



NATURAL AIR COOLING MODULAR DATA CENTER FOR 5G MACRO SITES & ENTERPRISE SOLUTIONS

MODEL: PRM-R2L-15 2-RACK MACRO SITE 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

- 5G Macro Sites
- Small Data Centers
- Emergency Services
- Enterprise Solutions
- Schools / Hospitals
- Financial Institutions
- Sports & Events
- Hotels
- Security & Surveillance
- Media Broadcasting
- Streaming/Gaming
- A.I.



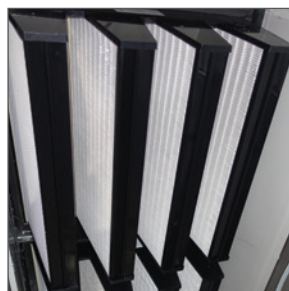
PLC Panel



Intelligent PDUs



G4 Air Filters



F8 Chemical Filters



Evaporative Panel



Cooling Fans



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COOLING

Cooling Type: Natural Air & Evaporation
Cooling Option: DX (direct expansion)
Cooling Capacity: 15kW
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: 15kW
Nominal Input Voltage: 380-415 VAC, 3PH, 50/60Hz
Maximum Input Current: 40A
Power Distribution: Circuit breaker panel
Power Distribution option: Smart busbar,
power distribution panel
PDU: Rackmount, 16A, AP1000 series, (2) per rack
Input 380-415V, output (18) C13+ (6) C19
PDU Options: On/Off switches & output meters

SPECIFICATIONS

Estimated Weight: 6724lbs/3050kg
Physical Measurements:

Rack Measurements: 2pc 42U
23.62in (W) x 23.62in (D) x 76.97in (H)
600mm (W) x 600mm (D) x 1955mm (H)

MDC Measurements:
78.74in (W) x 76.18in (D) x 85.04 (H)
2000mm (W) x 1935mm (D) x 2160mm (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 (Outdoor optional)
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 DC Server: RS485 Connection,
RTU Communication

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

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

Telecommunication: MQTT (Standard),

Telecommunication Options: SNMP/ HTTP

ACCESS

Hot & Cold Aisle Door Lock: Electronic Key
Maintenance 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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