

# MODEL: PRM-R1A-20 20kW 40U 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: 20kW 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: 20kW Nominal Input Voltage: 415VAC, 3 Phase, 50/60Hz Maximum Input Current: 50A Power Distribution: Circuit breaker panel PDU: Rack Mount, 40A, AP1000 Series, 2 per rack Input: 380-400VAC. Output: 380-400VAC Outlets: C13 x 18, C19 x 6

PDU Options: On/Off switches & output meters

#### **SPECIFICATIONS**

Estimated Weight: 1100lbs/500kg Physical Measurements: Rack Measurements: 1pc 40U MDC Measurements (Physical): 47.24in (W) x 56.1in (D) x 77.95in (H) 1200mm (W) x 1425mm (D) x 1980mm (H) MDC Measurements (Interior): 17.72in (W) x 29.53in (D) x 70.0in (H) 450mm (W) x 750mm (D) x 1778m (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

### **MODULE ACCESSORIES**

Water hose: Corrugated stainless steel tubing, 5m

### **PLC MONITORING & CONTROL**

Data Center Management System: Power, Cooling, Security, Environmental Monitoring & Control, PUE Display Serial Device Server: RS485 Connection, RTU

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:** Fingerprint, face recognition

### **ADDITIONAL FEATURES**

L Style Bracket: Installed to 19in/482.6mm rack, load 110lbs/50kg Lighting: 2pcs 24V LED light, 11in/300mm

(with on/off switch, can be connected in series)

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

primewirecable.com

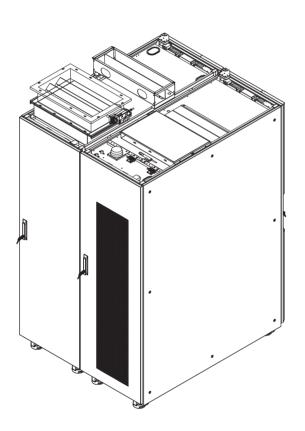
datacenters@primewirecable.com

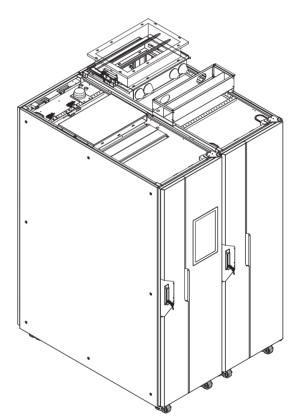
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#### NOTE:

- 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 1100 lbs/500 kg
- 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

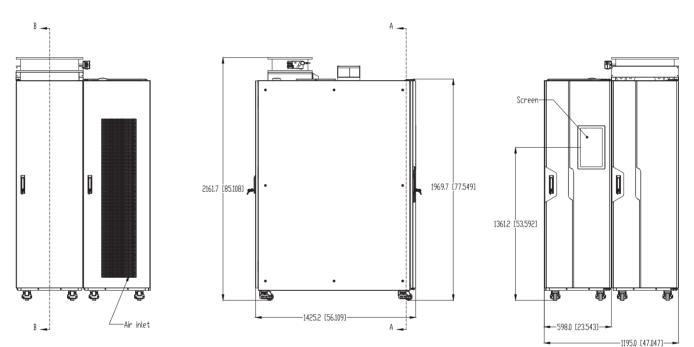
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NOTES:

1.Input Voltage 415V,60Hz: 2.Input power 20kW; 3.Indoor.

#### NOTE:

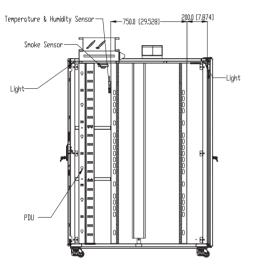
- 1. Installation shall comply with all applicable national, state and local electrical regulations
- 2. Refer to the product manual for additional details prior to installation and site preparation work
- 3. Net weight of unit is 665lbs/300kg (Main), 443lbs/200kg (Extension)
- 4. Cable entry at top and bottom of the unit
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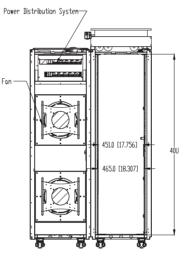




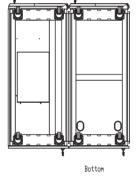
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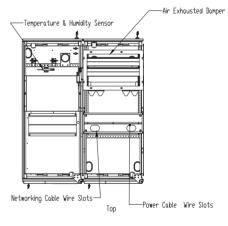


SECTION B-B



SECTION A-A





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