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## VX 5331.190

## Network/server rack VX IT

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FRIEDHELM LOH GROUP



# VX 5331.190 - Network/server rack VX IT with glazed door, IP 55, empty enclosure

VX IT, solid, for direct climate control tailored to the specific enclosure. Available without 482.6 mm (19") interior installation as an empty enclosure for individual configuration in a range of size variants, and with a protection category of up to IP 55.

## Features

|                 |  |
|-----------------|--|
| Model No.       | VX 5331.190  |
| Material        | Sheet steel<br>Aluminium<br>Glazed door: Single-pane safety glass, 3 mm  |
| Surface finish  | Enclosure frame: Dipcoat-primed<br>Rear door and roof: Dipcoat-primed, powder-coated<br>Front door: Aluminium, anodised/spray-finished   |
| Basic color     | RAL 7035   |
| Colour          | Enclosure frame, rear door and roof: RAL 7035<br>Front door: Vertical sections, silver coloured and horizontal sections, 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>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: 600 mm<br>Height: 2,200 mm<br>Depth: 800 mm   |

# Features

|                                   |   |
|-----------------------------------|---|
| Units                             | 47 U  |
| Units                             | 47 U  |
| 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             | without   |
| Base design                       | Base tray with gland plate, multi-piece, solid  |
| Mounting angles position          | without   |
| 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).  |
| Weight/pack                       | 86.5 kg   |
| Net weight                        | 81.5  |
| Gross weight                      | 86.5  |
| PCF/PU (Cradle-to-Gate)           | 213.1 kg CO2 eq (Cat B)   |
| Note on the PCF class             | Category B: PCF value (cradle-to-gate) approximated based on product weight and self-declared     |
| EAN                               | 4028177945609   |
| ETIM 7.0                          | EC002499  |
| ECLASS 8.0                        | 27180207  |

# Approvals

# Approvals

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|              |   |
|--------------|---|
| Approvals    | UL + C-UL (listed)  |
| Certificates | Negative Certificate<br>Surface finish<br>Protection category |
| Explanations | Declaration of conformity<br>Declaration of conformity UK     |

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# Tender text

VX IT empty enclosure for individual configuration as network, server and electronics enclosure, IT rack for protected installation of components,

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

Rack frame:

IT rack with high protection category, without pre-configured 482.6 mm (19") interior installation, comprising a torsionally rigid, welded and fully 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.

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 165° for stand-alone enclosures, 112° 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:

Empty enclosure for individual configuration, without pre-configured 482.6 mm (19") interior installation.

#### 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 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 2.0 mm

Front door: Aluminium 1.5 mm, single-pane safety glass (ESG) 3.0 mm

482.6 mm (19") mounting angles:---

#### Surface finish (sheet steel):

Triple surface treatment for corrosion protection and resistance to mineral oil, lubricants, machining emulsions and solvents:

Nanoceramic coating, electrophoretic dipcoat priming, textured powder coating in RAL 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 NITW (NFPA70, NFPA75)

IEC/EN 60950 (CB Certificate and Report)

IEC/EN 62368 (CB Certificate and Report)

Dimensions (WHD): 600x2200x800 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 5331.190

Manufacturer: Rittal GmbH & Co. KG