PRODUCT SPECIFICATION

Elevate DCR Series 19” Data Centre Racks Server (VDPN) 800 mm



Product Overview

Elevate DCR Series with Vented Front Door, Double Vented Rear Doors, both side panels and full airflow management.

The Elevate data centre racks are a versatile range of 800 mm wide racks designed for the data centre market and are an evolution of our successful market accepted existing rack family.

The DCR series feature the same flexibility of options and configuration with higher airflow mesh doors, airflow management baffles at the front and upgraded manual or optional electronic handles. The Server model of the DCR rack is a simplified build with plain panels, no finger management, and profiles moved forward (optimised for server installation).

There is also improved roof cable access for 64 and 125 Amp PDU Commando Plugs on both sides with full depth brush strips on the roof. Airflow management baffles also feature 2U 19” access holes with brush strips, which can be blanked using standard 19” blanks if not in use.

- Available in 42U, 47U and 52U sizes
- Airflow management baffles as standard
- High ventilation flat mesh doors front and back
- Internal adjustable jacking feet and magnetic spirit level as part of a levelling kit
- Entry/exit points in roof compatible with 16A, 32A, 64A and 125A EN60309 commando plugs
- Plain side panels and no finger cable management on 800mm Server model racks (VDPN part codes)
- 19-inch profiles moved forward to optimise server installation

Product Specifications

Feature	Values
Part Code	VDPN (Plains, No Cable Management)
Mounting profile	Front and rear
Type of profile rail	L-shaped
Number of rack units (U)	42, 47, 52
Type of ventilation	Passive
Width	800mm
Height	2000mm, 2220mm or 2440mm
Depth	1000mm, 1200mm or 1400mm
Modular spacing	19 Inch
Max. load capacity	2000kg without Feet
Front door locking system	Two-point
Rear door locking system	Three-point
Type of surface	Powder coated
RAL-number	White (9003), Black (9004)
IP-rating	IP20
Front 19" Profile Position	Sits further forward
Cable Management	No finger management
Side Panels	Plain side panels, side brushes are blanked
Airflow Management	Box style baffles around 19" profiles; adjustable front baffle plate; 2U brush cutouts (blanked with 19" panels)
Doors	80% perforated double or single doors
PDU & Power Compatibility	Supports 64/125 Amp PDUs; roof cable entry 32A
Colours Available	RAL9003 White, RAL9004 Black
Position Front Profiles	82 mm to front
Height Options	42U, 47U, 52U
Load Capacity	Up to 2000 kg, direct to floor
Electronic Handle Options	Optional Southco RFID, Euro handle, or Tanlock 3.1 biometric, or Dirak handle with iLOQ NFC technology

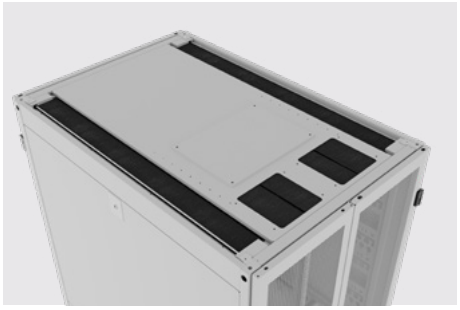




Server (VDPN)

Simplified build with plain panels, no finger management, and profiles moved forward (optimised for server installation).

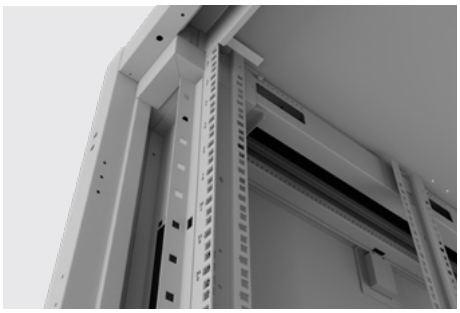
Product Features



Full length roof brushes with improved access for installing 32A commando power cables through side brushes, and 64A & 125A commando plugs through the main area. Optional covers also available.



Airflow management baffles for all racks as standard featuring overlapping brush cutouts. Baffles covers complete area around front profiles.



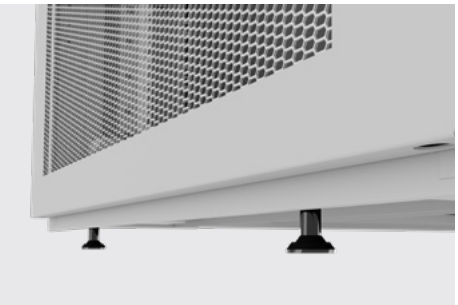
Airflow management baffles for the Server model are positioned near the front of the rack and do not feature fingers.



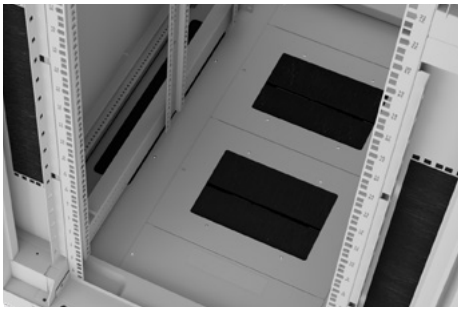
Internal adjustable jacking feet can aid levelling the cabinet with the use of an allen key (provided), allowing for adjustment on solid floors.



