

CoolRack Silent with cooling capacity 3.5 kW, 800+150x1000x2100 mm



SKU	CR-3.5-M-G-8-10-42-A
Produkt Verfügbarkeit	delivery time on request
Belastbarkeit in kg	
HE/U	42
Breite/width	800+150
Tiefe/depth	1000
Höhe/height	2100
kW	
Segmentation	

Directly cooled server cabinet with 42 U and sound insulation consisting of a side cooling unit in the rack / cooling capacity of 3.5 kW and a chiller for outdoor installation.

Description and technical data of the Serving cabinet:

- Base frame welded, with round and long perforation holes
- Soundproof - noise reduction approx. 38 dB
- Static load capacity up to 1548 kg
- Infinitely depth-adjustable 482,6 mm (19") mounting angles with 42 U
- Max. 482,6 mm (19") installation depth 580 mm
- 1x Sight door with three-point lock and rotary lever handle, lockable, circumferential seal, 3 pcs. Reciprocal hinges with 180° opening angle
- 1x door made of solid steel plate with three-point lock and rotary lever handle, lockable, circumferential seal, 3 pcs. Hinges with 180° opening angle
- 2x side wall in the inserting system, screwed
- Base with leveling feet
- Removable cover with ventilation slots
- Detachable cable inlet screen
- Detachable covers on the side
- Roof module with cable entry from brush strip
- Ground module with cable entry from brush strip
- Visibility and vertical airflow barrier between 482,6 mm (19") mounting angles and side wall
- Powder coating RAL 7035, light gray
- Cooling technology with inverter technology

Description and technical data of the side refrigerator:

- Self-supporting, flat housing made of galvanized steel, lined with abrasion-resistant, non-combustible sound and heat insulation. Extendable, regenerative air filter, filter class EU 3 (optional)
- The inner part is attached to the cabinet side wall using the enclosed mounting brackets.
- Low noise, sucking centrifugal fan.
- Statically and dynamically balanced impeller with forward curved blades.
- AC fan motor, 4 speeds, with operating condenser, winding thermostat and permanently lubricated bearing, vibration-damped mounted.
- Direct evaporator (air cooler) with large inflow area from inside grooved copper pipes with pressed aluminum lamellas and corrosion-protected, condensate tank with drain connection.
- Internal copper connecting leads with flange connections and nitrogen protection. Complete wiring with control box, microprocessor for control, monitoring and control as well as connection terminal strip for connection to the outdoor unit.
- Sets 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, Dehumidifying: Self-switching of cooling / heating with neutral zone.
- Temperature: Setting the rack temperature between 16 ° C and 30 ° C.
- Fan: 4 valve speeds
- Nominal cooling capacity 3.5 kW - Control range (min - max) (0.9 - 4.1) kW
- Nominal heating capacity 4.3 kW - Control range (min - max) (0.9 - 5.1) kW
- Nominal conditions Room air (cool) 27/19 ° C Tk / Fk - Nominal conditions Room air (heat) 20 ° C Tk
- Air volume flow (high) 840 m³ / h - Air volume flow (medium) 720 m³ / h - Air volume flow (low) 660 m³ / h
- External static pressure min 35 Pa, max 85Pa
- Power supply 230V / 1 ~ / 50 Hz
- Power consumption max. 1520 W
- Electric current consumption max. 7A
- Sound pressure level inside, max. 34 dB (A) Sound pressure level inside, min. 28 dB (A)
- Refrigerant R32
- Refrigerant connection, liquid line (1/4") 6mm - refrigerant connection, suction line (1/2") 12mm
- Dimensions: height 280 mm x width 750 mm x depth 635 mm
- Weight 34 kg

Description and technical data Outdoor unit:

- Self-supporting housing, weather-proof, on a stable base plate and screwed panels of galvanized, primed and enamelled steel sheet (color RAL 9002, gray-white).
- The outdoor unit (condenser unit) is mounted on a horizontal base or a wall bracket (accessory) with the mounting lugs attached to the base of the unit.
- Common, low-noise condenser axial fan, statically and dynamically balanced, including air outlet grille.
- AC fan motor with operating capacitor, winding thermostat and permanent lubricated bearings.
- Sound-insulated, full-thermal roller-piston compressor, internally and externally vibration-damped, with oil filling.
- Optimum temperature control by speed-controlled compressor operating in the electronically controlled operating point.
- Curved condenser with large inflow area made of copper tubes with pressed aluminum lamellae, incl.

- One refrigeration circuit, internal copper connection lines, with refrigerant filter, EEV Electronic expansion valve per circuit, reversing valves, shut-off valves with flare connections, suction line with Schraderventil, as well as operational filling with refrigerant R32. Complete internal wiring with connection terminals for mains connection and internal parts.
- Cooling capacity W 3500 (900-4100)
- Heating capacity W 4300 (900-5100)
- Sound pressure level dB (A) 50
- Operating voltage 1 ~ 230V-50Hz
- Power consumption Cooling W 1520 - COP / EER (energy efficiency class) 3.29 A
- Power consumption Heating W 1410 - COP / EER (energy efficiency class) 3.83 A
- Fuse, slow A 16 (together with inner part)
- Dimension: Height 640 mm x width 871 mm x depth 290 mm
- Net weight kg 38
- Refrigerant piping length max. 30 m
- Injector insulated 6 mm
- Suction pipe insulated 12 mm
- (Installation costs according to expenditure)

The following noise levels have an impact on human behavior:

- At 45 dB (A), a relaxed conversation is more difficult.
- At 50 dB (A), those affected raise their voice.
- At 60 dB (A), people affected must speak loudly.
- If the load exceeds 65 dB (A), local residents change their behavior, that is, keep windows closed and balconies are no longer used.