Network technology
Universal network cabinets and enclosures for network technology solutions
I. SCHÄFER IT-Systems
SCHÄFER IT-Systems – The specialists for IT Infrastructure

SCHÄFER IT-Systems – The specialists for IT infrastructure
SCHÄFER IT-Systems develops, designs and produces both standardised and customised solutions in the field of network technology, based on our company’s extensive and future-orientated expertise. In addition, SCHÄFER also supplies an extensive range of rack solutions for network applications. A comprehensive, practice-oriented range of components and accessories rounds off our product portfolio.

SCHÄFER IT-Systems – Flexible in the extreme
Extreme flexibility, top-level service and advice, fast reaction times and permanent, close contact to our customers enable us to accomplish projects on time and at short notice. We have a large number of standard IT rack types permanently in stock that can be delivered ex works within 48 hours. Accessories and replacement parts can usually be delivered within 24 hours. We can even supply individually configured IT racks reliably and punctually within 10 to 15 working days.

And we don’t simply forget about you after your order has been fulfilled. We remain in contact with you and are of course available to you at all times in case you have any questions or suggestions.

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iQdata

iQdata is the brand for complete system solutions for all your data centre needs. Thanks to iQdata, SCHÄFER IT-Systems, as an experienced specialist for IT infrastructure, can now offer you the entire product spectrum for the full-scale equipment of your data centre.

iQdata combines the renowned SCHÄFER product quality with innovative and intelligent IT solutions to make your enterprise fit for the future. With unprecedented manufacturing depth, SCHÄFER IT-Systems develops and produces its own data centre solutions and supplies you with the complete system from a single source.
The system as a whole

**Rack**
- Network and server racks
- Colocation racks
- Cable management
- Accessories

**Cooling**
- Enclosures
- Sidecoolers CW and DX
- Backcoolers
- InRackcoolers
- Accessories

**Power**
- Basic PDUs
- Smart PDUs
- Customized PDUs

**Monitoring**
- Rack monitoring systems
- Room monitoring systems
- DCIM

**Security**
- Early fire detection
- Rack extinguishing systems
- Door locking systems

**Service**
- Planning support
- Energy efficiency analyses
- Maintenance/replacement parts
- Commissioning/acceptance
- Assembly/installation
Rack

The extensive product portfolio of SCHÄFER IT-Systems’ modular rack concept scarcely leaves anything to be desired. A broad base of different racks and an extremely wide-ranging spectrum of accessories will cover almost any requirements. The flexibility of the server cabinets’ internal design combined with access from all sides (removable doors and side panels) and their use as stationary or mobile units are prime examples for the wealth of combination possibilities. Standard or individual – what performance level does your server rack have to achieve?

Cooling

In data centres, cooling can take up more than a third of total energy consumption. Cooling solutions from SCHÄFER IT-Systems provide your data centre infrastructure with highly energy-efficient cooling, leading to a sustainable reduction in costs. Our diverse product range includes self-developed side, back or in-rack coolers, as well as enclosures for cold or warm aisles. The modular architecture of our cooling solutions enables them to be adapted individually to your specific requirements. Optimised cooling – how much do you want to save?

Power

An intelligent power supply is an absolute must for your data centre. High availability and the elimination of failure rates are becoming increasingly important features. The Power Distribution Units from SCHÄFER IT-Systems are available as Basic PDUs, Smart PDUs or Customized PDUs and fulfil almost all requirements regarding socket form and numbers. The possibility for PDU cascading increases the flexibility and efficiency of your power supply even further. Thanks to permanent residual current monitoring, fewer manual inspections are needed and costs can be optimised sustainably, without compromising reliability. Always available – how reliable do you want your power supply to be?
Monitoring
Permanent status control is the basis for the smooth operation of your data centre. The intelligent sensor concept from SCHÄFER IT-Systems will significantly simplify your data centre infrastructure management (DCIM). Climate control, door management, temperature, humidity and power supply are all monitored in the racks or in the entire server room. 
Always up to date – what do you need to know?

Security
For fire detection and suppression, SCHÄFER IT-Systems has developed a 3-step safety concept to protect your data.
1. Intelligent and highly sensitive early smoke detection system
2. Automatic system shutdown
3. Optimal gas suppression
Depending on your data centre structure, both an integrated rack and room suppression solution can be implemented. Intelligent mechanical or electronic door locking systems round off the overall concept.
Safety – how sensitive is your system?

Service
The analysis is always the first step. In SCHÄFER IT-Systems’ holistic service approach, competent on-site consulting and advice are the decisive components. An energy-efficiency analysis of your data centre determines the status quo and reveals optimization potential. Commissioning and acceptance tests are also included in the service portfolio, as is on-site assembly and installation by our own team. And after installation, we continue offering you our support. If your requirements change and your company continues to grow, the modular SCHÄFER IT-Systems solutions will grow with it.
Requirements – what do you need?
II. PX Rack

Specially developed for price-conscious customers, these network and server racks are an interesting addition to the standard IS-1 rack range, thanks to their new frame design.

- Dimensions for maximum market coverage
  - Widths: 600 mm und 800 mm
  - Heights: 1,200 mm (25 U) and 2,000 mm (43 U)
  - Depths: 600 mm, 800 mm and 1,000 mm
- Static load bearing capacity: 750 kg
- Can be completely dismantled
- High quality powder coating finish in light grey RAL 7035 (gloss) on all cladding components
- Flush-mounted, easily removable panelling components
- Top cover panel with rear cable entry, brush strip covers; Prepared (pre-lasered) for more cable entry access points from front to rear (only for 800 mm widths) and up to six fans
- Base section with large opening for cable entry between 19” planes (multi-piece base section with cable entry available as option) and prepared for cable entry from the sides along the depth from front to rear (only for 800 mm widths)
- Doors with swing handle and 333 lock; can be exchanged for a standard DIN profile half cylinder (30/10); one-point locking system
- Standard 19” mounting angle for cage nuts, with height unit marking, depth adjustable
- Express range; many types available from stock

PX Rack 2.0 – the innovative improvement

- 19” mounting angles are now mounted on the depth stays
- Increased load bearing capacity from 400 kg to 750 kg
- Higher load bearing capacity without additional reinforcement
- Screw-fastened side panels
- T-handle replaced by swing handle with exchangeable DIN profile half cylinder
- Plinth no longer an integral component (available as accessory), allowing more flexibility in rooms with low ceilings
SCHÄFER PX Rack –
The standardised and efficient network cabinet

PX Rack system dimensions

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Crane transport (Lifting screws on request)

1. Knock-out brush strip panels (only on 800 mm widths)
2. Knock-out fan panels
II. PX Rack

IP20 rating
SCHÄFER PX Rack – Complete network cabinets

Economical project solutions

SCHÄFER PX Rack complete cabinets for network applications. Equipped with a front glazed door and solid rear door. Easily removable panelling, as well as generously dimensioned cable entry apertures in top and base panels guarantee excellent accessibility.

