



NATURAL AIR COOLING 2kW MODULAR DATA CENTER FOR ENTERPRISE SOLUTIONS

MODEL: PRM-R1A-2 2kW 32U RACK MDC

PRIME'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. PRIME's MDCs 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 PDUs



Air & Chemical Filters



PLC Panel



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COOLING

Cooling Type: Natural Air & Evaporation
Cooling Capacity: 2kW
Internal Operating Humidity: 10% - 95%
Internal Operating Temperature:
60.08°F - 80.06°F/15.6°C - 26.7°C

POWER DISTRIBUTION

Maximum IT Load: 2kW
Nominal Input Voltage: 100-120VAC, Single Phase, 60Hz
Maximum Input Current: 30A
Power Distribution: Circuit breaker panel
PDU: Rack Mount, AC AP1000 Series, 2 per rack
Input: 100-120VAC. Output: 100-120V
Outlets: 5-20R x 16
PDU Options: On/Off switches & output meters

SPECIFICATIONS

Estimated Weight: 985lbs/447kg
Physical Measurements:
Rack Measurements: 1pc 32U
MDC Measurements:
23.62in (W) x 58.27in (D) x 76.61in (H)
600mm (W) x 1480mm (D) x 1946mm (H)

OPERATING CONDITIONS

Elevation: 0 - 3,280ft/1,000m max. 9,842ft/3,000m
Altitude over 1000 meters -
power switch capacity will reduce 1% per 100 meters
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

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, WEEE
(Contains No SVHCs)

OPTIONAL REMOTE MONITORING & CONTROL

To remotely control and monitor the MDC, an additional router will be required. The user will either need to open a network port or use a 4G card to log into a website provided by Prime, set up an account with a username & password then follow the prompts to link to the MDC.

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/Off Switching, Overheating, Water Leaks, Smoke, Filters, Doors

Telecommunication: MQTT (Standard),

Telecommunication Options: SNMP/ HTTP

ACCESS

Door Lock: Deadbolt & key

Door Lock Options: Electronic lock, Bluetooth, key card, APP

ADDITIONAL FEATURES

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

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

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

OPTIONAL UPS & BATTERY

UPS: 3kVA

UPS Battery Type: Sealed lead acid

UPS Backup Operating Time: 5min @ full load capacity

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