

CoolRack with cooling capacity of 7.1 kW, 800 +150 mmx1200x2100



SKU	CR-7.1-M-G-8-12-42
Produkt Verfügbarkeit	
Belastbarkeit in kg	
HE/U	42
Breite/width	800+150
Tiefe/depth	1200
Höhe/height	2100
kW	7.1
Segmentation	

Direct -cooled server cabinet 42U consisting of a surface cooling unit in the rack / cooling capacity of 7.1 kW and a chiller for outdoor installation.

Description and technical data in the server cabinet:

- Base frame, welded, with revolving round and Slotted
- Static load capacity up to 1548 kg
- Infinitely depth-adjustable 19" mounting angles with 42 U
- Max. 19" mounting depth 780 mm
- 1 x glazed door with three-point locking and rotating lever handle, lockable, circumferential seal, 3 x two-way hinges with 180 ° opening angle
- 1 x door made from solid steel with three-point locking and rotating lever handle, lockable, circumferential seal, 3 x two-way hinges with 180 ° opening angle
- 2 x side wall in inserting screws,
- Base with leveling feet
- Removable hood with ventilation slots
- Removable cable entry panel
- Removable trim, side
- Roof module with cable inlet from brush strip
- Base module with cable inlet from brush strip
- Modesty panels and vertical air flow barrier between 19" mounting angles and side wall
- Powder coating RAL 7035, light gray
- Cooling Technology with Inverter Technology
- Low Noise Version (CoolRack Silent) with inner lining of acoustic foam (Item No. [CR-7.1-M-G -8-12-42-A](https://www.lehmann-it.de/en/coolrack-mit-kuhlleistung-7-1-kw-800-150x1200x2100-mm.html))

Description and technical data of the side cooling device:

- Self-supporting , housing made of galvanized sheet steel, lined with an abrasion-resistant, non-flammable sound and heat insulation. Extractable, regenerable air filter, filter class EU 3 (optional)
- The inner part is mounted with the supplied fixing brackets to the cabinet side wall.
- Low-noise, inlet radial fan.
- Statically and dynamically balanced impeller with forward curved blades.
- AC fan motor, 4 speeds, with capacitor, thermal protector and permanently lubricated bearings, vibration-damped mounted.
- Direct evaporator (air cooler) with a large inflow of internally grooved copper tubes with aluminum fins and corrosion-proof, drip pan with drain connection.
- Internal copper interconnect lines with flared and nitrogen holding charge. Complete wiring with switch, microprocessor for control, monitoring and control, and terminal strip 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 the evaporator (anti-icing). Condensate pump with a height of 600mm is integrated. LCD Infrared remote control with operation buttons, including batteries.
- Cover for rarely used functions.
- Remote control features : Modes: On / Off, ventilation, cooling, heating, dehumidifying: automatic switching of cooling / heating with neutral zone.
- Temperature: Adjust the rack temperature between 16°C and 30°C.
- Fan: 4 fan speeds
- Nominal cooling capacity 7.1 kW - Control range (min - max) (3.2 to 8.0) kW
- Nominal heat output 8.0 kW - Control range (min - max) (3.6 to 9.0) kW
- Nominal conditions Rack Air (cool) 27/19°C db / wb - nominal conditions Rackluft (heating) 20°C db
- Air flow rate (high) 1200 m³/h - Air flow (medium) 1080 m³/h - Air flow rate (low) 900 m³/h
- External static pressure Pa min 45, max 85Pa
- Power supply: 230V / 1 ~ / 50 Hz
- Electric Power consumption max. 2140 W
- Electric Current consumption max. 7A
- Sound pressure level inside, max. 34 dB (A) Sound pressure level inside, min. 29 dB (A)
- Refrigerant R32
- Refrigerant Connection , Liquid Line 3/8" 10mm - Refrigerant connection, suction pipe 5/8" 16mm
- Dimensions: height 280 mm x width 950 mm x depth 635 mm
- Weight 40 kg

Description and technical data Outdoor unit:

- Self-supporting casing, weatherproof, on a stable base plate and screwed cladding panels made of galvanized, primed and coated steel sheet (RAL 9002, gray-white).
- The outdoor unit (condensing unit) is fitted with the devices attached to the bottom mounting tabs on a level surface or a wall bracket (accessory).
- Common, low-noise condenser axial fan, statically and dynamically balanced, including discharge grille.
- AC fan motor with capacitor, thermal protector and permanently lubricated bearings.
- Silenced, fully hermetic rotary compressor, mounted inside and outside shock absorbing suspension, oil-filled.
- Optimal temperature control with variable speed, operating in the electronically controlled compressor operating point.
- Curved condenser with a large inflow of copper tubes with aluminum fins, including intake grille.

- Refrigeration circuit, internal copper interconnect lines with coolant filter, EEV Electronic expansion valve per circuit, reversing valves, globe valves with flared connections on suction line Schrader valve, and operating charge of refrigerant R32.
- Complete internal wiring with terminal blocks for mains supply and internal components.
- Cooling capacity W 7100 (3200-8000)
- Heating capacity W 8000 (3600-9000)
- Sound pressure level dB (A) 51
- Power supply 1 ~ 230V-50Hz
- Power Cooling W 2140 - COP / EER (energy efficiency rating) 3.29 A
- Heating power W 2160 - COP / EER (energy efficiency rating) 3.83 A
- Fuse rating, slow 20 A (with the inner part)
- Dimensions: height 750 mm x width 968 mm x depth 340 mm
- Net weight kg 60
- Refrigerant piping length max. 30m
- Injection line isolated 10 mm
- Suction line isolated 16 mm
- (installation expenses at cost)