

MODEL: E2A-R1A-5 FULL RACK MDC

RakworX's Modular Data Centers are a prefabricated and efficient solution for 5G Macro Sites and Enterprise applications. The Natural Air Cooling system cuts energy costs dramatically – using 75% less water and 50% less energy than traditional cooling solutions. The prefabricated structure integrates multiple physical infrastructure subsystems; all components are fully inspected and tested prior to the unit being shipped out to the customer. RakworX's MDC's are easy to operate and maintain, on site or remotely.



FEATURES & BENEFITS

- Save Time & Money
- Rapid Deployment
- Stable, Reliable & Scalable
- Self-Monitoring Real-Time PLC Control
- Self-Regulating Climate Control

APPLICATIONS

- Enterprise Solutions
- Small Businesses
- Manufacturing
- Retail Stores
- Hotels
- Streaming/Gaming
- Smart Homes
- Emergency Services



Cooling Fans



Intelligent PDU's



Air & Chemical Filters



PLC Panel



NATURAL AIR COOLING MODULAR DATA CENTER FOR ENTERPRISE SOLUTIONS

MODEL: E2A-R1A-5 FULL RACK MDC

COOLING

Cooling Type: Natural Air & Evaporation
(available with DX cooling as an option)

Cooling Capacity: 5kW

Internal Operating Humidity: 10% - 95%

Internal Operating Temperature: 60.08°F ~ 80.06°F /
15.6°C ~ 26.7°C

POWER DISTRIBUTION

Nominal Input Voltage: 200-240VAC, Single Phase, 60Hz

Maximum Input Current: 50A

Power Distribution: Circuit breaker panel

PDU: Rack Mount DC PDU. API000 series. 2 per rack,
Input 110VAC. Output 48V IEC C13 x 10 & C19
x 2 Outlets

SPECIFICATIONS

Estimated Weight: 985lbs / 447kg

Maximum IT Load: 5kW

Maximum Cooling Capacity: 5kW

Physical Measurements: 42U

29.53in (W) x 47.24in (D) x 78.74in (H)

750mm (W) x 1200mm (D) x 2000mm (H)

OPERATING CONDITIONS

Elevation: 0 – 3,280ft / 1,000m

(max. 9,842ft / 3,000m derated)

Temperature: 5°F ~ 113°F / -20°C ~ 45°C

Humidity: 5% - 100% RH, non-condensing

Application: Indoor

Seismic Grade: Optional - Depends on installation site
and environment

MONITOR, CONTROL & SECURITY SYSTEMS

Data Center Management System:

Power, Cooling, Security, Environmental Monitoring
& Control, PUE Display

Serial Device Server: RS485 Connection,
TCP/IP Communication.

Monitoring Points (partial): Input voltage, Current,
Frequency, Active Power, Power, Cooling Temperature,
Cooling Operation Status, Filters, Temperature, Humidity,
Smoke, Leaks, Door Access

Warning Alert Notification (partial): Visual on PLC &
remote computer, and 65dB Alarms for Power Failure,
Over-Voltage, Current Overload, On/O_x001D_Switching,
Overheating, Water Leaks, Smoke, Filters, Doors

Door Lock: Deadbolt

Door Access: Key

Telecommunication: MODUBUS/TCP Support
(Standard), SNMP, HTTP etc.

OPTIONAL EQUIPMENT

Power Distribution: Power distribution panel

PDU: on/off switch & meter for output IEC C13 x 10 & C19 x
2

UPS: 6kVA per UPS; on-line dual conversion mode

UPS Battery Type: VRLA-extended life battery modules

UPS Backup Operating Time: 5min @ full load capacity
(adjustable)

Additional Cooling: DX (Air cooled direct expansion) 5kW

L Style Bracket: Installed to 19in / 482.6mm rack,
load 110lbs / 50kg

Blank Panels: 1U, 2U, 4U toolless mounting

Door Lock: Tactile electrical lock

Door Access: Finger print, facial recognition system

Lighting: 24V LED light, 11in / 300mm
(with on/off switch, can be connected in series)

COMPLIANCE

Battery Compatibility: EN 55022 Class A, EN 55024,
EN 61000-3-2, EN 61000-3-3

Safety Compliance: UL, TUV, EMC, CE, EN / IEC 60950-1

Environmental Certifications: ROHS, REACH
(Contains No SVHCs)

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or other product information (including but not limited to
product weight, appearance, size or other physical factors).

The information mentioned in this article is subject to change
without prior notice, as a result of product upgrades or other
causes. The product shown in the images above are strictly
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the size, options, upgrades and/or other causes.

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