Powering Business Worldwide

SmartRack Self-Cooling 42U Server Rack Enclosure with Single-Phase 5.5 kW (18,766 BTU) Cooling Unit, 208V, 60 Hz

MODEL NUMBER: **SRCOOL5KWRM42U**

Helps prevent mission-critical equipment from overheating without an expensive aisle containment unit or building-based HVAC solution.

Features

Large-Capacity Self-Contained Rack-Mount Cooling Unit Ideal for Your Server Room
The SmartRack® 5.5 kW Self-Cooling Server Rack is designed for server rooms or similar single-rack installations, particularly at the edge of a network. It provides closed-loop precision cooling for reliably protecting mission-critical equipment from overheating in environments without room for a bulky in-row unit. It is also convenient for customers looking to avoid the time and expense of a more complex HVAC solution. The self-contained and close-coupled SRCOOL5KWRM42U is delivered as a kit with the cooling unit pre-installed at the bottom of the 42U rack.

5.5kW Cooling Capacity Protects Your Equipment and Prevents Expensive Downtime
This precision air conditioning system delivers 5.5 kW (18,766 BTU) of cooling to your rack equipment to help prevent sudden shutdowns, malfunctions and other failures caused by overheating or fluctuating temperatures. The SRCOOL5KWRM42U is ideal for tight-fitting edge server rooms and other mission-critical IT applications, including retail and commercial outlets (storefronts and branch offices), light industrial environments (factories and warehouses) and research/development locations (laboratories and workshops).

Rack AC Unit Focuses Cold Air Where It's Most Needed
The SRCOOL5KWRM42U uses environmentally friendly R410A refrigerant to focus cold air directly into the rack to efficiently cool equipment. Variable fan speed adjusts the cooling output to the need of the IT load to prevent on/off cycling and large temperature swings. The rack is delivered with a full set of 1U blanks pre-installed on the rack's front rails, which funnels the cold air through the IT equipment only. The 1U blanks should only be removed to install IT equipment in order to optimize the flow of cold air through IT equipment from the front of the rack to the rear of the rack. A color touchscreen LCD allows convenient status monitoring and diagnostics right at your fingertips.

Features 3 User-Selectable Condensate Removal Methods
You may choose from three condensate removal methods. Condensate evaporation is defaulted (1), but you may re-configure it to water pump removal (2) or gravity condensate removal (3) if your location has a water drain nearby. In case of a leak, the SRCOOL5KWRM42U includes internal leak detection, which will automatically turn off the cooling system to prevent condensate from entering the rack.

Commercial-Grade Components for Reliable Performance

Highlights

- 5.5kW (18.7 kBTU/hr) self-cooling rack ideal for server rooms and edge computing installations
- One-box solution: no HVAC professional required to connect separate condenser and refrigerant tubing
- Rack-mount cooling unit pre-installed at the bottom of a custom insulated 42U deep rack
- Built-in network management (SNMP) card enables full remote monitoring and control 24/7
- Intuitive 7-inch color touchscreen allows easy commissioning and diagnostics
- Self-contained, close-coupled cooling unit with single-phase 208V input power
- Rack includes pre-installed 1U blanks that optimize cold air flow though IT equipment only

Package Includes

- SRCOOL5KWRM42U Self-Cooling 42U Server Rack Enclosure
- Flexible heat exhaust duct (13 ft.) and ceiling attachment kit
- Optional input power cord (12 ft.) with NEMA L6-30P plug
- Owner's manual

With a 100-percent duty cycle, the SRCOOL5KWRM42U can run continuously without costly downtime. It uses copper tubing that is stronger than the aluminum tubing used in most consumer cooling units. The copper allows higher pressures and better weld joints to stand up to the constant vibration of the running compressor.

Emergency Vent Allows Hot Air to Vent Out During Power Emergencies
The emergency fallback ventilation system activates in the case of a cooling failure and if the inside rack temperature reaches 104°F (40°C). The emergency vents have embedded thermal sensors, which trigger the vents to open, allowing the hot air to escape the rack and protect critical IT equipment from overheating. If the emergency vents open, an alert will be sent to notify the IT manager.

