

CoolRow DX 10 kW mit EC Ventilatoren SideCooler



SKU	ECDX-S-3-10-42-SR-10
Produkt Verfügbarkeit	Lieferzeit auf Anfrage
Breite/width	300
Tiefe/depth	1000
Höhe/height	2000
HE/U	42
kW	10

CoolRow DX 10 kW with EC fans - version SideCooler

The CoolRow is a highly energy-efficient and efficient in-line cooling system for cooling server rooms and data centers in a rack installation based on the cold aisle aisle concept. Powerful fans suck in warm air at the back and blow out cold at the front. The CoolRow is suitable both for a cold aisle enclosure and a warm aisle enclosure with and without raised floor. Likewise, the Coolrow DX is to operate as a side cooling device for directly cooled server racks, in addition even in a combination of two different air conditioning methods. Here, the process heat is absorbed in a highly efficient manner directly in the back of the rack and cold air is discharged forward into the server room. This adaptive functionality enables a unique indoor climate concept with the efficiency of a directly cooled server rack.

- Row cooling unit with 10 kW cooling capacity
- flexible use in cold and hot aisles
- no double floor necessary

- pressure control
- Coolants Coolant DX version
- flexible and easy to install
- Stocks can be retrofitted
- efficient inverter external device
- (WxDxH in mm) 300x1000x2000

Description and technical data of the side refrigerator:

- Self-supporting, flat housing made of galvanized sheet steel, lined inside with an abrasion-resistant, non-combustible sound and heat insulation. Extendable, regenerable air filter, filter class EU 3 (optional)
- The inner part is mounted to the side wall of the cabinet with the attached brackets.
- Low noise, sucking radial fan.
- Static and dynamically balanced impeller with forward curved blades.
- AC fan motor, 4 speeds, with operating capacitor, winding thermostat and permanently lubricated bearing, mounted vibration damped.
- Direct evaporator (air cooler) with large inflow surface made of internally grooved copper tubes with pressed-on aluminum fins and corrosion-protected condensate tray with drainage nozzle.
- Internal copper connecting pipes with flare connections and nitrogen protection filling. Complete wiring with control box, microprocessor for control, monitoring and control, as well as terminal block for connection to the outdoor unit.
- Setting the desired 4 operating speeds depending on the pressure loss of the connected channel.
- Temperature sensor in the return air and on the evaporator (icing protection). LCD infrared remote control with control buttons, including batteries.
- Cover for rarely used functions.
- Functions of the remote control: - Operating modes: On / Off, ventilation, cooling, heating, dehumidification: automatic switching of cooling / heating with neutral zone.
- Temperature: Setting the rack temperature between 16 ° C and 30 ° C.
- Fan: 4 fan speeds
- Nominal cooling capacity 10 kW - control range (min - max) (4.0 - 11.2) kW
- Nominal heating power 11.2 kW - control range (min - max) (4.0 - 12.5) kW
- Nominal conditions rack air (cool) 27/19 ° C Tk / Fk - nominal conditions rack air (heat) 20 ° C Tk
- Air flow rate (high) 1680 m³ / h - Air volume flow (medium) 1500 m³ / h - Air flow rate (low) 1320 m³ / h
- External static pressure min 45 Pa, max 90Pa
- Power supply 230V / 1 ~ / 50 Hz
- Electric power consumption max. 2800 W
- Electric current consumption max. 12.5 A
- Sound pressure level inside, max. 32 dB (A) sound pressure level inside, min. 37 dB (A)
- Refrigerant R 32
- Refrigerant connection, liquid line 3/8 "10mm - refrigerant connection, suction line 5/8" 16mm
- Dimensions: height 280 mm x width 1370 mm x depth 740 mm
- Weight 59 kg

Description and technical data Outdoor unit:

- Self-supporting housing, weatherproof, on sturdy base plate and screwed-on cover plates made of galvanized, primed and stove-enamelled sheet steel (color RAL 9002, greyish white).

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- The outer part (condenser unit) is mounted on a horizontal surface or on a wall bracket (accessory) with the fixing lugs attached to the bottom of the unit.
 - Common, low-noise condenser axial fan, statically and dynamically balanced, including exhaust grille.
 - AC fan motor with operating capacitor, winding thermostat and permanently lubricated bearings.
 - Sound-insulated, fully hermetic rotary piston compressor, mounted vibration-damped inside and outside, with oil filling.
 - Optimum temperature control through speed-controlled compressors working in electronically controlled operating point.
 - Bent condenser with large flow surface made of copper pipes with pressed-on aluminum fins, including intake grille.
 - One refrigeration circuit, internal copper connecting pipes, with refrigerant filter, EEV electronic expansion valve per circuit, reversing valves, shut-off valves with flare connections, on suction line with Schrader valve, as well as operating charge with refrigerant R 32. Complete internal wiring with terminal strips for mains connection and internal parts.
 - Cooling capacity W 10000 (4000-11200)
 - Heating power W 11200