Protection rating: IP20
Frame spacing, front: 115 mm
Static load bearing capacity: 7,500 N

Material
- Basic frame: 1.50 mm steel sheet
- Doors: 0.75 mm steel sheet
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19") mounting angles: 2.00 mm steel sheet
- Glass: 3 mm SPSG

Finish
- Basic frame and cladding: powder-coated
- Interior: galvanised

Colour
- RAL 7035 light grey, gloss

Features and equipment
- 1 basic frame, demountable with integrated 25 mm mounting hole pitch pattern at the sides
- 4 galvanised 482.6 mm (19") mounting angles with square perforations at the front and sides for cage nuts in acc. with IEC 297 d EIA, incl. height unit pitch pattern and height unit labelling
- 1 flush-mounted front door, with 3 mm single pane safety glass, swing handle and profile half cylinder (30/10), EK333 lock and 1-point locking system
- 1 flush-mounted rear door, solid, with swing handle and profile half cylinder (30/10), EK333 lock and 1-point locking system
- 2 flush-mounted side panels, screw-fastened
- 1 top cover with cable entry apertures at the rear (with brush strip) and the sides (pre-lasered, only on 800 mm widths), pre-lasered knockouts for up to six fans
- 1 base section with cable entry apertures, fully open 19" plane, pre-lasered at the sides (only on 800 mm widths)
- 4 levelling feet
- 1 central earthing point

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II. PX Rack

IP20 rating
SCHÄFER PX Rack –
Network racks with rear walls

The best solutions for limited spaces
SCHÄFER PX Rack complete cabinets for network applications. Equipped with a front glazed door and solid rear wall and a choice of one or two 19” planes. Specially designed for installation on walls when space is limited. Easily removable panelling, as well as generously dimensioned cable entry apertures in top and base panels guarantee excellent accessibility.

Protection rating: IP20
Frame spacing, front: 115 mm
Static load bearing capacity: 7,500 N

Material
- Basic frame: 1.50 mm steel sheet
- Doors: 0.75 mm steel sheet
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19”) mounting angles: 2.00 mm steel sheet
- Glass: 3 mm SPSG

Finish
- Basic frame and cladding: powder-coated
- Interior: galvanised

Colour
- RAL 7035 light grey, gloss

Features and equipment
- 1 basic frame, demountable with integrated 25 mm mounting hole pitch pattern at the sides
- 2/4 (see table) galvanised 482.6 mm (19”) mounting angles with square perforations at the front and sides for cage nuts in acc. with IEC 297 d EIA, incl. height unit pitch pattern and height unit labelling
- 1 flush-mounted front door, with 3 mm single pane safety glass, swing handle and profile half cylinder (30/10), EK333 lock and 1-point locking system
- 1 flush-mounted rear wall, solid,
- 2 flush-mounted side panels, screw-fastened
- 1 top cover with cable entry apertures at the rear (with brush strip) and the sides (pre-lasered, only on 800 mm widths), pre-lasered knockouts for up to six fans
- 1 base section with cable entry apertures, fully open 19” plane, pre-lasered at the sides (only on 800 mm widths)
- 4 levelling feet
- 1 central earthing point

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II. PX Rack

IP20 rating
SCHÄFER PX Rack – Complete server cabinets

Server racks with optimum heat dissipation
SCHÄFER PX Rack complete server cabinets for applications with higher thermal loads. Equipped with passively ventilated front and rear doors. Optimized for horizontal heat dissipation.
Easily removable panelling, as well as generously dimensioned cable entry apertures in top and base panels guarantee excellent accessibility.

Protection rating: IP20
Frame spacing, front: 115 mm
Static load bearing capacity: 7,500 N

Material
- Basic frame: 1.50 mm steel sheet
- Doors: 0.75 mm steel sheet
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19") mounting angles: 2.00 mm steel sheet

Finish
- Basic frame and cladding: powder-coated
- Interior: galvanised

Colour
- RAL 7035 light grey, gloss

Features and equipment
- 1 basic frame, demountable with integrated 25 mm mounting hole pitch pattern at the sides
- 4 galvanised 482.6 mm (19") mounting angles with square perforations at the front and sides for cage nuts in acc. with IEC 297 d EIA, incl. height unit pitch pattern and height unit labelling
- 1 flush-mounted front door, with passive ventilation (Rv 3.8-4.5; rel. open area 64.7 %), 1-point locking system (sash fastener), swing handle and EK333 lock (can be exchanged for profile half cylinder 30/10)
- 1 flush-mounted rear door, with passive ventilation (Rv 3.8-4.5; rel. open area 64.7 %), 1-point locking system (sash fastener), swing handle and EK333 lock (can be exchanged for profile half cylinder 30/10)
- 2 flush-mounted side panels, screw-fastened
- 1 top cover with cable entry apertures at the rear (with brush strip) and the sides (pre-lasered, only on 800 mm widths), pre-lasered knockouts for up to six fans
- 1 base section with cable entry apertures, fully open 19" plane, pre-lasered at the sides (only on 800 mm widths)
- 4 levelling feet
- 1 central earthing point

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III. NT BOX WALL CABINETS, NT MINI RACK
The SCHÄFER NT Box system was specially developed for small networks, sub-distributors and floor distributors as a supplement to the PX Rack system.

The program includes both pre-assembled and flat-pack wall-mounted enclosures with 6 U to 21 U. The major benefits of the flat-pack Boxes are their compact packing dimensions and the fact that they can be easily assembled by one person. The optional standing feet mean that wall boxes can also be used as stand-alone housings.

For particularly cramped spaces and small office applications, there is the special SlimLine NT Box with vertical height units as well as a ventilated angled door.

The range is completed by NT Mini Rack, a compact stand-alone housing with ventilated doors for simple server applications.

Your benefits

- Optimum accessibility
- Specially developed for smaller networks, sub-distributors and floor distributors
- Low-cost and modular design
- Quick and easy assembly
High-grade steel housing (light grey RAL 7035) with complete range of basic equipment

- Optimum accessibility for fast installation: once the door is open, the side panels can be pulled forward
- Mounted ready for installation, glazed door at front, incl. lock, 482.6 mm (19”) mounting angles at front, cable entry apertures in top and bottom and cable management rails
- Individual units in separate transport packaging
- Depths of 400, 500 and 600 mm
- Heights from 6 – 21 U
- Door opening angle: 110 °

The NT Box was developed for wall mounting, especially for small networks, sub-distributors and floor distributors. The major practical problem of accessibility is solved by the fact that the door can be very quickly removed once opened, allowing the side panels to be slid out forwards. This way, the housing is easily accessible from three sides and allows all components to be installed easily.

To change the doors from left to right-hand opening, simply lift out the hinge pins and replace them in the fixings provided.

Cable entry apertures with brush strips are fitted in the top and bottom panels and can be replaced by flange plates on request.

The side panels are passively ventilated.

The integrated 482.6 mm (19”) mounting angles can be installed either at the front or rear and are depth adjustable. All NT Boxes and the provided accessories follow the plug & play principle. All NT Boxes can also be placed on the floor, whether they are fitted with feet or not.

Material
- Framework: 1.25 mm steel sheet
- Door: 4 mm single pane safety glass panel
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19”) mounting angles: 1.50 mm steel sheet

Finish
- Framework, side panels: powder coated in RAL 7035 light grey
- 482.6 mm (19”) mounting angles: galvanised

Locking
- Locking with sash-fastener and EK333 lock. Swing handle for profile half cylinder (available as an option, see page 33)

Cable entry
- Depth: 35 mm, length: 400 mm

Scope of delivery
- 1 framework housing with 2 brush strips
- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- 2 x 482.6 mm (19”) mounting angles, front
- 1 cable support rail
- Earthing kit, supplied

Load-bearing capacity
- NT Boxes have a load bearing capacity of 3 kg per height unit

Useable internal space
- Box depth minus 55 mm

Cable entry dimensions (D x W)
- 90 x 400 mm
SCHÄFER NT Box – Compact and economical

After opening the door and removing the red securing ring, the door can be raised and removed easily. Then, the side panels can be slid out forwards without tools. When the door is closed, the side panels cannot be removed.