Remote Network Interface Offers 24/7 Monitoring and Control
The built-in WEBCARDLXMINI network management card adds peace of mind when monitoring remotely. You can configure settings, events and actions, as well as power the unit on and off or graph temperatures over time without being on site. You can also receive configurable alarm notifications via email, SMS or SNMP. The SRCOOL5KWRM42U will restart automatically after a power failure.

Rack Enclosure Keeps Important Equipment Secure
The front door with clear acrylic windows and split rear door lock securely with the included keys to help prevent damage, tampering or theft. The bottom is designed to accommodate the cooling unit's hot air exhaust duct.

Convenient Space-Saving Design
The 12U cooling unit is rack-mounted at the bottom of the 42U enclosure to save valuable rack space for PDUs, UPS systems, servers and cabling. With 3U of clearance required above the cooling unit, 27U is available for mounting rack equipment. This unit does not require a professional HVAC contractor, as the unit is pre-charged with refrigerant. *Note: An optional 12-foot input power cable is included. Eaton offers full installation as part of a startup service part number.*

Specifications

OVERVIEW	
UPC Code	037332285195
Device Compatibility	Network Switch; PDU; Patch Panel; Server; UPS
Rack Type	Enclosure
INPUT	
Input Phase	Single-Phase
Electrical Consumption (Max)	5500 Watts
Nominal Input Voltage(s) Supported	120/208V (Split phase L1,L2,N,G)
Nominal Input Voltage Description	208V AC 60 Hz
Input Connection Type	Hardwire, Optional 12ft. Cable with L6-30P included
Input Plug Features	Hardwire
Voltage Compatibility (VAC)	208
Input Frequency	60 Hz
Input Plug Type	NEMA L6-30P
COOLING	

Airflow	470 CFM
Cooling Type	Active
Cooling Type Details	Direct Expansion (DX) refrigerant based
Cooling Capacity (BTUs)	18766
Cooling Capacity (kW)	5.5
Refrigerant	R410a (Environmentally friendly, Non ozone depleting)
Refrigerant Amount	1.2 KG

PHYSICAL	
Primary Form Factor	Rackmount
Color	Black
Material of Construction	Steel
Rack Height	42U
Rack Depth	Deep
Form Factors Supported	Rackmount
Maximum Device Depth (cm)	109.09
Maximum Device Depth (in.)	42.95
Maximum Device Depth (mm)	1,091
Usable Rack Space	27U
Shipping Form Factor	Factory Assembled
Shipping Dimensions (hwd / in.)	90.47 x 29.13 x 52.76
Shipping Dimensions (hwd / cm)	229.79 x 73.99 x 134.01
Shipping Weight (lbs.)	780.45
Shipping Weight (kg)	354.01
Unit Dimensions (hwd / in.)	82.660 x 23.620 x 47.260
Unit Dimensions (hwd / mm)	2100 x 600 x 1200
Unit Weight (lbs.)	552.26
Unit Weight (kg)	250.50
Weight Capacity - Stationary (kg)	1,361
Weight Capacity - Stationary (lbs.)	3000

ENVIRONMENTAL	
Audible Noise	65dBA

COMMUNICATIONS	
Network Management Cards	WEBCARDLXMINI

Network Management Card Description	WEBCARDLXMINI Allows full remote access and management via browser, SNMP, telnet or SSH

FEATURES & SPECIFICATIONS	
Compressor Type	ROTARY DC COMPRESSOR
Built-in Cable Management	Yes
Extra Wide	No
Locking	Yes
Pre-Installed Casters	Yes
Outdoor Use	No

STANDARDS & COMPLIANCE	
Product Certifications	CAN/CSA-C22.2 No. 60335 (Canada); NOM (Mexico); UL 60355
Product Compliance	FCC Part 15 Class A (USA); RoHS

WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty