

SmartRack[®] 18,000 BTU 208/240V Portable Air Conditioning Unit, Server Rooms & Data Centers

AL-83981



Description

The SmartRack 18,000 BTU 208/240V Portable Air Conditioning Unit cools, dehumidifies and filters the air in your server room, data center or other environment with heat-sensitive equipment. The compact, portable unit fits into just 4 square feet of floor space. It is designed for primary, supplemental or backup cooling of IT equipment to prevent shutdowns, malfunctions and costly downtime caused by overheating or fluctuating temperatures.

The self-contained AL-83981 packs 18,000 BTU/h(5.275 kW) of cooling capacity into a rack-width chassis. A built-in evaporator expels condensation through a directional exhaust duct, eliminating the need for a floor drain or water collection tank. The AL-83981 also dehumidifies and filters the air, providing better air quality that can enhance equipment performance. Efficient close-coupled cooling reduces energy use and operating costs.

Installation is quick and easy and does not require disruptive construction or the costly expense of hiring a plumber or HVAC specialist. The AL-83981 rolls into place on durable built-in casters. The NEMA L6-20P plug connects to a standard 208/240V 20A outlet. The unit restarts automatically after power failures, and a built-in timer supports unattended shutdown and startup.

By installing the optional AL-83987 network management card(sold separately), you can monitor temperatures, receive alerts, review logs, automate operation and control settings from anywhere via SNMP, web browser, SSH or telnet. The AL-83987 includes the ENVIROSENSE remote sensor, which lets you monitor temperature and humidity up to 12 feet away from the AL-83981.

Features

Portable, High-Capacity Cooling Power

- Produces 18,000 BTU/h(5.275 kW) of cooling capacity in a portable, rack-width chassis
- Prevents equipment shutdowns, malfunctions and failures caused by overheating and temperature fluctuations
- Filters and dehumidifies air to enhance equipment performance
- Uses environmentally friendly R410A refrigerant, which complies with worldwide standards
- Efficient close-coupled cooling reduces energy use and operating costs

Highlights

- 18,000 BTU/h(5.275 kW) of cooling capacity in 2 x 2 ft. footprint
- NEMA L6-20P plug connects to standard 208/240V 20A outlet
- Directs cooling through adjustable louvers or duct
- Restarts automatically after power failures
- Supports network management via optional AL-83987

Package Includes

- SmartRack 18,000 BTU 208/240V Portable Air Conditioning Unit
- (2) Grey exhaust ducts
- Black cooling duct
- (2) Exhaust duct adapters
- (2) Adjustable exhaust panels
- (4) Self-tapping screws
- Cooling duct adapter
- Louvered vent insert (preinstalled)
- (2) Drainage plugs (preinstalled)
- Owner's manual

Convenient Operation

- Adjustable louvers support area cooling applications
- Flexible output duct aims cold air where it's needed, such as an overheated rack enclosure or equipment hot spot
- Supports unattended shutdown and startup, including automatic restarts after power failures
- Easy-to-read control panel with digital display and diagnostic LEDs for local management
- System-lock function disables all other buttons to prevent accidental input

Advanced Network Monitoring

- Optional AL-83987 accessory(sold separately) allows remote monitoring of temperatures, alerts, logs and control settings from anywhere via SNMP, web browser, SSH or telnet
- AL-83987 includes ENVIROSENSE remote sensor, which monitors temperature and humidity up to 12 ft. away

Easy to Install

- Rolls into place on built-in casters
- Fits into 2 x 2 ft. section of floor space
- 6.5 ft. power cord with NEMA L6-20P plug connects to standard 208/240V 20A AC outlet
- No external condenser, refrigerant piping or professional maintenance required
- Built-in evaporator expels condensation through exhaust tube—no floor drain or water collection tank needed
- Exhaust kit removes hot air from room through drop ceiling, window or return duct
- Includes all parts required for setup

Specifications

INPUT	
Nominal Input Voltage(s) Supported	208V AC; 240V AC
Electrical Consumption	1985 Watts Max
Input Connection Type	NEMA L6-20P
Input Cord Length (ft.)	6.56
Input Cord Length (m)	2
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	Touch sensitive control panel with multiple LEDs and numerical temperature readout
PHYSICAL	
Shipping Dimensions (hwd / in.)	44.1 x 25.2 x 29.35
Shipping Dimensions (hwd / cm)	112.01 x 97.79 x 74.55
Shipping Weight (lbs.)	213.85
Shipping Weight (kg)	97

Color	Black
Form Factors Supported	Tower
ENVIRONMENTAL	
Cooling Capacity	18,000 BTU / 5.275 kW
SPECIAL FEATURES	
Dehumidifier	47.3 L/h
Compressor Type	Rotary
Refrigerant	R410a (Environmentally friendly, Non ozone depleting)
Refrigerant Amount	36.68 oz.
Air Flow	Evaporator = 634 CFM / Condenser = 640 CFM
Amp Draw Nominal	10.5A
Sound Level (Noise)	59dB
Air Supply Tube Length	71 inches
Air Exhaust Tube Length	118 inches
Air Exhaust Tube Diameter	5.16 inches
CERTIFICATIONS	
Certifications	Tested to UL484; CSA, RoHS
WARRANTY	
Product Warranty Period (Worldwide)	1-year limited warranty

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