For cable entry, every NT Box has brush strips as standard, which can be exchanged for flange plates with fans, if required.

In the rear panel, there is a cable support rail as standard for use with cable ties. Brush strips can be retrofitted as an option.

Each individual NT Box unit is delivered in its own high-grade transport packaging.

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>EXPRESS range</th>
<th>Height units (U)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Order no.</th>
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<td>18</td>
<td>570</td>
<td>875</td>
<td>7318400</td>
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<td></td>
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<td>570</td>
<td>1,025</td>
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<td>570</td>
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<tr>
<td>600</td>
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<td>21</td>
<td>570</td>
<td>1,025</td>
<td>7321600</td>
</tr>
</tbody>
</table>
The development of the flat-pack version of the NT Box is SCHÄFER’s response to the growing logistics and assembly demands of network technology. The base model consists of the SCHÄFER low-cost, modular, standard wall-mounted system with removable doors and side panels. The flat-pack NT Boxes are designed to have the lowest possible packaging volume, while keeping the required assembly work to a minimum. In only four steps, the complete distributor – either on the ground or wall-mounted – can be assembled by one person. Our standard range of accessories enables the Box to be extended as required.

- Economic efficiency: maximum saving of transport volume
- Economic efficiency: maximum saving of storage space, low space requirement despite model variety
- Cost effective and efficient assembly on site in only four steps and by only one person
- Easy installation and maintenance: removable doors and side panels guarantee optimum accessibility from all sides, standard accessories

Preparation for assembly: check that all individual parts have been delivered. The rear panel can be used as a drilling template. Mark the drill hole positions, drill the holes and attach the rear panel to the wall. Alternatively, the Box can be assembled on the ground.
SCHÄFER NT Box Flat-Pack – Practical delivery form and quick to assemble

**Slide the floor into the longitudinal slots provided and secure it.**

**Erect the vertical stays and screw them into place.**

**Place the roof on the top of the vertical stays and bolt into place. Insert corner connectors and screw them tight.**

**Mount the 482.6 mm (19") angles in the required position and slide the left and right hand side panels into place. Then, install the glass door by inserting the hinge pin into the top drill hole first, before allowing the bottom pin to slide into the lower hole. Secure the door at the top with the red securing ring.**

### EXPRESS range

<table>
<thead>
<tr>
<th>Order no.</th>
<th>7406500</th>
<th>7409500</th>
<th>7412500</th>
<th>7415500</th>
<th>7418500</th>
<th>7421500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Useable height U (mm)</td>
<td>6 (350)</td>
<td>9 (475)</td>
<td>12 (625)</td>
<td>15 (750)</td>
<td>18 (875)</td>
<td>21 (1,025)</td>
</tr>
<tr>
<td>External dimensions in mm (W x D)</td>
<td>570 x 500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXPRESS range</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Rear wall panel</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Roof and floor panels with brush strips</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Corner connectors for mounting the frame and vertical stays</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Side panels with passive ventilation</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Glass door, front, with lock</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>482.6 mm (19&quot;) mounting angles for front installation</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Earthing kit</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
SCHÄFER NT Box –
In three parts for optimal accessibility

- High-grade steel housing (light grey RAL 7035) with complete range of basic equipment
- Hinged centre section, 500 mm, with a double-bit lock
- Optimum accessibility for fast installation: once the glass door is open, the side panels can be pulled forward
- Mounted ready for installation, glass door at front, inc. lock, central swivel mounting frame, 482.6 mm (19") mounting angles at front, cable entry apertures in top and bottom
- Individual units in separate transport packaging
- Overall depth of 650 mm
- Heights from 6 – 18 U

Material
- Framework: 1.25 mm steel sheet
- Door: 4 mm single pane safety glass
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19") mounting angles: 1.50 mm steel sheet

Finish
- Framework, side panels: powder coated in RAL 7035 light grey
- 482.6 mm (19") mounting angles: galvanised

Locking
- Security lock in glass door
- Double-bit lock in central mounting frame

Scope of delivery
- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- Fixed wall panel with perforations, brush strips supplied, incl. 3 mm double-bit lock and key
- Swivel mounting frame, inc. 482.6 mm (19") mounting angles for front installation
- Earthing kit, supplied

Load-bearing capacity
- NT Boxes have a load bearing capacity of 3 kg per height unit

Useable internal dimensions
- Central mounting frame: installation depth 445 mm

---

<table>
<thead>
<tr>
<th>Order no.</th>
<th>7306650</th>
<th>7309650</th>
<th>7312650</th>
<th>7315650</th>
<th>7318650</th>
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<tbody>
<tr>
<td>Useable height (U)</td>
<td>6 (350)</td>
<td>9 (475)</td>
<td>12 (625)</td>
<td>15 (750)</td>
<td>18 (875)</td>
</tr>
<tr>
<td>External dimensions in mm (W x D)</td>
<td>570 x 650 (150 + 500)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXPRESS range</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope of delivery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed wall panel with perforations, brush strips supplied, incl. 3mm double-bit lock and key</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Swivel central mounting frame, inc. 2 x 482.6 mm (19&quot;) mounting angles for front installation</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2 side panels with passive ventilation</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Front glazed door with lock</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Earthing kit, supplied</td>
<td>1</td>
<td>1</td>
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</tr>
</tbody>
</table>
SCHÄFER NT Box Slimline –
The Space Savers

High-grade steel housing (light grey RAL 7035)
complete with basic equipment

Mounted ready for installation, glass door at front, inc. lock, 482.6 mm (19") mounting angles at front, cable entry apertures at top and bottom, angled door with lock

Individual units in separate transport packaging

The Slimline NT Box, designed for wall mounting with a minimum of depth, was specially developed for small networks, sub-distributors and floor.

Material

■ Framework: 1.25 mm steel sheet
■ Door: 4 mm single pane safety glass panel
■ 482.6 mm (19") mounting angles: 1.50 mm steel sheet
■ Angled door at rear, removable: 1.25 mm steel sheet

Finish

■ Framework, side panels: powder coated in RAL 7035 light grey
■ 482.6 mm (19") mounting angles: galvanised

Locking

■ Security lock

Scope of delivery

■ 1 framework housing with 2 brush strips
■ 1 door with lock and hinge mounting brackets
■ Angled door with passive ventilation
■ 2 x 482.6 mm (19") mounting angles for front installation
■ Earthing kit, supplied

Load-bearing capacity

The Slimline NT Boxes have a load bearing capacity of 5 kg per height unit

Useable internal dimensions

■ 480 mm

Cable entry dimensions (W x D)

■ 90 x 45 mm (standard)
■ 90 x 90 mm (optional)

Order no. | 7317000 | 7318000
---|---|---
Useable height (U) | 4 (245) | 6 (350)
External dimensions in mm (W x D) | 600 x 600 |
EXPRESS range

Scope of delivery

Top and bottom section with brush strip, prepared for fan installation | 1 | 1
Front 482.6 mm (19") mounting angle, fixed | 1 | 1
Glazed door, removable, with lock, in front of 482.6 mm (19") mounting angle | 1 | 1
Angled door (steel), removable, with lock at side and rear | 1 | 1
Earthing kit | 1 | 1
III. NT BOX WALL CABINETS, NT MINI RACK
SCHÄFER NT Mini Rack 18 U – Small but smart

- High-grade steel housing (light grey RAL 7035) with complete range of basic equipment
- Optimum accessibility for fast installation: once the door is open, the side panels can be pulled out forwards, enabling easy access from 3 sides
- Mounted ready for installation, glass or steel front door, inc. lock, 482.6 mm (19") mounting angles at front, cable entry apertures in top and bottom covers

The NT Mini Rack was specially developed for small networks, sub-distributors and floor distributors as a floor-standing unit.

