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## SK 3313.530 Liquid Cooling Package

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FRIEDHELM LOH GROUP



# SK 3313.530 - Liquid Cooling Package LCP Inline CW, LCP Inline CWG

Bayed climate control designed for siting within a bayed enclosure suite. The hot air is extracted at the rear of the unit, cooled and then expelled forwards to the cold aisle.

## Features

Model No.	SK 3313.530
Design	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>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>Targeted cooling output due to modular fan units</p> <p>Fan modules configurable as n+1 redundancy</p> <p>Standard 3-phase connection for electrical redundancy</p> <p>With redundant temperature sensor integrated at the air end 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> <p>Tool-free replacement of the fan modules</p>
Function principle	<p>The hot air is drawn in from the room or hot aisle at the rear of the device and expelled at the front into the cold aisle after cooling.</p> <p>With this product, a raised floor is not necessary.</p>
Material	Sheet steel, spray-finished
Colour	RAL 7035

# Features

Options	Direct connection of additional CMC III sensors is supported Racks 2200 mm high
Design	Suite 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 Direct connection of the unit via SNMP over Ethernet Integration into RiZone
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
Air throughput (unimpeded air flow)	At 50 Hz: 4,800 m <sup>3</sup> /h
Number of fan modules in supplied state	1
Dimensions	Width: 300 mm Height: 2,000 mm Depth: 1,200 mm
To fit enclosure type	VX IT
Installation in bayed enclosure suite	Set forward
Rated operating voltage	230 V, 1~, 50 Hz/60 Hz 400 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

# Features

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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 20
Options	Direct connection of additional CMC III sensors is supported Racks 2200 mm high
Packs of	1 pc(s).
Net weight	200 kg
Gross weight	209.5 kg
Customs tariff number	84186900
ETIM 9	EC002515
ETIM 8	EC002515
ECLASS 8.0	27180712
Product description	LCP Inline CW, 30 kW, set forward, RAL 7035, WHD: 300 x 2000 x 1200 mm

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# Approvals

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Explanations	Declaration of conformity
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# Tender text

LCP Inline CW, set forward, 3312.530:

Regulatory model no.: LCP G 7A1P13SC70000

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. The LCP Inline extracts the hot air from the servers via a vented rear door.

The unit is set forward from the front of the server rack by approx. 200 mm and returns cooled air to the 19" equipment by blowing it in front of the vented doors of the server rack from the left and right.

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).

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 eight additional sensors (temperature/humidity, etc.) can be connected.

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)

Cooling output (three fans): 30 kW

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): 1490 W

Max. connected load (6 fan modules): 2990 W

Control according to server air intake temperature, realised by way of throughput regulation and EC fans with infinitely variable speed

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: 230 kg

#### Controller/interfaces:

Network port (RJ 45): Ethernet to IEEE 802.3 via 10/100BaseT with PoE

Front USB port: Mini USB for system setup

Rear USB port: For USB thumb drive for data memory up to 32 GB

Front SD-HC slot: Data memory up to 32 GB

Alarm relay output: Changeover contact for extra-low voltage (24 V DC, 1 A)

Digital inputs: 2x (terminal)

Protocols, Ethernet:

TCP/IPv4, TCP/IPv6, SNMPv1, SNMPv2c, SNMPv3, Modbus TCP, OPC ua, Telnet, SSH, (S)FTP, HTTP (S), NTP, DHCP, DNS, SMTP (S), Syslog

Eight additional sensors (temperature, humidity, etc.) can be connected

#### Software

Control according to server air intake temperature

Automatic or manual control can be selected

Remote control via SNMP, Modbus TCP, OPC ua is possible

Target value specification by way of an external temperature sensor

Water-side ?T control can be selected for efficient chiller operation

Programming of logic operations (tasks) is possible in order to automate specific processes

#### Special features:

Simple maintenance of the unit from the front and back, enabling cable channels and aisle containment to be positioned above the unit.

Tool-free fan replacement without interrupting operation

Integrated software with water-side ?T control for efficient chiller operation

For operation with a water inlet temperature below the dew point, the unit 3313.570 (300 x 2000 x 1200 mm) with patented condensate management is recommended.

Available installation height of the adjacent server rack: free (standard: 42 U)

#### Optional:

Fan module to increase cooling output: 3313.016

Touchscreen display, colour: 3311.030

Connection hose, bottom/top: 3311.040

Condensate pump: 3312.012

Rear adaptor for LCP CW Inline, set forward, 3313.530/560/570: 3312.081

Filter mat holder for LCP Inline CW: 3311.042

Filter mat for LCP Inline CW: 3311.043

Integrated spray eliminator upon request