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## VX 5309.136

## Network/server rack VX IT

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ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# VX 5309.136 - Network/server rack VX IT with glazed door, IP 55, with 482.6 mm (19") mounting angles, standard

VX IT network/server enclosure, closed, for direct climate control tailored to the specific enclosure. 482.6 mm (19") interior installation with 482.6 mm (19") mounting angles in the standard version, available in a range of size variants and with a protection category of up to IP 55.



## Features

|                |   |
|----------------|---|
| Model No.      | VX 5309.136   |
| Material       | Sheet steel<br>Aluminium<br>Glazed door: Single-pane safety glass, 3 mm<br>Front door: Aluminium, 1.25 mm<br>Rear door: Sheet steel, 1.5 mm                                     |
| Surface finish | Enclosure frame: Dipcoat-primed<br>Interior installation: Spray-finished<br>Rear door and roof: Dipcoat-primed, powder-coated<br>Front door: Aluminium, anodised/spray-finished |
| General colour | RAL 7035  |

# Features

|   |   |
|---|---|
| Colour  | Enclosure frame, rear door and roof: RAL 7035<br>Front door: Vertical sections, silver coloured and horizontal sections, RAL 9005<br>Interior installation: RAL 9005<br>Handle and hinges: RAL 9005   |
| Supply includes   | VX enclosure frame with doors and roof plate<br>Glazed aluminium door at the front, 180° hinges<br>Sheet steel rear door, solid, one-piece, 130° hinges<br>Lock front and rear: Comfort handle for profile half-cylinders and security lock 3524 E<br>Mounting angles, 482.6 mm (19")<br>Roof plate, one-piece, solid<br>Base tray with gland plate, multi-piece, solid<br>Baying seal and sealing kit for gland plates (supplied loose)<br>12 x 482.6 mm (19") fastener, 1 U, conductive (supplied loose)<br>25 multi-tooth screws, conductive (supplied loose)<br>IPPC pallet |
| Dimensions  | Width: 800 mm<br>Height: 2,000 mm<br>Depth: 1,000 mm  |
| Units   | 42 U  |
| 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   | one-piece, solid  |
| Rear door design  | Sheet steel door, solid, one-piece, 130° hinges   |
| Front door design   | Glazed aluminium door, solid, one-piece, 180° hinges  |
| Mounting angle design                                       | 482.6 mm (19") mounting angles, standard in the VX IT   |

# Features

|  |  |
|--|--|
| Base design  | Base tray with gland plate, multi-piece, solid   |
| 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   |
| Protection category to IEC 60 529                    | IP 55 only in conjunction with baying seal or screw-fastened side panels                                       |
| IK Code  | IK08   |
| 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   | 109.41 kg  |
| Gross weight   | 125.4 kg   |
| PCF per pack (cradle-to-gate)                        | 308 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   |
| ECLASS 8.0   | 27180207   |
| Product description                                  | VX IT, 19" mounting angles, standard, front and rear, glazed door, WHD: 800 x 2000 x 1000 mm, 42 HE, IP 55     |

# Approvals

|           |                    |
|-----------|--------------------|
| Approvals | UL + C-UL (listed) |
|-----------|--------------------|

# Approvals

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Certificates

Negative Certificate  
Surface finish  
Protection category

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Explanations

Manufacturer's declaration  
Declaration of conformity  
Declaration of conformity UK

# Tender text

VX IT network, server enclosure, "standard" variant<(>,<)>

IT rack with high protection category, installation height 42 U, glazed door at the front<(>,<)>

one-piece, solid sheet steel door at the rear - protection category (IP 55).

Rack frame:

Pre-configured IT rack, comprising a torsionally rigid, welded and full symmetrical frame of rolled, 9-fold closed hollow profile, with punching 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 bolting to the floor from inside the enclosure. Multi-part, solid gland plate<(>,<)>

removable and exchangeable, fitted. Sealing kit for gland plates supplied loose, baying seal (IP 55) is part of baying kits.

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:

Glazed aluminium front door (IP 55) with 3 mm single-pane safety glass (ESG) held in a frame of aluminium sections, vertical sections silver-grey anodised, horizontal sections painted, RAL 9005.

Door with foamed-in seal, three hinges and four-point locking rod.

Door hinge can be swapped from right to left, hinge pins with integrate door opening angle 240° for stand-alone enclosures, 105° with baying.

One-piece, solid sheet steel rear door (IP 55), foamed-in PU seal.

Rear door with removable tubular door frame with integrated punching in a 25 mm pitch pattern and integrated hammer-head cut-outs for cable clamping, with four hinges and central four-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.

Both doors with comfort handle for semi-cylinder (30/10) mm, with

security lock 3524 E.

Roof plate:

One-part, solid screw-fastened roof plate with all-round foamed-in PU seal.

To support passive ventilation, the roof 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:

Fixing accessories for 19" components comprising twelve 19" fasteners <(>,<)>

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 the full traceability of single parts.

Material: Sheet steel, aluminium

Enclosure frame, roof: Sheet steel 1.5 mm

Rear door: Sheet steel 2.0 mm

Front door: Aluminium 1.5 mm, single-pane safety glass (ESG) 3.0 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 or in a bayed suite with seals):

IP 55

Protection category according to NEMA (with mounted side panels or in a bayed suite with seals):

TYPE12

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

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 delivery. For increased EMC requirements a potential equalization set can be purchased via the accessories programme. (5302.027 and 5302.028)

Model No: VX IT 5309.136

Manufacturer: Rittal GmbH & Co. KG