Material
- Basic housing: 1.25 mm sheet steel
- Door: 4 mm single pane safety glass
- Side panels, door: 0.75 mm sheet steel
- 482.6 mm (19") mounting angles: 1.50 mm steel sheet

Finish
- Housing, side panels: powder coated in RAL 7035 light grey
- 486.2 mm (19") mounting angles: galvanised

Locking
- Security lock

Scope of delivery
- 1 framework housing with 2 brush strips
- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- 2 x 482.6 mm (19") mounting angles, front
- Levelling feet
- Earthing kit, supplied

Load-bearing capacity
- NT Mini Racks have a load bearing capacity of 3 kg per height unit

Usable internal space
- 545 mm

<table>
<thead>
<tr>
<th>Order no.</th>
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<th>7318690</th>
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<tbody>
<tr>
<td>Useable height U (mm)</td>
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<td>18 (910)</td>
</tr>
<tr>
<td>Dimensions in mm (W x D)</td>
<td>570 x 600</td>
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<td>EXPRESS range</td>
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<td></td>
</tr>
<tr>
<td>Scope of delivery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic housing with levelling feet, brush strips in floor and rear wall, top cover panel prepared for additional brush strip or fan</td>
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<td>1</td>
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<tr>
<td>482.6 mm (19&quot;) mounting angle, front mounted</td>
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<td>1</td>
</tr>
<tr>
<td>Side panels, with passive ventilation</td>
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<td>2</td>
</tr>
<tr>
<td>Glass front door, with lock</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>Steel door, with lock and passive ventilation</td>
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<td>1</td>
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<tr>
<td>Earthing kit</td>
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### III. NT BOX WALL CABINETS, NT MINI RACK

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<tr>
<th>Shelves</th>
<th>NT Boxes pre-assembled (D x W x H)</th>
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* For installation of a shelf/document tray, an additional 19" plane is needed, see page 40.
## SCHÄFER NT Boxes – Shelf compatibility

<table>
<thead>
<tr>
<th>Shelves</th>
<th>NT Box flat-pack</th>
<th>NT Box 3-part unit</th>
<th>NT Box Slimline</th>
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**Document trays**

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</tr>
<tr>
<td>440</td>
<td>395</td>
<td>7800015*</td>
</tr>
</tbody>
</table>

*For installation of a shelf/document tray, an additional 19” plane is needed, see page 40.*
IV. System Accessories

19" Routing panel with plastic clamps

For horizontal routing of patch cables in the 19" plane.
Routing panel with five plastic routing clamps.
The clamps pushed into the insertion holes on the 19" panel without tools.

Dimensions: guiding clamp (D x H): 56 x 44 mm
Material: 1.50 mm sheet steel
Finish: powder coating
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 routing panel, 5 clamps, fixing accessories

19" Routing panel with powder-coated clamps

For horizontal routing of patch cables in the 19" plane.
Single-piece routing panel with 5 hemmed routing clamps.
Note: a minimum routing space of 137 mm is required for the 110 clamp depth.

Clamp dimensions (D x H): 1 U: 70 x 40 mm; 2 U: 110 x 80 mm
Material: 2.00 mm sheet steel
Finish: powder coating
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 routing panel, fixing accessories

19" Routing panel with steel guiding rings, chrome

For horizontal routing of patch cables in the 19" plane.
5 cable routing rings per panel. The rings are pushed into the insertion holes from the front. Single ring unit for 75 mm depth, double for 110 mm depth.
Note: a minimum routing space of 137 mm is required for the 110 ring depth.

Material: Panel, 1.5 mm steel sheet; routing rings, 5 mm round bar steel
Finish: powder-coated, chromed rings
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 routing panel, 5 cable guiding rings, fixing accessories
System accessories – Cable management

19” cable feed-through panel
For horizontal cable routing in the 19” plane and cable routing to the rear. Model with 3 chromed guiding rings and 2 brush strips.

Material: Panel, 1.50 mm steel sheet; Guide rings, 5mm round bar steel, chromed; Brush strip, PVC/PA6
Finish: powder-coated, chromed rings
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 cable feed-through panel, 3 steel guiding rings, 1 brush strip, fixing accessories

19” routing panel with extension brackets
For horizontal cable routing in the 19” plane, with integrated extension guide rings at the rear. The 10 supplied routing brackets can be inserted flexibly and without tools into the routing panel and are individually depth adjustable in steps of 25 mm. Entry aperture on the rear side.

Material: Panel, 1.50 mm steel sheet; Extension guide rings: 5 mm round bar steel, galvanised
Finish: powder-coated
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 routing panel, 10 steel extension brackets

Cable routing rings, steel
For system-compatible vertical cable routing inside the rack, the rings are mounted on the sides of the 19” mounting angles or on the frame’s 25 mm pitch pattern. No need to thread cables through the side opening.

Note: Not for NT Boxes.

Material: 5 mm round bar steel, galvanised
Delivery comprises: cable routing rings (UPP see table), fixing accessories

<table>
<thead>
<tr>
<th>W x D (mm)</th>
<th>UPP Items.</th>
<th>Order no.</th>
</tr>
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<tr>
<td>170 x 82</td>
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</tr>
<tr>
<td>112 x 82</td>
<td>10</td>
<td>7968300</td>
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**System accessories – Cable management**

**Cable routing clamps, plastic**
For system-compatible vertical cable routing inside the rack, the clamps are mounted on the sides of the 19" mounting angles or on the frame's 25 mm pitch pattern.

**Material:** Polypropylene
**Colour:** RAL 7035
**Delivery comprises:** cable routing clamps (UPP = 10), fixing accessories

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>Height (mm)</th>
<th>Order no.</th>
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<tr>
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<td>7969050</td>
</tr>
<tr>
<td>80</td>
<td>60</td>
<td>7969550</td>
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</table>

**Bracket clips**
For orderly routing and strain relief of cables on C-profile rails. Easy mounting by simply hooking into the C-profile rail. Wide clamping range from 8 – 46 mm.

**Please note:** other clamping ranges available on request.

**Material:** galvanises steel/ plastic
**Delivery comprises:** 10 bracket clips, 10 mating troughs

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<thead>
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<th>Clamping range (mm)</th>
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<tr>
<td>12 – 16</td>
<td>7912160</td>
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<td>16 – 22</td>
<td>7916220</td>
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<td>22 – 28</td>
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<td>34 – 40</td>
<td>7934400</td>
</tr>
<tr>
<td>40 – 46</td>
<td>7940460</td>
</tr>
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</table>

**Cable clips**
For strain relief and routing of cables by means of cable binders on C-profile rails. Easy mounting by simply clicking into the C-profile rail without tools.

