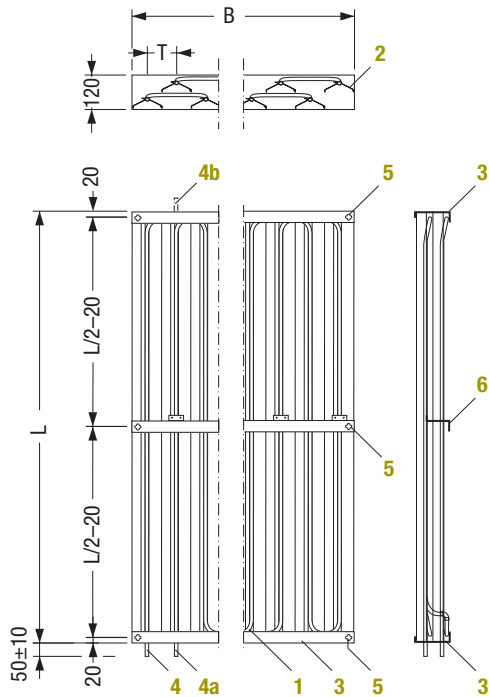


## Static cooling ceiling system SKS-4/3-duo

# Static cooling ceiling system SKS-4/3-duo



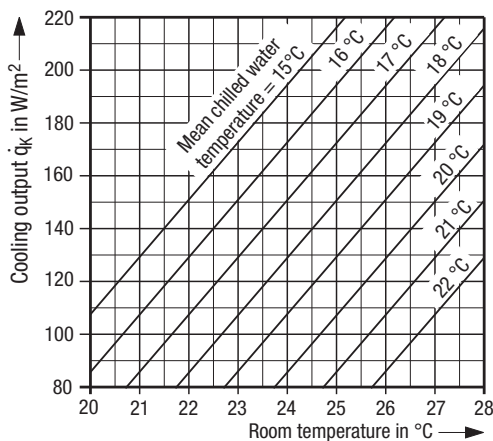
High-capacity cooling element designed for installation above open, suspended ceilings. It consists of copper serpentine piping with connections for chilled water inflow and outflow, cooling fins made from aluminium profile and endwise metal profiles for fin fastening, with mounting holes. Thanks to its design featuring an optimum arrangement of the cooling fins, this stable cooling ceiling element is ideal for spaces with rather high heat loads.

## Key:

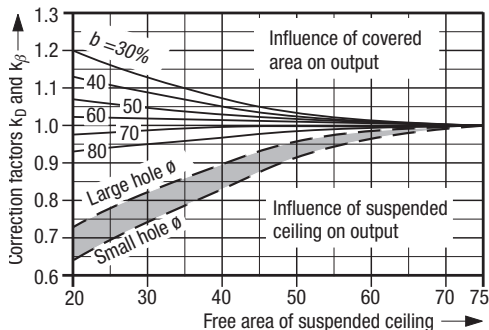
- |   |   |
|---|---|
| 1 Copper serpentine piping $\varnothing$ 12 mm  | 4a Even number of fins                                |
| 2 Cooling fin of aluminium  | 4b Odd number of fins                                 |
| 3 U-shaped frame profile of sheet metal   | 5 Mounting holes                                      |
| 4 2 chilled water connections for<br>$A_{SKS} \leq \text{approx. } 2.5 \text{ m}^2$ , otherwise 4 connections | 6 Rear fastening profile for $L \geq 3000 \text{ mm}$ |

## Features:

- Cooling output: 216 W/m<sup>2</sup> of cooling element without suspended ceiling (with reference to DIN 4715), with high heat removal by convection and radiation
- Particularly suitable for high cooling outputs for offices with rather high heat loads, TV studios, mechanical rooms, or industrial spaces
- The system uses the retention capacity of the concrete ceiling
- Design and installation of mechanical equipment and ceiling can largely occur separately
- Combinable with any air distribution system
- Excellent dynamic response
- No combustible components



Graph A: Specific cooling output  $\dot{q}_K$



Graph B: Correction factors for suspended ceiling  $k_D$  and covered area  $k_B$

## Dimensions:

- |                     |  |
|---------------------|--|
| Nominal length L:   | 1 000 mm $\leq$ L $\leq$ 4 000 mm in steps of 100 mm       |
| Nominal width B:    | 400 mm $\leq$ B $\leq$ 1 200 mm in steps of 100 mm         |
| Nominal height H:   | 120 mm   |
| Pipe spacing T:     | 100 mm   |
| Mounting height:    | $\geq$ 200 mm  |
| Surface finish:     | Powder coating to RAL (standard: RAL 9005)                 |
| Connection type:    | Pipe ends for push-in fittings or press-fitted connections |
| Operating pressure: | $\leq$ 6 bars  |
| Weight:             | approx. 13 kg/m <sup>2</sup> when filled with water        |

Taking account of the graphs on the left, the achievable cooling output  $\dot{q}$  will be calculated from  $\dot{q} = \dot{q}_K \cdot k_D \cdot k_B$ .

Technical layout data, e.g. waterside pressure drop etc., will be made available upon request.

Subject to technical alteration.