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The air conditioning system component requires professionally installed piping and electrical connections between the indoor cooling unit and the outdoor condenser, which mounts on a rooftop or condenser yard.

SmartRack Pre-Configured, Self-Cooling Modular Data Center - 4x 44U Racks, 3x 12 kW AC Units, Service Enclosure

MODEL NUMBER: SRP-4R-3C12-M



Combines IT rack, cooling and service enclosures to form one compact, configurable performance optimized data center (POD).

Features

Scalable Modular Data Center Promotes Quick Configuration and Lower Costs

The growth of edge computing and distributed AI has increased demand for small data centers with shorter deployment cycles, lower costs and optimized capacity. This SmartRack® Modular Data Center is composed of IT rack, cooling and service enclosures that form a performance optimized data center (POD). This solution reduces deployment time, lowers cost and simplifies the process of launching a new data center.

Easy Configuration and Scalability

The SRP-4R-3C12-M's four IT rack enclosures each house up to 44U of rack-mounted equipment on built-in rails. Three cooling enclosures come with slim 12 kW in-row cooling units (SRCOOLDXRW12) to help prevent equipment malfunctions due to overheating or fluctuating temperatures. Together, the IT rack enclosures and the data center cooling enclosures form an efficient closed-loop cooling system.

Customize Your Service Closet to Match Your Needs

The service enclosure with vented doors is empty so you can customize it according to your application's needs. For instance, it can house 3-phase UPS systems, power distribution panels, fire suppression systems or non-IT equipment that does not need to be in the environmental area of the rack and cooling unit. As your edge computing or other needs grow, you can add enclosures to the POD.

Equipment Protection

POD enclosures protect equipment from physical and environmental conditions found in factories, warehouses and other edge computing locations. Power and data cables are separated from cooling lines, protecting them from moisture. The IT rack enclosures have locking front and back doors with clear acrylic windows that allow convenient visual monitoring of equipment.

Efficient Cooling

The SRCOOLDXRW12 in-row precision cooling system includes an outdoor condenser. Removable side panels form a closed-loop cooling system with the rack enclosures to help prevent equipment malfunctions due to overheating or fluctuating temperatures. Precision cooling eliminates hot spots, prevents hot/cold mixing, reduces energy consumption, increases cooling capacity and decreases fan

Highlights

- Reduces deployment time, lowers your costs and simplifies the launching process
- Houses up to 176U of rack-mount equipment on built-in mounting rails
- Slim 12 kW in-row cooling units help prevent equipment downtime due to overheating
- Service closet with vented doors is easily customizable to match your application needs
- Ideal for edge computing, AI and machine learning, and manufacturing applications

Package Includes

SRP-4R-3C12-M SmartRack Modular Data Center



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noise. A user-friendly color touchscreen allows local access to data and status information. The built-in WEBCARDLXMINI network interface allows remote monitoring and control.

Hassle-Free Transport and Positioning

The POD's modular data center enclosures are durable enough to be transported on a standard flatbed truck. They arrive on-site ready to be populated, connected and powered. Included metal casters help you move the enclosures into their permanent position.

Simple Maintenance Access

Access to equipment is easy through the enclosures' removable, locking side panels. The cooling units' filters are user-replaceable with readily available standard-size filters.

Specifications

| OVERVIEW | |
|-----------------------------------|---------------------------|
| UPC Code | 037332287908 |
| INPUT | |
| Input Connection Type | 3-wire / 4-wire + Ground |
| Voltage Compatibility (VAC) | 208 |
| Input Frequency | 60 Hz |
| COOLING | |
| Airflow | 4,425 CFM |
| Cooling Type | Active |
| Cooling Capacity (BTUs) | 131058 |
| Cooling Capacity (kW) | 38.4 |
| Refrigerant | R410A |
| Full Cooling Specifications | Direct Expansion (DX) |
| USER INTERFACE, ALERTS & CONTROLS | |
| Front Panel LCD Display | 7-inch color touchscreen |
| PHYSICAL | |
| Color | Black |
| Rack Height | 44U |
| Maximum Device Depth (cm) | 123.70 |
| Maximum Device Depth (in.) | 48.7 |
| Maximum Device Depth (mm) | 1,237 |
| Unit Dimensions (hwd / in.) | 95.070 x 177.240 x 64.880 |
| Unit Weight (lbs.) | 5527 |
| Unit Weight (kg) | 2,507.01 |



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| | |
|---|--|
| Weight Capacity - Stationary (kg) | 1,361 |
| Weight Capacity - Stationary (lbs.) | 3000 |
| Complete Configuration Dimensions (hwd / in.) | 95.070 x 177.240 x 64.880 |
| Complete Configuration Dimensions (hwd / cm) | 241.48 x 450.19 x 164.80 |
| ENVIRONMENTAL | |
| Operating Temperature Range | 64° to 104°F (18° to 40°C) |
| Storage Temperature Range | -40° to 140°F (-40° to 60°C) |
| Operating Elevation | 0-13123 ft. (0-4000 m) |
| Audible Noise | < 68 DBA |
| Operating Humidity Range | 5 to 80% RH |
| Condensate Drain Pumps (L/HR) | 9 liters/hr per cooling units |
| Condensate Water Drains | Yes |
| FEATURES & SPECIFICATIONS | |
| Grounding Details | Front and back door frames |
| Compressor Type | Rotary (Inverter Driven) |
| Sound Level (Noise) | < 68 DBA |
| Ingress Protection (IP) Rating | IP54 |
| Built-in Cable Management | Yes |
| Fans (Type/Quantity) | EC 0-2000 RPM x 3 |
| Locking | Yes |
| Pre-Installed Casters | Yes |
| STANDARDS & COMPLIANCE | |
| Product Compliance | FCC Part 15 Class A (USA); RoHS |
| WARRANTY & SUPPORT | |
| Warranty Details | 1-year limited warranty for cooling units; 5-year limited warranty for Rack and Service Enclosure |
| COMPONENTS | |
| IT Rack Description | IT rack enclosure (44U) — Clear acrylic windows in the front and back doors allow equipment monitoring without unlocking the doors. |
| IT Rack Quantity | 4 |
| Cooling Enclosure Description | Cooling enclosure secures the cooling unit at the top and bottom via brackets, and include connections hole patterns at the top and bottom of the enclosure. |
| Cooling Enclosure Quantity | 3 |
| Service Enclosure Description | Service enclosure (800 mm wide) — Empty enclosure can be customized according to the needs of the application. |



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|----------------------------|---|
| Service Enclosure Quantity | 1 |
|----------------------------|---|

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