**Material:** Polyamide
**Delivery comprises:** 4 cable clips

**Klett cable binders**
For tying copper and LWL cables.

**Material:** Klett cable binder, polyethylene/polyamide
**Delivery comprises:** 10 Klett cable binders

<table>
<thead>
<tr>
<th>Klett cable binders</th>
<th>UPP no.</th>
<th>RAL 9005</th>
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<tr>
<td>13 x 250 mm</td>
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</table>
### System accessories – PX Rack

#### C-profile rails

For structured clamping and strain relief of cables routed along the width and depth of the rack by means of cable clamps and/or fasteners. Mounted on the basic frame’s 25 mm pitch pattern.

**Material:** 1.50 mm steel sheet, galvanised  
**Delivery comprises:** 2 C-profile rails, fixing accessories

#### System struts 75 mm

System struts for cable support and for mounting accessories, such as power strips, cable routing clamps or guides etc. The struts are mounted on the cabinet frame front and rear vertical profiles.

**Material:** 1.50 mm steel sheet  
**Finish:** galvanised  
**Delivery comprises:** 2 C-profile rails, fixing accessories

#### Doors

Doors for the cabinet front and rear side. Can be installed instead of one side panel (only for cabinets depths of 600 mm and 800 mm). All doors have swing handle with profile half cylinder (30/10) in acc. with DIN 18252/EN1303, and EK333 lock as standard. All doors have a 1-point locking system with sash fastener. The perforated model with honeycomb perforations has a free clearance of 64.7 %. The glass in the glazed doors consists of 3 mm single pane safety glass.

**Material:** door leaves, 0.75 mm steel sheet; Glass insert (only on glazed doors), 3 mm single pane safety glass.  
**Finish:** powder-coated  
**Colour:** RAL 7035 light grey  
**Delivery comprises:** 1 door, fixing accessories

#### Side and rear walls

Side wall panels for closing the cabinets at the sides. Can also be used as a rear wall.  
**Rating:** IP20  
**Material:** 0.75 mm steel sheet  
**Finish:** powder-coated  
**Colour:** RAL 7035 light grey  
**Delivery comprises:** 1 side wall panel, fixing accessories

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<tr>
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<td>1,000</td>
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IV. System Accessories

System accessories – PX Rack

Plinth

Fixed plinth suitable for cable routing underneath the cabinet due to removable panel.
Standard levelling feet makes plinth level adjustable.

Material/finish: 2.00 mm steel sheet, galvanised;
Plinth panels 1.50 mm steel sheet, powder-coated
Colour: RAL 7035 light grey

Delivery comprises: 4 plinth corner elements; 2 plinth panels, solid; 2 plinth panels, perforated; 4 levelling feet; mounting accessories

Base modules

Multi-piece base modules for closing the rack base.
With brush strips for cable entry.

Material: Support bars/base module: 1.50 mm steel sheet; Brush strips TPE-V/PP (UL94 HB)
Finish: galvanised
Delivery comprises: 2 base support bars; 1 base plate T30; 2 brush strips; 3/4/5 T200 base plates (see table); mounting accessories

482.6 mm (19")-mounting angles

Mounting angles for installing 19" components over the full height of the PX rack. Installation is possible over the full rack depth in 25 mm pitch pattern.
The printed height unit labelling helps to identify the individual height units more easily when installing equipment. The 9.5 mm square perforations at the front provide a material offset for keeping the clipped on cage nuts level. The use of high-tensile steel FVZS350GD+Z275MAC in acc. with DIN EN 10346 and DIN EN 10143 results in an extremely high load bearing capacity.

Material: 2.00 mm steel sheet
Finish: galvanised
Delivery comprises: 2 mounting angles, 4 fixing brackets; mounting accessories

Earthing kit

For the systematic earthing of all cladding components on the basic frame.

Delivery comprises: 4 x H07V-K, 6 mm²; gnge, 240 mm; mounting accessories
# System accessories – NT Boxen

### Handle for profile half cylinder

The handle can be retrofitted to every Box.

- **Hole diameter:** 22 mm  
- **Delivery comprises:** 1 handle (RAL 9005), fixing accessories without cylinder

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<tr>
<th>Handle for profile half cylinder</th>
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<tbody>
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</tr>
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</table>

### Wall-mounting kit

For mounting NT Boxes on walls.

- **Delivery comprises:**  
  - 4 screws DIN 571  
  - 4 washers  
  - 4 wall plugs  
  - 4 wall spacers (clearance 13 mm)

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</table>

### Feet

For mounting underneath the NT Boxes.

- **Delivery comprises:**  
  - 4 rubber feet (height: 11 mm)  
  - 4 self-tapping screws

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<tr>
<th>Feet</th>
<th>Order no.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>7110500</td>
</tr>
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</table>

### Flange plate, solid

As an optional extra, the solid flange plate can be used to cover the brush strip apertures.

- **Material:** 1.50 mm sheet steel  
- **Finish:** powder coated in RAL 7035  
- **Delivery comprises:** 1 flange plate, fixing accessories

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<thead>
<tr>
<th>Flange plate, solid</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
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<td></td>
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</tbody>
</table>

### Flange plate with active fans

The flange plate with active fans can be installed in place of the brush strip, if required

- **Delivery comprises:** 1 flange plate with two active fans, fixing accessories

**Technical data:**
- Air-volume flow rate per fan (free blowing): 50/60 m³/h  
- Operating voltage: 230 V 50/60 Hz  
- Power consumption: 14.5/14 W  
- Noise level: 35 dB(A)

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<thead>
<tr>
<th>Flange plate with active fans</th>
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</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>Schuko-C 13 mains cable</td>
<td>6763200</td>
</tr>
<tr>
<td>Thermostat</td>
<td>6763000</td>
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</table>
**System accessories – NT Boxen**

### Cable support rail

The cable support rails enable the structured clamping and strain relief of cables routed along the rack width by means of cable clamps and/or fasteners.

- **Material:** Sheet steel
- **Finish:** Galvanised
- **Delivery comprises:** 1 cable clamping rail, fixing accessories

### 482.6 mm (19") mounting angles

For the depth variable installation of two 482.6 mm (19") components in the rack rear plane. The angles are mounted directly onto the framework. The additional positioning perforations in the height unit pitch pattern make installation easier.

- **Material:** 1.50 mm Sheet steel
- **Finish:** Galvanised
- **Delivery comprises:** 2 x 482.6 mm (19") mounting angles, fixing accessories

### Slim line fan

- **Technical data:**
  - Operating voltage: 230 Volt
  - Air volume flow rate: 165 m³/Std.
  - Nominal output: 25 Watt
  - Max. noise emission: 1 fan 45 dB(A) free blowing
  - W x H x D (mm) 120 x 120 x 120
  - 2 protective grilles
  - 100 mm mains cable with IEC C 13 plug
- **Please note:** For Slimline NT Box only

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**Technical data:**
- Housing width
  - Order no.
  - 570 mm 7110150

**Height units (U)**
- Order no.
- 6 7100060
- 9 7100090
- 12 7100120
- 15 7100150
- 18 7100180
- 21 7100210

**Slim line fan**
- Order no.
- 7719400
System accessories – Power supply

The Basic PDUs are used for applications requiring high availability but not management/monitoring. Their extremely compact design enables their space-saving installation in server cabinets.

