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## SK 3314.260 Liquid Cooling Package

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3314.260 - 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

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|           |  |
|-----------|--|
| Model No. | SK 3314.260  |
| Design    | Rack cooling<br>CW   |
| Benefits  | <p>Maximum energy efficiency due to EC fan technology and IT-based control</p> <p>Minimal pressure loss at the air end, which in turn minimises the power consumption of the fans</p> <p>Control of the server air inlet temperature or (optionally) according to differential pressure</p> <p>With redundant temperature sensor integrated at the air end as standard</p> <p>Optimum adaptability due to dynamic, continuous control of the cold water volume flow</p> <p>By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs</p> <p>Modular fan units for a demand-based cooling output (fan replacement without tools, also possible during operation)</p> <p>Fan modules configurable as n+1 redundancy</p> <p>Standard 3-phase connection for electrical redundancy</p> <p>The UL variant includes a 1- or 2-phase fixed connection with additional cover as standard.</p> <p>The separation of cooling and enclosure prevents the ingress of water into the server enclosure</p> <p>A footprint of max. 0.36 m<sup>2</sup> for all cooling services</p> <p>Improved heat recovery, thanks to high water return temperatures when using LCP CW glycol variants, for example in combination with a heat pump</p> <p>Optimum access for maintenance and servicing from the front and rear</p> |

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# Features

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|--|---|
| 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<br>Front door: Aluminium, anodised/spray-finished  |
| Colour                                     | Enclosure: RAL 7035<br>Front door: Vertical sections, silver coloured and horizontal sections, RAL 9005   |
| Options                                    | Fully integrated fire detection and extinguisher system<br>Automatic server enclosure door opening<br>Direct connection of an additional 16 CMC III sensors possible<br>Racks in height 2200 mm, special colour<br>Condensate management kit including baffle separator plus temperature and humidity sensor<br>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<br>Direct connection of the unit via SNMP over Ethernet (2 Ethernet ports for simpler cascading of up to 16 LCPs)<br>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.<br>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 | 48 kW/4<br>51 kW/5<br>53 kW/6   |
| Total cooling output                       | 48 kW<br>51 kW<br>53 kW   |

# Features

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|---|--|
| Air throughput (unimpeded air flow)               | At 50 Hz: 8,000 m <sup>3</sup> /h                                |
| Number of fan modules in supplied state           | 4  |
| Dimensions  | Width: 300 mm<br>Height: 2,000 mm<br>Depth: 1,200 mm             |
| To fit enclosure type                             | VX IT<br>TS 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/60 Hz |
| Max. cooling output                               | 53 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<br>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   |

# Features

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|                       |   |
|-----------------------|---|
| Options               | Fully integrated fire detection and extinguisher system<br>Automatic server enclosure door opening<br>Direct connection of an additional 16 CMC III sensors possible<br>Racks in height 2200 mm, special colour<br>Condensate management kit including baffle separator plus temperature and humidity sensor<br>Display |
| Packs of              | 1 pc(s).  |
| Net weight            | 216 kg  |
| Gross weight          | 226 kg  |
| Customs tariff number | 84186900  |
| Product description   | LCP Rack CW, 53 kW, flush, RAL 7035, WHD: 300x2000x1200 mm  |

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# Approvals

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|              |   |
|--------------|---|
| Approvals    | Cyber Security Certificate                                |
| Explanations | Declaration of conformity<br>Declaration of conformity UK |

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# Tender text

LCP Rack CW, 3314.260:

Regulatory model no.: LCP G 8A3R43SC70000

The design of the unit is optimised for use in data centres.

The integrated air/water heat exchanger guarantees a sensitive cooling output of 53 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 four integrated EC fan modules (cooling output up to 48 kW) achieves maximum efficiency and minimises the electrical energy consumption.

The cooling output can be raised to 53 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).

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 4/5/6 fans: 48/51/53 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: 4 (max. 6 possible)

Air throughput: 8,000 m<sup>3</sup>/h (6 fans)

Cooling output (six fans): 53 kW

Air intake temperature: 24 °C

Water inlet temperature: 15 °C

Medium: Water (or water/glycol mixture)

Cooling medium throughput (0-140 l/min): approx. 125 l/min (pure water)

Pressure loss: approx. 1 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 (4 fan modules): 2150 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 1200 mm

Weight as delivered: 260 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 containment 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  $\Delta T$  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