PRIME®

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.

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

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

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