Vertiv™ VRC-S

Edge-Ready Micro Data Center System

Benefits

- Simplifies IT management in edge applications with a comprehensive IT solution incorporating an enclosed rack, PDU, and cooling
- Rapid, cost-effective deployment and plug-and-play installation
- Reliably protects sensitive electronics in unconditioned environments
- Increased cooling efficiency with a secure, standard IT rack
- Greater peace of mind with included software for remotely managing the entire system

Deploy a Comprehensive Data System in a Matter of Days

Busy IT managers can struggle to free up the resources needed to customize IT solutions for their edge applications. From choosing the right components to waiting for the solution to be built, the process can require more time and effort than IT managers have to spare.

The new Vertiv™ VRC-S makes it easier and faster to confidently implement and support IT wherever it is needed. A pre-integrated micro data center solution, the Vertiv VRC-S incorporates a rack power distribution unit (PDU), embedded monitoring software, and the new Vertiv™ VRC self-contained cooling kit in an enclosed standard IT rack, making it ideal for edge applications and other small spaces. The entire system ships in days and can be installed in hours, taking the legwork and headaches out of the process.

With the Vertiv VRC-S, you simply add the UPS of your choice, and the solution is ready to reliably and efficiently satisfiy your edge IT requirements.

With the new Vertiv™ VRC-S, data center managers can simplify and expedite the process of deploying a robust, comprehensive, and reliable IT solution at their edge applications or other small sites.

An enclosed IT rack with integrated power distribution and up to 3.5 kW of cooling capacity, the Vertiv VRC-S offers a plug-and-play micro data center system specifically designed to meet your small space IT needs. Just add the UPS of your choice, and in a matter of days, you can start enjoying the security and convenience of a complete, self-contained edge IT solution.

Choose the size and voltage you need from eight standard models

The Vertiv VRC-S micro data systems comes in eight pre-built standard options with four rack sizes and two voltages (120V or 208V) to choose from. Each model incorporates a pre-integrated Vertiv Geist power distribution unit (PDU) with intelligent switched outlet level monitoring across the rack, the new Vertiv™ VRC self-contained rack cooling kit, and embedded Vertiv Intelligence Director software for remote monitoring and management of all system components. Everything is enclosed in a standard IT racks. You add the UPS of your choice for a comprehensive micro data center solution suited to your edge applications and other small IT space needs.

Tap into up to 3.5kW of efficient cooling power.

The Vertiv VRC-S features the new Vertiv VRC self-contained IT rack cooling unit. The unit comes pre-charged with refrigerant and mounts in the rack, offering up to 3.5kW of energy-efficient cooling. Each model includes an integrated heat rejection system for rejecting heat into a drop ceiling. Heat may also be rejected in to the room, where it can be handled by a conventional building HVAC system. As an enclosed system, you benefit from exceptional cooling capacity and efficiency, while the cooling unit automatically adjusts to meet your cooling requirements with its variable speed components.

Get up and running fast with plug-and-play installation.

All Vertiv VRC-S models are pre-built, so they ship in days. Onsite installation is simple—install the cooling kit, add your IT equipment and UPS, plug in the power cord, and connect the equipment to your network. The micro data center is ready to power and protect your business. Installation can often be handled in-house, saving time and money. Or you can choose complete installation services provided through Vertiv's nationwide network of pre-certified, factory-trained technicians

Specifications

VRC-S SKUs:	VRCS3350-120V	VRCS3350-208V	VRCS3300-120V	VRCS3300-208V	VRCS3307-120V	VRCS3307-208V	VRCS3357-120V	VRCS3357-208V
Configured system weight	319 kg (704 lbs)	319 kg (704 lbs)	274 kg (605 lbs)	274 kg (605 lbs)	310 kg (684 lbs)	310 kg (684 lbs)	337 kg (743 lbs)	337 kg (743 lbs)
Shipping Weight	419 kg (924 lbs)	419 kg (924 lbs)	361 kg (796 lbs)	361 kg (796 lbs)	397 kg (876 lbs)	397 kg (876 lbs)	437 kg (964 lbs)	437 kg (964 lbs)
Sound[4]	52.5 dBA @ 1m	52.5 dBA @ 1m	52.5 dBA @ 1m	52.5 dBA @ 1m	52.5 dBA @ 1m	52.5 dBA @ 1m	52.5 dBA @ 1m	52.5 dBA @ 1m
Rack dimensions U; HxWxD	*42U; 2000 mm, 800 mm, 1200 mm (78.6'", 32.5'", 47.8'")*	*42U; 2000 mm, 800 mm, 1200 mm (78.6'", 32.5'", 47.8'")*	*42U; 2000 mm,600 mm, 1200 mm (78.6'", 23.6'", 47.8'")*	*42U; 2000 mm,600 mm, 1200 mm (78.6'", 23.6'", 47.8'")*	*42U; 2000 mm,600 mm, 1200 mm (78.6'", 23.6'", 47.8'")*	*42U; 2000 mm,600 mm, 1200 mm (78.6'", 23.6'", 47.8'")*	*42U; 2000 mm, 800 mm, 1200 mm (78.6'", 32.5'", 47.8'")*	*42U; 2000 mm, 800 mm, 1200 mm (78.6'", 32.5'", 47.8'")*
Cooling Kit Type:	**VRC100KIT**	**VRC101KIT**	**VRC100KIT**	**VRC101KIT**	**VRC100KIT**	**VRC101KIT**	**VRC100KIT**	**VRC101KIT**
Cooling capacity	0.9 - 3.5 kW	0.9 - 3.5 kW	0.9 - 3.5 kW	0.9 - 3.5 kW	0.9 - 3.5 kW	0.9 - 3.5 kW	0.9 - 3.5 kW	0.9 - 3.5 kW
Air Volume	750 m³/h	750 m³/h	750 m³/h	750 m³/h	750 m³/h	750 m³/h	750 m³/h	750 m³/h
VRC Input plug	NEMA 5-20P	NEMA L6-20P	NEMA 5-20P	NEMA L6-20P	NEMA 5-20P	NEMA L6-20P	NEMA 5-20P	NEMA L6-20P
Cord length	10ft (3.2 m)	10ft (3.2 m)	10ft (3.2 m)	10ft (3.2 m)	10ft (3.2 m)	10ft (3.2 m)	10ft (3.2 m)	10ft (3.2 m)
Voltage / Frequency	120 Vac, 60 Hz	208 Vac, 60 Hz	120 Vac, 60 Hz	208 Vac, 60 Hz	120 Vac, 60 Hz	208 Vac, 60 Hz	120 Vac, 60 Hz	208 Vac, 60 Hz
Full Load Amperage (FLA)	16.5 A	13.0 A	16.5 A	13.0 A	16.5 A	13.0 A	16.5 A	13.0 A
Refrigerant type (pre-charged)	R410A, 720 g	R410A, 720 g	R410A, 720 g	R410A, 720 g	R410A, 720 g	R410A, 720 g	R410A, 720 g	R410A, 720 g
VRC Form Factor	10U[1]	10U[1]	10U[1]	10U[1]	10U[1]	10U[1]	10U[1]	10U[1]
VRC-S Operating Temperature	18 °C - 30 °C (65 °F - 86 °F)	18 °C - 30 °C (65 °F - 86 °F)	18 °C - 30 °C (65 °F - 86 °F)	18 °C - 30 °C (65 °F - 86 °F)	18 °C - 30 °C (65 °F - 86 °F)	18 °C - 30 °C (65 °F - 86 °F)	18 °C - 30 °C (65 °F - 86 °F)	18 °C - 30 °C (65 °F - 86 °F)
VRC-S Operating Humidity	8 - 80 % (non-condensing)	8 - 80 % (non-condensing)	8 - 80 % (non-condensing)	8 - 80 % (non-condensing)	8 - 80 % (non-condensing)	8 - 80 % (non-condensing)	8 - 80 % (non-condensing)	8 - 80 % (non-condensing)
LCD Screen Included	YES	YES	YES	YES	YES	YES	YES	YES
Condensate Pump integrated	YES, powered via rPDU	YES, powered via rPDU	YES, powered via rPDU	YES, powered via rPDU	YES, powered via rPDU	YES, powered via rPDU	YES, powered via rPDU	YES, powered via rPDU
