SCHÄFER IT-Systems –
The specialists for IT infrastructure

Catalogue
2012/2013

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 data centre and water-cooled server rack solutions, 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-based 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 5 to 10 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.

SCHÄFER IT-Systems –
part of a strong community
SCHÄFER IT-Systems is part of the internationally successful company SCHÄFER WERKE. The family-led group has its headquarters in Neunkirchen in Germany's Siegerland region. The work of all the SCHÄFER WERKE business divisions – SCHÄFER IT-Systems, SCHÄFER Industrial Solutions, SCHÄFER Interior Systems,

SCHÄFER Container Systems, SCHÄFER Perforated Metal, EMW Steel Service Centre – is based on high-quality fine steel sheet. The processing of this material is one of the core competencies of this enterprise.

The big PLUS for
SCHÄFER IT-Systems

+ Products "Made in Germany"

+ All products with this label in Light Grey RAL 7035 belong to our Express range

SCHÄFER
IT-SYSTEMS

I. **II.** **III.** **IV.**

SCHÄFER IT-Systems –
Server and Network Technology Systems

V.

VI.

SCHÄFER IT rack solutions –
all the benefits at a glance

■ Frame profile load-bearing capacity of up to 1000 kg

■ Flexible extension and baying

■ All types (SP20/SP54/PX) compatible for baying with each other

■ Protection classes up to IP54

IP54 protected

■ Highest levels of locking security

■ All-round accessibility

■ Can be totally dismantled

■ Server rack centre profiles and 3 mounting plane depth levels ensure variability

■ Impact-proof powder coating in light grey or black

■ Complete product range from high-end to economy solutions

■ Cold / Warm aisle solutions

■ Water-cooled server rack solutions

SCHÄFER IT Racks – System comparison

SCHÄFER IT Rack solutions are as different as your needs and requirements! Two systems with a different focus in terms of security, internal design and air-conditioning, together provide the basis for a series of racks that, with the available equipment, meet your demands exactly.

SP20 Smart Profile

With two depth-adjustable 482,6 mm (19") planes, this practical rack is ideal for server rooms.

- ■ Optimal accessibility
- ■ Swinghandle with 2-point locking system
- ■ Demountable
- ■ Frame profiles with high load-bearing capacity of up to 1000 kg
- ■ In RAL 7035 smooth finish or RAL 9005 fine structure

IP54 protected

SP54 Smart Profile
Air-conditioning without limits

SP54 racks provide the best conditions for blending all relevant technologies into complete IT infrastructures. Each rack makes an important contribution to the physical security of your IT infrastructure and operates as the interface for ground-breaking air-conditioning concepts.

- IP54 protection rating
- Optimal accessibility
- Swinghandle with 4-point locking system
- Demountable
- Frame profiles with high load-bearing capacity of up to 1000 kg
- In RAL 7035 smooth finish or RAL 9005 fine structure

PX – The Excellence Range

The rack with the individual touch. Specially developed for price-conscious customers, these network racks are an interesting addition to SP20 racks, thanks to their new frame design.

- Optimal accessibility
- Swinghandle with 1-point locking system
- Demountable
- Frame profiles with high load-bearing capacity of up to 700 kg
- In RAL 7035 smooth finish
- Doors possible on all four sides

Creating space and clarity
for data networks and data centres –
with rack solutions from SCHÄFER

The ergonomic, modern design of SCHÄFER`s steel SP Racks (Smart Profile) is what makes them really outstanding. They are functional, easy to maintain, strong, easy to operate and offer long services lives. Available with protection ratings up to IP54 and as network or server racks, these models offer you great potential for achieving optimal protection for your IT facilities.

I.

SCHÄFER
IT-SYSTEMS

Complete rack security with IP54 protected for reliable dismantling, extending and baying!

Door opening:
stand alone 180°,
baying 135°

The development of the SCHÄFER SP Rack System is the practice-oriented response to the permanently increasing demands placed on data, server and network technology.
Tailor-made standard, modular solutions are also an effective way of saving your time and money. In keeping with this principle, SCHÄFER IT-Systems has a wide product range on offer which also provides great scope for individual solutions:

- Pre-assembled complete racks in two standard colours as especially economic solutions, available at short notice
- Individually configured customised versions in all usual dimensions, delivered in the shortest possible time

Besides their modular design and flexibility, all SP Racks offer cutting edge advantages for users and comply with the latest international standards, IEC 297-1/2 (19") and IEC 917-2-1 (metric), as well as DIN EN 60721-3-3 and DIN 60068-1 (IEC 68-1).
The multi-profiled basic frame is very strong and yet lightweight. Integrated 25 mm pitch patterns on all sides allow system accessories to be installed easily and economically.

**Baying solutions combining SP Racks
with PX Racks are possible**
Doors and side panels can be removed and replaced very quickly to guarantee all-round access. The rack's excellent one-colour design in either RAL 7035 (light grey) or RAL 9005 (black) blends harmoniously into any environment.

Useable internal dimensions between frame sections:

■ 491 mm on racks with widths of 600 mm
■ 591 mm on racks with widths of 700 mm
■ 691 mm on racks with widths of 800 mm

External dimensions (without SW)

■ 593 mm on racks with widths of 600 mm
■ 693 mm on racks with widths of 700 mm
■ 793 mm on racks with widths of 800 mm

The SP Rack consists of steel frame sections joined together by means of corner connectors. Dismantling can be carried out in a few simple moves, allowing the rack to be erected in any room without any difficulty

Flexible modules: fully assembled, variable and exchangeable, easy to extend.
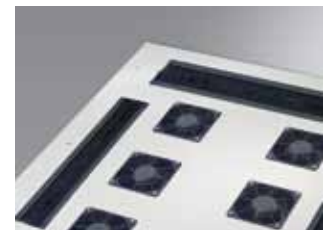
Top cover panel with brush strip for easy cable entry
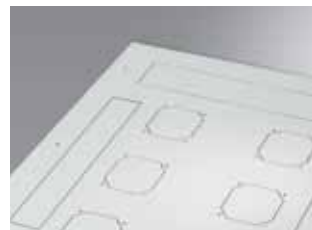
Brush strip and fans can be retrofitted optionally

Passively vented top cover panel provides mechanical protection combined with passive rack ventilation

Top cover panel with active fans and brush strip provide optimum rack ventilation while minimising noise emissions

Load bearing capacity of 19" mounting planes

With 2 depth stays	(per side)	max.	500 kg
With 3 depth stays	(per side)	max.	700 kg
With 4 depth stays	(per side)	max.	1000 kg
With 4 cross supports		max.	400 kg
With 1 additional depth stay	(per side)	max.	700 kg
With additional rectangular tube	(per plane)	max.	1000 kg
With 4 corner brackets	(per side)	max.	700 kg
With 2 bridges	(front/back)	max.	1000 kg

Complete accessories:
Clearly allocated and packaged ready to be installed

■ Especially for upgrading or extension of the SP Rack
■ General accessories for interior fitting, power supply etc.

Professional reliability and attractive design

The removable side panels are slotted into place, screwed fastened (quick-fastening system) and secured by a lock. They can also be left in place to serve as partitioning walls in baying solutions

Front and back doors are equipped with pivoted handles and security lock, or can be exchanged for a profile half-cylinder or any other standard locking system on request

SP20 Rack –
Equipped for convenience and maximum security

- High-grade steel racks
  (light grey RAL 7035).
  Profile technology guarantees
  maximum stability
- Fully assembled with basic accessories
- Flexible interior - designed to accommo-
  date all currently available IT components
- Simple to assemble and disassemble – all
  racks are „demountable"
- Accessible from all sides (removable doors
  and panels)
- Can be used as stationary or mobile units
- 100 % modular system, can be extended at
  any time
- Extremely strong frame with load bearing
  capacity of up to 1000 kg; higher load
  bearing capacities available on request

Material:

- Basic frame: 2.00 mm steel sheet,
  multi-profiled
- Doors: 1.25 mm steel sheet with multi-
  folded edges and 3 mm single pane safety
  glass panel (front door only)
- Side panels: 1.00 mm steel sheet
- Plinth: 1.25 mm steel sheet
- Top/bottom cover panels:
  1.25 mm steel sheet
- 482.6 mm (19") mounting angles:
  2.00 mm steel sheet

Finish:

- Basic frame, doors, side panels, plinth,
  top/bottom covers: high-quality powder
  coating in light grey RAL 7035
- Installation kit for 482.6 mm (19") mounting
  angles: galvanised

Locking:

- Doors: standard pivoted handle with
  security lock, prepared for installation of a
  profile half cylinder or other standard lock,
  2-point locking system
- Side panels: sash fastener with security
  lock, slot-in, quick-fastening system

International standards:

- IEC 297-1/2 (19")
- IEC 917-2-1 (metric)

SP20 Rack: complete racks for networks

600 mm wide and 600 mm deep or 800 mm wide and 800 mm deep

| Order no. Basic rack inc. side panels | 6612650 | 6612660 | | 6820830 | 6820850 | |
Order no. Baying rack, no side panels, with baying kit			6612850	6820880	6820890	6822890
Colour code	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Colour	light grey	light grey	light grey	light grey	light grey	light grey
Width (mm)	600	600	800	800	800	800
Height (mm) (inc. rollers or plinth)	1300	1300	1300	2100	2100	2200
Depth (mm)	600	600	800	800	800	800
Height units (U)	24	24	24	42	42	46
Type	passive venting	active venting		active venting	passive venting	
EXPRESS Range	>e>	>e>		>e>	>e>	
Scope of delivery						
Basic frame	1	1	1	1	1	1
Front door (with safety glass panel)	1	1	1	1	1	1
Steel rear door, solid			1	1	1	1
Steel rear door, with passive ventilation (honeycombe perforation, 81 % open area)	1	1				
Side panels, removable, with lock	2	2		2	2	
482.6 mm (19") mounting angles, front	2	2	2	2	2	2
482.6 mm (19") mounting angles, back			2	2	2	2
Depth stay			4	4	4	6
Top cover, single piece, solid	1					
Top cover, single piece with brush strip, prepared for fans (spacers supplied)			1		1	1
Top cover, single-piece, with brush strip, 2 fans and connector cable		1		1		
Bottom cover, single piece, with brush strip	1	1				
Open base section			1	1	1	1
Plinth, with passive ventilation and levelling feet, height: 100 mm			1	1	1	1
Castors, 2 with arrestors	4	4				
C-profile rails (side panel installation)	1	1		2	2	
C-profile rails (rear panel installation)				2	2	
Also supplied						
Earthing kit	1	1	1	1	1	1
M6 cage nuts, 16 M6 screws, washers	50	50	50	50	50	50

*2 active fans (162m³/h, 45 dB(A))

Top cover with brush strip for easy cable entry

Top cover with active fans and brush strip for optimal ventilation and minimal noise emission optional accessories
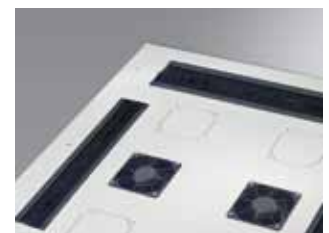
Recommended accessories
- **482.6 mm (19") shelf**
  Order no. 6550500
- **482.6 mm (19") 9-outlet Schuko PDU**
  Order no. 7771000
- **482.6 mm (19") routing panel with 5 steel clamps**
  Order no. 7979000

SP20 Rack system accessories (from page 70) and general system accessories (from page 88)

Light grey RAL 7035

SP54 Rack – Network Racks with IP54 protected

IP54 protected

- High-grade steel rack (light grey RAL 7035, black RAL 9005). Profile technology guarantees maximum stability
- Fully assembled with basic accessories
- Flexible interior – designed to accommodate all currently available IT components
- Simple to assemble and disassemble – all racks are "demountable"
- Accessible from all sides (removable doors and panels)
- Can be used as stationary or mobile units
- 100 % modular system, can be extended at any time
- Extremely strong frame with load bearing capacity of up to 1000 kg; higher load-bearing capacities available on request
- Protection rating: IP54, circumferential seal

Material:
- Basic frame: 2.00 mm steel sheet, multi-profiled
- Doors: 1.25 mm steel sheet with multi-folded edges and 3 mm single pane safety glass panel (front door only)
- Side panels: 1.00 mm steel sheet
- Plinth: 1.25 mm steel sheet
- Top/bottom cover panels: 1.25 mm steel sheet
- 482.6 mm (19") mounting angles: 2.00 mm steel sheet

Finish:
- Basic frame, doors, side panels, plinth, top/bottom covers: high-quality powder coating in light grey RAL 7035
- Installation kit for 482.6 mm (19") mounting angles: galvanised

Locking:
- Doors: swinghandle with security lock, prepared for installation of a profile half cylinder or other standard lock, 4-point locking system
- Side panels: screw-fastened

International standards:
- IEC 297-1/2 486.2 mm, (19")
- IEC 917-2-1 (metric)

SP54 Rack: complete racks for networks

800 mm wide and 800 mm deep

Order no. light grey, RAL 7035	6412170	6420190
Width (mm)	800	800
Height (mm) inc. plinth	1300	2100
Depth (mm)	800	800
Height units (U)	24	42
Scope of delivery		
Basic frame	1	1
Front door (with safety glass panel)	1	1
Steel rear door, solid	1	1
Side panels, screw-fastened, IP54	2	2
482.6 mm (19") mounting angles, front	2	2
482.6 mm (19") mounting angles, back		2
Depth stay	4	4
Top cover, single piece, solid	1	1
Bottom cover, single piece, with brush strip	1	1
Plinth, solid, with levelling feet, height: 100 mm	1	1
Also supplied		
Earthing kit	1	1
M6 cage nuts, 16 M6 screws, washers	50	50

*Depth-adjustable 482.6 mm (19")
mounting angles provide maximum
installation space for systems,
slide rails and shelves*

*Installation set for depth-adjustable
installation of 482.6 mm (19")
mounting angles*

Recommended accessories

- ***482.6 mm (19") shelf***

  Order no. 6550500

- ***482.6 mm (19") 9-outlet Schuko PDU***

  Order no. 7771000

- ***482.6 mm (19") routing panel with 5 steel clamps***

  Order no. 7979000

SP20 Rack system accessories (from page 70) and general system accessories (from page 88)

Light grey RAL 7035

SP20 Rack – The server rack solution for depths of 900 mm

State-of-the-art rack solutions for all standard server and network components – even for combinations of components from different manufacturers

- Maximum assembly range: 900 mm deep, 600 mm wide
- Maximum security: slot-in side panels with lock, doors with swinghandle and lock
- Optimum ventilation (active or passive)
- Simple to assemble and disassemble – all racks are „demountable"
- Mobile on rollers or with plinth
- 100 % modular system, can be extended at any time
- In light grey RAL 7035 or black RAL 9005, inc. accessories in black
- Extremely strong frame with load bearing capacity of up to 1000 kg; higher load bearing capacities available on request

Dimensions:

- Width: 600 mm
- Height without rollers: 1200 mm and 2000 mm
- Height with rack rollers: 1240 mm and 2040 mm
- Height with plinth: 1300 mm and 2100 mm
- Depth: 900 mm

Material:

- Basic frame: 2.00 mm steel sheet, multi-profiled
- Doors: 1.25 mm steel sheet with multi-folded edges and 3 mm single pane safety glass panel (front door only)
- Side panels: 1.00 mm steel sheet
- Plinth: 1.25 mm steel sheet
- Top/bottom cover panels: 1.25 mm steel sheet
- 482.6 mm (19") mounting angles: 2.00 mm steel sheet

Finish:

- Basic frame, doors, side panels, modules: high-quality powder coating in light grey RAL 7035 or black RAL 9005
- 482.6 mm (19") mounting angles: galvanised

Locking:

- Doors: standard swinghandle with security lock or other standard lock, 2-point locking system
- Side panels: sash fastener with safety lock, additionally screw fastened

International standards:

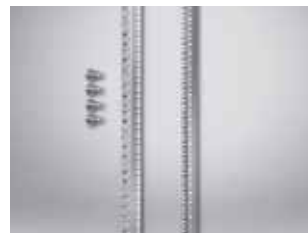- IEC 297-1/2 482.6 mm (19")
- IEC 917-2-1 (metric)

SP20 Rack: complete racks for servers

600 mm wide and 900 mm deep or 800 mm wide and 900 mm deep

Order no. light grey, RAL 7035	6612920	6612940	6620930	6620960	6520960
Order no. black, RAL 9005 – fine structure	**6612930**		**6620940**	**6620970**	**6520970**
Width (mm)	600	600	600	600	800
Height (mm) inc. plinth or rollers	1240	1300	2040	2100	2100
Depth (mm)	900	900	900	900	900
Height units (U)	24	24	42	42	42
EXPRESS Range	>e>		>e>		>e>
Scope of delivery					
Basic frame	1	1	1	1	1
Front door (with safety glass panel)					1
Front door with passive ventilation	1	1	1	1	
Steel rear door, solid					1
Steel rear door with passive ventilation (honeycombe perforation, 81 % open area)		1	1	1	1
Side panels with lock, slot-in	2	2	2	2	2
482.6 mm (19") mounting angles, front	4	4	4	4	4
Depth stays	2	2	2	2	2
Top cover, single piece, with brush strip, two fans* and connector cable					1
Top cover, single piece, prepared for brush strip, 6 fan knock-outs	1	1	1	1	
Open base	1	1	1	1	1
Plinth, passive ventilation, height: 100 mm		1		1	1
Rollers and levelling feet	4		4		
Also supplied					
Earthing kit	1	1	1	1	1
M6 cage nuts, 16 M6 screws, washers	50	50	50	50	50

*2 active fans (162 m³/h (, 45 dB(A) per fan)

>e> only in light grey RAL 7035

The infinitely adjustable centre upright provides the central basis for the installation of all systems of differing depths optional accessories

The door with complete passive ventilation ensures optimal air flow (honeycombe perforation, 81 % open area)

Recommended accessories
- **482.6 mm (19") shelf**
  Order no. 6550500
- **482.6 mm (19") TFT console 17"**
  Order no. 7545500
- **Switchable 24-outlet C13 PDU**
  Order no. 7771600

SP20 Rack system accessories (from page 70) and general system accessories (from page 88)

Light grey RAL 7035   black RAL 9005

SP20 Rack – The server rack solution for depths of 1000 mm

State-of-the-art rack solutions for all standard server and network components – even for combinations of components from different manufacturers

- Maximum assembly range: 1000 mm deep, 600 mm wide
- Maximum security: slot-in side panels with lock, doors with swinghandle and lock
- Mounting planes for installing components of various depths
- Optimum ventilation (active or passive)
- Simple to assemble and disassemble – all racks are „demountable"
- Completely assembled with basic accessories
- Extremely strong frame with load bearing capacity of up to 1000 kg, higher load bearing capacities available on request

Dimensions:

- Width: 600 mm and 800 mm
- Height without rollers: 1200 mm and 2000 mm
- Height with rack rollers: 1240 mm and 2040 mm
- Height with plinth: 1300 mm and 2100 mm
- Depth: 1000 mm

Material:

- Basic frame: 2.00 mm steel sheet, multi-profiled
- Doors: 1.25 mm steel sheet with multi-folded edges and 3 mm single pane safety glass panel (front door only)
- Side panels: 1.00 mm steel sheet
- Plinth: 1.25 mm steel sheet
- Top/bottom cover panels: 1.25 mm steel sheet
- 482.6 mm (19") mounting angles: 2.00 mm steel sheet

Finish:

- Basic frame, doors, side panels, modules: high-quality powder coating in light grey RAL 7035 or black RAL 9005
- 482.6 mm (19") mounting angles: galvanised

Locking:

- Doors: standard pivoted handle with security lock or other standard lock, 2-point locking system
- Side panels: sash fastener with safety lock

International standards:

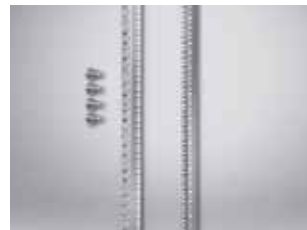- IEC 297-1/2 482.6 mm (19")
- IEC 917-2-1 (metric)

SP20 Rack: complete racks for servers

600 mm wide and 1000 mm deep, 800 mm wide and 1000 mm deep

Order no. light grey, RAL 7035	6612150	6612170	6620120	6620160	6820130	6820150	6820190
Order no. black, RAL 9005 – fine structure	6612160	6612180	6620140	6620180	6820140	6820160	
Width (mm)	600	600	600	600	800	800	800
Height (mm) inc. plinth or rollers	1240	1300	2100	2040	2100	2100	2000
Depth (mm)	1000	1000	1000	1000	1000	1000	1000
Height units (U)	24	24	42	42	42	42	42
EXPRESS Range	>e>				>e>		
Scope of delivery							
Basic frame	1	1	1	1	1	1	1
Front door with safety glass panel					1		
Steel rear door, solid					1		
Steel front door with passive ventilation (honeycombe perforation, 81 % open area)	1	1	1	1		1	1
Steel rear door with passive ventilation (honeycombe perforation, 81 % open area)	1	1	1	1		1	1
Side panels, with lock, slot-in	2	2	2	2	2	2	2
482.6 mm (19") mounting angles, front/rear	4	4	4	4	4	4	4
Depth stays	2	2	2	2	4	4	4
Top cover, single piece, with brush strip, two fans* and connector cable						1	
Top cover, single piece, with brush strip, prepared for fans	1	1	1	1		1	1
Open base	1	1	1	1	1	1	1
Plinth, with passive ventilation, levelling feet, height: 100 mm		1	1		1	1	
Rollers and levelling feet	4			4			
Also supplie							
Earthing kit	1	1	1	1	1	1	
M6 cage nuts, 16 M6 screws, washers	50	50	50	50	50	50	

*2 active fans (162 m3/h (, 45 dB (A) per fan)

>e> Only in light grey RAL 7035

The infinitely adjustable centre upright provides the central basis for the installation of all systems of differing depths optional accessories

Recommended accessories

- **482.6 mm (19") pull-out shelf**
  Order no. 6758500
- **482.6 mm (19") TFT console 17"**
  Order no. 7545500
- **482.6 mm (19") routing panel with 5 steel clamps**
  Order no. 7979000

The door with complete passive ventilation ensures optimal air flow (honeycombe perforation, 81 % open area)

SP20 Rack system accessories (from page 70) and general system accessories (from page 88)

Light grey RAL 7035   Black RAL 9005

SP54 Rack –
The perfectly secure solution for IP54 server racks

IP54 protected

State-of-the-art rack solutions for all standard server and network components – even for combinations of components from different manufacturers

- Maximum assembly range: 900 – 1000 mm deep, 600 – 800 mm wide
- Maximum security:
  side panels screw-fastened, doors with swinghandle and lock
- Circumferential seals
- Simple to assemble and disassemble – all racks are „demountable"
- With plinth
- In light grey RAL 7035
- Extremely strong frame with load bearing capacity of up to 1000 kg; higher load bearing capacities available on request
- IP54 protected

Dimensions:

- Width: 600 mm, 800 mm
- Height without plinth: 1200 mm and 2000 mm
- Depth: 900 mm and 1000 mm

Material:

- Basic frame: 2.00 mm steel sheet, multi-profiled
- Doors: 1.25 mm steel sheet with multi-folded edges and 3 mm single pane safety glass panel (front door only)
- Side panels: 1.00 mm steel sheet
- Plinth: 1.25 mm steel sheet
- Top/bottom cover panels:
  1.25 mm steel sheet
- 482.6 mm (19") mounting angles:
  2.00 mm steel sheet

Finish:

- Basic frame, doors, side panels, modules: high-quality powder coating in light grey RAL 7035
- 482.6 mm (19") mounting angles: galvanised

Locking:

- Doors: standard swinghandle with security lock or other standard lock, 4-point locking system
- Side panels: screw fastened

International standards:

- IEC 297-1/2 482.6 mm (19")
- IEC 917-2-1 (metric)

SP54 Rack: complete racks for servers

600 mm wide and 1000 mm deep, 800 mm wide and 900 mm deep or 800 mm wide and 1000 mm deep

Order no. light grey, RAL 7035	6412120	6420200	6420120	6420150
Width (mm)	600	800	600	800
Height (mm) inc. plinth	1300	2100	2100	2100
Depth (mm)	1000	900	1000	1000
Height units (U)	24	42	42	42
Scope of delivery				
Basic frame	1	1	1	1
Front door with safety glass panel	1	1	1	1
Steel rear door, solid	1	1	1	1
Side panels, screw-fastened, IP54	2	2	2	2
482.6 mm (19") mounting angles at front and rear	4	4	4	4
Depth stay	2	2	2	2
Top cover, single piece, solid	1	1	1	1
Bottom cover, single piece, with brush strip	1	1	1	1
Plinth, solid, with levelling feet, height: 100 mm	1	1	1	1
Also supplied				
Earthing kit	1	1	1	1
M6 cage nuts, 16 M6 screws, washers	50	50	50	50

*Depth adjustable 482.6 mm (19")
mounting angles offer maximum
space for installing systems, sliding
rails and shelves*

*The infinitely adjustable centre
upright provides the central basis for
the installation of all systems of diffe-
ring depths optional accessories*

Recommended accessories

- **482.6 mm (19")shelf, fixed**
  Order no. 6550600

- **24-outlet C 13 power strip**
  Order no. 7771630

- **Side partition panel for heights of 2000 mm**
  Order no. 6782420

Light grey RAL 7035

sound-deadened + dust protected IT Enclosures

SP54 – based IT Enclosures, Standard and Comfort

Standard with shelves

IT Enclosures

Basic frame with removable side-panels and glazed front door – single pane safety glass –, active ventilation and thermostat, sound insulation and mounted on castors for mobility.

