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## SK 3301.900 Overflow valve

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FRIEDHELM LOH GROUP



# SK 3301.900 - Overflow valve

Pressostat for use in the water cycle between the recooling system and the air/water heat exchanger. It prevents an increase in pump pressure in the recooling system against the closed magnetic valve of the air/water heat exchanger outside of the cooling cycle.

## Features

|                               |   |
|-------------------------------|---|
| Model No.                     | SK 3301.900   |
| Product description           | Pressostat for use in the water cycle between the recooling system and the air/water heat exchanger. It prevents an increase in pump pressure in the recooling system against the closed magnetic valve of the air/water heat exchanger outside of the cooling cycle. |
| Material                      | Brass   |
| Valve design                  | ½" bypass valve   |
| OUT_PRESSURE_ADJUSTMENT_RANGE | 2 - 12 bar  |
| Packs of                      | 1 pc(s).  |
| Net weight                    | 0.42  |
| Gross weight                  | 0.422   |
| Customs tariff number         | 84818059  |
| EAN                           | 4028177448629   |
| ETIM 9                        | EC000855  |
| ETIM 8                        | EC000855  |
| ECLASS 8.0                    | 27180704  |

## Approvals

|              |     |
|--------------|-----|
| Certificates | EAC |
|--------------|-----|

# Tender text

LCP hybrid CW 3311.900 WxHxD (mm) 800x2200x105 20 kW

The unit takes up the heat losses from IT components installed in an IT rack and thus prevents dissipation of this heat at the place of installation. The temperature of the room air is maintained at the server air inlet temperature. The integrated air/water hybrid heat exchanger with heat pipe guarantees a cooling output of up to 20 kW. Heat pipes ensure even heat distribution over the exchanger in case of inhomogeneous component installations in the rack; the IT rack is to be fitted with the air baffle plates which are available as accessories so as to form a "funnel" towards the rear and in this way to guarantee 100% heat transfer via the heat pipe, even distribution of the heat losses and thus full exploitation of the heat exchanger surface. The unit is mounted at the rear on 800 mm wide IT racks with fixings on one side. With its external frame construction, the heat exchanger does not occupy space in the rack - the full server rack is thus available for the IT equipment. Thanks to the high-performance heat exchanger and its special corrugated membrane structure with hydrophilic coating, the exhaust air flow from the servers is not impaired. The unit can be swung away from the rack in the same way as a ventilated rear door. The opening angle of the unit is 130°, also in combinations with several units in a suite. The IT components installed in the IT rack use their own fans to route the warm air flow to the air/water hybrid heat exchanger. The heat from the warm exhaust air flow from the IT components is dissipated by way of the air/water hybrid heat exchanger. No additional fans are required on the unit for the cooling of the IT components. The air/water hybrid heat exchanger results in a minimal pressure loss over the IT components. To further reduce the pressure loss on the air side, additional air baffle plates are provided for installation in the roof and floor areas in the 800 mm wide IT rack. The air baffle plates do not hinder the accessibility for cabling and mounting of the IT components. The cold water connection of the LCP hybrid is to be found in the side door frame. The connection point for the feed and return lines (DN 25, 1" internal thread) is fixed on the unit and is not turned when opening and closing. Optionally, the cold water supply to the unit can be realised by way of an external connection hose DN 25 / PN 16, length 1 m (not included in the scope of supply).

Technical data, nominal cooling output:

Sensitive cooling output: 20 kW (sensitive cooling only)

Room temperature (server inlet): 24°C

Delta T air: 15 K

Air flow rate: up to 4000 m<sup>3</sup>/h (produced by the IT components)

Inlet temperature: 15°C

Medium: Water

Water flow rate: 57 l/min

Pressure loss, water: 0.7 bar

Pressure loss, air: approx. 28 Pa

Refrigerant, heat pipe: R 134 A