EDGE COMPUTING COOL-RACK WITH FIRE PROTECTION / COOLING CAPACITY 5.8 KW, 800 + 150X1200X2100 MM

SKU	ECB-5.8-RZ-G-8-12-42
Produkt Verfügbarkeit	delivery time on request
Belastbarkeit in kg	
HE/U	42
Breite/width	800+150
Tiefe/depth	1200
Höhe/height	2100
kW	5.8
Segmentation	

Direct Cooling Edge Computing 42U rack enclosure with fire enclosure consisting of a side cooling unit in the rack with a cooling capacity of 5.8 kW 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
- 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
- Server rack Dimensions: WxDxH 800 + 150 mm x 1200 x 2100 mm (Article No. * 8-12-42)

Fire resistant safety rack outside housing

Execution:

- External dimensions approx. H 2,300 B 1,100 T 1,400 m
- Internal dimension approx. H 2,216 W 1,016 T 1,316 m
- Front: 2-flgl. Door
- Back: 2-flgl. Door
- 2 pcs S90 cable bulkhead - diam. 125mm
- Design according to burglary protection class WKII
- function
- Fire resistance 90min. according to F90
- according to DIN 4102 part 2 or EI90 according to EN 13501-2
- Degree of protection according to IP54
- non-flammable according to EN13501-1 AS1d0
- construction
- Modular construction
- Surface in micro pearl with high chemical
- Resistance
- 3-fold locking safety latch locks - doors with 3D stainless steel hinges
- Integration of DIN semi-cylinders possible

material quality

- Non-combustible building material with surface coating A2-s1, d0
- chemically highly resistant and moisture-resistant surface
- Standard color light gray, similar to RAL7035 edges darkened
- delivered

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)
- Optionally available: Deletion via external extinguishing module * and external extinguishing agent containers

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 + 5000VA UPS in double conversion / online technology.

- Nominal effective power W = 5050
- Kombirack housing - On Line UPS - IEC sockets - RS232 - SNMP slot - LCD display -
- - Fixed connection (input / output) -
- no external battery
- Dimensions (W x D x H) 440x176 (4U) x680
- Network SNMP adapter card for installation in free interface slot. Including 1 x RCCMD license

19 "IEC power socket for UPS systems

- 8x
- with 10 A miniature fuse
- 10A-2300W
- 2m supply cable with IEC IEC plug

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
- Nominal cooling capacity 5,0 kW Control range (min - max) (1,1 - 5,6) kW
- Rated heating power 5.4 kW Control range (min - max) (0.6 - 6.3) kW

- Nominal conditions Rack air (cool) 27/19 ° C Tk / Fk Nominal conditions Rack air (heat) 20 ° C Tk
- Air flow (high) 840 m³ / h Air flow (medium) 720 m³ / h Air flow (low) 660 m³ / h
- External static pressure min 35 Pa, max 85 Pa
- Power supply 230V / 1 ~ / 50 Hz
- Electric power consumption max. 1520 W
- Electric current consumption max. 7 A
- Sound pressure level inside, max. 34 dB (A) Sound pressure level inside, min. 28 dB (A)
- Refrigerant R 410A
- 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, 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 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 R410A. Complete internal wiring with terminal strips for mains connection and internal parts.
- Cooling capacity W 5000 (1100-5600)
- Heating power W 5400 (600-6300)
- Sound pressure level dB (A) 54
- Operating voltage 1 ~ 230V-50Hz
- Power Consumption Cooling W 1520 - COP / EER (energy rating) 3,29 A
- Power consumption Heating W 1410 - COP / EER (energy efficiency class) 3,83 A
- Protection, sluggish A 16 (together with inner part)
- Dimensions: height 640 mm x width 871 mm x depth 290 mm
- Net weight kg 45
- Refrigerant lines: - length max. m 30
- Injection line insulated mm 6
- Suction line isolated mm 12
- (Installation costs at cost)