- **Standard:** with shelves
- **Comfort:** with complete 19"-system installation (24 or 37 U)

Work stations in separate locations are increasingly being linked together in networks. SCHÄFER IT racks provide the ideal basis for IT infrastructures.

With this elaborate concept, which allows the installation of any IT components, such as servers, hubs, routers, switches and their wiring both for desktops and towers as well as for 482.mm (19") formats, a central enclosure can become the junction for the connection of numerous work stations.

All IT Enclosures consist of a basic frame, on which side panels, front glazed door and sheet steel rear wall can all be detached to guarantee free access for installation and maintenance. Swinghandle with security locks prevent unauthorised access. There are two fans mounted in the roof plate (can be extended to four if required. Installation holes are available) with a thermostat to counter thermal problems right from the outset. All IT Enclosures are provided with sound insulation (approx. 39 dB (A) for 2 fans).

Material:

- Basic rack: 2.00 mm sheet steel
- Doors: 1.25 sheet steel
- Glass: 3 mm single pane safety glass (SPSG)
- Side panels: 1.00 mm steel sheet
- Top/bottom cover panels: 1.25 mm steel sheet

Finish:

- Basic frame, doors, side panels, modules: high-quality powder coating in light grey RAL 7035
- 482.6 mm (19") mounting angles: galvanised

Locking:

- Doors: standard swinghandle with security lock or other standard lock, 4-point locking system
- Side panels: sash fastener with safety lock, additionally screw fastened

Useable internal dimensions:

- Rack height 24 U: (W x H x D) 491 x 1091 x 980 mm
- Rack height 37 U: (W x H x D) 491 x 1691 x 980 mm

Retrofit ventilation kit with two fans, protective grille, cabling and fixing accessories
Order no. 7719300

Comfort with 482.6 mm (19") components

IT Enclosures

| Type | Standard | Standard | Comfort | Comfort |
Order no.	6481000	6481500	6482000	6482500
U	24 U	24 U	37 U	37 U
External dimensions in mm (W x H x D)	600 x 1360 x 1000	600 x 1960 x 1000	600 x 1360 x 1000	600 x 1960 x 1000
Basic model				
Enclosure frame with side panels	1	1	1	1
Glazed front door with 3 mm single-pane safety glass and swinghandle	1	1	1	1
Rear wall	1	1	1	1
19" mounting angle, front			2	2
19" mounting angle, rear			2	2
Shelves, depth 500 mm, fixed installation	2	3		
Castors, 2 locking	4	4	4	4
C-profile rails (mounted depth-wise)	2	2	2	2
Top cover panel with 2 active fans* with temperature regulator inc. noise reduction, mains cable	1	1	1	1
Bottom cover panel, multi-piece, with rubber membrane aperture and passively vented module with filter matting	1	1	1	1
Earthing kit supplied	1	1	1	1

*2 active fans (per fan 162/185m³/h at 43 dB (A))

IT enclosure system accessories (from page 86) and general system accessories (from page 88)

Light grey RAL 7035

Configurator for 600 mm racks

Customised configuration of your own rack

1 **Determine basic frame dimensions (width, height, depth)**

2 Select doors, 19"mounting angles, side panels and plinth

3 **Choose top cover panel**

4 **Choose bottom cover panel**

Completely assembled to your specifications, the rack will be delivered in the shortest possible time.

System accessories can be found from pages 70 and 88!

Sheet steel door, single wing, cloosed

Sheet steel door, double wing, cloosed

IP54 protected

1 Basic Frame, 600 mm width

Width (mm)	600	600	600	600	600	600	600	600	600	600	600	600
Height (mm)	1200	1200	1200	1200	1800	2000	2000	2000	2000	2000	2200	2200
Depth (mm)	600	800	900	1000	900	600	800	900	1000	1200	1000	1200
Internal height (U)	24	24	24	24	37	42	42	42	42	42	46	46
Colour, light grey RAL 7035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035
Colour, black RAL 9005 – fine structure	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005
Basic framework	6612605	6612805	6612905	6611005	6618905	6620605	6620805	6620905	6621005	6621205	6622105	6622125

2 Doors, 19" mounting angles, side panels and plinth

Glass door, single wing, with 3 mm ESG	6980505	6980505	6980505	6980505	6982505	6983505	6983505	6983505	6983505	6983505	6935505	6935505
Sheet steel door, single wing, cloosed	6985005	6985005	6985005	6985005	6987005	6988005	6988005	6988005	6988005	6988005	6936505	6936505
Sheet steel door, double wing, with 3 mm ESG						6756005	6756005	6756005	6756005	6756005	6759005	6759005
Glass door, single wing, with 3 mm ESG, passive ventilation	6990005	6990005	6990005	6990005		6990505	6990505	6990505	6990505	6990505		
Sheet steel door, single wing, passive ventilation (honeycomb perforation, 81 % open area)	6989005	6989005	6989005	6989005	6994005	6989505	6989505	6989505	6989505	6989505	6937505	6937505
Glass door, single wing, with 3 mm ESG, IP 54	6980506	6980506	6980506	6980506		6983506	6983506	6983506	6983506	6983506		
Sheet steel door, single wing, cloosed, IP 54	6985006	6985006	6985006	6985006		6988006	6988006	6988006	6988006	6988006		
Sheet steel door, double wing						6988005	6988005	6988005	6988005	6988005		
Sheet steel door, double wing, passive ventilation (honeycomb perforation, 81 % open area)						6956105	6956105	6956105	6956105	6956105	6957105	6957105
482.6 mm (19") mounting angle, front	6783505	6783505	6783505	6783505	6784505	6785005	6785005	6785005	6785005	6785005	6780505	6780505
482.6 mm (19") mounting angle, front and rear	6783515	6783515	6783515	6783515	6784515	6785015	6785015	6785015	6785015	6785015	6780515	6780515
482.6 mm (19") mounting angles, front, middle and rear			6778005	6778005	6777005	6778505	6778505	6778505	6778505	6778505		
Mounting bracket for 482.6 mm (19") angles, front	6727005	6727005	6727005	6727005	6727005	6727005	6727005	6727005	6727005	6727005	6727005	6727005
Mounting bracket for 482.6 mm (19") angles, front and rear	6728005	6728005	6728005	6728005	6728005	6728005	6728005	6728005	6728005	6728005	6728005	6728005
Mounting bracket for 482.6 mm (19") angles, front, middle and rear			6729005	6729005	6729005	6729005	6729005	6729005	6729005	6729005		
Depth stays for 482.6 mm (19") angles, (4)	6751005	6752005	6753005	6754005	6753005	6751005	6752005	6753005	6754005	6755005	6754005	6755005
Side panels, slot-in (2)	6732005	6932005	6736005	6733005	6734005	6735005	6935005	6737005	6739005	6740005	6738105	6741065
Side panels, screw-fastened, IP54 (2)		6932006	6736006	6733006		6735006	6935006	6737006	6739006	6740006	6742006	6741006
Plinth, with passive ventilation, levelling feet, height 100 mm	6721005	6722005	6726005	6722505	6726005	6721005	6722005	6726005	6722505	6728505	6722505*	6728505*
Plinth, solid, with levelling feet, height 100 mm	6723005	6724005	6725005	6723505	6725005	6723005	6724005	6725005	6723505	6727505	6723205*	6727505*

* Plinth unassembled

Glass door, single wing, with 3 mm SPSG, passive ventilation

Glass door, single wing, with 3 mm SPSG

Glass door, double wing, with 3mm SPSG

Sheet steel door, single wing, passive ventilation (honeycomb perforation, 81% open area)

Sheet steel door, double wing, passive ventilation (honeycomb perforation, 81 % open area)

3 Top cover panels

	IP54, one-piece, solid

Depth	Width 600
600	6705015
800	6715015
900	6720015
1000	6730015
1200	6740015

	One-piece, with brush strip

Depth	Width 600
600	6720095
800	6720105
900	6720115
1000	6730105
1200	6740105

	One-piece with passive ventilation

Depth	Width 600
600	6705035
800	6715035
900	6720035
1000	6730035
1200	6740035

	One-piece, cable brush supplied, 2 fans, assembled

Depth	Width 600
600	6705045
800	6715045
900	6720045
1000	6706705
1200	6707705

	One-piece, cable brush supplied, 4 fans, assembled

Depth	Width 600
600	6705055
800	6715075
900	6720075
1000	6720135
1200	6720145

	One-piece, prepared for cable brush supplied, 6 knockouts for fans

Depth	Width 600
600	6705065
800	6715065
900	6720065
1000	6720125
1200	6720255

	One-piece, prepared for cable brush supplied, and large fan

Depth	Width 600
600	–
800	6715085
900	6720055
1000	6706105
1200	6706305

4 Bottom cover panels

	Multi-piece, solid

Depth	Width 600
600	6615055
800	6615085
900	6620055
1000	6606105
1200	6606205

	Multi-piece, with brush

Depth	Width 600
600	6605035
800	6615035
900	6620035
1000	6606505
1200	6607505

	Single-piece, with passive ventilation

Depth	Width 600
600	6605025
800	6615025
900	6620025
1000	–

	IP54 single-piece, solid

Depth	Width 600
600	–
800	–
900	–
1000	6810016

	IP54 single-piece, with IP cable entry

Depth	Width 600
600	–
800	–
900	–
1000	6815056
1200	6816056

Configurator for 700 mm racks

Configure your own customised rack

1 **Determine basic frame dimensions (width, height, depth)**

2 Select doors, 19" mounting angles, side panels and plinth

3 **Choose top cover panel**

4 **Choose bottom cover panel**

Completely assembled to your specifications, the rack will be delivered in the shortest possible time.

System accessories can be found from pages 70 and 88!

Sheet steel door, single wing, cloosed

IP54 protected

1 Basic Frame, 700 mm width

Width (mm)	700	700	700	700
Height (mm)	2000	2000	2200	2200
Depth (mm)	1000	1200	1000	1200
Internal height (U)	42	42	46	46
Colour, light grey RAL 7035	6007035	6007035	6007035	6007035
Colour, black RAL 9005 – fine structure	6009005	6009005	6009005	6009005
Basic framework	6521005	6521205	6522005	6522205

2 Doors, 19" mounting angles, side panels and plinth

Glass door, single wing, with 3 mm ESG	6583505	6583505	6535505	6535505
Sheet steel door, single wing, cloosed	6588005	6588005	6537005	6537005
Sheet steel door, single wing, passive ventilation (honeycomb perforation, 81 % open area)	6594505	6594505	6595505	6595505
Sheet steel door, double wing, passive ventilation (honeycomb perforation, 81 % open area)	6556005	6556005	6557005	6557005
482.6 mm (19") mounting angle, front	6783005	6783505	6783505	6783505
482.6 mm (19") mounting angle, front and rear	6783015	6783515	6783515	6783515
Cross supports for 482.6 mm (19") angles, front, for symmetrical installation	6543005	6543005	6543005	6543005
Cross supports for 482.6 mm (19") angles, front and rear, for symmetrical installation	6543505	6543505	6543505	6543505
Depth stays for 482.6 mm (19") angles, (4), for asymmetrical installation,	6744005	6745005	6744005	6745005
(both order numbers must be given)	6946305	6946405	6946305	6946405
Bridge for 482.6 mm (19") angles, front, for symmetrical installation	6943315	6943315	6943315	6943315
Bridge for 482.6 mm (19") angles, front and rear, for symmetrical installation	6943325	6943325	6943325	6943325
Depth stays for 482.6 mm (19") angles, (6), for symmetrical installation	6554005	6554505	6554005	6554505
Side panels, screw-fastened, IP54 (2)	6739006	6740006	6742006	6741006
Plinth, with passive ventilation, levelling feet, height 100 mm	6522505	6521505	6522505	6521505
Plinth, solid, with levelling feet, height 100 mm	6523505	6524505	6523505	6524505

Sheet steel door, double wing, cloosed

Glass door, single wing, with 3 mm SPSG

Glass door, double wing, with 3mm SPSG

Sheet steel door, single wing, passive ventilation (honeycomb perfora-tion, 81% open area)

Sheet steel door, double wing, passive ventilation (honeycomb perfora-tion, 81 % open area)

3 Top cover panels

IP54, one-piece, solid

Depth	Width 700
1000	6530015
1200	6540015

One-piece, cable brush supplied, (3 cable entries)

Depth	Width 700
1000	6530115
1200	6540115

One-piece, prepared for cable brush supplied, (3 cable entries) 6 knockouts for fans

Depth	Width 700
1000	6520125
1200	6520225

4 Bottom cover panels

Multi-piece, solid

Depth	Width 700
1000	6506205
1200	6506305

Multi-piece, with brush

Depth	Width 700
1000	6506605
1200	6506705

Configurator for 800 mm racks

Configure your own customised rack

1 **Determine basic frame dimensions (width, height, depth)**

2 **Select doors, 19" mounting angles, side panels and plinth**

3 **Choose top cover panel**

4 **Choose bottom cover panel**

Completely assembled to your specifications, the rack will be delivered in the shortest possible time.

System accessories can be found from pages 70 and 88!

IP54 protected

Sheet steel door, single wing, clloosed

Sheet steel door, double wing, clloosed

1 Basic Frame, 800 mm width

Width (mm)	800	800	800	800	800	800	800	800	800	800	800	800
Height (mm)	1200	1200	1200	1800	1800	2000	2000	2000	2000	2200	2200	2200
Depth (mm)	600	800	900	800	900	800	900	1000	1200	800	1000	1200
Internal height (U)	24	24	24	37	37	42	42	42	42	46	46	46
Colour, light grey RAL 7035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035	6007035
Colour, black RAL 9005 – fine structure	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005	6009005
Basic framework	6812605	6812805	6812905	6818805	6818905	6820805	6820905	6821005	6823005	6822805	6822005	6822205

2 Doors, 19" mounting angles, side panels and plinth

Glass door, single wing, with 3 mm ESG	6981005	6981005	6981005	6983005	6983005	6984005	6984005	6984005	6934005	6936005	6936005	6936005
Sheet steel door, single wing, clloosed	6985505	6985505	6985505	6987505	6987505	6988505	6988505	6988505	6988505	6937005	6937005	6937005
Sheet steel door, double wing, clloosed	6955005	6955005	6955005			6958005	6958005	6958005	6958005	6959005	6959005	6959005
Glass door, double wing, with 3 mm ESG,						6958505	6958505	6958505	6958505	6956005	6956005	6956005
Glass door, single wing, with 3 mm ESG, passive ventilation	6997505	6997505	6997505			6998505	6998505	6998505	6998505			
Glass door, single wing, with 3 mm ESG, IP 54	6981006	6981006	6981006			6984006	6984006	6984006	6984006	6936006	6936006	6936006
Sheet steel door, single wing, clloosed, IP 54	6985506	6985506	6985506			6988506	6988506	6988506	6988506	6937506	6937506	6937506
Sheet steel door, double wing, passive ventilation (honeycomb perforation, 81 % open area)						6956505	6956505	6956505	6956505	6958055	6958055	6958055
Sheet steel door, single wing, passive ventilation (honeycomb perforation, 81 % open area)	6993005	6993005	6993005	6995005	6995005	6994505	6994505	6994505	6994505	6938005	6938005	6938005
482.6 mm (19") mounting angle, front	6783505	6783505	6783505	6784505	6784505	6785005	6785005	6785005	6785505	6780505	6780505	6780505
482.6 mm (19") mounting angle, front and rear	6783515	6783515	6783515	6784515	6784515	6785015	6785015	6785015	6785015	6780515	6780515	6780515
482.6 mm (19") mounting angles, front, middle and rear		6778005	6777005	6777005	6777005	6778505	6778505	6778505	6778505			
Cross support for 482.6 mm (19") angles, front	6943005	6943005	6943005	6943005	6943005	6943005	6943005	6943005	6943005	6943005	6943005	6943005
Cross support for 482.6 mm (19") angles, front and rear	6943505	6943505	6943505	6943505	6943505	6943505	6943505	6943505	6943505	6943505	6943505	6943505
Cross support for 482.6 mm (19") angles, front, middle and rear	6943605	6943605	6943605	6943605	6943605	6943605	6943605	6943605	6943605	6943605	6943605	6943605
Bridge for 482.6 mm (19") angles, front	6943285	6943285	6943285	6943285	6943285	6943285	6943285	6943285	6943285	6943285	6943285	6943285
Bridge for 482.6 mm (19") angles, front and rear	6943215	6943215	6943215	6943215	6943215	6943215	6943215	6943215	6943215	6943215	6943215	6943215
Corner brackets for 482.6 mm (19") angles, front (4)	6943705	6943705	6943705	6943705	6943705	6943705	6943705	6943705	6943705	6943705	6943705	6943705
Corner brackets for 482.6 mm (19") angles, front and rear (8)	6943805	6943805	6943805	6943805	6943805	6943805	6943805	6943805	6943805	6943805	6943805	6943805
Corner brackets for 482.6 mm (19") angles, front, middle and rear (12)	6943905	6943905	6943905	6943905	6943905	6943905	6943905	6943905	6943905	6943905	6943905	6943905
Depth stays for 482.6 mm (19") angles, (4)	6941005	6952005	6953005	6952005	6953005	6952005	6953005	6954005	6954505	6952005	6954005	6954005
Heavy duty rectangular tube extension (1)	6943105	6943105	6943105	6943105	6943105	6943105	6943105	6943105	6943105	6943105	6943105	6943105
Side panels, slot-in (2)	6732005	6932005	6736005	6934005	6734005	6935005	6737005	6739005	6740005	6738005	6738105	6741065
Side panels, screw-fastened, IP54 (2)	6741006	6932006				6935006	6737006	6739006	6740006	6742006		6741006
Plinth, with passive ventilation, levelling feet, height 100 mm	6921005	6922005	6926005	6922005	6926005	6922005	6926005	6922505	6921505	6922005*	6922505*	6921505*
Plinth, solid, with levelling feet, height 100 mm	6923005	6924005	6925005	6924005	6925005	6924005	6925005	6923505	6924505	6924005*	6923505*	6924505*
Plinth, with passive ventilation, levelling feet, height 200 mm		6922205	6926205	6922205	6926205	6922205*	6926205*	6928205*	6921205*	6922205*	6928205*	6921205*
Plinth, solid, with levelling feet, height 200 mm		6924205	6925205	6924205	6925205	6924205*	6925205*	6923205*	6927205*	6924205*	6923205*	6927205*

*plinth supplied, not assembled

Glass door, single wing, with 3 mm SPSG, passive ventilation

Glass door, single wing, with 3 mm SPSG

Glass door, double wing, with 3 mm SPSG

Sheet steel door, single wing, passive ventilation (honeycomb perforation, 81% open area)

Sheet steel door, double wing, passive ventilation (honeycomb perforation, 81 % open area)

3 Top cover panels

IP54, one-piece, solid

Depth	Width 800
600	6905015
800	6915015
900	6920015
1000	6930015
1200	6940015

one-piece, with brush strip

Depth	Width 800
600	6920095
800	6920105
900	6920115
1000	6930115
1200	6940115

one-piece with passive ventilation

Depth	Width 800
600	6905025
800	6915025
900	6920025
1000	6930025
1200	6940025

one-piece, cable brush supplied, (3 cable entries) 2 fans, assembled

Depth	Width 800
600	6905045
800	6915045
900	6920045
1000	6906805
1200	6907805

one-piece, cable brush supplied, (3 cable entries) 4 fans, assembled

Depth	Width 800
600	6905055
800	6915075
900	6920075
1000	6920135
1200	6920145

one-piece, cable brush supplied, (3 cable entries) 6 knockouts for fans

Depth	Width 800
600	6905065
800	6915065
900	6920065
1000	6920125
1200	6920225

one-piece, prepared for brush strip (supplied), and large fan

Depth	Width 800
600	–
800	6915085
900	6920055
1000	6906205
1200	6906305

4 Bottom cover panels

multi-piece, solid

Depth	Width 800
600	6815055
800	6815085
900	6820055
1000	6806205
1200	6806305

multi-piece, with brush

Depth	Width 800
600	6805035
800	6815035
900	6820035
1000	6806605
1200	6806705

single-piece, with passive ventilation

Depth	Width 800
600	6805025
800	6815025
900	6820025
1000	–

IP54 single-piece, solid

Depth	Width 800
600	–
800	6815016
900	6820016
1000	6800606

IP54 single-piece, with IP cable entry

Depth	Width 800
600	–
800	6820106
900	6820036
1000	6806606
1200	6807606

The Excellence Range –
PX Racks from SCHÄFER

In this range, SCHÄFER offers classic network rack solutions and server racks in depths of 800 and 1000 mm and widths of 600 and 800 mm. Customers have the choice between extremely low-priced complete racks as convenient basic versions or solutions with rear doors.

II.

PX Rack

SCHÄFER
IT-SYSTEMS

PX Rack – The Excellence Range

These network and server racks, specially developed for price-conscious customers, provide interesting additions to the standard SP Rack range, thanks to their new frame design.

In this range, SCHÄFER can offer the classical network rack solutions as well as server racks in depths of 800 and 1000 mm and widths of 600 and 800 mm. The customer has the choice between extremely low-cost complete racks, which represent the basic, easy-to-use designs (with rear wall), or solutions including a rear door.

Many of the complete racks can be delivered ex works.

In addition to complete racks, fully customised configurations are also possible, providing the perfect basis for specific projects.

The PX Rack also has the same important assembly benefits – such as the capability of **„halving" the frame** – that make all

SCHÄFER racks so outstanding. This allows easy installation in any location and the rack can be assembled and mounted by one person working alone.

The frame is extremely strong, with a load-bearing capacity of up to 700 kg.

The efficiently designed interior allows 43 height units (U) to be used in the classic two metre PX Rack!

PX Racks can also be bayed together with SP Racks.

Economical project solutions:

PX Racks offer especially good-value project solutions for baying racks.

Standard network technology system accessories can also be used for PX Racks.

Load-bearing capacity of the 19" planes:

- 2 19" installation kits = 400 kg
- 3 19" installation kits = 600 kg
- 4 19" installation kits = 700 kg

New:

- Doors can be installed on all 4 sides!

