



NATURAL AIR COOLING 2kW MODULAR DATA CENTER FOR ENTERPRISE SOLUTIONS

MODEL: PRM-R1A-2E 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.



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



NATURAL AIR COOLING 2kW MODULAR DATA CENTER FOR ENTERPRISE SOLUTIONS

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

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: 200-240VAC, Single Phase, 50/60Hz
Maximum Input Current: 25A
Power Distribution: Circuit breaker panel
PDU: Rack Mount, AC AP1000 Series, 2 per rack
Input: 200-240VAC. Output: 200-240V
Outlets: 5-20R x 16
PDU Options: On/Off switches & output meters

SPECIFICATIONS

Estimated Weight: 484lbs/220kg
Physical Measurements:
Rack Measurements: 1pc 32U
MDC Measurements:
23.62in (W) x 48.23in (D) x 77.95in (H)
600mm (W) x 1225mm (D) x 1980mm (H)

OPERATING CONDITIONS

Elevation: 0 - 3,280ft/1,000m max. 9,842ft/3,000m
Altitude over 1,000 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

MODULE ACCESSORIES

Water hose material: Stainless steel

PLC MONITORING & CONTROL

Data Center Management System:

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

Serial Device Server:

 RS485 Connection, RTU

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, 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

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

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

Prime Wire & Cable, Inc.
Diamond Bar, CA 91765

primewirecable.com

datacenters@primewirecable.com

909.718.5258

PRIME reserves the right to change the product specifications or other product information (including but not limited to product weight, appearance, size or other physical factors) without prior notice, as a result of product upgrades or other causes. The images above are strictly for sample purposes, actual product may differ depending on the size, options, upgrades and/or other causes.

rev. 03-02282024