Features at a glance:
- Robust, slimline design with 47 mm profile installation depth
- Torsion-resistant, anodised aluminium profile
- Secure contact due to high quality requirements
- Temperature resistant up to 60 °C
- Available in Schuko C13 and C19 designs
- Power density of 3.6 kW – 22 kW
- Versions with mains filters and surge protection

<table>
<thead>
<tr>
<th>Basic PDU</th>
<th>Input</th>
<th>Input connector</th>
<th>Length (mm)</th>
<th>LS</th>
<th>C13</th>
<th>C19</th>
<th>SKS</th>
<th>CH</th>
<th>S</th>
<th>ÜSS/EF</th>
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<td></td>
</tr>
<tr>
<td>IQdata Power MILL-16-36-6-0</td>
<td>230 V / 16A</td>
<td>IEC 60309 16A 1P+N+PE</td>
<td>1,758 mm</td>
<td>1,758 mm</td>
<td>24</td>
<td>7804680</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IQdata Power MILL-32/24-6-6</td>
<td>230 V / 32A</td>
<td>IEC 60309 16A 1P+N+PE</td>
<td>1,883 mm</td>
<td>1,883 mm</td>
<td>24</td>
<td>7804690</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Thermostat for fan control

- Fully wired thermostat for temperature regulation by means of active fans in the cabinet top cover.
- No wiring required (Plug & Play).
- Please note: if not already available, order mains cable separately.

Technical data:
- Adjustment range: 0 – 60 °C +/- 2k
- Max. switching capacity: 6A/230 V AC
- Interference suppression class: N
- Protection rating: IP30

Delivery comprises: 1 thermostat, 1 connecting box, fixing accessories

19" temperature display, 1 U

- Temperature display with two-digit LED display.
- The panel is fitted with two NTC temperature sensors.
- The measuring channels can be selected on a switch.

Material: blind panel, 1.25 mm steel sheet
Finish: blind panel: powder-coated
Delivery comprises: 1 U panel with temperature display, 2 temperature sensors, 2 m, mains cable 3 m, fixing accessories

Temperature display

<table>
<thead>
<tr>
<th>RAL 7035</th>
<th>RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td>7976100</td>
<td>7976150</td>
</tr>
</tbody>
</table>

Technical data:
- Display range: -49 °C to +99 °C
- Accuracy: ±1.5 °C
- Displayed digits: 2
- Measuring rate: 5 s
- Resolution: 1 °C
- Digit size: 13 mm
- Operating voltage: 230 VAC/50 Hz

Active fans

- Active fans for vertical cabinet ventilation.
- Easily mounted in the prepared top cover panel.
- One module contains two fans and the fan modules can be cascaded. The screw fastened housing enables individual fans to be replaced easily.
- Please note: mains cable must be ordered separately.
- Not for NT Boxes.

Material: housing, 0.75 mm steel sheet, galvanised;
Protective grille, ABS

Technical data, fan:
- Operating voltage: 230 VAC, 50/60 Hz
- Rated output: 22/21 W
- Air flow per fan (free blowing): 162/195 m³/h
- Temperature range: -20 °C to +70 °C
- Noise emission per fan: max. 45/50 dB (A)

Delivery comprises: 1 fan module with two fans, fixing accessories
System accessories – Ventilation and climate control

Filter fan and Exhaust filter

Filter fans for vertical ventilation of closed switchgear, server or network racks. Also suitable for environments requiring special protection from contamination due to IP54 rating. Mechanically turning the fan enables it to be used for both blowing and suction.

Order no. 7680000

<table>
<thead>
<tr>
<th>Dimensions H x W x D in mm</th>
<th>148 x 148 x 64.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>230 V 50/60 Hz</td>
</tr>
<tr>
<td>Current consumption in A</td>
<td>0.11</td>
</tr>
<tr>
<td>Power consumption in W</td>
<td>19/18</td>
</tr>
<tr>
<td>Rotation speed in RPM</td>
<td>2650/3100</td>
</tr>
<tr>
<td>Temperature range in °C</td>
<td>-10 to +50</td>
</tr>
<tr>
<td>Life span in h</td>
<td>27500</td>
</tr>
<tr>
<td>Sound level in dB(A)</td>
<td>42</td>
</tr>
<tr>
<td>Aeration capacity, free blowing, in m³/h</td>
<td>63</td>
</tr>
<tr>
<td>Dust absorption (10 μm)</td>
<td></td>
</tr>
<tr>
<td>Approvals</td>
<td>CE / UL / CSA</td>
</tr>
</tbody>
</table>

Order no. 7680500

<table>
<thead>
<tr>
<th>Dimensions H x W x D in mm</th>
<th>250 x 250 x 126</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>230 V 50/60 Hz</td>
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<tr>
<td>Current consumption in A</td>
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<tr>
<td>Power consumption in W</td>
<td>45/39</td>
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<tr>
<td>Rotation speed in RPM</td>
<td>2760/3030</td>
</tr>
<tr>
<td>Temperature range in °C</td>
<td>-10 to +50</td>
</tr>
<tr>
<td>Life span in h</td>
<td>40000</td>
</tr>
<tr>
<td>Sound level in dB(A)</td>
<td>52</td>
</tr>
<tr>
<td>Aeration capacity, free blowing, in m³/h</td>
<td>250</td>
</tr>
<tr>
<td>Dust absorption (10 μm)</td>
<td>85 %</td>
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<tr>
<td>Approvals</td>
<td>CE / UL / CSA</td>
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</tbody>
</table>

Exhaust filter

Order no. 7681000

<table>
<thead>
<tr>
<th>Dimensions H x W in mm</th>
<th>148 x 148</th>
</tr>
</thead>
</table>

Order no. 7681500

<table>
<thead>
<tr>
<th>Dimensions H x W in mm</th>
<th>250 x 250</th>
</tr>
</thead>
</table>

Material: plastic, UL94V0
Colour: RAL 7035
Delivery comprises: 1 fan filter, 1 adapter cable for C13, mounting accessories
### Interior lamp, 0.5 U

Compact interior lamp with switch for all server and network cabinets. Universal mounting on cabinet frame, in the 19” plane, or on cladding components with screw, clip-on or magnet fasteners.
The lamp is available with an LED or compact fluorescent (CFL) light bulb. For switching on via an optional door contact switch, the lamp has a plug-in socket at the side. On the LED lamp, the light unit can be turned to direct the light beam.

**Material:** plastic  
**Delivery comprises:** 1 interior lamp, incl. mains cable, mounting accessories

### Interior lamp, 1 U

Compact interior lamp with switch and service plug for all server and network cabinets. Universal mounting on cabinet frame in the 19” plane.  
The lamp is equipped with energy-saving LED bulbs. For switching on via an optional door contact switch, the lamp has a plug-in socket at the side. For through wiring via connecting cable, a three-pin plug connector can also be found at the side.  