The sophisticated frame design enables doors to be mounted on all four sides of the PX Rack; SP Rack doors can also be used as surface-mounted doors

PX Rack –
top cover
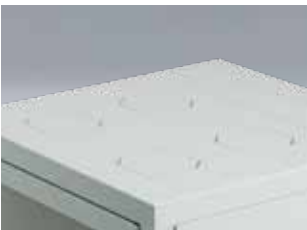
For 800 mm widths, it has 6 knockouts for fans and 3 for cable entry.
For 600 mm widths, it has 6 knockouts for fans and 1 for cable entry

PX Rack –
cladding elements

Doors with and without single pane safety glass (SPSG) with pivoted handle, can be exchanged for pivoted handle (prepared for profile half-cylinder)

PX Rack –
side panels

Side panels slot into place at the bottom and are held in place at the sides by a sash fastener. Can also be used as a rear wall

PX Rack –
depth-adjustable interior

The 19" mounting angles can be attached to both sides of the depth stays. For 800 mm wide PX Racks, an adapter set is required for each 19" plane

Complete Solutions for Networks and Servers

Project and efficiency range with low-cost complete racks

- Models for maximum market coverage with 25 U and 43 U in heights of 1300 and 2100 mm respectively, depths of 800 and 1000 mm and widths of 600 and 800 mm
- Extremely strong framework with a load bearing capacity of up to 700 kg
- Frame is "demountable"
- High quality powder coating finish in light grey RAL 7035 on all cladding components
- All cladding, such as side panels and doors, can be removed in seconds
- Top cover panel prepared for brush strips and/or ventilators (for 800 mm widths, 6 knockouts for fans and 3 for cable entry. For 600 mm widths, 6 knockouts for fans and 1 for cable entry)

- Doors fitted with T-handles and locks, one-point locking system
- Plinths, 100 mm high (always mounted)
- Standard depth-adjustable 482.6 mm (19") mounting angles
- Extreme cost benefit

Material:

- Basic frame: 1.5 mm steel sheet, multi-profiled
- Cladding: 0.75 mm steel sheet

Finish:

- High-quality powder coating in light grey RAL 7035
- Galvanised 482.6 mm (19") mounting angles

Locking:

- Doors: T-handle with lock
- Side panels: sash-fastener with security lock

International standards:

- IEC 297-1/2 482.6 mm (19")
- IEC 917-2-1 (metric)

Light grey RAL 7035

PX Rack Complete Racks: depth 800 mm

Basic rack inc. side panels	7112800	7119810	7120820	7120840	7120860
Colour code	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Internal height	25 U	25 U	43 U	43 U	43 U
External dimensions in mm (W x H x D)	600 x 1300 x 800	800 x 1300 x 800	600 x 2100 x 800	800 x 2100 x 800	800 x 2100 x 800
EXPRESS Range	>e>	>e>	>e>	>e>	>e>
Delivery comprises					
Front glazed door (flush-mounted) with single pane safety glass, T-handle	1	1	1	1	1
Steel rear door (flush-mounted) with T-handle	1	1			1
Steel rear wall (flush-mounted) with 2 locks			1	1	
482.6 mm (19") angles, mounted at front and rear, 4 depth stays	1	1	1	1	1
Top cover panel, solid, brush supplied, (prepared for 1 brush and 6 fans for 600 mm width) (prepared for 3 brushes and 6 fans for 800 mm width)	1	1	1	1	1
Plinth: height 100 mm, passively ventilated, with levelling feet	1	1	1	1	1
Also supplied					
Earthing kit	1	1	1	1	1
Fastening materials (M6 cage nuts and 16 x M6 screws, plastic washers)	50	50	50	50	50

PX Rack Complete Racks: depth 1000 mm

Basic rack inc. side panels	7113900	7113910	7120140	7120190	7120110
Colour code	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7035
Internal height	25 U	25 U	43 U	43 U	43 U
External dimensions in mm (W x H x D)	600 x 1300 x 1000	600 x 1300 x 1000	600 x 2100 x 1000	800 x 2100 x 1000	800 x 2100 x 1000
EXPRESS Range			>e>	>e>	>e>
Delivery comprises					
Front glazed door (flush-mounted), single pane safety glass, T-handle	1			1	
Sheet steel door (flush-mounted) with passive ventilation, rounded perforations front and rear RV 3.8/4.5 and T-handle		1	1		1
Steel rear door (flush-mounted) with T-handle	1			1	
482.6 mm (19") angles, mounted at front and rear, 4 depth stays	1	1	1	1	1
Top cover panel, solid, brush supplied, (prepared for 1 brush and 6 fans for 600 mm width/prepared for 3 brushes and 6 fans for 800 mm width)	1	1	1	1	1
Plinth: height 100 mm, passively ventilated, with levelling feet	1	1	1	1	1
Also supplied					
Earthing kit	1	1	1	1	1
Fastening materials (M6 cage nuts and 16 x M6 screws, plastic washers)	50	50	50	50	50

PX Rack system accessories (from page 82) and general system accessories (from page 88)

Configurator for 600 and 800 mm wide racks

With the PX Rack Configurator, customised rack systems can be put together directly from our standard modules. There are two ways of making up your own personal configuration: use our catalogue or consult our specialists at our back office. The rack will then be delivered fully assembled in the shortest possible time.

- Models for maximum market coverage with 25 U and 43 U in heights of 1300 and 2100 mm, depths of 800 and 1000 mm and widths of 600 and 800 mm
- Extremely strong framework with a load bearing capacity of up to 700 kg
- Frame is "demountable"
- High quality powder coating finish in light grey RAL 7035 on all cladding components
- All cladding, such as side panels and doors, can be removed in seconds
- Top cover modules prepared for brush strips and/or fans (for 800 mm widths, 6 knockouts for fans and 3 cable entry apertures. For 600 mm widths, 6 knockouts for fans and 1 cable entry aperture)
- Doors fitted with T-handles and locks
- Plinths always assembled, 100 mm high
- Standard depth-adjustable 482.6 mm (19") mounting angles
- Side panels can be used on all four racks sides

Material:
- Framework: 1.5 mm steel sheet, multi-profiled
- Cladding: 0.75 mm steel sheet
- Glass pane: 3 mm SPSG

Finish:
- High-quality powder coating in light grey RAL 7035
- Galvanised 482.6 mm (19") mounting angles

Locking:
- Doors: T-handle with lock
- Side panels: T-handle with security lock

International standards:
- IEC 297-1/2 482.6 mm (19")
- IEC 917-2-1 (metric)

Light grey RAL 7035

Configure your own customised rack

 Determine basic frame dimensions (width, height, depth)

 Select doors, 482.6 mm (19") angles, side panels and bottom modules

**The completely assembled rack will be delivered in the shortest possible time.
System accessories can be found from pages 82 and 88!**

Steel sheet door with 3 mm SPSG *Sheet steel door, single wing* *Vented steel sheet door (rounded perforation), single wing*

1 Basic Frame

	600	800	600	600	800	600	800
Width (mm)	600	800	600	600	800	600	800
Height (mm)	1300	1300	1300	2100	2100	2100	2100
Depth (mm)	800	800	1000	800	800	1000	1000
Useable height (U)	25	25	25	43	43	43	43
Colour: Light grey RAL 7035 smooth finish							
Basic framework	7613805	7813805	7613105	7621805	7821805	7621105	7821105

2 Doors, 482.6 mm (19") mounting angles and side panels

Front glazed door (flush-mounted) with single pane safety glass, T-handle	7612005	7812005	7612005	7620505	7820505	7620505	7820505
Steel door (flush-mounted), with T-handle	7685005	7885005	7685005	7688505	7888505	7688505	7888505
Steel panel (flush-mounted) with 2 locks	7831105	7832105	7831105	7833105	7835105	7833105	7835105
Steel door (flush-mounted), with passive ventilation, round perforation RV 3.8/4.5 and T-handle	7689005	7892005	7689005	7889505	7893505	7889505	7893505
Side panels (flush-mounted) with 2 sash fasteners	7832005	7832005	7838005	7835005	7835005	7839005	7839005
Bottom module, multi-piece, solid	7615805	7815085	7606105	7615805	7815085	7606105	7806205
Bottom module, multi-piece, solid, with brush strip	7615035	7815035	7606505	7615035	7815035	7606505	7806605
Installation kit for 482.6 mm (19") mounting angles (4 depth stays)	7628005	7628005	7620005	7628005	7628005	7620005	7620005
482.6 mm (19") adapter for 800 mm widths for each plane		7828005			7828005		7828005
482.6 mm (19") mounting angle, front	7783505	7783505	7783505	7785005	7785005	7785005	7785005
482.6 mm (19") mounting angle, front and rear	7783515	7783515	7783515	7785015	7785015	7785015	7785015
482.6 mm (19") mounting angle, front, middle and rear	7778005	7778005	7778005	7778505	7778505	7778505	7778505

Economical and easy to assemble –
Wall Racks and Mini Racks from SCHÄFER

The NT Box Wall Rack was specially developed for small networks, sub-distributors and floor distributors.

III.

SCHÄFER
IT-SYSTEMS

NT Box

Economical and easy to assemble

- High-grade steel housing (light grey RAL 7035) complete with 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, inc. 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, from 6 – 21 U

The wall-mounted NT Box was specially developed 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 pin and replace them in the fixings provided.

Cable entry apertures with brush strips are fitted in the top and bottom panels and/or rear panel and can be replaced by flange plates on request. The side panels are passively ventilated.

The NT Box is available in 18 different sizes. 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: 1.5 mm steel sheet

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

Locking:
- Security lock (standard) Handle for a profile half cylinder (optional, see page 84)

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

Delivery comprises:
- 1 framework housing with 2 brush strips
- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- 2 x 482. 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

Light grey RAL 7035

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

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

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

Only the 19" 1 + 2U shelves can be installed in the Boxes as fixed or sliding shelves (depth: min. 500 mm)

Depth (mm)	EXPRESS Range	Height units (U)	Width (mm)	Height (mm)	Order no.
400		6	570	350	**7306400**
400		9	570	475	**7309400**
400		12	570	625	**7312400**
400		15	570	750	**7315400**
400		18	570	875	**7318400**
400		21	570	1025	**7321400**
500	>e>	6	570	350	**7306500**
500	>e>	9	570	475	**7309500**
500	>e>	12	570	625	**7312500**
500	>e>	15	570	750	**7315500**
500	>e>	18	570	875	**7318500**
500	>e>	21	570	1025	**7321500**
600		6	570	350	**7306600**
600		9	570	475	**7309600**
600		12	570	625	**7312600**
600		15	570	750	**7315600**
600		18	570	875	**7318600**
600		21	570	1025	**7321600**

NT Box system accessories (from page 84) and general system accessories (from page 88)

Practical delivery form and quick to assemble   Flat-Pack

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

Slide the floor into the longitudinal slits provided and secure it with corner connectors, which are then fastened into place by screws

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

Order no.	7406500	7409500	7412500	7415500	7418500	7421500
Useable height U (mm)	6 (350)	9 (475)	12 (600)	15 (750)	18 (875)	21 (1000)
External dimensions in mm (W x D)			570 x 500			
EXPRESS range	>e>	>e>	>e>	>e>	>e>	>e>
Delivery comprises						
Rear wall panel	1	1	1	1	1	1
Roof and floor panels with brush strips	2	2	2	2	2	2
Corner connectors for mounting the frame and vertical stays	4	4	4	4	4	4
Side panels with passive ventilation	2	2	2	2	2	2
Glass door, front, with lock	1	1	1	1	1	1
482.6 mm (19") mounting angles for front installation	2	2	2	2	2	2
Earthing kit	1	1	1	1	1	1

NT Box system accessories (from page 84) and general system accessories (from page 88)

Light grey RAL 7035

For optimal accessibility

- High-grade steel housing (light grey RAL 7035) complete with basic equipment
- Hinged centre section, 500 mm, with a two-way lock
- 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, 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, from 6 – 18 U

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: 1.5 mm steel sheet

Finish:

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

Locking:

- Security lock in glazed door
- Two-way lock in central mounting frame

Delivery comprises:

- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- Fixed wall panel with perforations, brush strips supplied, inc. 3 mm two-way lock and key
- Swivel mounting frame, inc. 2 x 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 450 mm

Order no.	7306650	7309650	7312650	7315650	7318650
Useable height (U)	6 (350)	9 (475)	12 (600)	15 (750)	18 (875)
External dimensions in mm (W x D)		570 x 650 (150 + 500)			
Delivery comprises					
Fixed wall panel with perforations, brush strips supplied, inc. 3mm two-way lock and key	1	1	1	1	1
Swivel mounting frame, inc. 2 x 482.6 mm (19") mounting angles for front installation	1	1	1	1	1
2 side panels with passive ventilation	2	2	2	2	2
Front glazed door with lock	1	1	1	1	1
Earthing kit, supplied	1	1	1	1	1

NT Box Slimline

The Space Savers

- High-grade steel housing (light grey RAL 7035) complete with basic equipment
- Mounted ready for installation, glazed 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 distributors.

Light grey RAL 7035

Material:
- Framework: 1.25 mm steel sheet
- Door: 4 mm single pane safety glass panel
- 482.6 mm (19") mounting angles: 1.5 mm steel sheet
- Angled door at rear, removable: 1.25 mm steel sheet

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

Locking:
- Security lock

Delivery comprises:
- 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 depth U (mm)	4 (245)	6 (350)
External dimensions in mm (W x H)	600 x 600	
EXPRESS range	>e>	>e>
Delivery comprises		
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

Small but smart

- High-grade steel housing (light grey RAL 7035) complete with 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, glazed door at front, inc. lock, 482.6 mm (19") mounting angles at front, cable entry apertures in bottom cover and rear wall

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: 1.5 mm steel sheet

Finish:

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

Locking:

- Security lock

Delivery comprises:

- 1 framework housing with 2 brush strips
- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- 2 x 482.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

Order no.	7318680	7318690
Useable height U (mm)	18 (910)	18 (910)
Dimensions in mm (W x D)	570 x 600	
EXPRESS range	〉e〉	
Delivery comprises		
Basic housing with levelling feet, brush strips in floor and rear wall, top cover panel prepared for additional brush strip or fan	1	1
482.6 mm (19") mounting angle, front mounted	1	1
Side panels, with passive ventilation	2	2
Glass front door, with lock	1	
Steel door, with lock and passive ventilation		1
Earthing kit	1	1

NT Box system accessories (from page 84) and general system accessories (from page 88)

NT Universal Rack

All-round access

Light grey RAL 7035

*Universal rack with
482.6 mm (19") mounting plane*

**Component and cable accommodation
with easy access from all sides**

This practical universal rack, as a mobile or
stationary open unit, can accommodate all
482.6 mm (19") components on 45 height
units. The torsion-resistant frame made of
1.5 mm sheet steel with plinth is a very stable
structure. Its all-round accessibility makes
installation easy. All accessories from the
SCHÄFER IT standard range are of course fully
compatible.

2 mounting planes can be installed one
behind the other.

All parts have to be ordered separatly!

Finish:

- Powder coating in RAL 7035 light grey

Useable height:

- 45 U

Weight:

- Approx. 20 kg, 482.6 mm (19")
  mounting angle, approx. 13.5 kg
- Load bearing capacity up to 200 kg,
  with plinth
  Load bearing capacity up to 800 kg,
  when mounted on ground

External dimensions (W x H):

- 609 x 2092 mm

Base plate dimensions (W x D):

- External width 600 mm
- Depth: 700 mm

Universal rack	order no.
45 U inc. 482.6 mm (19") mounting angle	**7495100**
Plinth, mobile	**7495600**
Wall mounting brackets, 4 pieces	**7495700**

Secure Accommodation for Hardware in an
Industrial Environment – IT Enclosures from SCHÄFER

Ideal for use in the industry to protect equipment from external influences.

IV.

PC Racks
PC Enclosures

SCHÄFER
IT-SYSTEMS

Effective Protection
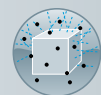
IP54 protected

PC Case Comfort

- For the secure accommodation of PC's, printers, monitors, keyboard and mouse in an industrial environment
- Colour: rack, light grey RAL 7035 / Front, Gentian blue, RAL 5010
- Complete with two fixed, galvanised shelves, height adjustable in mounting hole pitch pattern
- Front door and fold-up keyboard tray can be locked separately
- Keyboard tray with detachable mouse pad (for right or left-handers)
- Useable internal dimensions in mm (W x H x D): 530 x 1620 x 510
- Comfort model with IP54 protected
- Keyboard dimensions in mm (W x H x D): 480 x 50 x 215
- Height of keyboard tray top edge above floor: 1040 mm

Rack trolley with castors

IT Enclosures	EXPRESS range	Order no.
PC Case Basic	>e>	**7530000**
External dimensions in mm (W x H x D) 640 x 1800 x 600		
PC Case Comfort (IP54 protected)	>e>	**7540000**
External dimensions in mm (W x H x D) 640 x 1800 x 600		

Light grey RAL 7035 / Gentian blue RAL 5010

PC Case Fokus

PC Case Fokus workstation

Active fan set (2 fans)

- Ideal for the secure accommodation and safekeeping of PCs, printers, monitors, keyboard and mouse in an office environment
- Colour: rack and door, aluminium silver/design strip, black RAL 9011
- The pitch pattern inside enables the height of the shelves to be varied and 482.6 mm (19") mounting angles to be installed, as an option
- Monitor shelf installed
- Separately accessible keyboard tray with fold-up front panel and security lock
- 4 double castors, 2 with locking bolt
- Useable internal dimensions in mm (W x H x D): 539 x 1680 x 735
- Removable rear wall panel with security lock

IT Enclosures	EXPRESS range	Order no.
PC Case Fokus	>e>	**7560000**
External dimensions in mm (W x H x D) 620 x 1930 x 795		
PC Case Fokus Workstation		**7560500**
Bottom front door with quick access to printer and printer shelf		
External dimensions in mm (W x H x D) 620 x 1930 x 795		

Aluminium silver, similar to RAL 7001 / Black RAL 9011

Effective Protection

IP54 protected

- Protects computers from unauthorised access, dirt and moisture, IP54 protected
- Protective steel sheet casing, completely powder coated
- External dimensions in mm
  (H x W x D): 500 x 250 x 500/600 x 250 x 620
- Useable internal dimensions in mm
  (H x W x D): 450 x 204 x 450/550 x 204 x 570
- PC enclosure depth: max. 380 or 500 mm
- Steel sheet front door with circumferential seal and SPSG window
- Sash-fastener lock, closure 2233
- Rear side cable entry for 6 cables
- Inc. air intake filter and axial fan, aeration capacity (free blowing) 11 m³/hr
  (with filter fan 8 m³/hr)

IT Enclosures

Dimensions H x W x D (mm)	Colour case/doors	Type	Order no.
500 x 250 x 500	Light grey RAL 7035/Gentian Blue RAL 5010	Mini	**84004642**
600 x 250 x 620	Light grey RAL 7035/Gentian Blue RAL 5010	Midi	**84004694**

*Light grey RAL 7035 /
Gentian blue RAL 5010*

Mobile IT Rack

Order no. 87095262

Practical, quick and easy access to keyboard

Strong floor storage shelf

- Steel housing, powder-coated in light grey RAL 7035
- Graphite worktop for documents
- Ventilated sheet steel door with safety cylinder lock, two keys
- Strong keyboard drawer
- Separate lockable keyboard tray enables quick access to keyboard
- Practical rear-side cable entry
- Monitor housing H x W x D (mm): 550 x 540 x 270 for screens up to 482.6 mm (19")
- 4 strong castors, 2 with arrestors
- Bottom rack with 1 storage shelf for PC, printer or workshop utensils

IT Terminals

Dimensions H x W x D (mm)	Colour case/doors	Order no.
1640 x 600 x 600	Light grey RAL 7035	**87095262**
1640 x 600 x 600	Aluminium silver	**87095263**
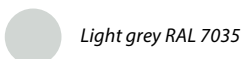
⬤ *Light grey RAL 7035*   ⬤ *Aluminium silver, similar to RAL 9006*

Data centre and water-cooled server rack solutions from SCHÄFER

UNIQLE
5 Elements • 1 System

LOOPUS

COLD SECTION [ ]

SWAP PANEL 9

Air-conditioned, scalable, robust, space-saving, economical, reliable, with high availability, always controllable from anywhere and with all SCHÄFER services included – this is what the data centre and water-cooled server rack solutions from SCHÄFER can offer you.

V.

Data centre and water-cooled server rack solutions
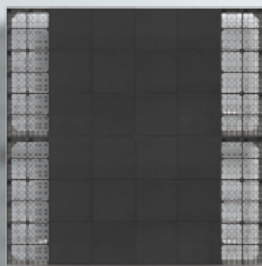
SCHÄFER
IT-SYSTEMS

UNIQLE – 5 Elements · 1 System

With UNIQLE, SCHÄFER offers a system platform to meet current and future requirements.

- ■ Scalable
- ■ Modular design
- ■ IP54 protected
- ■ Variable connecting technology
- ■ All-round 25 mm pitch pattern without switch rack appearance
- ■ Load-bearing capacity of up to 1000 kg
- ■ 1 U taken up by RMS
- ■ Demountable
- ■ Rack dimensions for UNIQLE solutions: 50 U, front and rear, height: 2240 mm inc. rollers and 54 U, front and rear, height: 2440 mm inc. rollers
- ■ Width: 800 mm
- ■ Depth: 1200 mm
- ■ Weight with cooling unit: approx. 245 kg
- ■ Weight without cooling unit: approx. 165 kg

Black RAL 9005

Type	Order no.
UNIQLE, 4 – 21 kW usable cooling capacity with RMS and regulator 800 x 2400 x 1200 mm, 35 U horizontal/15 U vertical, black RAL 9005 – fine structure	**6420220**
UNIQLE, 4 – 21 kW usable cooling capacity with RMS and regulator 800 x 2440 x 1200 mm, 39 U horizontal/15 U vertical, black RAL 9005 – fine structure	**6420240**
UNIQLE, 4 bis 21 kW usable cooling capacity with RMS and regulator lower section 800 x 600 x 1200 mm, black RAL 9005 – fine structure	**6420520**
Optional	
UNIQLE pipe set (VE/2 pipes) 2 m long	**6420260**
UNIQLE RMS emergency control	**6420280**
UNIQLE condensation pump	**6420300**
UNIQLE trays 2 U	**6420360**
UNIQLE trays 3 U	**6420340**
UNIQLE automatic door opening system, UNIQLE standard	**6420500**
UNIQLE lower section	**6420520**
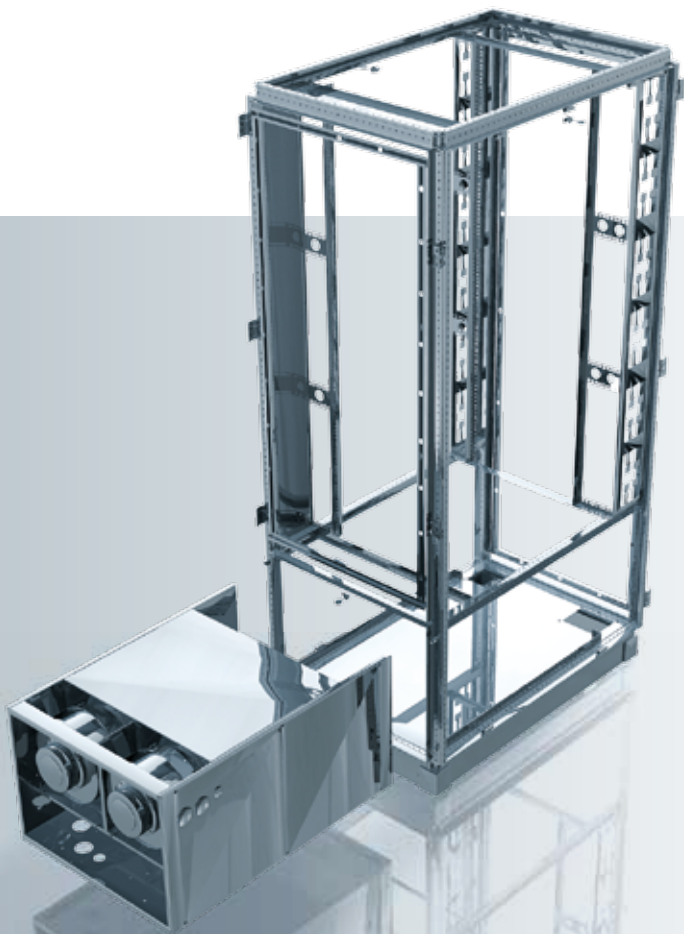
The 5 Elements

- SP54 Rack
- Cooling System
- Rack Control
- Power Management
- Partnership Management

> **Please note: Pipe work and a cold water generator are to be provided by the customer. Air-intake temperature is regulated by RMS with integrated control. Operation and configuration via SNMP or http.**

- Full integration as a compact unit
- From 4 to 21 kW usable cooling capacity
- 100 % circulating air operation
- Thermally independent of the ambient air
- Parts carrying cooling water in separate housing

With UNIQLE, SCHÄFER is systematically implementing the principle of a cooling system integrated in the server rack. The decision for integration is a logical step.

Argument 1: Energy efficiency

- Low pressure loss, pump rating correspondingly lower
- Long fan lifetimes as fans are not mounted in heated sections

Argument 2: Space efficiency

Server space is not unlimited! And through the trend to higher and higher computer performance accompanied by a greater packing density, server racks must guarantee a maximum of space efficiency. This enables the maximum computer density per m² of floor space to be achieved.

Comparison of floor space

- UNIQLE (integrated cooling system),
  floor area in mm (W x H x D): 800 x 2240 x1200
- Server rack of 800 mm width with side cooling solution (300 mm),
  floor space in mm (W x H x D): 1100 x 2200 x 1200

Floor space needed for 100 U

- UNIQLE   1.92 m²
- Server rack   3.96 m²

Cooling Unit Features

1 cooling unit (self-supporting, insulated housing) installed in lower section of the UNIQLE unit, consisting of:

- 1 high-capacity heat exchanger
- 1 electrically actuated 3-way valve
- 2 fans (electronically controlled)
- 1 fuse box

Technical features

- Protective housing for heat exchanger
- Maintenance during operation
- Automatic circuit breaker operated from front

Cooling Unit technical data

Operating voltage	230 volts
Power consumption	1.04 kW
Input current	6 A
Spread chilled water	12/18°
Max. air capacity	3500 m²/h
Water throughput rate	2.9 m³/h
Air supply temperature to server	21° C – 25° C
Dissipated heat	approx. 700 Watt (at 21 KW refrigeration capacity/20° C ambient temperature) approx. 300 Watt (at 7 KW refrigeration capacity/23° C ambient temperature)
Water connection for heat exchanger	3/4" external thread (from below)
Connection for condensate tray	5/8" hose connection
Pressure loss (water-side)	1 bar max. (inc. 3-way valve)
Operating pressure heat exchanger	10 bar
Coolant	water (optional: glycol mixture)

Water-cooled rack with heat exchanger below the server

**2200 mm
(46 U)**

**1800 mm
(37 U)**

600 mm

600 mm
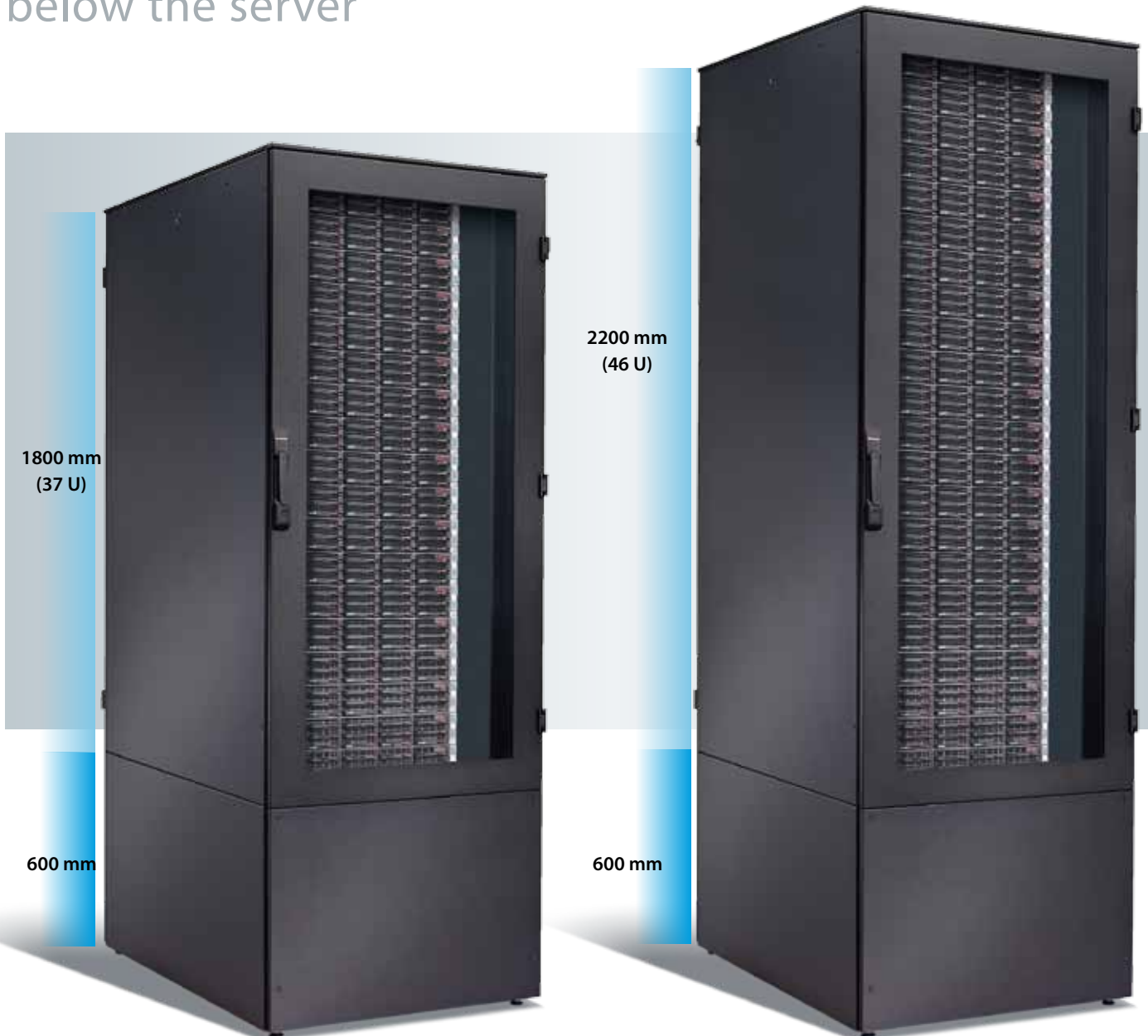
The UNIQLE modular, water-cooled high-density Rack solution, gives you the perfect operating climate for your high-performance computers.

The heat exchanger at the bottom of the rack is supplied with cold water and provides up to 21 kilowatts of usable cooling capacity. The cooling-on-demand principle will supply the servers with precisely the cooling capacity needed to cover the server's thermal requirements by means of air circulation. Compared to static cooling systems, this leads to significant energy savings.

The UNIQLE system using 37 U to 58 U can be assembles on less than one square meter of space, depending on what is available. This is possible due to the separation of the air-water heat exchanger and the SCHÄFER server racks (available in heights of 1800 to 2200 mm) into two units.

This way, UNIQLE combines high user-friendly availability with extreme energy efficiency.

Additional
12 U =
58 U

● *Black RAL 9005*

Article no. for lower section, see page 58

Benefits at a glance

- Effective cooling allows maximum computer density
- Usable cooling capacity of up to 21 kilowatts
- Energy efficient due to reduced volume of equipment to be cooled
- High availability
- Integrated rack management system for permanent monitoring
- Increased fan service life, due to installation outside hot zones
- Load bearing capacity of up to 1.000 kilos
- IP54 protected
- Air-water heat exchanger and server rack as separate units → enables quicker and easier replacement of standard server rack (modular design)
- Low space requirement: footprint 800 x 1200 mm (space efficient)

LOOPUS – high efficiency, water-based side cooler solution for server racks

System available as an open or closed loop air cycle, designed for use in new or existing data centres. Useable cooling capacity per rack, up to 30 kW.

LOOPUS
Closed Loop System with
CLS side cooler

LOOPUS: OLS Side Cooler	Order No. RAL 7035	Order No. RAL 9005
Basis: SP20 Frame, cooler, passively ventilated front door, W/H/D: 300 x 2000 x 1200 mm	6421200	6421250
Basis: Frame SP20, cooler, passively ventilated front door, W/H/D: 300 x 2000 x 1200 mm	6421300	6421350
Rear door		
Rear door, B/H: 300 x 2000 mm, passively ventilated	6421400	6421450
Rear door, B/H: 300 x 2000 mm, closed	6421500	6421550
Rear door, B/H: 300 x 2200 mm, passively ventilated	6421600	6421650
Rear door, B/H: 300 x 2200 mm, closed	6421700	6421750
Side panels		
Side walls screw fastened, D/H: 1200 x 2000 mm, air inlets (at rear) in left and right side walls	6423000	6423050
Side walls screw fastened, D/H: 1200 x 2000 mm, air inlets (at rear) in left side wall, right side wall is solid	6422600	6422650
Side walls screw fastened, D/H: 1200 x 2000 mm, air inlets (at rear) in right side wall, left side wall is solid	6422700	6422750
Side walls screw fastened, D/H: 1200 x 2000 mm, right and left walls are solid, no top hat profile	6744060	6744050
Side walls screw fastened, D/H: 1200 x 2200 mm, air inlets (at rear) in left and right side walls	6423100	6423150
Side walls screw fastened, D/H: 1200 x 2200 mm, air inlets (at rear) in side left wall, right side wall is solid	6422800	6422850
Side walls screw fastened, D/H: 1200 x 2200 mm, air inlets (at rear) in right side wall, left side wall is solid.	6422900	6422950
Side walls screw fastened, D/H: 1200 x 2200 mm, right and left side walls are solid, no top hat profile	6743060	6743050

LOOPUS: CLS Side Cooler	Order No. RAL 7035	Order No. RAL 9005
Basis: Frame SP20, cooler, closed front-rear door W/H/D: 300 x 2000 x 1200 mm	6421000	6421050
Basis: Frame SP20, cooler, closed front-rear door W/H/D: 300 x 2200 x 1200 mm	6421100	6421150
Side panels		
Side walls screw fastened, D/H: 1200 x 2000 mm, Air-inlet/air-outlet openings in right and left side walls	6422000	6422050
Side walls screw fastened, D/H: 1200 x 2000 mm, air-inlet/air-outlet openings in left side wall, right side wall is solid	6422100	6422150
Side walls screw fastened, D/H: 1200 x 2000 mm, air-inlet/air-outlet openings in right side wall, left side wall is solid	6422200	6422250
Side walls screw fastened, D/H: 1200 x 2200 mm, air-inlet/air-outlet openings in left and right side walls	6422300	6422350
Side walls screw fastened, D/H: 1200 x 2200 mm, air-inlet/air-outlet openings in left side wall, right side wall is solid	6422400	6422450
Side walls screw fastened, D/H: 1200 x 2200 mm, air-inlet/air-outlet openings in the right side wall, left side wall is solid	6422500	6422550

LOOPUS
CLS side cooler

LOOPUS
OLS side cooler

LOOPUS
OLS side cooler

Please note: *the customer must provide pipe work and a cold water generator*

Cooling Unit Features:

1 cooling unit (self-supporting, insulated housing) installed in lower section of the UNIQLE unit, consisting of:

- ■ 1 high-capacity heat exchanger
- ■ 1 electrically actuated 3-way valve
- ■ 5 fans (electronically controlled)
- ■ 1 powerbar

Technical features:

- ■ Maintenance during operation
- ■ Fan operated from front

Article	Order no.
WIB 8000 (Network connection)	**6430100**
Sequensing cable	**6430200**
Splitter	**6430300**
Hose set (2 pieces)	**6420270**

○ *Light grey RAL 7035* ● *Black RAL 9005*

Cooling Unit technical data:

Operating voltage	230 volts
Power consumption	915 Watt
Input current	4 A
Spread chilled water	12/18° depending on type
Max. air capacity	4000 m²/h
Air supply temperature to server	21° C – 25° C
Water connection for heat exchanger	1" internal thread (from below)
Connection for condensate tray	hose connection
Pressure loss (water-side)	1 bar max. (inc. 3-way valve)
Operating pressure heat exchanger	10 bar
Coolant	water (optional: glycol mixture)

LOOPUS (DX) coolant-based on request

COLD SECTION – the flexible cold-aisle enclosure

COLD SECTION:

The solution for efficient cold/warm aisle separation

- Avoiding air short circuits
  (warm and cold air mixing together)

Arguments:

- Economical solution
- Scalability of additional cooling (e.g. UNIQLE or LOOPUS)
- Raised floor makes cooling capacity adaptable
- Easy assembly

Light grey RAL 7035   Black RAL 9005

Article	Rack width	Aisle width	Rack height	Rack depth	Colour	Order no.
Sliding door system front/rear		1000 mm	2000 mm	ab 900 mm	light grey RAL 7035	**6340000**
		1000 mm	2000 mm	ab 900 mm	black RAL 9005	**6340050**
		1200 mm	2000 mm	ab 900 mm	light grey RAL 7035	**6340100**
		1200 mm	2000 mm	ab 900 mm	black RAL 9005	**6340150**
		1800 mm	2000 mm	1000/1200 mm	light grey RAL 7035	**6340700**
		1800 mm	2000 mm	1000/1200 mm	black RAL 9005	**6340750**
		1000 mm	2100 mm	ab 900 mm	light grey RAL 7035	**6340800**
		1000 mm	2100 mm	ab 900 mm	black RAL 9005	**6340850**
		1200 mm	2100 mm	ab 900 mm	light grey RAL 7035	**6340200**
		1200 mm	2100 mm	ab 900 mm	black RAL 9005	**6340250**
		1800 mm	2100 mm	1000/1200 mm	light grey RAL 7035	**6340500**
		1800 mm	2100 mm	1000/1200 mm	black RAL 9005	**6340550**
		1000 mm	2200 mm	ab 900 mm	light grey RAL 7035	**6340600**
		1000 mm	2200 mm	ab 900 mm	black RAL 9005	**6340650**
		1200 mm	2200 mm	ab 900 mm	light grey RAL 7035	**6340300**
		1200 mm	2200 mm	ab 900 mm	black RAL 9005	**6340350**
		1800 mm	2200 mm	1000/1200 mm	light grey RAL 7035	**6340900**
		1800 mm	2200 mm	1000/1200 mm	black RAL 9005	**6340950**
		1200 mm	2300 mm	ab 900 mm	light grey RAL 7035	**6340400**
		1200 mm	2300 mm	ab 900 mm	black RAL 9005	**6340450**
Aisle roof with laminated PVC	300 mm	1000 mm				**6341300**
inc. 2 brush strips to separate	300 mm	1200 mm				**6341700**
the racks from the raised floor	300 mm	1800 mm				**6341800**
	600 mm	1000 mm				**6341600**
	600 mm	1200 mm				**6341100**
	600 mm	1800 mm				**6341200**
	700 mm	1000 mm				**6341000**
	700 mm	1200 mm				**6341900**
	700 mm	1800 mm				**6341910**
	800 mm	1000 mm				**6341920**
	800 mm	1200 mm				**6341400**
	800 mm	1800 mm				**6341500**
Support bracket for aisle ceiling ca. 100 mm	300 mm				light grey RAL 7035	**6342300**
packaging unit: 2 items	300 mm				black RAL 9005	**6342350**
	600 mm				light grey RAL 7035	**6342100**
	600 mm				black RAL 9005	**6342150**
	700 mm				light grey RAL 7035	**6342500**
	700 mm				black RAL 9005	**6342550**
	800 mm				light grey RAL 7035	**6342200**
	800 mm				black RAL 9005	**6342250**
	2400 mm				light grey RAL 7035	**6345100**
	2400 mm				black RAL 9005	**6345150**
Support bracket for aisle ceiling ca. 200 mm	300 mm				light grey RAL 7035	**6343300**
packaging unit: 2 items	300 mm				black RAL 9005	**6343350**
	600 mm				light grey RAL 7035	**6343100**
	600 mm				black RAL 9005	**6343150**
	700 mm				light grey RAL 7035	**6343400**
	700 mm				black RAL 9005	**6343450**
	800 mm				light grey RAL 7035	**6343200**
	800 mm				black RAL 9005	**6343250**
	2400 mm				light grey RAL 7035	**6345200**
	2400 mm				black RAL 9005	**6345250**
Cladding panel (2x B/H 800x1200)					light grey RAL 7035	**6344300**
					black RAL 9005	**6344350**
Ceiling elevation 200 mm front/rear			1000 mm		light grey RAL 7035	**6344000**
above the sliding doors			1000 mm		black RAL 9005	**6344050**
			1200 mm		light grey RAL 7035	**6344100**
			1200 mm		black RAL 9005	**6344150**
			1800 mm		light grey RAL 7035	**6344200**
			1800 mm		black RAL 9005	**6344250**
Support bracket (F) profile, anodized for beginning-/endracks, for 300 mm wide SP Racks	300 mm					**6344400**
Support bracket (F) profile, anodized for beginning-/endracks, for 600 mm wide SP Racks	600 mm					**6344500**
Support bracket (F) profile, anodized for beginning-/endracks, for 700 mm wide SP Racks	700 mm					**6344600**
Support bracket (F) profile, anodized for beginning-/endracks, for 800 mm wide SP Racks	800 mm					**6344700**

Article			length	height	colour	order no.
Sandwichplate			2400 mm	100 mm	light grey RAL 7035	**6345100**
					black RAL 9005	**6345150**
			2400 mm	200 mm	light grey RAL 7035	**6345200**
					black RAL 9005	**6345250**
Brush strip (packaging unit, 1 item)			1000 mm	15 mm	light grey RAL 7035	**6336100**
separation of rack/raised floor (available with aisle ceiling)					black RAL 9005	**6336150**

Modular and flexible – SWAP PANEL 9

Flexible raised floor systems are now an integral part of modern data centre architecture. Access to the installations room must be possible at all times without disrupting operations. Elevated floor systems must comply with certain essential criteria:

1. Walkability
2. Accessibility
**3. Air flow capacity**
4. Cable routing

As the grid dimensions of IT server racks normally deviate from standard elevated floor dimensions (600 x 600 mm), floor panels are often permanently blocked by the racks erected on them. Accessibility for cabling is no longer

sufficiently guaranteed, the cooling air from the elevated floor can no longer be guided precisely to the places where it is needed.
No modifications are possible during operation, the available free clearance has not been used to optimum effect.

The modular and flexible SWAP PANEL 9 elevated floor system from SCHÄFER IT-Systems now offers a range of different floor elements specially adapted to use in data centres. An innovative frame accommodates 9 tiles (each 200 x 200 mm) which can be adapted to very different functional requirements: standard and heavy duty loads, ventilation and cable routing. Breaking up the rigid 600 x 600 mm pattern makes precisely routed air circulation and cable routing possible.

SWAP PANEL 9 elevated floor elements are compatible with standard 600 x 600 mm elevated floor panels. So existing floors can be fitted with the new system quickly and flexibly.
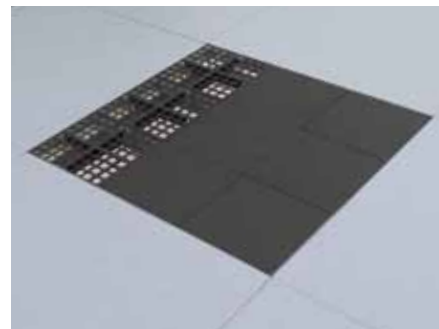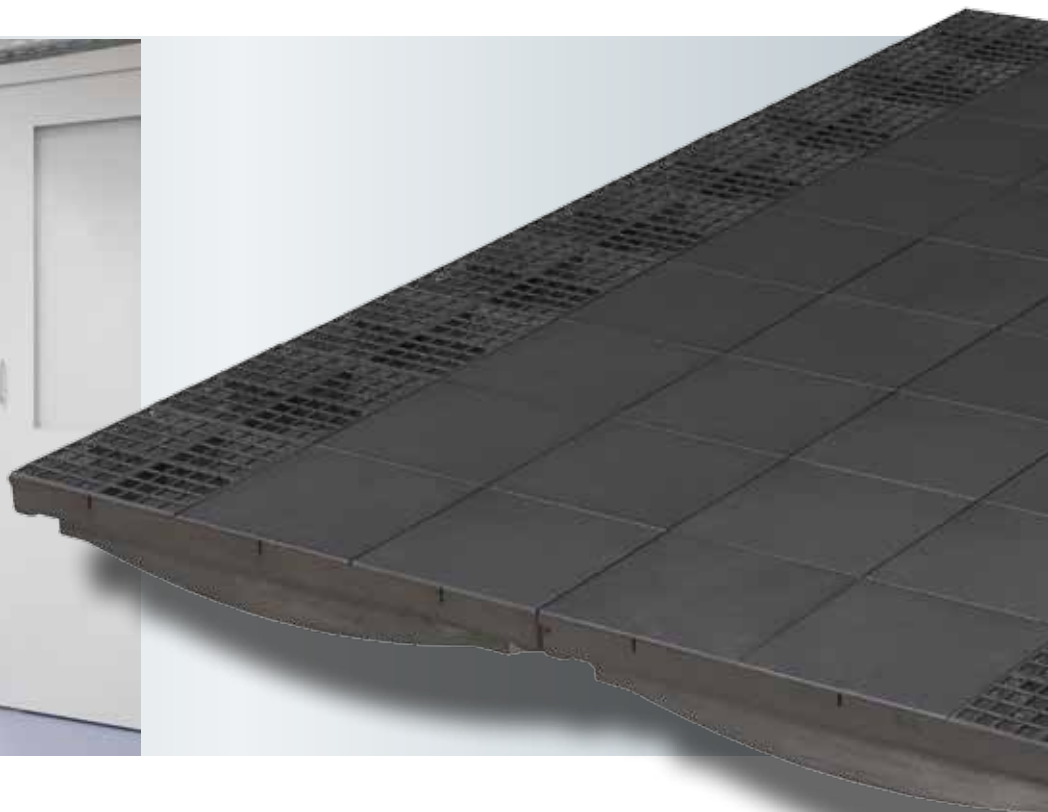
Their high-quality graphite powder coating makes the tiles electrically conductive.

SWAP PANEL 9 complies with the European test and classification standard for floor systems (DIN EN 12825 raised floors and DIN EN 13213 hollow floors).