Condensate Pump tube length	7.5 m (24 ft)	7.5 m (24 ft)	7.5 m (24 ft)	7.5 m (24 ft)	7.5 m (24 ft)	7.5 m (24 ft)	7.5 m (24 ft)	7.5 m (24 ft)
Duct Length	3.8 m (12.4 ft)	3.8 m (12.4 ft)	3.8 m (12.4 ft)	3.8 m (12.4 ft)	3.8 m (12.4 ft)	3.8 m (12.4 ft)	3.8 m (12.4 ft)	3.8 m (12.4 ft)
Certifications	UL 484	UL 484	UL 484	UL 484	UL 484	UL 484	UL 484	UL 484
rPDU (Pre-installed in rack):	**NU30021**	**VP8641**	**NU30021**	**VP8641**	**NU30021**	**VP5870V**	**NU30021**	**VP5870V**
rPDU sub-type	Switched	Switched	Switched	Switched	Switched	Switched	Switched	Switched
rPDU type	Outlet Level Monitoring	Outlet Level Monitoring	Outlet Level Monitoring	Outlet Level Monitoring	Outlet Level Monitoring	Outlet Level Monitoring	Outlet Level Monitoring	Outlet Level Monitoring
Voltage	120 V	208 V	120 V	208 V	120 V	208 V	120 V	208 V
Full Load Amperage (FLA)	30 A	30 A	30 A	30 A	30 A	30 A	30 A	30 A
rPDU rated Max	2.7 kW	4.9 kW	2.7 kW	4.9 kW	2.7 kW	4.9 kW	2.7 kW	4.9 kW
Horizontal/Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
rPDU Input plug	NEMA L5-30P	NEMA L6-30P	NEMA L5-30P	NEMA L6-30P	NEMA L5-30P	NEMA L6-30P	NEMA L5-30P	NEMA L6-30P
Cord length	3 m (10ft)	3 m (10ft)	3 m (10ft)	3 m (10ft)	3 m (10ft)	3 m (10ft)	3 m (10ft)	3 m (10ft)
Outlets	(24) NEMA 5-20R [2]	*(20) U-Lock IEC C13 [3] (4) U-Lock IEC C19*	(24) NEMA 5-20R[2]	*(20) U-Lock IEC C13[3] (4) U-Lock IEC C19*	(24) NEMA 5-20R[2]	*(30) U-Lock IEC C13[3] (6) U-Lock IEC C19*	(24) NEMA 5-20R[2]	*(30) U-Lock IEC C13[3] (6) U-Lock IEC C19*
Vertive Intelligence Director enabled	YES	YES	YES	YES	YES	YES	YES	YES
Geist Upgradable 2.0 protocols supported	ARP, IPv4, IPv6, ICMP, ICMPv6, NDP, TCP, UDP, RSTP, STP, DNS, HTTP, HTTPS (TLSv1.2), SMTP, SMTPS, DHCP, SNMP (v1/v2c/v3), LDAP, NTP, SSH, and Syslog							
Certifications/Agency Approvals	UL & c-UL Listed 60950, RoHS Compliant, FCC Part 15 Class A Conformance							

[1] Do not block any U spaces with equipment past the rear EIA mounting rails

[2] (2) NEMA 5-20R outlets will be required and preprogrammed for the backup fan and condensate pump

[3] (2) U-Lock IEC C13 outlets will be required and preprogrammed for the backup fan and condensate pump

[4] At 60% fan speed and 40% comperessor speed

Site Requirements:

- Drain within 20' of location to accommodate the included condensate pump
- Floor must support a minimum of 1,000 lbs.
- All windows in the environment should be closed
- 3' of clearance in front and rear of rack
- Building duct access/drop ceiling for exhaust at installation location
- Utility power
- Available power receptacles required for cooling module and PDU

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