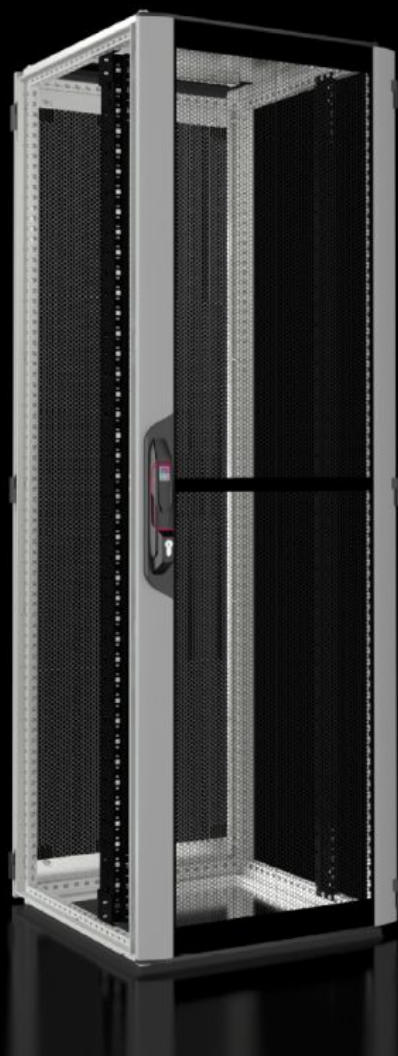


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## VX 5312.114

## Network/server rack VX IT

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# VX 5312.114 - 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 5312.114   |
| Design         | Vented<br>Standard<br>with 482.6 mm (19") mounting angles   |
| Material       | Sheet steel<br>Aluminium  |
| 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  |
| Colour         | Enclosure frame, rear door and roof: RAL 7035<br>Front door: Vertical sections, silver coloured and horizontal sections, RAL 9005<br>Interior installation, vent grille at the front: RAL 9005<br>Handle and hinges: RAL 9005 |

# Features

|   |  |
|---|--|
| Supply includes   | <p>VX enclosure frame with doors and roof plate</p> <p>Aluminium/sheet steel door at the front, vented (vented surface area approx. 85% perforated), 180° hinges</p> <p>Sheet steel rear door, vented (vented surface area approx. 85% perforated)</p> <p>Lock front and rear: Comfort handle for profile half-cylinders and security lock 3524 E</p> <p>Mounting angles, 482.6 mm (19")</p> <p>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.</p> <p>12 x 482.6 mm (19") fastener, 1 U, conductive (supplied loose)</p> <p>25 multi-tooth screws, conductive (supplied loose)</p> <p>IPPC pallet</p> <p>Roof plate, multi-piece, with side cable entry in the depth, double-sided, prepared for fan mounting plate</p> <p>Sheet steel rear door, vented, vertically divided, 180° hinges</p> |
| Dimensions  | <p>Width: 800 mm</p> <p>Height: 2,200 mm</p> <p>Depth: 800 mm</p>  |
| Units   | 47 U   |
| Free mounting space to the 482.6 mm (19") level, front/rear | 150 mm / 130 mm  |
| Mounting position of the 482.6 mm (19") level               | front and rear   |
| Distance between levels as delivered                        | 520 mm   |
| 482.6 mm (19") attachment                                   | on the cross-member, 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  | 8,000 N  |
| Max. load capacity (static) per enclosure to UL 2416 | 8,000 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   | 82.02  |
| Gross weight   | 95.4   |
| PCF per pack (cradle-to-gate)                        | 235 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 |
| EAN  | 4028177945661  |
| ETIM 9   | EC002499   |
| ETIM 8   | EC002499   |
| ECLASS 8.0   | 27180207   |

## Approvals

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

## Tender text

VX IT network, server and electronics enclosure, "standard" variant,  
IT rack, installation height 47 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 8,000 N, and u  
to 8,000 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.

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 of 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 8,000 N.

Dynamic load capacity (moving on transport module) up to 8,000 N.

Mounting level comprising universal mounting angles for server, network and electronics applications, front and rear, depth-variable, 12.5 mm pitch pattern,

screw-fastened to the enclosure frame via cross rails 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 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:

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 or in a bayed suite with seals):

IP 00

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

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#### 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 NITW (NFPA70, NFPA75)

IEC/EN 60950 (CB Certificate and Report)

IEC/EN 62368 (CB Certificate and Report)

Dimensions (WHD): 800x2200x800 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 5312.114

Manufacturer: Rittal GmbH & Co. KG