A magnetic spirit level helps to ensure the racks are level side-to-side and front-to-back.

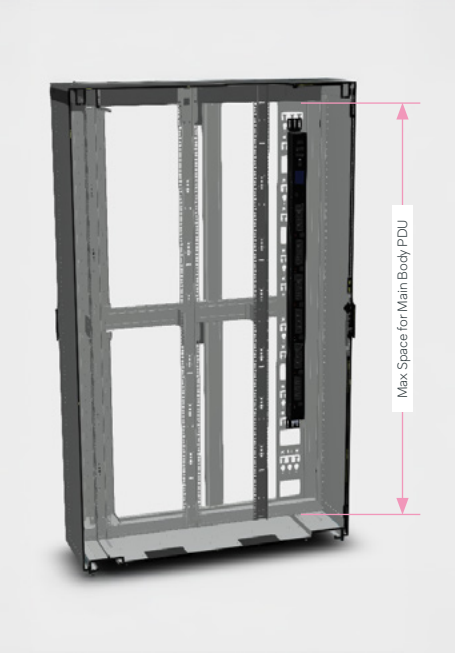


The base plates have been upgraded to brush entry plates, with optional cover plates available.



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Maximum PDU Installation Space



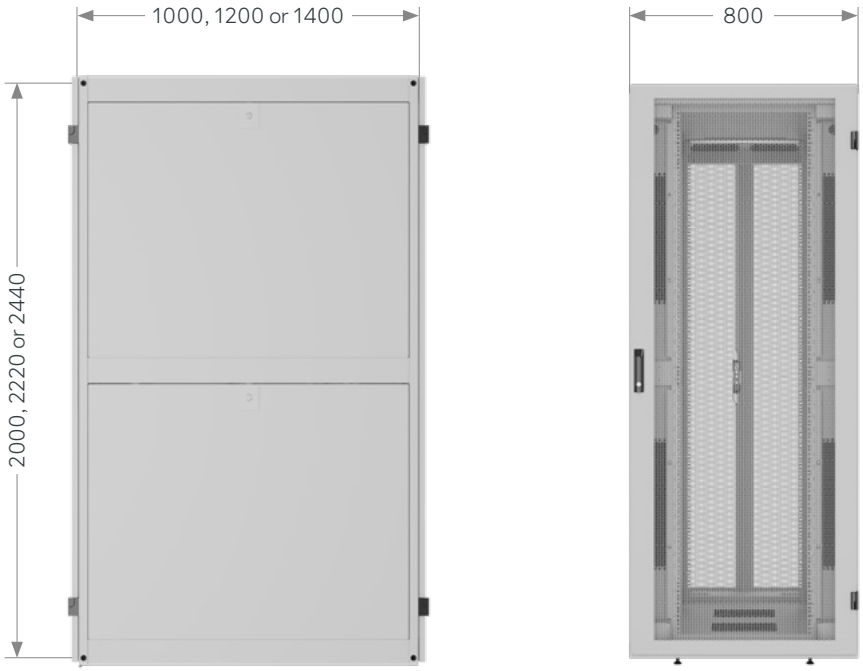
As power requirements within racks continue to increase, modern PDUs are becoming longer in overall length, which can present challenges during installation. Elevate DCR racks are designed to accommodate these demands, with defined maximum internal space allowances for the main body of the PDU based on rack height.

DCR Series - PDU Heights

Rack U Height	Available PDU Space
42	1800 mm
47	2020 mm
52	2240 mm



Product Drawing



Product Standards

Applicable standard	Description
ANSI/EIA-310-E, BS EN 60297-3-100:2009, DIN 41494 Part 1 & 7	Panel Mounting Racks For Electronics Equipments: Racks And Panels
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.
Regulation (EU) 2019/1021 (POPs)	EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states.
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
UK SI 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.



Part Number Table - Server Model - 800mm Wide

Part Number	Description
546-42810-VDPN-WH	Elevate DCR800 42U Rack 800 x 1000 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-42812-VDPN-WH	Elevate DCR800 42U Rack 800 x 1200 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-42814-VDPN-WH	Elevate DCR800 42U Rack 800 x 1400 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-47810-VDPN-WH	Elevate DCR800 47U Rack 800 x 1000 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-47812-VDPN-WH	Elevate DCR800 47U Rack 800 x 1200 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-47814-VDPN-WH	Elevate DCR800 47U Rack 800 x 1400 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-52810-VDPN-WH	Elevate DCR800 52U Rack 800 x 1000 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-52812-VDPN-WH	Elevate DCR800 52U Rack 800 x 1200 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-52814-VDPN-WH	Elevate DCR800 52U Rack 800 x 1400 mm Vented (F) D/Vented (R) Pl/Panels Server White
546-42810-VDPN-BK	Elevate DCR800 42U Rack 800 x 1000 mm Vented (F) D/Vented (R) Pl/Panels Server Black
546-42812-VDPN-BK	Elevate DCR800 42U Rack 800 x 1200 mm Vented (F) D/Vented (R) Pl/Panels Server Black
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Explore our Five Levers of Optimisation whitepaper for practical guidance on improving data centre efficiency and performance.