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VX 5309.116

Network/server rack VX IT

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VX 5309.116 - Network/server rack VX IT with vented doors, with 482.6 mm (19") mounting angles, standard

VX IT network/server enclosure, vented, for room climate control. 482.6 mm (19") interior installation with depth-variable 482.6 mm (19") mounting angles in the standard version, available in a range of size variants.





Features

Model No.	VX 5309.116
Design	Vented Standard with 482.6 mm (19") mounting angles
Material	Sheet steel Aluminium Front door: Aluminium, 1.25 mm Rear door: Sheet steel, 1.5 mm
Surface finish	Enclosure frame: Dipcoat-primed Interior installation: Spray-finished Rear door and roof: Dipcoat-primed, powder-coated Front door: Aluminium, anodised/spray-finished
Colour	Front door: Vertical sections, silver coloured and horizontal sections, RAL 9005 Interior installation, vent grille at the front: RAL 9005 Handle and hinges: RAL 9005 Enclosure frame, rear door and roof: RAL 7035

Features

Supply includes	VX enclosure frame with doors and roof plate Aluminium/sheet steel door at the front, vented (vented surface area approx. 85% perforated), 180° hinges Sheet steel rear door, vented (vented surface area approx. 85% perforated) Lock front and rear: Comfort handle for profile half-cylinders and security lock 3524 E Mounting angles, 482.6 mm (19") Spacers, height 50 mm, to raise a cover plate above the fan cut-out in the roof plate, for passive cooling (supplied loose). Not required for variants without a cut-out. 12 x 482.6 mm (19") fastener, 1 U, conductive (supplied loose) 25 multi-tooth screws, conductive (supplied loose) IPPC pallet Roof plate, multi-piece, with side cable entry in the depth, double-sided, prepared for fan mounting plate Sheet steel rear door, vented, vertically divided, 180° hinges
Dimensions	Width: 800 mm Height: 2,000 mm Depth: 1,000 mm
Units	42 U
Free mounting space to the 482.6 mm (19") level, front/rear	87 mm / 193 mm
Mounting position of the 482.6 mm (19") level	front and rear
Distance between levels as delivered	720 mm
482.6 mm (19") attachment	on depth stays, screw-fastened at the top and bottom
Design	Standard
Roof design	multi-piece, with side cable entry in the depth, double-sided, prepared for fan mounting plate
Rear door design	Sheet steel door, vented, vertically divided, 180° hinges
Front door design	Aluminium/sheet steel door, vented, one-piece, 180° hinges
Mounting angle design	482.6 mm (19") mounting angles, standard in the VX IT
Base design	Open

Features

482.6 mm (19") level(s) version	front and rear
Mounting angles position	482.6 mm (19") level, front and rear
Load capacity	15,000 N
Max. load capacity (static) per enclosure to UL 2416	12,000 N
Note	Depending on how and where it is sited, the door opening angle may vary for selected applications
Basic material	Sheet steel
Packs of	1 pc(s).
Net weight	81.15 kg
Gross weight	95 kg
PCF per pack (cradle-to-gate)	234.1 kg CO2 eq (Cat B)
Note on PCF category	Category B: PCF value (cradle-to-gate) based on the product weight, approximately calculated and self-declared
Customs tariff number	94032080
ETIM 9	EC002499
ETIM 8	EC002499
ECLASS 8.0	27180207
Product description	VX IT, 19" mounting angles, standard, front and rear, vented, WHD: 800 x 2000 x 1000 mm, 42 U

Approvals

Approvals	UL + C-UL (listed)
Certificates	Surface finish
Explanations	Manufacturer's declaration Declaration of conformity Declaration of conformity UK

Tender text

VX IT network, server and electronics enclosure, "standard" variant,
IT rack, installation height 42 U, vented aluminium sheet steel door at the front,
two-piece, vented sheet steel door at the rear.
Rack frame:
Pre-configured IT rack, comprising a torsionally rigid, welded and full symmetrical frame of rolled, 9-fold closed hollow profile, with punchin in a 25 mm pitch pattern.
Frame with integrated M6 blind rivet nuts, to enable fittings to be mounted without impairing the degree of protection. All profile edges are chamfered. Horizontal sections with integrated channel above the PU foam seal as protection for the seal.
Same profile on all sides, with two mounting levels accessible from inside and outside, for fast and space-saving interior installation.
Square holes on all sides to enable the use of cage nuts and metric screws up to M8.
Base:
Welded base frame with integrated reinforcement to enable direct boltin to the floor from inside the enclosure. Open base frame, without gland plates, for optional individual configuration with base modules from th range of accessories.
Baying possible on all sides. Static load capacity up to 15,000 N, and up to 12,000 N acc. to UL 2416.
Front and rear door:
Vented aluminium sheet steel front door, with perforated sheet steel panel, 85% free ventilation area, held in a frame of aluminium sections vertical sections silver-grey anodised,
horizontal sections painted, RAL 9005.
Door with three hinges and four-point locking rod. Door hinge can be swapped from right to left, hinge pins with integrated adjustment aid, door opening angle 240° for stand-alone enclosures, 105° with baying.
Sheet steel rear door, two-piece, vertically divided, vented. Perforate surface with 85% free ventilation area. Rear door with integrated reinforcement section on both sides, with three hinges and three-point locking rod.
Door hinge can be swapped from right to left, hinge pins with integrate door opening angle 240° for stand-alone enclosures, 160° with baying.
Baying hinges with 180° opening angle for front and rear doors availabl separately via the range of accessories.

