

CoolRack Silent with cooling capacity 14 kW, 800+150x1200x2100 mm



SKU	CR-14-M-G-8-12-42-A
Produkt Verfügbarkeit	
Belastbarkeit in kg	
HE/U	42
Breite/width	800+150
Tiefe/depth	1200
Höhe/height	2100
kW	14,00
Segmentation	

Directly cooled server cabinet with 42 U and sound insulation consisting of a side cooling unit in the rack / cooling capacity of 14 kW and a chiller for outdoor installation.

Description and technical data of the Serving cabinet:

Base frame, welded, with round round and long perforation

Soundproof - noise reduction approx. 38 dB

Static load capacity up to 1548 kg

Infinitely depth-adjustable 19 "hole angle with 42 U

Max. 19 "installation depth 780 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 19 "hole angle 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 14.0 kW - Control range (min - max) (5.0 - 14.5) kW

Nominal heating capacity 16.5 kW - Control range (min - max) (4.0 - 16.5) kW

Nominal conditions Rack circulating air (cool) 27/19 ° C Tk / Fk - Nominal conditions Rack circulating air (heating) 20 ° C Tk

Air volume flow (high) 2040 m³ / h - Air volume flow (medium) 1860 m³ / h - Air volume flow (low) 1620 m³ / h

External static pressure min 45 Pa, max 85Pa

Power supply 230V / 1 ~ / 50 Hz

Power consumption max. 4950 W

Electric current consumption max. 22.3 A

Sound pressure level inside, max. 38 dB (A) Sound pressure level inside, min. 33 dB (A)

Refrigerant R32Refrigerant 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, 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 14000 (5000-14500)

Heating capacity W 16000 (4000-16500)

Sound pressure level dB (A) 51

Operating voltage 1 ~ 230V-50Hz

Power consumption Cooling W 4950 - COP / EER (energy efficiency class) 2.83

Power consumption Heating W 4890 - COP / EER (energy efficiency class) 3,37

Fuse, slow A 25 (together with inner part)

Dimension: height 845 mm x width 970 mm x depth 370 mm

Net weight kg 81

Refrigerant piping length max. m 50

Injection pipe insulated mm 10

Suction line insulated mm 16

(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 the 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.