration for the monitoring/setting of all technical parameters is implemented 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.

Technical data:
Sensitive cooling output with 1/2/3 fans: 10/20/30 kW
Operating temperature range, ambient: 10 °C - 50 °C
Operating temperature range, cooling medium: 10 °C - 30 °C (non-condensing)
Lower inlet temperatures possible after consultation with the manufacturer.

Installed fans: 1 (max. 6 possible)
Air throughput: 4,800 m³/h (3 fans)
Air intake temperature: 24 °C
Water inlet temperature: 15 °C
Medium: Water or water/glycol mixture
Cooling medium throughput (0-100 l/min): approx. 60 l/min (pure water)
Pressure loss: approx. 0.6 bar
Water connection: G 1½" external thread
Voltage: 200-240 V AC, 1~ N, PE, 50/60 Hz; 346-415 V AC, 3N~, PE, 50/60 Hz
Max. connected load (3 fan modules): 1570 W
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)
Colour:
Enclosure frame, roof plate, side panels and rear door: RAL 7035
Aluminium front door, vertical, aluminium, silver-grey anodised
Aluminium front door, horizontal, aluminium, painted in RAL 9005
Aluminium front door, sheet steel panel, painted in RAL 9005
Handle and hinges: RAL 9005
Dimensions: WxHxD: 300 x 2000 x 1000 mm

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Weight as delivered: 225 kg

Controller/interfaces:
Rear network interfaces at the customer connection panel: 2 pcs.(RJ 45) 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, TCP/IP v4 and v6, DHCP, DNS, NTP<(>,<)>
Syslog, SNMP v1, v2c and v3, Traps<(>,<)>
OPC-UA, Modbus/TCP<(>,<)>
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].
Integration in RiZone OT Suite: Extended measurement and management functions, values can be transferred and visualized

Special features:

Simple maintenance of the unit from the front and back, enabling cable channels and aisle partitioning to be positioned above the unit. 2 Ethernet interfaces, thus simplified cascading of up to 16 LCPs (saving of ports and switches)
Tool-free fan replacement without interrupting operation. Optional differential pressure control.
Integrated software with water-side ?T control for efficient chiller operation
For operation with a water inlet temperature below the dew point, the unit 3314.250 (300 x 2000 x 1200 mm) with patented condensate management is recommended.

Optional:
Fan module to increase cooling output: 3313.016
Touch screen display, colored: 3311.030
Connection hose, bottom/top: 3311.040
Condensate pump: 3312.012 or 3314.012
CMC III temperature sensor: 7030110
CMC III differential pressure sensor: 7030150
Connection cable for PSM rail: 7856025
Add-on LCP Flush to VX IT: 5301310
Add-on LCP Flush to TS IT: 5301312
Side panel mounting: 3313089
Integrated droplet separator on request

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