## MODEL: E2A-R1A-2
### 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
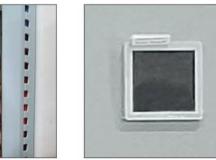  Real-Time PLC Control
• Self-Regulating
  Climate Control

## APPLICATIONS
• Enterprise Solutions
  Small Businesses
  Streaming/Gaming
  Retail Stores
  Smart Homes
• Emergency Services

**Exhaust Fans**

**Water Tank**

**Evaporative Panel**

**PLC Panel**

## MODEL: E2A-R1A-2
### FULL RACK MDC

### COOLING
**Cooling Type**: Natural Air & Evaporation
(available with DX cooling as an option)
**Cooling Capacity**: 2kW
**Internal Operating Humidity**: 10% - 95%
**Internal Operating Temperature**: 60.08ºF ~ 80.06ºF /
15.6ºC ~ 26.7ºC

### POWER DISTRIBUTION
**Nominal Input Voltage**: 110VAC, Single Phase, 60Hz
**Maximum Input Current**: 20A
**Power Distribution**: Circuit breaker power distribution panel

**PDU**: Rack Mount DC PDU,10A, API000 series. 1 per rack,

Input 110VAC. Output 48V IEC C13 x 10 & C19
x 2 Outlets

### SPECIFICATIONS
**Estimated Weight**: 2831lbs / 128kg
**Maximum IT Load**: 2kW
**Maximum Cooling Capacity**: 2kW
**Physical Measurements**:
29.53in (W) x 35.20in (D) x 45.79in (H)
750mm (W) x 894mm (D) x 1163mm (H)

### OPERATING CONDITIONS
**Elevation**: 0 – 3,280ft / 1,000m
(max. 9,842ft / 3,000m derated)
**Temperature**: 5ºF ~ 113ºF / -20ºC ~ 45ºC
**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, Temperature, Humidity,
Smoke, Door Access,etc.
**Warning Alert Notification (partial)**: Visual on PLC &
remote computer, and 65dB Alarms for Humidity &
Temperature,Low Water
**Door Lock**:Deadbolt
**Door Access**: Key
**Telecommunication**: MODUBUS/TCP Support
(Standard), SNMP, HTTP etc.

### OPTIONAL EQUIPMENT
**Power Distribution**: Smart busbar
**PDU**: on/off switch & meter for output IEC C13 x 10 & C19 x 2
**UPS**: 3kVA per UPS; on-line dual conversion mode
**UPS Battery Type**: VRLA-extended life battery modules
**UPS Backup Operating Time**: 5min @ full load capacity
(adjustable)
**L Style Bracket**: Installed to 19in / 482.6mm rack,
load 110lbs / 50kg
**Blank Panels:** 1U, 2U, 4U toolless mounting
**Hot & Cold Aisle Door Lock:** Electronic Key & Finger print
**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)