Fitting 9 ventilation tiles enables SWAP PANEL 9 to achieve free clearance of 60 %
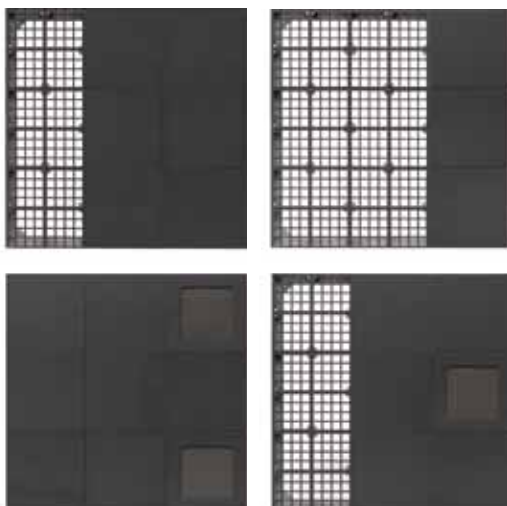
Technical Data		
Dimensions		
Frame	dimensions	600 x 600 mm $^{-0,4}$
height (at the resting points)		35 mm $^{-0,5}$
height (max. frame height)		80 mm
Tiles	dimensions	approx. 200 x 200 mm
height		3 mm
Overall height frame + tile (at the resting points)		38 mm
Static load capacity* in acc. with DIN EN 12825		
Frame	net load (class 6)	10000 N
breaking load (safety factor 2)		> 10000 N
Standard tiles	net load (class 4)	4000 N
breaking load (safety factor 2)		> 9000 N
Heavy-duty tiles	net load (class 6)	6000 N
breaking load (safety factor 2)		> 12000 N
Ventilation tiles	max. load capacity	1000 N
Electrostatics in acc. with DIN EN 1081, DIN VDE 0100 T610		
Ground resistance R_2 – procedure B – in acc. with DIN EN 1081		$R_2 < 10^9 \ \Omega$
Contact location resistance R_{ST} in acc. with DIN VDE 0100 T610		$R_{ST} > 5 \times 10^4 \ \Omega$
Dynamic pressure		
Max. dynamic pressure		300 PA
Fire protection in acc. with DIN 4102 T1		
Carrier plate fire rating		A1

* Load applied to centre of the frame and the centre of SWAP PANEL 9

The System

Frame

Weight: 15 kg
Material: graphite cast iron
Frame size: 600 x 600 mm
Frame height (at resting points): 35 mm
Frame height max.: 80 mm
Net load (class 6): 10000 N
Breaking load (safety factor 2): > 10000 N

Frame inc. height adjuster	Order no.
Basic frame, 600 x 600 mm, Height adjuster 4 x 1 mm and 4 x 2 mm	**6350000**

Height adjuster, separate	
Height adjuster 4 x 1 mm and 4 x 2 mm	**6359000**

Standard tile, solid
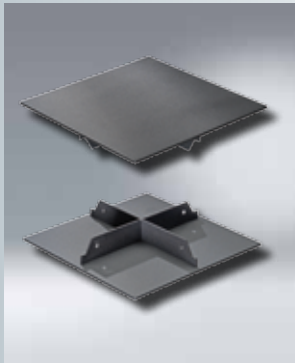
Weight: 1.2 kg
Material: steel sheet 3 mm
Total clearance area: 394.02 cm^2
Net load (class 4): 4000 N
Breaking load (safety factor 2): > 9000 N
Colour: Graphite black RAL 9011

Standard tile, solid	Order no.
198.5 x 198.5 mm, packaging unit 3 items	**6352350**
198.5 x 198.5 mm, packaging unit 9 items	**6352950**

Heavy-duty tile, solid
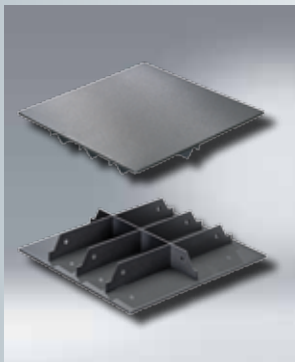
Weight: 1.75 kg
Material: steel sheet 3 mm
Total clearance area: 394.02 cm^2
Net load (class 6): 6000 N
Breaking load (safety factor 2): > 12000 N
Colour: Graphite black RAL 9011

Heavy-duty tile, solid	Order no.
198.5 x 198.5 mm, packaging unit 3 items	**6353350**
198.5 x 198.5 mm, packaging unit 9 items	**6353950**

Ventilation tile
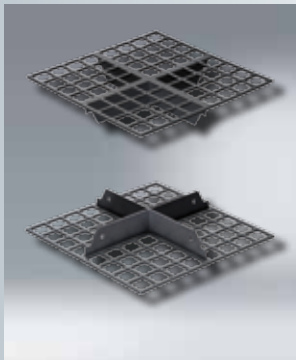
Weight: 0.5 kg
Material: steel sheet 3 mm
Total clearance area: 394.02 cm^2
Free clearance: 243.36 cm^2
Air flow: 61.76 %
Max. load bearing capacity: 1000 N
Colour: Graphite black RAL 9011

Ventilation tile, solid	Order no.
198.5 x 198.5 mm, packaging unit 3 items	**6354350**
198.5 x 198.5 mm, packaging unit 9 items	**6354950**

Cable routing panel
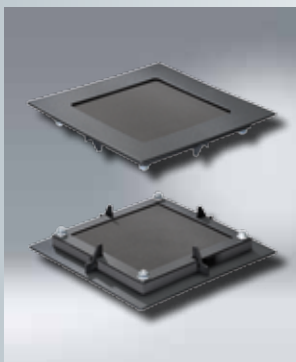
Weight: 0.75 kg
Material: steel sheet 3 mm
Total clearance area: 394.02 cm^2
Free cable routing space: 130 x 130 mm
Colour: Graphite black RAL 9011
Material: cellular rubber
(fire rating UL94/V-O;
flames extinguished within 10 seconds)

Cable routing panel	Order no.
198.5 x 198.5 mm, packaging unit 3 items	**6351350**
198.5 x 198.5 mm, packaging unit 9 items	**6351950**

Accessories
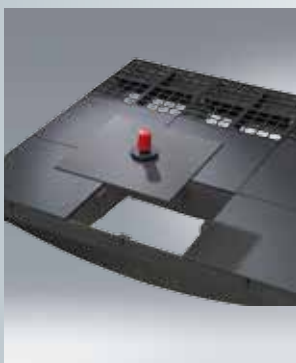
Lifting magnet
Colour: Graphite black RAL 9011/Red

Accessories	Order no.
Lifting magnet	**6359100**

For all rack applications –
System accessories from SCHÄFER
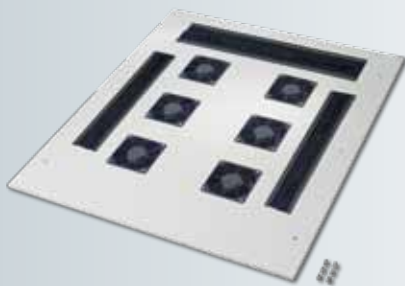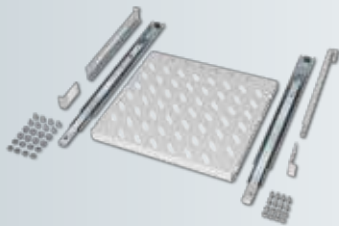
The complete range of accessories
for your server and network racks.

SCHÄFER
IT-SYSTEMS

SP Rack

Top cover panel, solid

The racks can be mechanically closed with this cover panel completely. To facilitate passive ventilation, the modules can be raised by means of spacers.
Material: 1.25 mm steel sheet
Finish: power coated in RAL 7035
Delivery comprises: one top cover, fixing accessories

Top cover, one-piece, solid, IP54

Depth (mm)	Width 600	Width 800
600	6705010	6905010
800	6715010	6915010
900	6720010	6920010
1000	6730010*	6930010*
1200	6740010*	6940010*

* with 1 pre-punched hole in each corner

Spacer sleeves

Spacer sleeves for raising the top covers.
Material: steel
Finish: galvanised
Delivery comprises: 6 spacer sleeves 40 mm,
6 fixing screws

Spacer sleeves	Order no.
	6715000

Top cover panel, passive ventilation
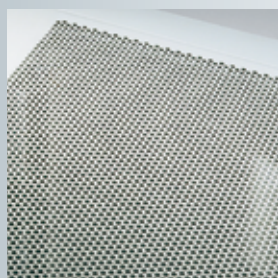
The passively vented cover panels close the SP Racks mechanically while allowing heat dissipation in the top or bottom areas.
Material: 1.25 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 cover panel, fixing accessories
63 % open area

Cover panel, one-piece, passive ventilation

Depth (mm)	Width 600	Width 800
600	6705030	6905020
800	6715030	6915020
900	6720030	6920020
1000	6730030	6930020
1200	6740030	6940020

Top cover panel with brush

For easy cable entry with no subsequent mechanical re-working.
Material: 1.25 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 top cover panel, fixing accessories
Brush strip order-no. 7713100 VE 2 items for retrofitting

Top cover, one-piece, with brush

Depth (mm)	Width 600	Width 800
600	6720090	6920090
800	6720100	6920100
900	6720110	6920110
1000	6730100*	6930110*
1200	6740100*	6940110*

* with 1 pre-punched hole in each corner

Top cover panel with active ventilation

Top cover panel with active fans
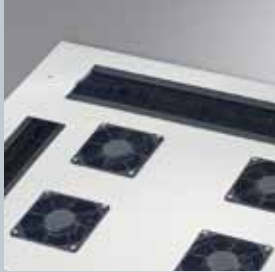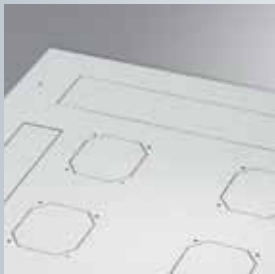

Top cover panel without active fans

The covers with ventilation fans provide optimum and eco-
nomical air conditioning for all SP Racks. The number of fans
can be easily extended by plug & play to a maximum of 6.
Material: 1.25 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 cover panel with two or 4 fans, inc.
cables ready for connection, fixing accessories

Technical data:
- Operating voltage 230V
- Rated output 22/21 W at 50/60 Hz
- Aeration capacity per fan (free blowing) 162/195m³/h at
  50/60 Hz
- Temperature range -20° C to +70° C
- Max. noise emission:
  1 fan 45/50 dB (A) free blowing

**Thermostat order no. 6763000 must be ordered
separately**

**Separate active fan with protective grill and fixing
accessories, order no. 7719300 VE 2 units. Replace-
ment fan without accessories, order no. 7719100**

Mains cable: 3 x 0.75 mm² cables, 2 m in
length with two-pole schuko angled plug,
and with IEC C13 plug, **order no. 6763200**

Please note: Dimensions cable entry

800 mm wide racks	**600 x 95 mm**
700 mm wide racks	**600 x 50 mm at the side**
	600 x 95 mm at the rear

Top cover, one-piece, with brush and 2 fans
mounted

Depth (mm)	Width 600	Width 800
600	**6705040**	**6905040**
800	**6715040**	**6915040**
900	**6720040**	**6920040**
1000	**6706700**	**6906800**
1200	**6707700**	**6907800**

Top cover, one-piece, with brush and 4 fans
mounted

Depth (mm)	Width 600	Width 800
600	**6705050**	**6905050**
800	**6715070**	**6915070**
900	**6720070**	**6920070**
1000	**6720130**	**6920130**
1200	**6720140**	**6920140**

Top cover, one-piece, with brush (supplied) and
prepared for 6 fans

Depth (mm)	Width 600	Width 800
600	**6705020**	**6905030**
800	**6715020**	**6915030**
900	**6720020**	**6920030**
1000	**6720120**	**6920120**
1200	**6720250**	**6920220**

Top cover panel with large ventilator fan (prepared for brush)

Optimum rack ventilation, even when internal rack tempera-
tures are high, while keeping noise levels to a
minimum is not an either-or choice.
- Air-volume flow rate of
  1600 m³/h or 1900 m³/h at 50/60 Hz
- Operating voltage 230V
- Rated output 65 W/68 W
- Temperature range: -10 to +55°C
- Fan height: 80 mm
- Noise level: 51/55 dB (A).

Delivery comprises: 1 top cover panel, 1 fan, connector cable,
fixing accessories

Top cover panel with large ventilator fan
(prepared for brush)

Depth (mm)	Width 600	Width 800
800	**6715080**	**6915080**
900	**6720050**	**6920050**
1000	**6706100**	**6906200**
1200	**6706300**	**6906300**

SP Rack

Bottom cover panel, one-piece, with passive ventilation
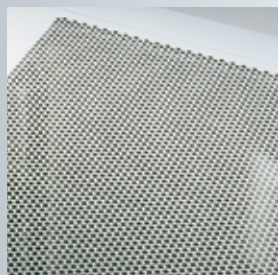
The passively vented bottom cover closes the SP Rack mechanically while allowing heat dissipation in the top or bottom areas.
Material: 1.25 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 cover panel, fixing accessories
63 % open area

Bottom cover, one-piece with passive ventilation for rack dimensions

Depth (mm)	Width 600	Width 800
600	**6605020**	**6805020**
800	**6615020**	**6815020**
900	**6620020**	**6820020**

Bottom cover panel, multi-piece with brush strip

For easy cable entry with no subsequent mechanical re-working.
Material: 1.00 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 top cover panel, fixing accessories

Division of module (brush strip module 200 mm):
Depth: 600 mm: 90 mm, 200 mm, 200 mm
Depth: 800 mm: 90 mm, 300 mm, 300 mm
Depth: 900 mm: 90 mm, 200 mm, 200 mm, 300 mm
Depth: 1000 mm: 90 mm, 200 mm, 300 mm, 300 mm
Depth: 1200 mm: 90 mm, 200 mm, 200 mm, 300 mm, 300 mm

Bottom cover panel, multi-piece with brush for rack dimensions

Depth (mm)	Width 600	Width 800
600	**6605030**	**6805030**
800	**6615030**	**6815030**
900	**6620030**	**6820030**
1000	**6606500**	**6806600**
1200	**6607500**	**6806700**

Bottom cover panel, multi-piece, solid
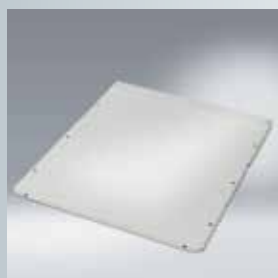
With multi-piece covers, the racks can be closed flexibly as the modules can be moved into different positions
Material: 1.00 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: modules, fixing accessories

Division of module (brush strip module 200 mm):
Depth: 600 mm: 90 mm, 200 mm, 200 mm
Depth: 800 mm: 90 mm, 300 mm, 300 mm
Depth: 900 mm: 90 mm, 200 mm, 200 mm, 300 mm
Depth: 1000 mm: 90 mm, 200 mm, 300 mm, 300 mm
Depth: 1200 mm: 90 mm, 200 mm, 200 mm, 300 mm, 300 mm

Bottom cover panel, multi-piece, solid for rack dimensions

Depth (mm)	Width 600	Width 800
600	**6615050**	**6815050**
800	**6615080**	**6815080**
900	**6620050**	**6820050**
1000	**6606100**	**6806200**
1200	**6606200**	**6806300**

Filter mat for passively ventilated bottom cover panels (single or multi-piece)

Fixed by a Velcro fastener on the cover panel.
Can be cut to size.

For rack dimensions

Depth (mm)	Width 600	Width 800
600 – 1000	**6725900**	**6725530**

## Passively ventilated module for bottom cover panels, multi-piece

As replacement part in multi-piece bottom cover modules.
Material: 1.00 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 module

Passively ventilated bottom cover module for rack dimensions

Rack width (mm)	Module depth (mm)	Order no.
600	200	**6615090**
800	200	**6815090**

Active bottom cover module, multi-piece
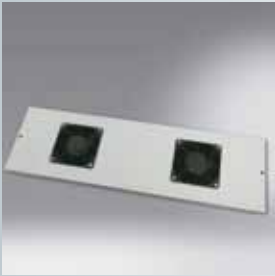
With two active fans without mains cable.
Mains cable: **Order no. 6763200**

Rack width (mm)	Module depth (mm)	Order no.
600	200	**6615100**
800	200	**6815100**

Plinth, solid

The four removable side panels on this solid plinth allow cable routing underneath the SP Rack. No intermediate panels are required for rack baying.
Material: 1.25 mm sheet steel
Panels: 1 mm steel sheet
Finish: powered coated in RAL 7035
Delivery comprises: 4 corner elements with levelling feet, 4 solid side panels, fixing accessories

Rack width (mm)	Rack depth (mm)	Height 100 mm	Height 200 mm
300	1200	**6312000**	**6312200**
300	1200	**6312050***	**6312250***
600	600	**6723000**	
600	800	**6724000**	
600	900	**6725000**	
600	1000	**6723500**	
600	1200	**6727500**	
800	600	**6923000**	
800	800	**6924000**	**6924200**
800	900	**6925000**	**6925200**
800	1000	**6923500**	**6923200**
800	1200	**6924500**	**6927200**

* RAL 9005

SP Rack

Plinth with passive ventilation

The four removable side panels on this passively ventilated plinth allow cable routing underneath the SP Rack. The slits in the front and rear panels provide optimum ventilation. No intermediate panels are required for rack baying.
Material, plinth: 1.25 mm sheet steel, panels: 1.00 mm sheet steel
Finish: powered coated in RAL 7035
Delivery comprises: 4 corner elements with levelling feet, 2 solid side panels, 2 panels with venting slits, fixing accessories

Rack width (mm)	Rack depth (mm)	Height 100 mm	Height 200 mm
600	600	**6721000**	
600	800	**6722000**	
600	900	**6726000**	
600	1000	**6722500**	
600	1200	**6728500**	
800	600	**6921000**	
800	800	**6922000**	**6922200**
800	900	**6926000**	**6926200**
800	1000	**6922500**	**6928200**
800	1200	**6921500**	**6921200**

Side panels, solid, slot-in

The side panels represent the mechanical finish of an individual rack or row of racks and are inserted into the framework at the bottom and secured by means of a safety lock. For the mechanical separation of individual racks in bays, the panels can be left in place.
Material: 1.00 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 2 side panels with safety lock 2233, fixing accessories

Spare key for side panel **Order no. 7799500**

Rack height (mm)	Rack depth (mm)	Order no.
600	600	**6731000**
1200	600	**6732000**
1200	800	**6932000**
1200	900	**6736000**
1200	1000	**6733000**
1800	800	**6934000**
1800	900	**6734000**
2000	600	**6735000**
2000	800	**6935000**
2000	900	**6737000**
2000	1000	**6739000**
2000	1200	**6740000**
2200	800	**6738000**
2200	1000	**6738100**

Side panels, solid, screw-fastened, IP54 protected
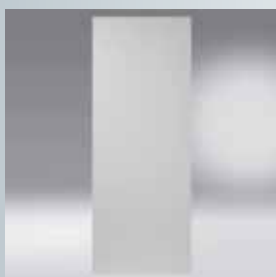
Rack height (mm)	Rack depth (mm)	Order no.
1200	800	**6932060**
2000	800	**6935060**
2000	900	**6737060**
2000	1000	**6739060**
2000	1200	**6740060***
2200	1200	**6741060***

* double wing

SP Rack partition walls

The partition walls can be inserted between two SP racks after they have been bayed together.
Material: galvanised steel sheet
Delivery comprises: 1 dividing wall, 6 mounting brackets, fixing accessories

Rack height (mm)	Rack depth (mm)	Order no.
2000	1000	**6739100**
2000	1200	**6739200**
2200	1000	**6739300**
2200	1200	**6739400**

SP Rack doors

Sheet steel door, single wing, cloosed

Sheet steel door, double wing, cloosed

Glas door, single wing, with 3 mm SPSG, passive ventilation

The doors can be mounted at the front or rear of the rack and are equipped as standard with pivoted handles and security locks.
The latter can be replaced by profile half cylinders on request.
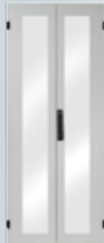Material: 1.25 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 door, fixing accessories

Glass door, single wing, with 3 mm SPSG

Glass door, double wing, with 3mm SPSG

Sheet steel door, single wing, passive ventilation (honeycomb perforation, 81% open area)

Sheet steel door, double wing, passive ventilation (honeycomb perforation, 81 % open area)

Door with 4-point locking system and 3 hinges (honeycomb perforation, 81 % open area).

Type	Width (mm)	Height (mm)	Order no.
Glass door, single wing, with 3 mm ESG	600	2000	6983500
	600	2200	6935500
	700	2000	6583500
	700	2200	6535500
	800	2000	6984000
	800	2200	6936000
Glass door, single wing, with 3 mm ESG, for swivel frame	800	2000	6986000
Glass door, single wing, with 3 mm ESG, passive venting	600	2000	6990500
	800	2000	6998500
Glass door, single wing, with 3 mm ESG	600	2000	6756000
	600	2200	6759000
	800	2000	6958500
	800	2200	6956000
Sheet steel door, single wing, closed	600	2000	6988000
	600	2200	6936500
	700	2000	6588000
	700	2200	6537000
	800	2000	6988500
	800	2200	6937000
Sheet steel door, double wing, closed	600	2000	6988100
	800	2000	6958500
	800	2200	6956200
Sheet steel door, single wing, passive venting (honeycomb perforation, 81% open area)	600	2000	6989500
	600	2200	6937500
	700	2000	6594500
	700	2200	6595500
	800	2000	6994500
	800	2200	6938000
Sheet steel door, double wing, passive venting (honeycomb perforation, 81% open area)	600	2000	6956100
	600	2200	6957100
	700	2000	6556000
	700	2200	6557000
	800	2000	6956500
	800	2200	6958050
Glass door, single wing, with 3mm ESG, IP 54	600	2000	6983560
	800	2000	6984060
	800	2200	6936000
Sheet steel door, single wing, IP 54	600	2000	6988060
	800	2000	6988560
	800	2200	6937560

Mounting brackets, corner brackets, cross supports or bridge for 482.6 mm (19") mounting angles

Mounting bracket

For installing 482.6 mm (19") variable depth mounting angles over the entire height of the rack. Material: 1.50 mm sheet steel
Finish: galvanised
Delivery comprises: mounting brackets for 600 mm racks widths, corner brackets or cross supports for 800 mm racks widths, fixing accessories

Corner bracket

Cross support

Bridge, above and below

Rack width (mm)		19"-angle v	19"-angle v/h	19"-angle v/M/h
600	Mounting bracket	6727000	6728000	6729000
800	Corner bracket	6943700	6943800	6943900
800	Cross support	6943100	6943500	6943600
800	Bridge symmetric	6943200	6943210	–
700	Bridge asymmetric	6943300	6943320	–

Depth stay for 482.6 mm (19") mounting angle/or shelf, fixed (not 482.6 mm (19"))

For mounting the fixed shelves in the 25 mm pitch pattern, the depth stays for 600 mm racks widths must be used
Material: 1.50 mm sheet steel
Finish: galvanised
Delivery comprises: 2 depth stays, fixing accessories

Rack width (mm)	Rack depth (mm)	2 depth stays
600	600	6741000
600	800	6742000
600	900	6742500
600	1000	6744000
600	1200	6745000
800	600	6946000
800	800	6946100
800	900	6946200
800	1000	6946300
800	1200	6946400

SP Rack

482.6 mm (19") mounting angles

For the installation of 482.6 mm (19") components over the full or partial rack height, these mounting angles can be installed either at the front or rear of the SP Rack. Additional positioning holes in the height unit (U) pitch pattern facilitate installation. According to your desired fixing method in the SP Rack, additional installation kits or cross supports must be ordered separately.
Material: 2.00 mm sheet steel, finish: galvanised
Delivery comprises: 2/4/6 x 482.6 (19") mounting angles depending on type, fixing accessories

Height (mm)	Height (HE)	482,6 mm 19" angle		
		f	f / r	f / mid. / r
600	10	**6783000**	**6783010**	–
1200	24	**6783500**	**6783510**	**6778000**
1800	37	**6784500**	**6784510**	**6777000**
2000	42	**6785000**	**6785010**	**6778500**
2200	46	**6780500**	**6780510**	–

Centre rail

Serves as the central mounting point between the front and rear mounting angles for the installation of systems or different depths, shelves and slide rails. The centre rails themselves are mounted on the 482.6 (19") installation kit parts.
Material: 2.00 mm sheet steel
Finish: galvanised
Delivery comprises: 2 centre rails, fixing accessories

Rack height (mm)	Height units (U)	Order no.
1200	24	**6779000**
2000	42	**6779500**
2200	46	**6780000**

1 U mounting bracket

With the 1 U mounting brackets, power strips can be mounted sideways onto the centre rail.