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Both doors with comfort handle for semi-cylinder (30/10) mm, with security lock 3524 E.
Roof plate:
Multi-part roof plate with cable entry on both sides via brush strips over the whole enclosure depth. The multi-part design permits removal o the roof plate with the cabling in place, which greatly simplifies late retrofitting or modification. Roof incorporating a concealed cut-out to accommodate a fan unit for active ventilation. To support passive ventilation, the cover plate can be raised on spacer pillars, if required.
Mounting levels:
Enclosure pre-configured with two 482.6 mm (19") mounting levels, front and rear.
The total static load capacity of both mounting levels is 15,000 N.
Dynamic load capacity (moving on transport module) up to 10,000 N.
Mounting level comprising universal mounting angles for server, network and electronics applications, front and rear, depth-variable, 15 mm pitch pattern,
screw-fastened to the enclosure frame via depth stays at top and bottom
Imperial mounting levels can be positioned either symmetrically or asymmetrically with an offset to each other. Alternative mounting dimensions for 21", 23" or 24" components can also be realised.
Mounting angles front and rear, material thickness 2.0 mm, with additional pitch pattern in accordance with the standard EIA 310 E. All height units are marked on the mounting angles and numbered in opposite directions. Height unit markings on both mounting levels can be read from both inside and outside for simplified component installation.
Front mounting angles prepared for tool-free mounting of cable routing aids and organisation of structured cabling with maximum packing density.
Rear mounting angles prepared on both sides for mounting of a Power Distribution Unit (PDU) in 1 U form factor for electrical power distribution in the enclosure, avoids occupying component installation space thanks to space-saving side mounting in the zero-U space between mounting level and side panel.
Supply includes:
Practice-proven mounting accessories, such as spacers for optional raising of the cover plate, fixing accessories for 19" components comprising twelve 19" fasteners, 1 U, contacting, and 25 hexagon socket screws, conductive, with washers for thread size M5.
Potential equalisation:
All panel parts with automatic potential equalisation or prepared for

the attachment of earthing straps.
482.6 mm (19") assembly parts are supplied loose.
A potential equalisation kit is available as an accessory.
Side panels:
Side panels are not included in the scope of supply.
One-part screw-fastened variant (IP 55) as well as horizontally divided and vertically divided, hinged variant (IP 20) available via the range of accessories.
QR code:
Printed QR codes on all panel parts, the roof, doors and rating plate provide for the unambiguous marking of individual components, simplify access to relevant product information and documentation, and ensure th full traceability of single parts.
Material:
Enclosure frame, roof: Sheet steel 1.5 mm
Rear door: Sheet steel 1.5 mm
Front door: Aluminium, sheet steel 1.5 mm
482.6 mm (19") mounting angles: Sheet steel 2.0 mm
Surface finish (sheet steel):
Triple surface treatment for corrosion protection and resistance to mineral oils, lubricants, machining emulsions and solvents: Nanoceramic coating, electrophoretic dipcoat priming, textured powder coating in RA 7035/9005.
Protection classes:
Protection category according to IEC 60 529 (with mounted side panels o in a bayed suite with seals):
IP 00
Protection category according to NEMA (with mounted side panels or in a bayed suite with seals):

Surface finish:
Panel parts, doors, interior installation, painted in RAL 7035/9005
Aluminium front door, vertical, aluminium, silver-grey anodised
Aluminium front door, horizontal, aluminium, painted in RAL 9005
Aluminium front door, sheet steel panel, painted in RAL 9005
Approvals:
UL2416 NWIN (NFPA70, NFPA75)
IEC/EN 60950 (CB Certificate and Report)
IEC/EN 62368 (CB Certificate and Report)
Dimensions (WHD): 800x2000x1000 mm
Earthing measures in accordance with the risk assessment according to DIN EN 62368-1 are not required for VX IT cabinets,

therefore an earthing accessory is not included in the scope of deliver
For increased EMC requirements a potential equalization set can be purchased via the accessories programme. (5302.027 and 5302.028)
Model No: VX IT 5309.116
Manufacturer: Rittal GmbH & Co. KG