**Note:** the appropriate mains cable must be ordered separately.  
**Material:** steel sheet, powder coated  
**Colour:** RAL 9006 white aluminium  
**Delivery comprises:** 1 interior lamp, mounting accessories

### Technical data:
- **Rating:** IP20  
- **Protection class:** II  
- **Dimensions:** 448 x 54.5 x 26 mm (L x W x H)  
- **Mains cable:** 2 x 0.75 mm², L 3,000 mm, open end with wire ferrules  
- **Operating voltage:** 230 VAC ± 10 % / 50 - 60 Hz  
- **Power consumption:** LED 7.2 W; LSR 8 W  
- **Light flux:** LED 945 lm; LSR 400 lm  
- **Light colour:** LED 5,600 K (cool white); LSR 4,300 K (cool white)  
- **Operating temperature:** LED -20 °C to +50 °C; LSR -15 °C to +45 °C  
- **Markings:** CE, ENEC (only CFL)  
- **Test standards:** EN 60598, EN 55015, EN 61000  
- **Directives:** 2014/35/EU, 2014/30/EU
System accessories – 19" internal design and general accessories

**Equipotential earthing bar**
For retrofitting horizontally or vertically in the framework's 25 mm pitch pattern. The feeder terminals can be clipped directly onto the earthing bar without threading.

**Material:** 10 x 5 mm copper rail

**Delivery comprises:** 1 equipotential earthing bar; 2 rail supports (horizontal) / 3 rail supports (vertical); 5 feeder terminals 1.5 - 16 mm²; 1 earthing kit; mounting accessories

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>440</td>
<td>507760200</td>
</tr>
<tr>
<td>597</td>
<td>507760100</td>
</tr>
<tr>
<td>1,880</td>
<td>507760300</td>
</tr>
</tbody>
</table>

**Feeder terminals**

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7765000</td>
</tr>
</tbody>
</table>

**Central earthing bolt**
Central earthing point for mounting on the rack frame. The bolt enables a defined interface between cabinet and the building's potential equalisation to be created. The bolt is mounted directly on the Frame's 25 mm pitch pattern. On the mounting lug, there is a M8 x 25 mm threaded bolt.

**Material:** mounting lugs, 2.00 mm steel sheet

**Finish:** galvanised

**Delivery comprises:** 1 earthing bolt, mounting accessories

<table>
<thead>
<tr>
<th>Central earthing bolt</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6760100</td>
</tr>
</tbody>
</table>

**Mounting kit for 19" pitch pattern**
For mounting 482.6 mm (19") components on 19" Mounting angles with 9.5 mm square perforations.

**Delivery comprises:** 50 cage nuts; 50 oval head screws; 50 plastic washers

<table>
<thead>
<tr>
<th>Mounting kit</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6x16 TX30</td>
<td>7963000</td>
</tr>
<tr>
<td>M6x12 TX25</td>
<td>7963300</td>
</tr>
<tr>
<td>M5x16 TX25</td>
<td>507963200</td>
</tr>
</tbody>
</table>

**Set of screws**
For mounting components onto IS-1 frame profiles, or 19" mounting angles.

**Delivery comprises:** 20 oval head screws

<table>
<thead>
<tr>
<th>Type</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal screws 5.5 x 13</td>
<td>507963100</td>
</tr>
<tr>
<td>Self-tapping screws M6x12</td>
<td>507963150</td>
</tr>
<tr>
<td>Self-tapping screws M6x16</td>
<td>507963155</td>
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</tbody>
</table>
### 19" shelf, fixed, with front mounting lugs

Stable, solid shelf for supporting non-19" components. The shelf can be used in racks of all manufacturers that have a 482.6 mm (19") mounting plane with pitch pattern profiles.

**Dimensions, tray (W x D):**
- 1 U: 448 x 250 mm
- 2 U: 445 x 400 mm

**Static load bearing capacity** (with even load distribution):
- 1 U: 150 N
- 2 U: 400 N

**Material:** 1.50 mm steel sheet

**Finish:** powder-coated

**Colours:** RAL 7035 light grey, RAL 9005 jet black

**Delivery comprises:** 1 shelf, mounting accessories

<table>
<thead>
<tr>
<th>Version</th>
<th>RAL 7035</th>
<th>RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 U</td>
<td>7750250</td>
<td>7750260</td>
</tr>
<tr>
<td>2 U</td>
<td>6750000</td>
<td>6750050</td>
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### 19" full extension pull-out shelf with front mounting lugs

Perforated, fully extendable shelf. The tray is automatically arrested when extended (friction locking). The shelf can be mounted in all racks with a 482.6 mm (19") mounting plane with pitch pattern profiles. The pull-out tray is attached face-up or face-down to the telescopic rails without using tools.

**Dimensions, tray (W x D):** 420 x 400 mm

**Static load bearing capacity** (with even load distribution): 400 N

**Material:** steel sheet 1.50 mm

**Finish:** powder-coated

**Colours:** RAL 7035 light grey, RAL 9005 jet black

**Delivery comprises:** 1 shelf, 1 pull-out tray, 1 pair of telescopic rails, mounting accessories

<table>
<thead>
<tr>
<th>Version</th>
<th>RAL 7035</th>
<th>RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 U</td>
<td>6750500</td>
<td>6750550</td>
</tr>
</tbody>
</table>
19" shelf, fixed, 1 U

Fixed perforated shelf, mounted in the pitch pattern of the front and rear 19" plane. The shelf can be mounted in all racks with a 482.6 mm (19") mounting plane with pitch pattern profiles. The tray is available in various depths for different applications and rack depths. Flexible installation for distances of 447 mm to 847 mm between mounting planes.

Dimensions, tray (W x D):
448 x 400/500/600 mm

Static load capacity: 1,200 N

Material: steel sheet 1.0 mm

Finish: powder-coated; mounting rails, galvanised

Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 shelf, 1 pair of mounting rails

mounting accessories

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>ER\textsuperscript{1} min.</th>
<th>ER\textsuperscript{1} max.</th>
<th>RAL 7035</th>
<th>RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>447</td>
<td>647</td>
<td>6550400</td>
<td>6550450</td>
</tr>
<tr>
<td>500</td>
<td>522</td>
<td>747</td>
<td>6550500</td>
<td>6550550</td>
</tr>
<tr>
<td>600</td>
<td>622</td>
<td>847</td>
<td>6550600</td>
<td>6550650</td>
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</tbody>
</table>

\textsuperscript{1} ER (extension reach) = 19" distance between planes

19" full extension pull-out shelf

Perforated, fully extendable shelf. The tray is automatically arrested when extended (friction locking) is attached to the telescopic rails face-up or face-down without using tools. The shelf can be mounted in all racks with a 482.6 mm (19") mounting plane with pitch pattern profiles. The pull-out tray is available in various depths for different applications and rack depths. Flexible installation for distances of 422 mm to 772 mm between mounting planes.

Note: Use of the height units above the shelf is limited.

Dimensions, tray (W x D):
422 x 400/500/600 mm

Static load capacity: 500 N

Material: steel sheet 1.0 mm

Finish: tray: powder-coated; mounting rails, galvanised

Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 shelf, 1 pair of telescopic rails

mounting accessories

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>ER\textsuperscript{1} min.</th>
<th>ER\textsuperscript{1} max.</th>
<th>RAL 7035</th>
<th>RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>447</td>
<td>672</td>
<td>6757500</td>
<td>6757550</td>
</tr>
<tr>
<td>500</td>
<td>522</td>
<td>772</td>
<td>6758500</td>
<td>6758550</td>
</tr>
<tr>
<td>600</td>
<td>622</td>
<td>772</td>
<td>6760500</td>
<td>6760550</td>
</tr>
</tbody>
</table>

\textsuperscript{1} ER (extension reach) = 19" distance between planes
IV. System Accessories

19" Full extension heavy duty pull-out shelf

Perforated heavy duty shelf with full extension. The shelf can be mounted in all racks with a 482.6 mm (19") mounting plane with pitch pattern profiles.