1 U mounting bracket	Order no.
1 U	**6782500**
2 U	**7782600**

482.6 mm (19") mounting angle support (for rectangular tube)
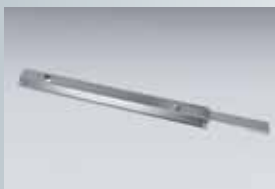
This rectangular tube can be inserted into the side of the cross support to provide the for 482.6 mm (19") mounting angles with additionally stability when accommodating heavy components. The combination of cross support/depth stay and rectangular tube can increase the load bearing capacity of the 486.2 mm (19") mounting angles to 1000 kg.

Rack width (mm)	Order no.
800	**6943100**

Shelf, fixed (not 482.6 mm (19"))

Depending on rack dimensions, the shelves are mounted with the shelf supports - which must **be ordered separately** (see page 77) (depth stays for 600 mm width) - directly onto the SP Rack framework in the 25 mm pitch pattern. Shelves of varying depth can be used. 482.6 (19") installation is only partially possible.
Material: 1.50 mm sheet steel
Finish: powder coated in RAL 7035
Static load capacity: 75 kg
Delivery comprises: 1 shelf

For rack width (mm)	Shelf width (mm)	Shelf depth (mm)	Order no.
600	466	400	**6744500**
600	466	500	**6745500**
600	466	600	**6746500**
800	666	400	**6944500**
800	666	500	**6945500**
800	666	600	**6946500**

Shelf, pull-out (not 482.6 mm (19"))
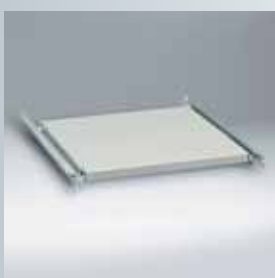
The pull-out shelves are mounted with the telescopic rails directly onto the SP Rack framework in the 25 mm pitch pattern. 482.6 (19") installation is only partially possible.
Material: 1.50 mm sheet steel
Finish: powder coated in RAL 7035
Static load capacity: 50 kg
Delivery comprises: 1 shelf, 2 telescopic rails, fixing accessories

rack width (mm)	rack depth (mm)	shelf width (mm)	shelf depth (mm)	order no.
600	600	466	400	**6747500**
600	800	466	500	**6748500**
600	900/1000	466	600	**6749500**
800	600	666	400	**6947500**
800	800	666	500	**6948500**
800	900/1000	666	600	**6949500**

Cable duct

Cable duct for SP Racks for cable routing can be mounted directly on the frame or on the fepth profiles.
Delivery comprises: 1 Cable duct, fixing accessories
Width: 300 mm
Depth: 30 mm

Rack height (mm)	Order no.
2000	**6780200**
2200	**6780220**

Rack levelling feet

The feet can be retrofitted to the bottom of the rack
Delivery comprises:
4 levelling feet, fixing accessories
M12 thread

SP Rack   PX Rack

Feet	Order no.
SP Rack	**6790500**
PX Rack	**6790600**

Castors

Castors/rack rollers add mobility to the SP Racks and can be retrofitted to the bottom of the rack.
Total height: 100/40 mm
Load bearing capacity per castor: 100 kg, max. 300 kg static load capacity per SP Rack.
Delivery for SP Rack without plinth comprises: 2 castors-with arrester, two castors/4 rack rollers , fixing accessories

Rack rollers	Order no.
for SP Rack without plinth, 100 mm	**6790300**

Rack rollers

Note:
The plinth has to be removed!

Rack rollers	Order no.
40 mm clearance, 250 kg per roller	**6790400**

Anti-toppling plate

A retrofit part to secure the SP Rack mechanically to the floor.
Material: 2.00 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 installation bracket, fixing accessories

Anti-toppling plate	Order no.
for SP Rack with castors/plinth, 100 mm	**6950500**
for SP Rack with rack rollers, 40 mm	**6950400**

Baying kit for SP Rack/SP Rack or SP Rack/PX Rack

For fast, easy and mechanically stable baying of IT racks.
The baying kit does not interfere with the installation plane in the rack interior
Material: steel
Finish: galvanised
Delivery comprises: 1 baying kit
Finish: powder coated in RAL 7035 / 9005

SP Rack/SP Rack

SP Rack/PX Rack

RAL 7035 (light grey)

Baying kit	Order no.
for SP Rack to SP Rack	**6790200***
for SP Rack to PX Rack	**7690200**

RAL 9005 (black)

Baying kit	Order no.
for SP Rack to SP Rack	**6790350***

* inc. 10 mm seal (cellular rubber)

SP Rack

Universal air guiding panels for 800 mm wide SP Racks with 2 x 2 U vertical

The cover panel closes gaps over the cables on the left and right. Additionally, the cover panel with 2 x 2 U are installed vertically (not closed).
Material: 1.50 mm steel sheet
Surface: powder coated in RAL 7035
Delivery comprises: 2 cable cover panels
Cable brush: side 91

Rack height (mm)	Order no.
2000	**6782410**
2200	**6784410**

Hinged air guiding panels for 800 mm wide SP Racks

The hinged panels cover the gaps over the cables on the left and right and can be swung open if required. Installation is only possible with 482.6 mm (19") mounting angles, which are installed by means of upper and lower cross supports,
order no. 6943000
Material: 1.50 mm steel sheet
Finish: powder coated in RAL 7035
Delivery comprises: 2 hinged cable cover panels
Fixing materials

Rack height (mm)	Height units (U)	Order no.
2000	42	**6781400**

Universal air guiding panels for SP Racks

For cross supports, depth stays and corner brackets with 2 x 1 U vertical (closed).
Material: 1.50 mm steel sheet
Finish: powder coated in RAL 7035
Delivery comprises: 2 cover panels,
4 blind panels 1 U
Cable brush: side 91

Cabinet width (mm)	Cabinet height (mm)	Height (U)	Type	Order no.
600	2000	42	solid	**6783300**
600	2200	46	solid	**6783400**
700*	2000	42	2 x 1 U vertical, closed	**6783700**
700*	2200	46	2 x 1 U vertical, closed	**6783800**
800	2000	42	2 x 1 U vertical, closed	**6783100**
800	2200	46	2 x 1 U vertical, closed	**6783200**

* 482.6 mm (19") mounting angles installed asymmetrically (2 x 1U only in one panel)

C-profile rails

Cable support rails enable the structured clamping and strain relief of cables routed along the width and depth of the rack by means of cable clamps and/or fasteners. The rails are mounted at various depths in the rack between the vertical profiles.
Material: 1.50 mm sheet steel
Finish: galvanised
Delivery comprises: 2 cable clamping rails, fixing accessories
Supplementary cable clips available for clamping and guiding cable ties (see page 92)

Rack width (mm)	Rack depth (mm)	Order no.
600		**6761500**
800		**6961500**
	600	**6762500**
	800	**6962500**
	900	**6959500**
	1000	**6960500**
	1200	**6960510**

Earthing kit

Used for the appropriate earthing of all system components, like side panels, doors, modules, etc. which are attached to the framework.
Cable length: 4 x 240 mm, 4 x 150 mm
Wire cross section: 6 mm^2
Delivery comprises: 1 earthing kit, fixing accessories

Earthing kit	Order no.
	7790000

Air Tube Switch

The Air Tube Switch enables the supply of cold air to be targeted to the side of the switch for a maximum effect of the offered cold air (TCO). The switch can be mounted at the front or rear of 800 mm wide racks 19" planes.
Use of the Air Tube Switch means that several switches can be mounted in rows without any mutual thermal influence. Air Tube Switch can be supplied for many different switch types on request.
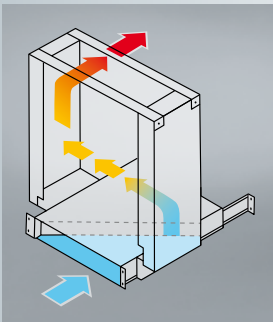
Air Tube Switch	Bestell-Nr.
	on request

PX Rack

482.6 mm (19") mounting angles

For the installation of 482.6 mm (19") components over the full or partial rack height, these mounting angles can be installed either at the front or rear of the PX Rack. Additional positioning holes in the height unit (U) pitch pattern facilitate installation. According to your desired fixing method in the PX Rack, additional installation kits or cross supports must be ordered separately.
Material: 2.00 mm sheet steel
Finish: galvanised
Delivery comprises: 2 x 482.6 (19") mounting angles, fixing materials

Rack height (mm)	Height units (U)	Order no.
1200	25	**7783500**
2000	43	**7785000**

Depth stay for 482.6 mm (19") mounting angle

For installing 482.6 mm (19") variable depth mounting angles over the full or partial height of the rack.
Material: 1.25 mm sheet steel
Finish: galvanised
Delivery comprises: 4 depth stays, fixing accessories

Rack width (mm)	Rack depth (mm)	Order no.
600	800	**7628000**
800	800	**7628000**
600	1000	**7620000**
800	1000	**7620000**

for 800 mm widths, adapters must be ordered separately

Adapter (4 units)	Order no.
per 482.6 mm (19") plane	**7828000**

Pivoted handle with cylinder lock

Pivoted handle with cylinder lock, can be exchanged for a cylinder lock as an option.

Colour: black

Pivoted handle	Order no.
Pivoted handle with cylinder lock	**7590400**
Installation set for profile half cylinder lock*	**7590600**

*see page 97

Earthing kit

Used for the appropriate earthing of all system components, like side panels, doors, modules, etc. which are attached to the framework.
Cable length: 4 x 240 mm, 4 x 150 mm
Wire cross section: 6 mm^2
Delivery comprises: 1 earthing kit, fixing accessories

Earthing kit	Order no.
	7290000

Baying kit for PX Rack/SP Rack/PE Rack

For fast, easy and mechanically stable baying of
IT racks.
The baying kit does not interfere with installation in
the rack interior
Material: steel
Finish: RAL 7035
Delivery comprises: 1 baying kit

PX Rack/PX Rack/SP Rack

PX Rack/PE Rack

Baying kit	Order no.
PX Rack an PX/SP Rack	**7690200**
PX Rack an PE Rack	**7690300**

Top/bottom mounting bracket

For securing the PX Rack to the floor, or to the wall by
means of the top cover
Delivery comprises: 4 mounting brackets, fixing accessories
(on the rack)

Top/bottom mounting bracket	Order no.
	7650500

C-profile rails

Cable support rails enable the structured clamping and
strain relief of cables routed along the width and depth of
the rack by means of cable clamps and/or fasteners.
Material: 1.25 mm sheet steel
Finish: galvanised
Delivery comprises: cable clamping rails, fixing accessories

**Supplementary cable clips available for clamping
and guiding cable ties (see page 92)**

Rack width (mm)	Rack depth (mm)	Order no.
600		**7161500**
800		**7161550**
	800	**6961500**
	1000	**7160000**

Cover Panel, fixed

The fixed cable routing panels on the left and right cover
the cable compartments. They are fixed on the side of the
482.6 mm (19") mounting angle.
Material: 1.50 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 2 panels, fixing accessories

Rack height (mm)	Height units (U)	Order no.
2000	43	**7782400**

Active fans

Active fans, inc. protective grille and fixing accessories
order no. 7719300,
UPP: 2 items Replacement fan without accessories
order no. 7719100

Active fans	Order no.
2 fans	**7719300**
1 fan without accessories	**7719100**

NT Boxes

Handle for profile half cylinder

Handle for profile half cylinder

Delivery comprises:
1 handle (RAL 9005),
fixing accessories without cylinder
Delivery comprises: The handle can be retrofitted to every Box.
Hole diameter 22 mm

Handle for profile half cylinder	Order no.
	7100010

Mounting kit for wall-mounting

For mounting NT Boxes on walls
Delivery comprises:
4 screws DIN 571
4 washers
4 wall plugs
4 wall spacers (clearance 13 mm)

Mounting kit	Order no.
	7100900

Feet

For mounting underneath the NT Boxes
Delivery comprises:
4 rubber feet
4 self-tapping screws

Feet	Order no.
	7110500

Flange plate, solid

As an optional extra, the solid flange plate can be used to cover the brush strip apertures.
Material: 1.5 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 flange plate, fixing accessories

Flange plate, solid	Order no.
	7100800

Flange plate with active fans

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

Flange plate with fans	Order no.
	7100700
schuko C 13 mains cable	**6763200**

Cable support rail

The cable support rails 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: 1.5 mm sheet steel
Finish: galvanised
Delivery comprises: cable clamping rails, fixing accessories

Housing width (mm)	Order no.
570	**7110150**

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 housing. 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

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

Slim line fan

Technical data:
- Operating voltage: 230 Volt
- Air volume flow rate: 165 m³/h
- Nominal output: 25 Watts
- 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

Slim line fan	Order no.
	7719400

IT Enclosures

Shelf (not 482.6 mm (19")), pull-out (standard only)
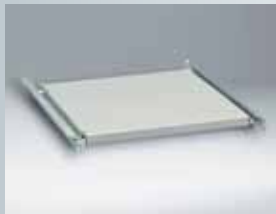
The pull-out shelves are mounted with the telescopic rails directly onto the framework in the 25 mm pitch pattern.
Dimensions: width 466 mm, depth 600 mm
Material: 1.25 mm sheet steel
Finish: powder coated in RAL 7035 light grey
Static load capacity: 50 kg
Delivery comprises: 1 shelf, 2 telescopic rails, fixing accessories

Shelf, pull-out	Order no.
	6749500

Shelf, fixed installation

Depending on the rack dimensions, the shelves are fixed to the IT Enclosure directly using **the depth stays, which must be ordered separately** (see page 77).
Static load bearing capacity: 75 kg
Delivery comprises: 1 shelf

Shelf, fixed installation	Order no.
	6745500

Rack trolley, galvanised (for PC case basic/comfort)

Can be retrofitted on IT Enclosures, with castors or levelling feet.
Material: 2.00 mm steel sheet
Finish: galvanised
Static load bearing capacity: 200 kg
Delivery comprises: 1 rack trolley

Rack trolley, galvanised	Order no.
with castors	**7530800**
with levelling feet	**7530900**

Shelf, fixed (for PC case basic/comfort)

The shelf is attached to the 25 mm pitch pattern by means of mounting hooks.
Height can be varied as required.
Dimensions: width 635 mm, depth 500 mm
Material: 1.00 mm steel sheet
Finish: galvanised
Static load: 40 kg
Delivery comprises: 1 shelf, 4 mounting hooks

Shelf, fixed	Order no.
	7471500

Shelf, pull-out (for PC case fokus)
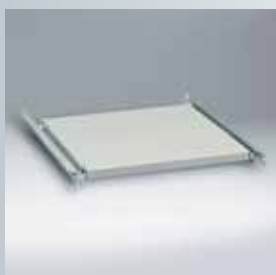
The pull-out shelf is mounted on shelf supports and telescopic rails and fixed directly onto the framework mounting holes.
The shelf is height adjustable in a 50 mm pitch pattern.
Dimensions: width 493 mm, depth 500 mm
Material: 1.50 mm sheet steel
Finish: powder coated in silver grey
Static load capacity: 50 kg
Delivery comprises: 1 shelf, 2 shelf supports, 2 telescopic rails, fixing accessories

Shelf, pull-out	Order no.
	7474500

Active ventilation set with one fan (for PC case basic/comfort)

The ventilation unit is intended for retrofitting to the rack rear wall.
Material: 1.25 mm steel sheet
Finish: powder coating RAL 7035
Delivery comprises: 1 fan set, 1 fan power cable, fixing accessories

Fan technical data:
- Operational voltage: 230 V
- Nominal output: 22/21 W at 50/60 Hz
- Air-volume flow rate per fan (free blowing): 118m³/h
- Max. noise emission: 36 dB (A)

Active ventilation set with mains cable	Order no.
	7483000

Active ventilation set with 2 fans (for PC case fokus)

The fan unit is intended for retrofitting to the rack rear wall.
Material: 1.25 mm steel sheet
Width: 330 mm, depth: 80 mm, height: 270 mm
Finish: powder coating RAL 7035
Delivery comprises: 1 fan set, 1 fan power cable, fixing accessories
Fan technical data:
- Operational voltage: 230 V
- Nominal output: 14/13 W at 50/60 Hz
- Air-volume flow rate per fan (free blowing): 118m³/h
- Max. noise emission: without noise reduction, 43 dB(A), with noise reduction, 39 dB(A)

Active ventilation set	Order no.
2 fans	**7484500**
2 fans with thermostat and noise reduction	**7485500**

Fan mains cable (2.0 m)

For connecting fans to the main power supply.

Technical data:
- Cable 3 x 0.75 mm², length, 2.0 m, with schuko angled plug and coded wieland connector

Fan mains cable (2.0 m)	Order no.
	7763100

General Accessories

1 U fan tray with speed controller and temperature display
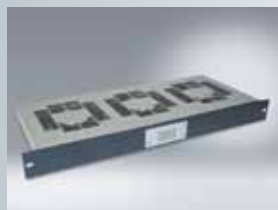
Speed and temperature controller with plain text menu,
temperature-dependent infinitely variable speed control,
mains connection via IEC plug, relay alarm output and sensor:
2-pole plug, LC display (LCD)
Delivery comprises: fan tray with 3, 6 or 9 axial fans,
Mains supply cable, 230 V,
Temperature sensor with 1.5 m cable

1 U fan tray	Order no.
3 fans	**6670510**
6 fans	**6670520**
9 fans	**6670530**

Fan filter/Exhaust filter
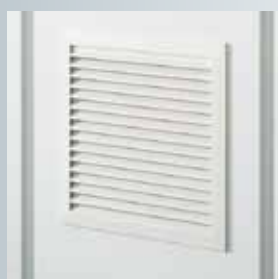
The best solution for thermal problems. Operation can be
changed from blowing to suction simply by turning the fan
motor round.
Material: plastic, in accordance with UL94VO,
self extinguishing
Colour: RAL 7035
Delivery comprises: 1 filter fan/Exhaust filter,
fixing accessories, C 13 adapter cable
Protection rating: IP54

Fan filter

Order no.	**7680000**	**7680500**
Dimensions (mm)	148 x 148 x 64,5	250 x 250 x 126
Operating voltage	230 V 50/60 Hz	230 V 50/60 Hz
Current consumption	0,11 A	0,3 A
Power consumption	19/18 W	45/39 W
Rotation speed	2650/3100 min-1	2760/3030 min-1
Temperature range	-10 °C to +55 °C	-10 °C to +55 °C
Life span	27500 h	40000 h
Sound level	42 dB (A)	52 dB (A)
Aeration capacity (free-blowing)	63 m³/h	250 m³/h
Dust absorption (10 µm)	85 %	85 %
Approvals	CE, UL, CSA	CE, UL, CSA

Exhaust filter

Order no.	**7681000**	**7681500**
Dimensions (mm)	148 x 148 x 26	250 x 250 x 35

Thermostat for fan control, fully wired

Deliver comprises: 1 thermostat, 1 thermostat support,
1 connecting box , fixing accessories
Technical data:
- adjustment range: 0 – 60°C +/- 2k
- max. switching capacity: 6A/230 V AC
- interference suppression class: N
Protection class: IP30, approval: CE in acc. with VGB 4
(Mains cable must be ordered separately.
May possibly be included in delivery of rack or fans)

Thermostat for fan control	Order no.
	6763000

Mains cable, length 2 m	Order no.
D	**6763200**
F/B	**6763210**
CH	**6763220**
GB	**6763230**
I	**6763240**

T-grooved mounting rails

For the installation of 482.6 mm (19") components at
infinitely variable heights. Please order installation kits
and M6 spring nuts separately.
Material: aluminium extrusion profile
Finish: chromed
Deliver comprises: 2 T-grooved rails, fixing accessories

Rack height (mm)	Height units (U)	Order no.
1200	24	**6785500**
2000	42	**6787000**
2200	46	**6788000**

M6 spring nuts for T-grooved mounting rails

The spring nut is inserted into the T-groove, after the latter has been installed, to guarantee the secure, height adjustable installation of components.
Material: steel
Finish: galvanised
Delivery comprises:
50 M6 spring nuts, 50 bolts M6 x 10, 50 plastic washers

M6 spring nuts	Order no.
	7787500

Mounting kit, 482.6 (19")

For mounting 482.6 (19") components.
Delivery comprises: 50 M6 cage nuts,
50 M6 x 16 oval head screws
50 plastic washers

Mounting kit	Order no.
M5	**7963200**
M6	**7963000**

Set of screws

For mounting components onto the frame profiles.
Delivery comprises: 20 self-tapping screws

Set of screws	Order no.
	7963100

482.6 mm (19") 2 U shelf, fixed or pull-out

The shelf can be installed in all SP Racks which already have 482.6 mm (19") mounting angles.
Dimensions: 482.6 mm x 2 U x 400 mm
Material: 1.50 mm sheet steel
Finish: powder coating
Static load capacity: 40 kg (2 U)
Delivery comprises: 1 shelf, 1 pair of telescopic rails (for pull-out version), fixing accessories

482.6 mm (19" x 1 U) shelf, fixed
Dimensions: 482.6 mm x 1 x 250 mm
Static load capacity: 15 kg

RAL 7035 (light grey)

2 U version:	Order no.
Fixed	**6750000**
Pull-out	**6750500**

RAL 9011 (black)

2 U version:	Order no.
Fixed	**6750050**
Pull-out	**6750550**

RAL 7035 (light grey)

1 U version:	Order no.
Fixed	**7750250**

482.6 mm (19") shelf
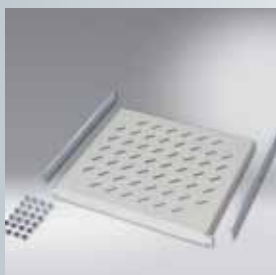
The 482.6 (19") shelf for fixed installation, with passive venting, is mounted in the pitch pattern of the front and rear 482.6 (19") mounting plane.
Material: 1.00 mm sheet steel
Finish: powder coated in RAL 7035
Static load capacity: 120 kg
Delivery comprises: 1 shelf, fixing materials

Can be used in racks of all manufacturers

Installation dimensions of 400 to 850 mm

RAL 7035 (light grey)

Width (mm)	Depth (mm)	Order no.
448	400	**6550400***
448	500	**6550500**
448	600	**6550600**

RAL 9005 (black)

Width (mm)	Depth (mm)	Order no.
448	400	**6550450***
448	500	**6550550**
448	600	**6550650**

* Required space between mounting angles:
  max. 650 mm, min. 440 mm

General Accessories

482.6 mm (19") shelf, draw out
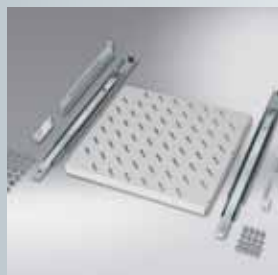
The pull-out version of the 482.6 mm (19") shelf with passive venting is installed in the pitch pattern of the front and rear 482.6 (19") mounting plane.
Material: 1.00 mm sheet steel
Finish: powder coated in RAL 7035
Static load capacity: 50 kg
Delivery comprises: 1 shelf, telescopic rails, fixing accessories

Can be used in racks of all manufacturers

Installation dimensions of 440 to 750 mm

RAL 7035 (light grey)

Width (mm)	Depth (mm)	Order no.
422	400	**6757500***
422	500	**6758500**
422	600	**6760500**

* Required space between mounting angles:
   max. depth + 250 mm, min. depth 500 mm

RAL 9005 (black)

Width (mm)	Depth (mm)	Order no.
422	500	**6758550**
422	600	**6760550**

482.6 mm (19") heavy-duty shelf, pull-out
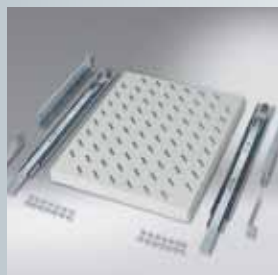
The pull-out version of the 482.6 mm (19") heavy-duty shelf with passive venting is installed in the pitch pattern of the front and rear 482.6 (19") mounting plane.
Material: 2.00 mm sheet steel
Finish: powder coated in RAL 7035
Static load capacity: 100 kg
Delivery comprises: 1 shelf, telescopic rails, fixing accessories

