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## DK 5509.120

## Network/server enclosure TS IT

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FRIEDHELM LOH GROUP



# DK 5509.120 - Network/server enclosure TS IT with glazed door, with 482.6 mm (19") mounting angles

TS IT, sealed, for direct enclosure-specific climate control. 482.6 mm (19") interior installation with depth-variable 482.6 mm (19") mounting angles for a load capacity of up to 1,500 kg, available in a range of size variants.



## Features

|                |                                                                                                                           |
|----------------|---------------------------------------------------------------------------------------------------------------------------|
| Model No.      | DK 5509.120                                                                                                               |
| Material       | Sheet steel<br>Aluminium<br>Glazed door: Single-pane safety glass, 3 mm                                                   |
| Surface finish | Enclosure frame: Dipcoat-primed<br>Interior installation: Dipcoat-primed<br>Doors and roof: Dipcoat-primed, powder-coated |
| General colour | RAL 7035                                                                                                                  |
| Colour         | Enclosure frame and panels: RAL 7035<br>Interior installation: RAL 9005                                                   |

# Features

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply includes                                             | <p>TS 8 enclosure frame with doors and roof plate</p> <p>Glazed aluminium door at the front, 180° hinges</p> <p>Lock front and rear: Comfort handle for profile half-cylinders and security lock 3524 E</p> <p>Two 482.6 mm (19") mounting sections front and rear, variably mounted on support strips with quick-release fasteners</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>Connection accessories for potential equalisation with earthing point (supplied loose)</p> <p>12 x 482.6 mm (19") fastener, 1 U, conductive (supplied loose)</p> <p>50 multi-tooth screws, conductive (supplied loose)</p> <p>IPPC pallet</p> <p>Roof plate, multi-piece, removable, with side cable entry in the depth and covered cut-out for fan mounting plate</p> <p>Sheet steel rear door, solid, vertically divided, 180° hinges</p> |
| Dimensions                                                  | <p>Width: 800 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,000 mm</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Units                                                       | 42 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Units                                                       | 42 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Free mounting space to the 482.6 mm (19") level, front/rear | 87 mm / 165 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Distance between levels as delivered                        | 745 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Design doors                                                | solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 482.6 mm (19") level(s) version                             | Mounting angles, 482.6 mm (19")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Load capacity                                               | 15.000 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                                                  | 108 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

# Features

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| Gross weight          | 113 kg                                                                   |
| Customs tariff number | 94032080                                                                 |
| ETIM 9                | EC002499                                                                 |
| ECLASS 8.0            | 27180207                                                                 |
| Product description   | TS IT, 19" mounting angles, glazed door, WHD: 800 x 2000 x 1000 mm, 42 U |

# Approvals

|              |                           |
|--------------|---------------------------|
| Approvals    | UL + C-UL (listed)        |
| Certificates | Surface finish            |
| Explanations | Declaration of conformity |

# Tender text

TS IT 5509.120

TS IT network server rack for rack climate control  
IT rack for climate control. Installation height 42 U,  
glazed front door, divided sheet steel door at the  
rear, solid, multi-piece roof plate for side cable  
entry on both sides, open base frame, without side  
panels. With two 482.6 mm (19") mounting levels, front  
and rear, on depth stays.

482.6 mm (19") assembly parts and complete earthing  
kit supplied loose. Side panels, one-piece  
screw-fastened, or two-piece with quick-release  
fastener, security lock and optional internal latch,  
for easy one-man assembly, base mount, gland plates  
available from the accessories range.

Pre-configured IT rack consisting of torsionally  
stiff, welded symmetrical frame of rolled 16-fold  
vertical sections connected with two horizontal frames  
of rolled 9-fold sections with integral channel for  
accommodating the adjacent panel seal and protecting  
it against possible effect of aggressive media.

All frame sections, with integral system punchings on  
a 25 mm DIN pitch pattern, allow convenient interior  
installation by simple fitting and securing of  
equipment. All sections have chamfered edges. The  
vertical frame sections have two depth/width -  
recessed mounting levels each, which can individually  
be used for flexible attachment of the installation  
components.

Enclosures are bayable on all sides: on the left,  
right, front and rear, at the top or round corners.

Glazed front door made from 3 mm single-pane safety  
glass (ESG), framed in a frame of aluminium sections,  
with foamed-in seal,

four-point locking rod, comfort handle for  
semi-cylinder (30/10) mm, with security lock 3524.

Four hinges, with captive hinge pins, hinge opening  
angle with stand-alone siting 180°, door hinge may be  
swapped to opposite side without dismantling locking  
rods.

Sheet steel rear door, vertically divided, for space-saving installation of the enclosures and easy access to the components. Doors with foamed-in seal. Main door with four-point locking rod, comfort handle for semi-cylinder (30/10) mm, with security lock 3524 E. Adjacent door with additional internal swing lever handle and two-point locking rod. Main and adjacent door with four hinges, hinges with captive hinge pins, hinge opening angle with stand-alone sitting on both sides 180°.

Multi-piece roof plate for side cable entry via brush strips across the entire enclosure depth. Roof plate for retrofitting, removable despite already made cable routing. Cut-out for accommodating a fan module already integrated and closed by a cover. For supporting passive ventilation it is possible to raise the cover by means of spacers.

Side panels are not included with the supply.

One-piece screw-fastened or two-piece variant, with quick-release fastener including security lock and optional internal latch available from the accessories range.

Open base frame, gland plates, function units may be retrofitted from the range of accessories. All screw-fastened panels have automatic potential equalisation and are prepared for attachment of earthing straps.

Pre-configured with two 482.6 mm (19") mounting levels, front and rear.

The static total load capacity of both mounting levels is 15,000 N.

A mounting level consists of universal mounting angles for server, network and electronic applications, infinitely depth-variable attached to depth stays.

The attachment of the mounting angles is flexible, toolless, via quick release fastener or screw-fastened as an alternative.

Mounting angles, front and rear, including additional pitch pattern of holes according to standard EIA 310 E.

All height units are labelled and numbered in the opposite direction. U labelling of both mounting

levels can be read from the front for easy one-man assembly.

All depth stays with integral pitch pattern for fast determination of the mounting distance and the remaining front free space (clearance).

Front mounting angles, prepared for toolless accommodation of cable routing aids and organisation of structured cabling in maximum packaging density or for equipment with a sensor strip for automatic identification of the installed components by means of Radio Frequency Identification (RFID).

Rear mounting angles prepared for accommodation of a Power Distribution Unit (PDU) in 1 U form factor on both sides for enclosure electrical power distribution, without waste of installation volume thanks to space-saving side mounting between mounting level and side panel in the Zero-U space.

Material: Sheet steel, aluminium

Surface finish: Panels, doors, interior installation, RAL 7035/9005

Approvals: UL, cUL

Dimensions (WxHxD): 800x2000x1000 mm

Model No.: TS IT 5509.120

Manufacturer: Rittal GmbH & Co. KG