

EDGE COMPUTING COOL-RACK SILENT / COOLING POWER 7.1 KW, 800 + 150X1200X2100 MM



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

Direct cooled 42U high edge computing server rack with a side cooling rack unit with a cooling capacity of 7kW and a chiller for outdoor installation.

Description and technical data of the Edge Computing server rack:

- Base frame, welded, with circumferential round and slot perforation
- soundproofed - 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
- 1xDiscover door with three-point locking and rotary lever handle, lockable, all-round seal, 3 each reciprocal hinges with 180 ° opening angle

- 1x door made of solid sheet steel with three-point lock and rotary lever handle, lockable, all-round seal, 3 each reciprocal hinges with 180 ° opening angle
- 2x side wall in plug-in system, screwed
- Base with leveling feet
- removable cover with ventilation slots
- removable cable inlet cover
- removable panels on the side
- Roof module with cable inlet made of brush strip
- Floor module with cable inlet made of brush strip
- Screens and vertical air flow lock between 19 "hole angle and side wall
- Powder coating RAL 7035, light gray
- Cooling technology with inverter technology
- Dimensions WxDxH 800 + 150 mm x 1200 x 2100 mm (Article No. * 8-12-42)

Automatic door opener set for a cabinet consisting of:

- 4x electric magnets
- 2x gas springs
- 2x green illuminated LED push buttons RAL 7035

TITANUS RACK · SENS® 44.45 mm height (1 U) detection device

- 24 V supply
- integrated aspirating smoke detector with 1 detector
- Pre-alarm by default
- 5 programmable control relays 44.45 mm height (1 U)

Rack monitoring Ethernet box with connections for 12 sensors, monitoring of temperature and humidity in the IT cabinet via IP

- Plug-in power supply 230 Volt
- Display of measured values in the web browser (screenshots)
- SNMP-capable
- Software license for Windows
- 2x temperature sensor / 2x door contact sensor

UPS DAKER DK + 10kVA NO BATT UPS in double conversion / online technology.

- Nominal effective power $W = 9000$
- Kombirack housing - On Line UPS - I - RS232 - SNMP slot - LCD display
- without battery must be combined with battery rack
- Fixed connection (input / output)
- Dimensions (W x D x H) 440x132 (3HE) x680
- 10kVA battery rack
- Network SNMP adapter card for installation in free interface slot. Including 1 x RCCMD license

Description and technical data of the side cooling unit:

- 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
- Rated cooling capacity: 7.1 kW Control range (min - max) (3.2 - 8.0) kW
- Rated heating power: 8.0 kW Control range (min - max) (3, 6- 9.0) kW
- Nominal conditions Rack air (cool) 27/19 ° C Tk / Fk Nominal conditions Rack air (heat) 20 ° C Tk
- Air flow (high) 1200 m³ / h Air flow (medium) 1080 m³ / h Air flow (low) 900 m³ / h
- External static pressure min 45 Pa, max 85 Pa
- Power supply 230V / 1 ~ / 50 Hz
- Electric power consumption max. 2140 W
- Electric current consumption max. 9.2 A
- Sound pressure level inside max. 35 dB (A) Sound pressure level inside min. 29dB (A)
- Refrigerant R 410A
- Refrigerant connection, liquid line 3/8 "10mm refrigerant connection, suction line 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 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).
- The outer part (condenser unit) is mounted on a horizontal surface or on a wall bracket (accessory) using 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 of copper pipes with pressed-on aluminum fins, including intake grille.

- One refrigeration circuit, internal copper connection lines, with refrigerant filter, EEV electronic expansion valve per circuit, reversing valves, shut-off valves with flare connections, on suction line with Schrader valve and operating charge with refrigerant R410A Complete internal wiring with connection terminals for mains connection and internal parts.
- Cooling capacity: W 7100 (3200-8000)
- Heating power: W 8000 (3600-9000)
- Sound pressure level dB (A) 51
- Operating voltage 1 ~ 230V-50Hz
- Power Consumption Cooling W 2140 - COP / EER (energy efficiency class) 3.32 A
- Power consumption Heating W 2160 - COP / EER (energy efficiency class) 3,70 A
- Protection, sluggish A 20 (together with inner part)
- Dimensions: height 750 mm x width 968 mm x depth 340 mm
- Net weight kg 60
- Refrigerant pipes Length max. m 50
- Injection line insulated mm 10
- Suction line insulated mm 16
- (Installation costs at cost)

The following noise levels affect human behavior:

- Even at 45 dB (A), a relaxed conversation is more difficult.
- At 50 dB (A) sufferers raise their voices.
- At 60 dB (A), sufferers must speak aloud.
- At more than 65 dB (A) external load, residents change their behavior, ie. h., they keep windows closed and balconies are no longer used.