Can be used in racks of all manufacturers

RAL 7035 (light grey)

Width (mm)	Depth (mm)	Order no.
410	500	**6796000**

RAL 9005 (black)

Width (mm)	Depth (mm)	Order no.
410	500	**6796050**

Cable support

Safely guides the connection cables from the pull-out shelf to the framework.
Material: sheet steel
Finish: galvanised
Delivery comprises: 1 cable support, fixing accessories

Cable support	Order no.
	7790100

Mounting plate

With the 42 U mounting plate, any non-482.6 mm (19") components can be installed in 2000 mm high SP Racks. The plate itself is mounted between the 19" mounting angles and can be positioned in the rack at any required depth. Should any additional 482.6 mm (19") mounting angles be required at the front of 800 mm wide SP Racks, they must be mounted using cross supports.
Material: 2.00 sheet steel. Finish: galvanised
Delivery comprises:
for 600 mm width: 1 mounting plate, fixing accessories
for 800 mm width: 1 mounting plate, fixing accessories

**Should the rack contain no 482.6 mm (19")
mounting angles, two sets of depth stays (see
page 77) must be ordered separately**

Rack width (mm)	Order no.
600	**6791000**
800	**6991000**

482.6 mm (19") swing frames

Swing frames for installing 482.6 mm (19") components over the entire height of 800 mm wide SP Racks/PX Racks provide optimum access from the rear. The frames are installed in the rack as retrofit components slightly off-centre.
With T-handle.
Material: 1.50 mm sheet steel
Finish: powder coated in RAL 7035
Delivery comprises: 1 x 482.6 mm (19") swing frame, 1 installation kit, fixing accessories.
1 U and 2 U shelves can also be installed in the swing frame (see page 89)
For the rack with the swing frame, there is a separate glazed door available, in which the pane is installed asymmetrically (see page 77, SP Rack doors)

Swing frames

Rack height (mm)	Height units (U)	Order no.
2000	40	**6992000**

Multi-piece bottom panels for SP Racks

Max. Installation depth for system components: 450 mm

Swing frame load bearing capacity: 200 kg

Installation kit

	Rack depth (mm)	Order no.
SP Rack	800	**6227000**
PX Rack	800	**6229000**

482.6 mm (19") Blind panel

Used for covering empty spaces or for the installation of specific individual components.
Material: 1.50 mm sheet steel
Finish: powder coating
Delivery comprises: 2 blind panels, fixing accessories

RAL 7035 (light grey)

Height units (U)	Order no.
1	**7976000**
2	**7976500**
3	**7977000**
4	**7978500**

RAL 9005 (black)

Height units (U)	Order no.
1	**7976050**
2	**7976550**
3	**7977050**
4	**7978550**
5	**7976850**

482.6 mm (19") clip-on blind panel

Can be mounted quickly without any tools.
Consistent use will guarantee specifically targeted air flow.
Material: ABS, UL 94 – VO

RAL 7035 (light grey)

Height units (U)	Order no.
1 pack: 10 units	**7978200**

RAL 9005 (black)

Height units (U)	Order no.
1 pack: 10 units	**7978250**
2 packs: 5 units	**7978350**

482.6 mm (19") cable guide panel

Cable guide panel for cable routing from rear to front.
Dimensions of cable opening: 420 x 25/40 mm
Material: 1.50 mm sheet steel
Finish: powder coating
Delivery comprises: 2 cable guide panels, fixing accessories

RAL 7035 (light grey)

Height units (U)	Order no.
1	**7977500**
1 with brush	**7977600**
1 with brush open	**7977700**
2	**7978000**
2 with brush	**7978100**

RAL 9005 (black)

Height units (U)	Order no.
1	**7977550**
1 with brush	**7977650**
1 with brush open	**7977750**
2	**7978050**
2 with brush	**7978150**

General Accessories

482.6 mm (19") routing panel x 1U

For horizontal routing of patch cables using 5 snap-on cable clamps, which are pushed into the insertion holes from the front.
Dimensions: guiding clamp: 60 x 44 mm
Material: 1.50 mm sheet steel
Finish: powder coating
Guiding clamps: black
Delivery comprises: 1 routing panel, 5 guiding clamps, fixing accessories

RAL 7035 (light grey)

Height units (U)	Order no.
1	**7970000**

RAL 9005 (black)

Height units (U)	Order no.
1	**7970050**

482.6 mm (19") panel for steel guiding clips

For the horizontal routing of patch cables.
Material: 1.50 mm sheet steel
Finish: powder coating
Delivery comprises: 1 panel with steel guiding clips (depth: 75mm, height: 35 mm), fixing accessories

Guiding clip (depth: 65mm, height 35mm)

RAL 7035 (light grey), clip, chromatised

Height units (U)	Order no.
1	**7979000**

RAL 9005 (black), clip, chromatised

Height units (U)	Order no.
1	**7979050**

RAL 7035 (light grey), clip, powder coated

Height units (U)	Order no.
1	**7979100**

482.6 mm (19") cable feed-through panel

For the horizontal routing of patch cables with cable feed-through apertures/Material: 1.50 mm sheet steel
Finish: powder coating/Delivery comprises: 1 U panel with steel guiding clamps (depth: 75 mm, height: 35 mm), fixing accessories

RAL 7035 (light grey), ring, chromatised

Height units (U)	Order no.
1	**7979200**

Routing panel, 2U

For horizontal routing of patch cables.
Front panel is fold-up or removable.
Material: steel sheet
Finish: powder coating in light grey RAL 7035 / 9005

Routing panel, 2 U	Order no.
RAL 7035	**7979150**
RAL 9005	**7979550**

Cable guiding rings/clamps

To achieve systematic cable routing, the rings can be screwed laterally onto the 482.6 mm (19") mounting angles or the SP Rack framework's 25 mm pitch pattern.
Material: steel
Finish: chromed
Delivery comprises: 10 cable guiding rings, fixing accessories, **Order no. 7968400** (packaged in units of 5)

Cable guiding rings, steel

Dimensions:	Order no.
82 x 220	**7968100**
82 x 170	**7968200**
82 x 112	**7968300**
90 x 330	**7968400**

To achieve systematic cable routing, the clamps can be screwed laterally onto the 482.6 mm (19") mounting angles or the SP Rack framework's 25 mm pitch pattern.
Material: plastic
Finish: RAL 7035
Delivery comprises: 10 cable guiding clamps, fixing accessories

Cable guiding clamps, plastic

Dimensions:	Order no.
80 x 60	**7969550**
120 x 60	**7969050**

Velcro cable fastener

This is the most economical solution for cable threads that have to be regularly fastened and unfastened or for cables that are retrofitted. The fastener is attached to the perforations in the rack frame by means of a self-tapping screw.
Material: plastic
Colour: black
Delivery comprises: 10 Velcro cable fasteners, fixing accessories

Velcro cable fastener	Order no.
	7998000

Pocket for wiring diagrams

A4 size retro-fit pocket for wiring diagrams. Mounted using double-sided adhesive tape.
Material: plastic
Colour: RAL 7035
Delivery comprises: 1 pocket for wiring diagrams
Dimensions in mm (W x H x D): 264 x 236 x 32.5

Wiring diagram pocket	Order no.
	7964500

Keyboard tray, economy

482.6 mm (19") lockable keyboard tray, with integrated mouse pad and tray, which can be installed in all racks with front and rear 482.6 mm (19") angles.
Dimensions: 482.6 mm (19") x 485 mm x 1 U
Useable internal dimensions for keyboard:
(W x H x D) 406 x 32 x 182 mm
Material: 1.25 mm sheet steel
Front finish: powder coated in RAL 7035
Weight: approx. 7.6 kg
Delivery comprises: 1 keyboard tray, fixing accessories

Keyboard tray, economy	Order no.
Keyboard tray, empty	**7540100**
Keyboard tray with keyboard and mouse	**7542300**

Required space between mounting angles: max. 640 mm

Keyboard tray, comfort

482.6 mm (19") keyboard tray, with integrated mouse pad and tray, for installation in all racks with front and rear 482.6 mm (19") angles. The tray can be locked and the keyboard support can be raised by 7°.
Dimensions: 482.6 mm (19") x 485 mm x 1 U
Useable internal dimensions for keyboard:
(W x H x D) 406 x 32 x 182 mm
Material: 1.25 mm sheet steel
Front finish: powder coating
Weight: approx. 8.1 kg
Delivery comprises: 1 keyboard tray with telescopic rails, fixing accessories

RAL 7035 (light grey)

Keyboard tray, comfort	Order no.
Keyboard tray, empty	**7540200**
Keyboard tray with keyboard and mouse	**7542200**

RAL 9005 (black)

Keyboard tray, comfort	Order no.
Keyboard tray, empty	**7540250**
Keyboard tray with keyboard and mouse	**7542250**

Document tray
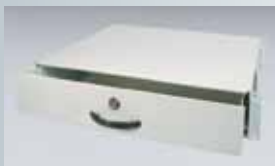
Pull-out document tray: ¾ (380 mm) 482.6 mm (19") document tray which can be installed in all SP Racks with front and rear 482.6 mm (19") mounting angles. The tray can be locked.
Dimensions: 482.6 mm (19") x 485 mm x 1 U or 2 U
Useable internal dimensions for document storage:
(W x H x D) 415 x 35/70 x 420 mm
Material: 1.25 mm sheet steel
Front finish: powder coating
Weight: approx. 4.5 kg
Load capacity: max. 20 kg
Delivery comprises: 1 document tray, fixing accessories

RAL 7035 (light grey)

Description		Order no.
Document tray	1 U	**7963500**
Document tray	2 U	**7540500**

RAL 9005 (black)

Description		Order no.
Document tray	1 U	**7963550**

General Accessories

Cable routing tile for raised floors
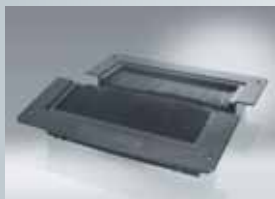
Cable routing tile as a seal for installation in the raised floor, in two parts.
Usable cable aperture: 203 x 102 mm
Dimensions: (L x W x H) 279 x 210 x 41 mm
Material: plastic
Delivery comprises: Cable routing tile, 2-part

Cable routing tile for raised floors	Order no.
	7963800

Chassis rails (depth adjustable)

The slide rails can be extended to the required length and screwed into place between the front and rear 482.6 mm (19") mounting angles. The component for installation is pushed onto the rails and fixed into place. Can be used in racks of all manufacturers! Use of lower height units is limited (-2 mm).

Length: min. 540 mm, max. 750 mm
Load capacity: 100 kg
Contact area: 28 mm right/left
Material: steel sheet, galvanised
Delivery comprises: 2 slide rails, fixing accessories

Chassis rails (depth adjustable)	Order no.
	7777200

Cable clips

For attachment to C-profile rails to enable the clamping and guiding of cables by means of cable ties.
Material: PA
Delivery comprises 4 clips

Cable clip	Order no.
	7760000

Equipotential earthing bar

For retrofitting horizontally or vertically in the framework's 25 mm pitch pattern.
Material: 12 x 5 mm copper rail
1 equipotential earthing bar, 2 isolators, 5 feeder terminals 1.5 – 16 mm², fixing accessories

Horizontal installation for rack width (mm)	Order no.
600	**7760200**
800	**7760100**

Additional feeder terminals	Order no.
UPP = 10	**7765000**

Vertical installation for rack height (mm)	Order no.
2000	**7760300**

Central earthing point	Order no.
	6760100

Door contact switch for 0.5 U lamp

Door contact switch with 1.5 m cable and angled plug for the lamp outlet socket

Door contact switch	Order no.
	7763700

Interior lamp 0.5 U

Interior lamp for direct installation on the 482.6 mm (19") angle, including switch, socket-outlet box and 3 m power cable.

Delivery comprises: 1 interior lamp, 0.5 U

Technical Data:
- 8 W/230 V (fluorescent tube), 6 W/230 V (LED)
- Approval: CE, ENEC, UR
- (L x W x H) 448 x 545 x 26 mm
- Magnetic fastener, screw fasteners or clip-on horizontally on 19" pitch pattern

Interior lamp 0.5 U	Order no.
8 W fluorescent tube	**7764100**
6 x 1 W LEDs	**7764200**

Interior lamp, comfort

This multi-purpose not only provides perfect lighting, but also serves as a „plug & play" distribution and connection device for door contact switch, thermostat and fan. The space-saving interior lamp is screw fastened and can be mounted both horizontally and vertically on the SP Rack's 25 mm pitch pattern, or as an alternative, attached magnetically to any sheet steel surface (magnetic attraction force: approx. 10 kg)

Dimensions: (L x W x H) 225 x 88 x 44 mm

Material: 1.00 mm sheet steel

Finish: powder coated in RAL 7035 (smooth finish)

Delivery comprises: 1 Comfort interior lamp, 1 power cable (2 m) with socket and dual earthing two-pole schuko plug, fixing accessories.

System interfaces:
- 1 socket for 230 V supply lead
- 1 coded two-pole jack for thermostat, daisy chain wiring
- 1 coded three-pole jack for fan
- 1 coded two-pole jack for door contact switch
- Integrated front side switch (On/Off door contact switch)

Technical Data:
- Input voltage: 230 V / 50 Hz
- Input current: 50 mA
- System: 6 W

Integrated electronic self ballast

Interior lamp, comfort	Order no.
Comfort interior lamp with screw fasteners	**7841000**
Comfort interior lamp with magnetic fastener	**7841100**
Light bulb	**7841500**

General Accessories

Thermostat and door contact switch for interior lamp, comfort

Thermostat

The thermostat enables the fan and the door contact switch to be connected to each other and to the power supply simply and professionally. Retrofitting is also possible.
Delivery comprises: 1 thermostat with a 1 m lead and plug, fully wired, 1 mains cable (2 m), 1 mounting kit, fixing accessories
Technical data:
- Adjustment range: 0 – 60° +/- 2k
- Max. switching capacity: 6A/230 V AC
- Noise depression class: N
- Protection class: IP20

Thermostat	Order no.
	7841200

Door contact switch

Is connected to the Comfort interior lamp.
Delivery comprises: 1 door contact switch with 0.5 m lead and connector plug, fully wired, 1 mounting kit, fixing accessories
Technical data:
- Continuous current: 10 A/500 V AC
- Protection class: IP68

Door contact switch	Order no.
	7841300

Varnish applicator

For touching up or repairing damage to the powder coated finish. Volume: 12 ml

Colour	Order no.
RAL 7035 (light grey)	**7999000**
RAL 9005 (black)	**7999050**

482.6 mm (19") adhesive tape measure strip for mounting angles

Numerically marked in inches to indicate height units. Numbered from top to bottom or vice versa.

Material: self-adhesive transparent foil
Delivery comprises: 2 rolls of tape

Self-adhesive tape measure strip	Order no.
47 – 1 U	**6699200**
1 – 47 U	**6699400**
1 – 47 U from top to bottom	**6699500**

TFT console

Efficient server management in 19" racks

- 17" LCD monitor
- Resolution: 1280 x 1024 (SXGA)
- Brightness type 300 cd/m²
- Contrast type ratio 500:1
- 16.7 million colours
- On Screen menu
- Approvals: CE, FCC
- Dimensions (W x D x H): 482 x 490 x 44 mm
- 2 telescopic rails
- Max. rated power: 30 watts
- Power consumption in standby < 1 watt
- Touchpad with integrated mouse keys and scrolling function
- Touchpad with integrated number block (88 keys on German version)

TFT console 17"	Keyboard	Order no.
Colour light grey, RAL 7035	D	**7545500**
Colour black, RAL 9005	D	**7546000**
Colour black, RAL 9005	UK	**7546010**
Colour black, RAL 9005	US	**7546020**
Colour black, RAL 9005	F	**7546030**
Colour black, RAL 9005	I	**7546040**
Colour black, RAL 9005	E	**7546050**
Colour black, RAL 9005	CH	**7546060**

Spare key for door (SP, NT Box, Slimline)

Lock type: EMKA 333
Delivery comprises: 1 key

Spare key for door	Order no.
	7999500

Spare key for side panel

Lock type: EMKA 2233X
Delivery comprises: 1 key

Spare key for side panel	Order no.
	7799500

Installation set for profile half cylinder lock

For retrofitting DIN 18252 profile half cylinder locks in pivoted handles.

Delivery comprises: 1 installation set, fixing accessories

KaBa cylinder type 1036 can be installed.

Installation set for profile half cylinder lock	Order no.
	7590600

General Accessories

3 U power box

For switches, one-way switches or power strips on frame-works or scaffolding. Up to 22 modules with 18 mm wide can be connected. DIN rail mounting rail has a depth adjustable range of 15 mm. The box is equipped with two 10 x 8 mm earthing rails. Cable entry aperture 400 x 35 mm with brush on rear side.
Length: 120 mm with 15 x M5 inlets
Material: 1.5 mm steel sheet
Finish: RAL 7035
VE: 1 piece

3 U power box	order no.
	6670540

Power supply strip, D model

Depending on the model, the power supply strips can be installed in the 482.6 mm (19") angle or either vertically or horizontally on 25 mm pitch pattern of the framework. The plugging direction can be varied by turning the end of the strip by 90°. The Schuko receptacles are integrated into the strip at an angle of less than 35°, allowing the use of angled plugs. The strip's low installation height of only 1 U minimises the loss of space on the 482.6 mm (19") angle.
Material: aluminium extrusion profile, plastic in acc. with UL94VO
Colour RAL 7035
Delivery comprises: 1 power supply strip with a 2 m lead (3 x 1.5 mm²) and Schuko plug depending on the model, fixing accessories.

Technical Data (depending on model)
■ Design in acc. with DIN 49440 and CEE F/III, operating voltage 240 V
■ Overvoltage protector tested in acc. with DIN VDE 0675, part 6/A1/A2 requirement class D, Uoc varistor temperature monitoring, visual operation monitoring, nominal current capacity per conductor 6.5 kA, deflector voltage 250 V/50 Hz
■ 10 A noise suppression filter in acc. with DIN VDE 0565, part 3/5.86
■ Transient protection

W: Rocker switch
EÜ: Overvoltage protector and noise suppression filter

CE

No of sockets	Length (mm)	With switch	With plug. schuko	Without plug	With overV. protec.	With display (A)	"D" model schuko	"F" model	"UK" model	"CH" model	"C13" model	"C19" model	Order no.
6	482.6 mm (19")		x		x		x						**7770500**
5	482.6 mm (19")		x		x				x				**7771760**
6	482.6 mm (19")		x									x	**7771810**
5	482.6 mm (19")			x	x					x			**7770600**
7	482.6 mm (19")		x						x				**7771730**
7	482.6 mm (19")			x					x				**7771750**
7	482.6 mm (19")		x			x	x						**7771790**
8	482.6 mm (19")	x	x				x						**7772000**
9	482.6 mm (19")		x				x						**7771000**
9	482.6 mm (19")			x			x						**7771720**
9	482.6 mm (19")		x					x					**7771840**
10	482.6 mm (19")		x							x			**7770610**
12	482.6 mm (19")		x								x		**7771800**
4	266		x				x						**7770400**
9	566		x	x			x						**7772500**
12	566		x				x						**7771500**
24	765		x								x		**7771620**
24	765		CEE 32 A 1-pole								x		**7771630**
24	765		CEE 16 A 5-pole								x		**7771640**
9	765		CEE 16 A 1-pole									x	**7771850**

Intelligent power strips
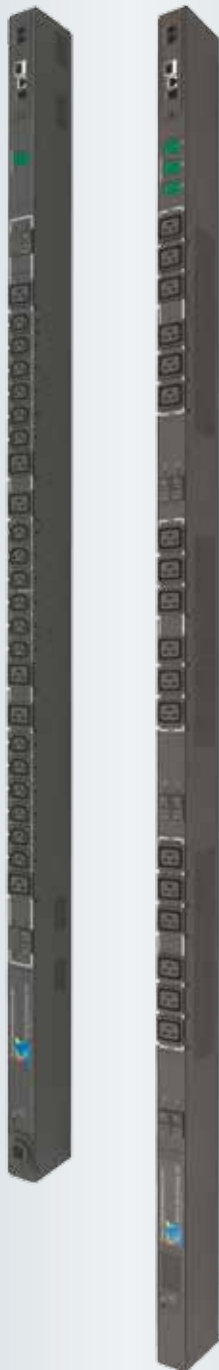
This network capable (TCP/IP) PDU manages the power distribution in your rack.
Technical Data (depending on model):

■ Group-based fuse protection, with melt fuse or auto-reset
■ Current measurement on group or phase
■ Monitoring ambient parameters (optional)
■ IP access, security and communication, web interface, SSL, SSH, Telnet, SNMP and RS-232 access, 10/100 Base T-Ethernet, SMTP/e-mail and Syslog
■ Control of individual output receptacle

Certifications:
European Union acc. to EN 60950-1:2001
EMV-EN 55022 Class A, EU 5502

Phase	Amp.	Power	Outlets	Plug	Plug	Installation			
							PDU with metering, network connection and monitoring	PDU with individual outlet metering, network connection and monitoring	Switched PDU, individual outlet metering and monitoring
				C 13 (10 A)	C 19 (16 A)		MASTER UNIT	MASTER UNIT	MASTER UNIT
single-phase	32 A	7.2 kW	24	18	6	vertical		**7770560**	
triple-phase	16 A	11 kW	18		18	vertical	**7770550**		
triple-phase	32 A	22 kW	24	12	12	vertical			**7770570**

Power Control, 1 U, power strip with integrated functions for measuring current, voltage, output, phase angle, frequency and energy

Aluminium profile 1 U, natural anodised, approx. 450 mm in length with specifications as follows:

- Plastic end face and receptacles in grey
- 230 V power supply via the right/lower end face by means of a fixed HO5VV-F 3G 1,5 mm² 2 m mains cable with angled schuko plug
- With integrated current/output meter
  (allowing for phase shift) -> 0–16 A, 3-digit ampere display
- Measuring range from 0.1 – 16 A
- Fully insulated power inputs in acc. with low voltage directive accuracy class 1
- **8 IEC C 13 sockets,** black or
  6 Schuko sockets, 35° angled, grey
- With optional locking for C 13
- Delivery includes 2 brackets for mounting the power strip horizontally/vertically on/in the rack

Type	Order no.
6 outlet schuko	**7770650**
8 outlet IEC C 13	**7770660**

Switchable 24-outlet C 13 power strip, 32 A (SNMP)

- 24 IEC outlets, each with 10 A capacity,
  divided into 3 groups of 8 x C 13
- Each group of 8 protected with 16 A fuse
- Overall capacity 32 A
- Connector cable length 2m
- CEE 32 A socket, 3-pole blue, or CEE 16 A 5-pole, red
- Status Led red/green (switch on/switch off) per port
- Status LED for fuses
- ON delay can be individually set for each port (1 sec. – 30 min.)
- Soft start (after PowerOn, ports switch on gradually with time delay)
- Memory function (after PowerOn, ports will assume on,
  off or last status)
- Batch function (each port can be switched off and
  restarted automatically after x seconds)
- Control via Ethernet, HTML and script
- All ports can be switched by hand on the device itself, also in the
  event of power failure
- SNMP 1 and 2.c, Syslog functionality
- Password protection for user/admin and IP ACLs (firewall)
- Can be updated via Ethernet, also when in operation
  (port status remains unchanged)
- Mounting holes in 25 mm pitch pattern
- 1 U, overall length 1500 mm, depth only 60 mm

Type	Order no.
Switchable 24-outlet C 13 power strip, 32 A 3-pole, L/N/PE (SNMP)	**7771600**
Switchable 24-outlet C 13 power strip, 3 x 16 A 5-pole L$_1$/L$_2$/L$_3$/N/PE (SNMP)	**7771610**

Modular Rack Management System

Multifunctional modular monitoring system for server rooms and data centres

The 8-port module is attached onto the side of the CPU module and provides 8 connector ports for universal application

The CPU module is the communication unit which processes the information from the port modules and passes it on by SNMP via data networks

The concentrator is used in large-scale applications (building control systems, industrial environments, large-scale data centres). It serves as a consolidation point for high density installations

Plug connectors to neighbouring modules provide the required electricity and data line links. Simply connect sensors/actuators with RJ45 plugs*) to the rear side, whether digital or analogue, input or output
*) 8-port module is also available with a clamp connector

Benefits:
- Modular design to suit customer requirements
- Integration in existing infrastructures
- Scalable
- Multifunctional and universal
- No software installation required
- Access via web browser
- Hot plugged
- 1 U
- Fast configuration

Article no. on request!

