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## SK 3343.230 Coolant Distribution Unit

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FRIEDHELM LOH GROUP



# SK 3343.230 - Coolant Distribution Unit CDU In-Rack

Liquid-to-liquid coolant distribution unit for liquid-cooled high-performance servers. The CDU In-Rack separates the building's water circuit from the refrigerant circuit of the IT equipment. This ensures that the requisite volumetric flow, pressure and quality of the cooling medium in the secondary circuit are maintained at all times.



## Features

|                                      |                                                                                        |
|--------------------------------------|----------------------------------------------------------------------------------------|
| Model No.                            | SK 3343.230                                                                            |
| Design                               | Rack cooling                                                                           |
| Material                             | Sheet steel, spray-finished                                                            |
| Colour                               | RAL 9005                                                                               |
| Supply includes                      | Ready-to-connect CDU In-Rack (4 OU)<br>Control module (1 OU)<br>TCS filter 25 µm       |
| Options                              | Filter size<br>Display                                                                 |
| Total cooling output                 | 150 kW at 6K ATD<br>200 kW at 8K ATD                                                   |
| Nominal flow rate, secondary circuit | 225 l/min: at 1.5 bar (N+1)                                                            |
| Number of pumps and Type of pump     | 3 Variable Speed Drive (VSD) centrifugal pump                                          |
| Rated operating voltage              | 48 V (DC)                                                                              |
| Type of electrical connection        | DC busbar                                                                              |
| Dimensions                           | CDU In-Rack: 548 mm x 188.5 mm x 855 mm<br>Control module: 548 mm x 46.8 mm x 853.4 mm |

# Features

|                                               |                                                                                                                                                                                |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating weight                              | 93 kg                                                                                                                                                                          |
| Water connections                             | FWS: 1 1/2" sanitary flange with tri-clamp<br>TCS: 1 1/2" sanitary flange with tri-clamp                                                                                       |
| Water supply                                  | Facility Water System (FWS): Rear<br>Technical Cooling System (TCS): Rear                                                                                                      |
| Operating temperature range of cooling medium | FWS: 10 °C...50 °C<br>TCS: 20 °C...55 °C                                                                                                                                       |
| Cooling medium                                | FWS: Water<br>TCS: Water + PG25                                                                                                                                                |
| Permissible operating pressure (p. max.)      | FWS: 10 bar<br>TCS: 5 bar                                                                                                                                                      |
| Filter secondary circuit                      | 25 µm, optional 50 µm                                                                                                                                                          |
| hot swap compatible                           | Control Module<br>Sensors                                                                                                                                                      |
| Redundant cooling                             | Pump : N+1                                                                                                                                                                     |
| Monitoring                                    | Monitoring of all system-relevant parameters such as temperature, humidity, pressure, flow rate, filter, leaks, component status                                               |
| Protocols                                     | Redfish<br>Modbus/TCP<br>HTTP, HTTPS, SSL, SSH, NTP, Telnet, TCP/IP v4, TCP/IP v6, DHCP, DNS, NTP, Syslog, SNMP v1, SNMP v2c, SNMP v3, OPC-UA, FTP/SFTP, SMTP<br>LDAP<br>RCCMD |
| Leak monitoring                               | Yes                                                                                                                                                                            |
| To fit enclosure type                         | OCP ORV3 rack                                                                                                                                                                  |
| Power consumption (max)                       | 3.2 kW                                                                                                                                                                         |
| Packs of                                      | 1 pc(s).                                                                                                                                                                       |
| Customs tariff number                         | 84158200                                                                                                                                                                       |
| Product description                           | CDU In-Rack, 150 kW at 6K ATD, 548x188.5x855 mm (WHD)                                                                                                                          |

# Approvals

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Approvals

Cyber Security Certificate