Installation height: 59 mm (1 1/3 U)
Dimensions, tray: 410 x 500 mm (W x D)
Static load capacity: 1,000 N
Material: 2.00 mm steel sheet
Finish: tray: powder-coated; mounting rails, galvanised

<table>
<thead>
<tr>
<th>Depth (mm)</th>
<th>ER L min.</th>
<th>ER L max.</th>
<th>RAL 7035</th>
<th>RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>522</td>
<td>772</td>
<td>6796000</td>
<td>6796050</td>
</tr>
</tbody>
</table>

1 ER (extension reach) = 19" distance between planes

Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 shelf, 1 pair of telescopic rails, mounting accessories

1 U document tray

For the safe storage of e.g. machine documentation, Manuals or tools. The partial extension (approx. 75 %) guarantees easy access to the drawer contents. The lockable drawer and its fully enclosed design guarantee the safe storage of important documents. The document tray can be mounted in all racks with 482.6 mm (19") mounting planes with pitch pattern profiles.

Note: maximum extension is 640 mm

Dimensions (W x D x H):
external: 482.6 mm (19") x 485 mm x 1 U
internal: 415 mm x 420 mm x 35
Load bearing capacity: 200 N
Material: 1.25 mm steel sheet
Finish: powder-coated
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 document tray, mounting accessories

<table>
<thead>
<tr>
<th>Document tray</th>
<th>RAL 7035</th>
<th>RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7963500</td>
<td>7963550</td>
</tr>
</tbody>
</table>

2 U document tray

For the safe storage of e.g. machine documentation, Manuals or tools. The telescopic full extension guarantees easy access to the drawer contents. The lockable drawer and its fully enclosed design guarantee the safe storage of important documents. The document tray can be mounted in all racks with 482.6 mm (19") mounting planes with pitch pattern profiles.

Dimensions (W x D x H):
external: 482.6 mm (19") x 395 mm x 2 U
internal: 408 mm x 387 mm x 78 mm
Load bearing capacity: 200 N (with even load distribution)
Material: 1.50 mm steel sheet
Finish: powder-coated
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 document tray, mounting accessories

<table>
<thead>
<tr>
<th>Document tray</th>
<th>RAL 7035</th>
<th>RAL 9005</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7540500</td>
<td>7800015</td>
</tr>
</tbody>
</table>
System accessories – 19" internal design and general accessories

**Wiring diagram pocket**

A4 size retro-fit pocket for wiring diagrams. Easy, tool-less installation on the rack (self-adhesive).

**Dimensions** (W x D x T): 264 x 236 x 32.5 mm  
**Material**: polystyrol, UL94 HB  
**Colour**: RAL 7035  
**Delivery comprises**: 1 wiring diagram pocket, incl. adhesive strip

<table>
<thead>
<tr>
<th>Wiring diagram pocket</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7964500</td>
</tr>
</tbody>
</table>

**Slide rails**

To facilitate installation and permanent support of heavy 19" devices. All slide rails are depth adjustable and can therefore be used for depth ranges of 547 – 747 mm. The screw fastened slide rails can be used on racks of all manufacturers with standard 19" pitch pattern profiles.  
**Please note**: use of the height units below the slide rails may be limited (- 2 mm).

**Dimensions**: extension reach: 547 – 747 mm, support width: 28 mm per side  
**Load bearing capacity**: screw-fastened: 1,000 N  
**Material**: screw-fastened: 1.50 mm  
**Finish**: galvanised  
**Delivery comprises**: 2 slide rails, mounting accessories

<table>
<thead>
<tr>
<th>Slide rails</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>screw-fastened</td>
<td>7777200</td>
</tr>
</tbody>
</table>

**Universal mounting brackets, 1 + 2 U**

Universal mounting brackets for installing PDU's, or 19" devices onto the rack frame or the side 19" mounting angles.

**Material**: steel sheet 1.50 mm  
**Finish**: galvanised  
**Delivery comprises**: 2 universal mounting brackets, mounting accessories

<table>
<thead>
<tr>
<th>Version</th>
<th>Depth (mm)</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>7782700</td>
</tr>
<tr>
<td>2 U</td>
<td></td>
<td>7782800</td>
</tr>
</tbody>
</table>
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Individual Consulting

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VI. The SCHÄFER WERKE Group of Companies

- EMW Steel Service Centre
- SCHÄFER Perforated Metal
- SCHÄFER Container Systems
- SCHÄFER Industrial Solutions
- SCHÄFER IT-Systems
Within the SCHÄFER Group, SCHÄFER WERKE are the specialists for the development, manufacture and sale of thin steel sheet and stainless steel products. Constant growth and the uncompromising extension of the product range underline the company’s successful strategy. The outstanding success of the five individual business areas lies above all in the ability to put customer wishes into practice quickly, while keeping the products themselves highly individual.

The extraordinary speed at which new sheet steel products can be realised stems from the close co-operation of all business areas with our own EMW Steel Service Centre, which, with a storage capacity of 100,000 t of thin steel sheet, can provide the coils, slit strips, cut-to-size sheets and formats required for further processing in very high quality and at very short notice.

SCHÄFER Perforated Metal supply a broad and rapidly available range of high-quality perforated plates and sheets for all sectors and application fields.

SCHÄFER Container Systems is one of the world’s leading suppliers of reusable stainless steel beverage containers for beer, wine and soft drinks, as well as for IBCs and special containers for solid and liquid substances and granulates.

SCHÄFER IT-Systems supplies both standardised and made-to-measure network and server cabinets, as well as data centre and water-cooled server cabinet solutions, which are planned, adapted to the specific projects and manufactured in our own company, on the basis of our extensive, future-oriented know-how and expertise.

SCHÄFER Industrial Solutions develops, designs and manufactures customised punched and bent parts, machine cladding, special and standard housing solutions in metal.

Our great manufacturing expertise, our extensive range of production equipment and our employees’ outstanding level of qualification make SCHÄFER the ideal partner for contract manufacturing. By working with SCHÄFER, our customers can profit from measurable time and cost-saving benefits.
Our production locations

Head office and production site at Neunkirchen (D)

Plant at Betzdorf (D)  Plant at Ledec nad Sázavou (CZ)

SCHÄFER IT-Systems, an innovative manufacturer of made-to-measure network and server cabinet and data centre solutions for both conventional and complex applications, is part of the internationally successful company SCHÄFER WERKE.

This owner-led group of companies has its headquarters in Neunkirchen in Germany’s Siegerland region. The work of all the SCHÄFER WERKE divisions – SCHÄFER IT-Systems, SCHÄFER Industrial Solutions, SCHÄFER Container Systems, SCHÄFER Perforated Metal and the EMW Steel Service Centre – is based on high-quality thin steel sheet. The processing of this material is one of the core competencies of this enterprise.