



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

MODEL: PRM-R6GT-12 6-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



PLC Panel

APPLICATIONS

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



G4 Air Filters



Evaporative Panel



Cooling Fans



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COOLING

Cooling Type: Natural Air & Evaporation
Supplemental Cooling: 6kW DX (direct expansion)
Cooling Capacity: 12kW
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: 12kW
Nominal Input Voltage: 380-415VAC, 3 Phase, 50/60Hz
Maximum Input Current: 40A
Power Distribution: Power distribution panel

SPECIFICATIONS

Estimated Weight: 4410lbs/2000kg
Physical Measurements:

Rack Measurements: 6pc 43U
23.62in (W) x 19.69in (D) x 78.74in (H)
600mm (W) x 500mm (D) x 2000mm (H)

MDC Measurements:
98.43in (W) x 78.74in (D) x 102.36 (H)
2500mm (W) x 2000mm (D) x 2600mm (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 Device Server: RS485 Connection,
TCP/IP Communication (optional).

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, 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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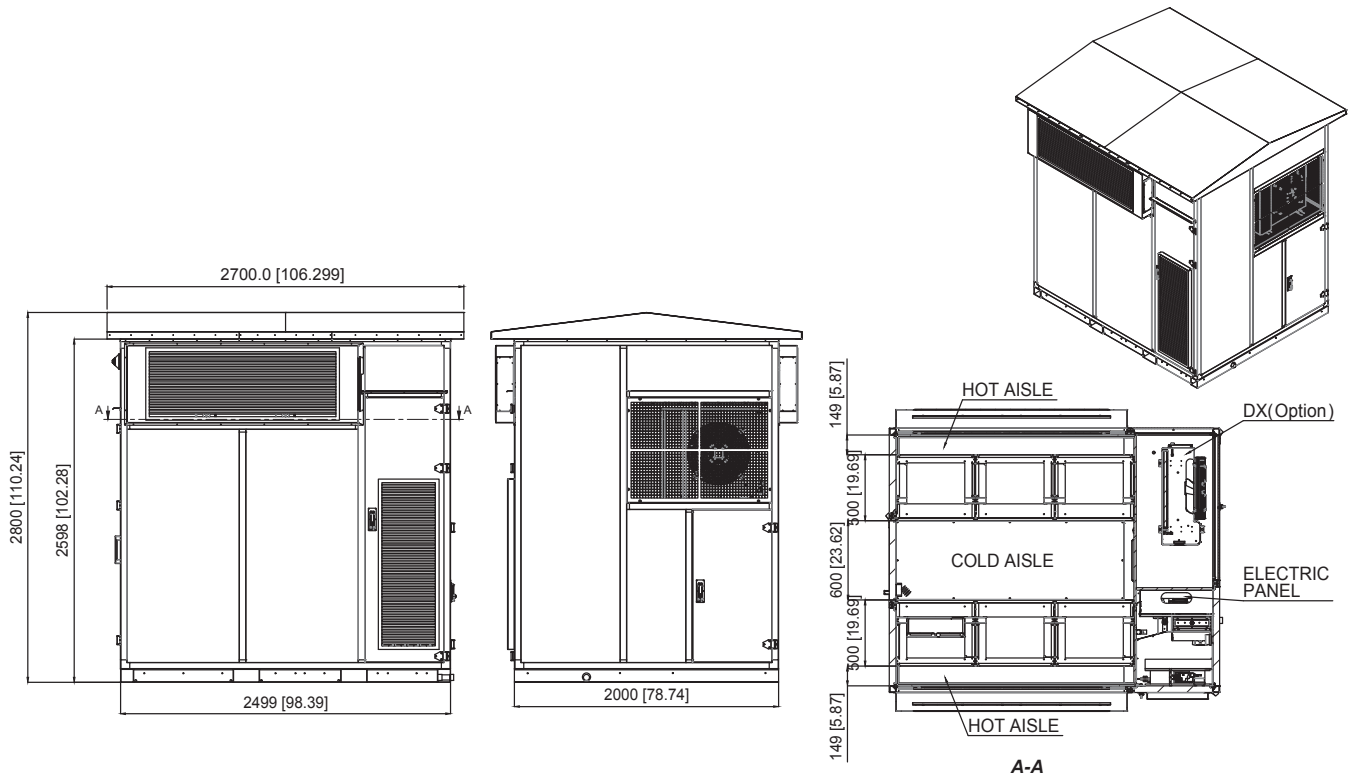
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NOTE:

1. Installation shall comply with all applicable national, state and local electrical regulations
2. Refer to the product manual for additional details prior to installation and site preparation work
3. Net weight of unit is 4410lbs (2000kg)
4. Cable entry at top and bottom of the unit
5. Front and rear service access required
6. Air flow and service requirements, as well as minimum clearance to fire suppression systems should be considered when selecting a location for the unit

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