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Multifunction exposed ceiling KrantzCool

KrantzCool, an extremely flat active induction unit connected to a ceiling sail for cooling and heating on both the air side and water side, while simultaneously maintaining a fresh air supply via a central primary air system. A two-sided supply air outlet with a horizontal flow pattern allows for low room air velocities by way of the Coanda effect and a free-hanging installation close to the ceiling,

consisting of:

- a horizontally-arranged, two-part heat exchanger unit with copper pipes and horizontally-wound, vertical aluminum fins for high specific cooling and heating capacities,

- rectangular housing of the induction unit made of galvanized sheet steel, with an integrated heat exchanger and primary air connection, together with an open bottom unit for secondary air inflow with vertical side walls likewise made of galvanized sheet steel,

- primary air nozzles in two parallel rows for a horizontal flow of supply air with low indoor air velocities in the occupied zone,

- a supply air outlet inclined upwards along both long sides, together with guide elements for individual supply air adjustments,

- a combination mounting bracket for both the induction and sail units, to reduce the number of mounting points, and

- a ceiling panel element made of galvanized sheet steel, th = 0.7 mm, in accordance with TAIM quality standards; perforated, perforation Ø 2.5 mm, with perforated proportion covering approx. 16%; and inner surface coated with black acoustic fleece, visible surface powder coating in accordance with the standard RAL color pure white, similar to RAL 9010 (default). Other standard RAL colors upon request.

**Technical Specifications**

Nozzle type (4,5,6,7,8 or 10 mm): mm

Cooling capacity (water side): W

Cooling capacity (air side): W

Total cooling capacity: W

Cooling water supply temperature: °C

Cooling water return temperature: °C

Cooling water flow: l/h

Pressure loss (water side): kPa

Max. operating pressure (default, higher operating pressures upon request): 6 bar

Water quality: Suitable feed water in accordance with VDI 2035

Room air temperature: °C

Primary air volume: m³/h

Primary air temperature: °C

Pressure loss (primary air): Pa

Sound power level LWA: dB(A)

**Dimensions / Implementation**

**Induction unit**

Nominal length (1500, 1800, 2100, 2400 or 2700 mm): mm

Nominal width: 560 mm

Nominal height (standard mounting height): 200 mm

Heat exchanger: for 2-pipe system (default)

Optional for 4-pipe system

Water connection:

Calibrated pipe end on the front side 15mm,

Suitable for plug connection or for compression, Ø 15 mm

Air connection:

* Nominal diameter: DN125
* Position: front facing,
* Number of primary air nozzles: 1 piece

**Dimensions / Implementation**

**Ceiling sail**

Nominal length: Nominal length induction device +300 mm

Nominal width (default): 1000 mm

Nominal height (standard mounting height): 50 mm

Perforation: Rg 2.5-1.6 (default)

Color: white, similar to RAL 9010 (default)

**Make:** KRANTZ

**Model:** Krantz-Cool, DK-LIG-KC

Technical changes reserved.

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