

Vertiv™ VRC Self-Contained IT Rack Cooling System

Plug-and-Play Cooling Solution for Small IT Spaces and Edge Applications



Background

The Small but Mighty Cooling Solution Designed for Small Spaces

Server rooms and network closets are getting smaller as companies continue to experience growth at the edge and seek to maximize every square inch of space for revenue-generating activities. With critical IT equipment housed in increasingly compact footprints, cooling is becoming a growing challenge.

Until now, available cooling solutions either lacked the needed capacity, were difficult to manage, or were simply too large for small spaces housed within facilities or at the edge.

The Vertiv VRC solves these problems with a rack-based solution that packs 3,500 watts of scalable cooling capacity into an efficient, easy-to-deploy IT-grade system, saving you space, time, and money wherever you install it.

Benefits

- Reliably satisfies cooling requirements up to 3.5 kW per cabinet
- Fits into standard 2-post or 4-post racks, leaving valuable floor space free
- Reduces capital expenses and deployment costs with simple installation
- Improves efficiency and reduces operating costs with real-time cooling and capacity adjustments
- Peace of mind and ease of management with remote monitoring capabilities
- Protects your investment with 2-year out-of-the-box warranty

Efficiently solve your small space thermal management challenges with the new Vertiv™ VRC self-contained IT rack cooling system. Designed to make reliable, efficient cooling easy and affordable in small server rooms, network closets, and edge computing spaces, it provides up to 3,500 watts of scalable IT cooling in a plug-and-play design that tucks into most standard 19-inch network racks and automatically matches cooling to the load in the room, saving you space, time, and money.

Free up valuable floor space

Wherever space is at a premium, the Vertiv VRC self-contained IT rack cooling system fits the bill. The unit mounts easily within standard Electronic Industries Alliance (EIA) 19-inch network racks and works equally well with open (perforated) and solid (or plexiglass) closed-rack systems. In applications with a double ceiling, it connects to the ceiling plenum with the included integrated heat rejection system and flexible duct, moving hot air up where the building's air conditioning system can handle it. It can also be used in larger applications where heat can be discharged directly into the room.

Save energy and cut costs with real-time load matching

The Vertiv VRC is both powerful and efficient. It offers 3,500 watts of IT cooling for critical equipment and incorporates a variable speed compressor and fan to easily match heat loads in real time, reducing energy consumption while reliably meeting your changing needs.

For added peace of mind, IT managers can monitor the status of the Vertiv VRC system on the unit's display or remotely. If cooling ever falls outside of predefined thresholds, staff will receive instant notifications.

Get started right away

Pre-charged with refrigerant and shipped with a complete installation kit—including a flexible heat rejection duct, ceiling tile with an adapter for duct connection, and make-up air filter with a ceiling grille—the Vertiv VRC is easy to install. The power cord and plug make for incredibly quick deployment that can often be handled by your internal staff, allowing you to start experiencing the benefits of this all-in-one small space cooling solution immediately.

Image of accessories shipped with the unit:



Technical Specifications

System Features	VRC100KIT	VRC101KIT
Region	Americas	Americas
Input Voltage	120V/1Ph/60Hz	208V/1Ph/60Hz
Net Sensible Cooling Capacity*	3500W (12000BTU/h)	3500W (12000BTU/h)
Capacity Modulation	25 - 100%	25 - 100%
Power Plug	5-20P	L6-20P
Total Current	16.5 Amps	13.1 Amps
Refrigerant	R410A	R410A
Communications	SNMP, Modbus RTU	SNMP, Modbus RTU
Approvals	UL	UL
Standard Warranty	2 years	2 years
Occupied U space	10U	10U
Dimensions (H x D x W)	17.3 x 38.5 x 17.4 in (439 x 978 x 442 mm)	
Weight	161 lbs (73kg)	161 lbs (73kg)

* Air Temperature to IT equipment 21°C (70°F), Heat Rejection inlet air temperature 25°C (77°F)

Optional Accessories

Accessory	SKU Number	Description
2 Post Rack Mounting Kit	2POSTRMKITVRC	<i>This Kit enables Installation of the VRC unit in a 2-post rack</i>