Simply slot together and secure with a cross support (for wall/table mounting)

CPU and 8-port module with Bracket for rack mounting

Rack Management System

Rack management system

Complete security for computer centres and racks

The rack management system serves as an intelligent network agent for monitoring all environmental influences on network, switch and server racks in computer centres, on campus and in eternal locations. All monitored environments can be evaluated accordingly and necessary control operations carried out. In reaction to particular events, alarm messages are generated automatically and/or switching operations triggered. The RMS is operated via SNMP or a web browser. Private MIB allows the RMS to be integrated in all common network monitoring systems. The RMS is an autonomously functioning system and secures the operation of the entire electronic data processing system. All results can be recorded and evaluated as required.

All features at a glance

- Stable, high-availability operating system (Linux)
- Extensive range of sensors for all usual environmental influences
- Compatible with other sensor technology due to analogue input channels
- Internal power supply for all sensors (no additional mains adapter required)
- Programmable filter system for the realisation of any alarm conditions
- Operation and configuration by SNMP, http.
- Alarm messages by LED, buzzer, switching outputs and network management (SNMP traps)
- Compatible for all usual network management platforms
- Integrated user administration (password-protected)
- Optional access control (keypad, chip card, GSM)
- Update function

Connections at the rear

Technical data

Type	Comfort	Economy
Order no.	**7570100**	**7570200**
1 mains connection	85...264 V AC optional 48 V DC	85...264 V AC optional 48 V DC
8 digital inputs	max. 48 V, 1 A	max. 48 V, 1 A
8 digital inputs	max. 12 V DC	max. 12 V DC
4 analogue inputs	max. 10 V DC	max. 10 V DC
4 relay outputs	max. 48 V, 1 A	max. 48 V, 1 A
1 COM interface	serial interface	serial interface
2 USB interfaces	configuration, memory	no
2 CAN interfaces	for additional external modules	for additional external modules
1 Ethernet network interface	100Mbit, RJ45	10Mbit, RJ45
Protocols	SNMP, http	SNMP
Display	2-line, 20 places, alpha numerical	no
Status LEDs	yes	yes
DC optional	48 V DC	48 V DC
Int. power supply for sensors	yes	yes
SNMP 1.0 and 2.C	yes	yes
http	yes	no
Operating temperature	+ 5...50° C	+ 5...50° C
Humidity	5...85 % rel. humidity, non-condensing	
Dimensions (H x W x D)	43.5 (1 U) x 481 x 210 mm	43.5 (1 U) x 481 x 210 mm
Weight	2.9 kg	2.9 kg
Delivery comprises	RMS, inc. mains cable, CD: software and manual	
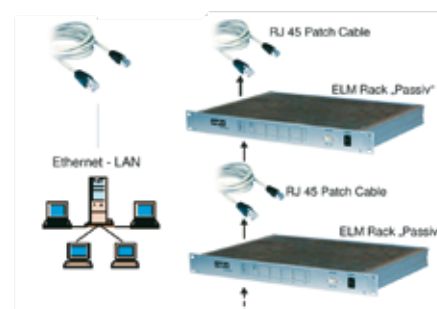
	Order no.
Temperature sensor with 2 m cable + plug	**7580450**
Climate temp/humidity sensor with 2 m cable	**7580600**
Smoke alarm 2 m cable + plug	**7580750**
Door contact sensor 4 m cable + plug	**7580800**
Vibration sensor with 2 m cable + plug	**7590000**
Extension cable for handle/sensor, 3 m	**7590110**
Extension cable for handle/sensor, 7 m	**7590120**
Extension cable for handle/sensor, 12 m	**7590130**
Keyboard with combination lock	**7590150**
Card reader	**7590160**
Pivoted handle, electromagnetic operation	**7590200**

Uninterruptible Power Supply Systems

Line interactive

Line interactive technology with buck-boost function and sinusoidal output voltage
- Combined rack-tower model, only 2 U
- Scalable stored energy time (from ZINTO A 1500)
- Hot-swap battery: intelligent battery management, self test and quick-charge system
- Selectable input and output voltages – generator-compatible
- Overvoltage protection for telephone and data lines
- Hot standby capable, raises operational reliability for servers with redundant mains adapters
- USB and RS-232 interfaces, potential-free contacts, emergency OFF
- Slot for optional interface cards (AS400, SNMP/network, relay contact, etc.)
- Includes DataWatch shut-down, management and monitoring software
- 2 years warranty with immediate warranty replacement

Accessories
- Rack mounting rail for ZINTO A series: compatible with racks of all manufacturers, due to variable length of 465 – 865 mm, max. load 68 kg, dimensions in mm (W x H x D): 490 x 75 x 50, **art. no. 6591330**
- Rack mounting kit for ZINTO A 800/1000: for mounting in 19" rack, excluding rack mounting rails, which must be ordered separately if required, dimensions in mm: (W x H x D): 500 x 95 x 280, **art. no. 6591340**
- Rack mounting kit for ZINTO A 1500/1500BP/2000/2000BP: for mounting in 19" rack, excluding rack mounting rails, which must be ordered separately if required, dimensions in mm: (W x H x D): 500 x 95 x 65, **art. no. 6591350**

	ZINTO A 800	ZINTO A 1000	ZINTO A 1500	ZINTO A 2000	ZINTO A 3000
Order no.	**6591700**	**6591800**	**6591000**	**6592100**	**6592200**
Nominal output					
Apparent power	800 VA	1000 VA	1500 VA	2000 VA	3000 VA
Effective power	530 W	700 W	1000 W	1340 W	2000 W
Input					
Nominal voltage	230 volt, selectivity adjustable				
Frequency	50/60 Hz +/- 10 %				
Current intensity, max.	3,6 A	4,5 A	6,8 A	9,1 A	13,6 A
Input connector	IEC 320 C14	IEC 320 C14	IEC 320 C14	IEC 320 C14	IEC 320 C20
Output					
Nominal voltage	230 volt, +/- 5%, 220/240 volt configurable				
Frequency	50/60 Hz +/- 0,2 %				
Switchover time	4 ms				
Efficiency, normal operation	> 95 %				
Efficiency, battery operation	> 85 %				
Output socket	4 x IEC 320 C13	6 x IEC 320 C13	6 x IEC 320 C13	6 x IEC 320 C13	8 x IEC 320 C13 1 x IEC 320 C19
Stored energy time	50 %/100 % active power load				
Standard (internal battery) min.	23 (3)	14(6)			13 (5)
Plus 1 battery pack (min.)			16 (7)	14 (6)	
Plus 2 battery packs (min.)			40 (16)	34 (15)	
Plus 3 battery packs (min.)			67 (28)	56 (25)	
Plus 4 battery packs (min.)			95 (40)	78 (36)	

Double-phase transformer

Double-phase transformer technology, classification VFI-SS-111
- Double-phase transformer technology, classification VFI-SS-111
- Combined rack-tower model
- Extremely quiet due to regulated high-performance fan
- Black, attractive design also suitable for office environment
- Hot-swappable battery: conversion without interrupting operation
- Scalable stored energy time due to extreme battery packs
- Selectable input and output voltages –generator-compatible
- Hot standby capable, raises operational reliability for servers with redundant mains adapters
- Rack mounting rail, **art. no. 6591320**
- RS-232 interface and potential-free contacts
- Slot for optional interface cards (AS400, SNMP/network, relay contact, etc.)
- Includes DataWatch shut-down, management and monitoring software
- 2 years warranty with immediate warranty replacement

	Xanto RT 1000	Xanto RT 2000	Xanto RT 3000
Order no.	**6591100**	**6591200**	**6591300**
Nominal output			
Apparent power	1000 VA	2000 VA	3000 VA
Effective power	700 W	1400 W	2100 W
Input			
Nominal voltage	230 volt		
Frequency	50/60 Hz +/- 10 %		
Current intensity, max.	3,8 A	7,8 A	10,7 A
Input connector	IEC 320 C 14	IEC 320 C 14	IEC 320 C 20
Output			
Nominal voltage	230 volt, +/- 5 %, 220/240 volt configurable		
Frequency	50/60 Hz +/- 0,2 %		
Voltage distortion, linear load	< 2 % THD, R load		
Voltage distortion non-linear load	< 2 % THD, RCD load		
Power loss, max.	49 W	98 W	147 W
Output socket	4 x IEC 320 C 13	4 x IEC 320 C 13	2 x IEC 320 C 13 terminal
Stored energy time	50 % / 100 % active power load		
Standard (internal battery) min.	18 (6)		
Plus 1 battery pack (min.)		17 (6)	15 (5)
Plus 2 battery packs (min.)		52 (20)	37 (16)
Plus 3 battery packs (min.)		94 (37)	55 (26)
Plus 4 battery packs (min.)		122 (54)	78 (40)

Temperature and humidity controller

- 4 x RJ11 sensor connections for temperature/humidity
- Status LEDs
- Temperature measuring range
- Humidity measuring range
- Application areas: floor, table, rack/furniture-mounted, wall-mounted
- International mains adapter 110/230 V AX
- Power consumption: 2.5 VA
- Dimensions: 130 x 90 x 30 mm
- Weight: 350 g
- Network: 10 MBit, RJ45
- Protocols and standards: http, dhcp, smtp, snmp
- Operating temperature: +5° C to +40° C

Delivery comprises:
1 housing with electronic accessories
1 mains adapter
1 temperature sensor -10° C to +70° C
1 data cable
1 software CD
1 set of operating instructions

RMS 200	Order no.
RMS 200	**6670420**
Temperature sensor, -10° C to +70° C	**7580400**
Humidity sensor	**7580500**

1U Speed and temperature controller

LC display (LCD) with plain text menu.
Temperature-dependent infinitely variable speed control.
Mains connection via IEC plug.
Relay alarm output and sensor: 2-pole plug

Technical data:
- Operating voltage: 110 – 240 Volt/50 + 60 Hz
- Power consumption, max.: 250 W (max. load)
- Max. switching capacity: 10 A
- No-load loss: ~ 1 W
- Alarm output: 1 changeover, 24 V UC – 5 A
  (max. 48 V – 10 A)
- Fuse: M 1.6 A – 250 V (5 x 20mm)
- Temperature range: +5° C to +60° C
- Switching range: +5° C to +60° C
- Temperature units: ° C and ° F, adjustable
- Switching differential: 1° C to 5° C, adjustable
- Temperature sensor: PTC-sensor with plug (KTY81-2)
- Display/Switching accuracy : +/- 2 Kelvin
- Storage of minimum and maximum recorded temperatures, reset possible

Dimensions:
Installation depth: 210 mm
Width: 19" (housing: 437 mm) height: 1 U

Equipment/Delivery comprises:
Speed and temperature controller
Mains supply cable
Temperature sensor with 1.5 m cable
1 data cable, 1 software, 1 operating manual

1 U Speed and temperature controller	Order no.
	6670500
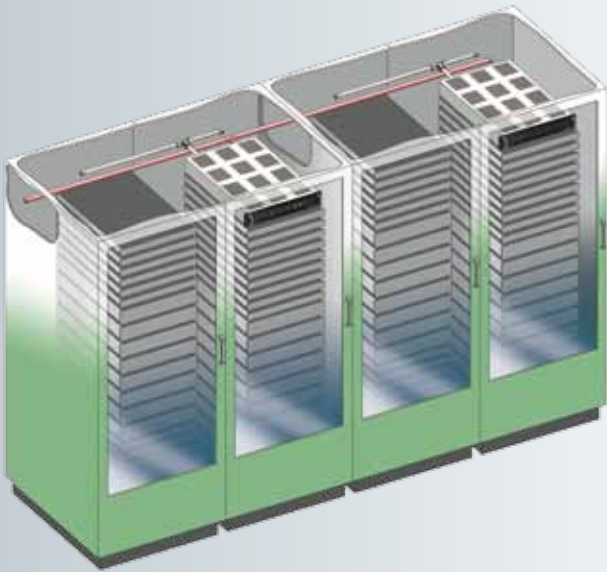
Space-saving fire protection for server racks

Data processing, server or switchgear racks are among the most important technical equipment in any company. They are responsible for managing internal data flow or controlling manufacturing processes and yet, more often than not, these racks are positioned inaccessibly or are insufficiently integrated into existing security systems. The new **TITANUS RACK-SENS®** can put an end to this situation.

- ■ Can be installed vertically
- ■ Plug and play
- ■ Easy-to-handle, space saving 482.6 mm (19") module
- ■ Integrated air-sampling smoke detection system
- ■ Available in 1 U or 2 U
- ■ Extinguishing media: Novec 1230
   (non-conductive, leaves no residues, direct use on open flame results in formation of acid)
   1 U version with external extinguishing gas cylinder
   2 U version with integrated extinguishing gas cylinder
- ■ VdS (German fire safety inspection institute) approval (1 U)
- ■ Network (Ethernet ISNMP)
- ■ Certified Microsoft server management interface

Designed for:
- ■ Network and server racks
- ■ Telecommunications racks

Article no. available on request!

- Can be used universally
- Can be mounted on any SP54 Rack
- Light grey RAL 7035

Roof mounting air conditioner

Roof mounting air conditioner		WxHxD (mm)	Order no.
1400 W	Roof mounting air conditioner 230 V/1/50-60 Hz, weight 45 kg, 65 dB (A); only for racks from 800 mm depth upwards	604 x 350 x 448	**6310110**
2000 W	Roof mounting air conditioner 230 V/1/50-60 Hz, weight 44 kg, 65 dB (A); only for racks from 800 mm depth upwards	604 x 350 x 448	**6310120**
2700 W	Roof mounting air conditioner 230 V/1/50-60 Hz, weight 81 kg, 67 dB (A); only for racks from 900 mm depth upwards	804 x 487 x 480	**6310130**

Air/water heat-exchanger, roof mounted		Order no.
2200 W	Roof mounting heat exchanger 230 V/1/50-60 Hz, weight 30 kg, 58 dB (A); only for racks from 900 mm depth upwards	**6310160**

Width (mm)	Depth (mm)	Order no.
Top cover RAL 7035 for air conditioner 2700 watts		
600	1000	**6730016**
800	1000	**6930016**
Top cover RAL 7035 for air conditioner 1400/2000 watts		
600	1000	**6731060**

Please note:
For air/water heat exchangers, a source of cold water generation must be provided by the customer. For air conditioners, the customer must ensure sufficient cold intake/warm outlet air.

Light grey RAL 7035

Index

All measurements indicated are approximations and can vary in either direction. We reserve the right to make changes in design or colour range. Publication of this catalogue renders all previous issues invalid.
All articles are delivered without the decorations that may be portrayed in the images. Delivery is made in accordance with our terms of sale and delivery.

List of order numbers

Order no.	Catalogue page	Order no.	Catalogue page	Order no.	Catalogue page	Order no.	Catalogue page	Order no.	Catalogue page	Order no.	Catalogue page
6030025	31	6351950	69	6537005	28	6670420	104	6728500	76	6760550	90
6040025	31	6352350	68	6540015	29	6670500	104	6728505	26	6761500	81
6227000	91	6352950	68	6540115	29	6670510	88	6729000	77	6762500	81
6229000	91	6353350	68	6543005	28	6670520	88	6729005	26	6763000	88
6310050	75	6353950	68	6543505	28	6670530	88	6730010	72	6763200	84
6310110	106	6354350	69	6550400	89	6670540	98	6730015	27	6763200	88
6310120	106	6354950	69	6550450	89	6699200	96	6730016	106	6763210	88
6310130	106	6359000	68	6550500	89	6699400	96	6730030	72	6763220	88
6310160	106	6359100	69	6550550	89	6699500	96	6730035	27	6763230	88
6312000	75	6412120	23	6550600	89	6705010	72	6730100	72	6763240	88
6312050	75	6412170	17	6550650	89	6705015	27	6730105	27	6777000	78
6312200	75	6420120	23	6554005	28	6705020	73	6731000	76	6777005	26
6312250	75	6420150	23	6554505	28	6705030	72	6731060	106	6778000	78
6336100	65	6420190	17	6556000	77	6705035	27	6732000	76	6778005	26
6336150	65	6420200	23	6557000	77	6705040	73	6732005	26	6778500	78
6340000	65	6420220	58	6583500	77	6705045	27	6733000	76	6778505	26
6340050	65	6420240	58	6583505	28	6705050	73	6733005	26	6779000	78
6340100	65	6420260	58	6588000	77	6705055	27	6733006	26	6779500	78
6340150	65	6420270	63	6588005	28	6705065	27	6734000	76	6780000	78
6340200	65	6420280	58	6591000	103	6706100	73	6734005	26	6780200	79
6340250	65	6420300	58	6591100	103	6706105	27	6735000	76	6780220	79
6340300	65	6420340	58	6591200	103	6706300	73	6735005	26	6780350	79
6340350	65	6420360	58	6591300	103	6706305	27	6735006	26	6780500	78
6340400	65	6420500	58	6591320	103	6706700	73	6736000	76	6780505	26
6340450	65	6420520	58	6591330	103	6706705	27	6736005	26	6780510	78
6340500	65	6421000	62	6591340	103	6707700	73	6736006	26	6780515	26
6340550	65	6421050	62	6591350	103	6707705	27	6737000	76	6781400	80
6340600	65	6421100	62	6591700	103	6715000	72	6737005	26	6782410	80
6340650	65	6421150	62	6591800	103	6715010	72	6737006	26	6782500	78
6340700	65	6421200	62	6592100	103	6715015	27	6737060	76	6783000	78
6340750	65	6421250	62	6592200	103	6715020	73	6738000	76	6783005	28
6340800	65	6421300	62	6594500	77	6715030	72	6738100	76	6783010	78
6340850	65	6421350	62	6594505	28	6715035	27	6738105	26	6783015	28
6340900	65	6421400	62	6595505	28	6715040	73	6739000	76	6783100	80
6340950	65	6421450	62	6605020	74	6715045	27	6739005	26	6783200	80
6341000	65	6421500	62	6605025	27	6715065	27	6739006	26/28	6783300	80
6341100	65	6421550	62	6605030	74	6715070	73	6739060	76	6783400	80
6341150	65	6421600	62	6605035	27	6715075	27	6739100	76	6783500	78
6341200	65	6421650	62	6606100	74	6715080	73	6739200	76	6783505	26
6341250	65	6421700	62	6606105	27	6715085	27	6739300	76	6783505	28
6341300	65	6421750	62	6606200	74	6720010	72	6739400	76	6783510	78
6341350	65	6422000	62	6606205	27	6720015	27	6740000	76	6783515	26
6341400	65	6422050	62	6606500	74	6720020	73	6740005	26	6783515	28
6341450	65	6422100	62	6606505	27	6720030	72	6740006	26/28	6783700	80
6341500	65	6422150	62	6607500	74	6720035	27	6740010	72	6783800	80
6341550	65	6422200	62	6607505	27	6720040	73	6740015	27	6784410	80
6341600	65	6422250	62	6611005	26	6720045	27	6740030	72	6784500	78
6341650	65	6422300	62	6612150	21	6720050	73	6740035	27	6784505	26
6341700	65	6422350	62	6612160	21	6720055	27	6740060	76	6784510	78
6341750	65	6422400	62	6612170	21	6720065	27	6740100	72	6784515	26
6341800	65	6422450	62	6612180	21	6720070	73	6740105	27	6785000	78
6341850	65	6422500	62	6612605	26	6720075	27	6741000	77	6785005	26
6341900	65	6422550	62	6612650	15	6720090	72	6741006	26/28	6785010	78
6341910	65	6422600	62	6612660	15	6720095	27	6741060	76	6785015	26
6341920	65	6422650	62	6612805	26	6720100	72	6741065	26	6785500	88
6342100	65	6422700	62	6612850	15	6720105	27	6742000	77	6787000	88
6342150	65	6422750	62	6612905	26	6720110	72	6742006	26/28/30	6788000	88
6342200	65	6422800	62	6612920	19	6720115	27	6742500	77	6790200	79
6342250	65	6422850	62	6612930	19	6720120	73	6743050	62	6790300	79
6342300	65	6422900	62	6612940	19	6720125	27	6744000	77	6790400	79
6342350	65	6422950	62	6615020	74	6720130	73	6744005	28	6790500	79
6342500	65	6423000	62	6615025	27	6720135	27	6744050	62	6790600	79
6342550	65	6423050	62	6615030	74	6720140	73	6744060	62	6791000	90
6343100	65	6423100	62	6615035	27	6720145	27	6744500	78	6796000	90
6343150	65	6423150	62	6615050	74	6720250	73	6745000	77	6796050	90
6343200	65	6430100	63	6615055	27	6720255	27	6745005	28	6800606	31
6343250	65	6430200	63	6615080	74	6721000	76	6745500	78	6805020	74
6343300	65	6430300	63	6615085	27	6721005	26	6745500	86	6805025	31
6343350	65	6481000	25	6615090	75	6722000	76	6746060	62	6805030	74
6343400	65	6481500	25	6615100	75	6722005	26	6746500	78	6805035	31
6343450	65	6482000	25	6618905	26	6722500	76	6747500	78	6806200	74
6344000	65	6482500	25	6620020	74	6722505	26	6748500	78	6806205	31
6344050	65	6506205	29	6620025	27	6723000	75	6749500	78	6806300	74
6344100	65	6506305	29	6620030	74	6723005	26	6749500	86	6806305	31
6344150	65	6506605	29	6620035	27	6723205	26	6750000	89	6806600	74
6344200	65	6506705	29	6620050	74	6723500	75	6750050	89	6806605	31
6344250	65	6520125	29	6620055	27	6723505	26	6750500	89	6806606	31
6344300	65	6520225	29	6620120	21	6724000	75	6750550	89	6806700	74
6344350	65	6520960	19	6620140	21	6724005	26	6751005	26	6806705	31
6344400	65	6520970	19	6620160	21	6725000	75	6752005	26	6807606	31
6344500	65	6521005	28	6620180	21	6725005	26	6753005	26	6810016	27
6344600	65	6521205	28	6620605	26	6725530	74	6754005	26	6812605	30
6344700	65	6521505	28	6620805	26	6725900	74	6755005	26	6812805	30
6345100	65	6522005	28	6620905	26	6726000	76	6756000	77	6812905	30
6345150	65	6522205	28	6620930	19	6726005	26	6756005	26	6815016	31
6345150	65	6522505	28	6620940	19	6726005	26	6757500	90	6815020	74
6345200	65	6523505	28	6620960	19	6727000	77	6758500	90	6815025	31
6345200	65	6524505	28	6620970	19	6727005	26	6758550	90	6815030	74
6345250	65	6530015	29	6621005	26	6727500	75	6759000	77	6815035	31
6345250	65	6530115	29	6621205	26	6727505	26	6759005	26	6815050	74
6350000	68	6535505	28	6622105	26	6728000	77	6760100	94	6815055	31
6351350	69	6537000	77	6622125	26	6728005	26	6760500	90	6815056	27

Professional and intelligent

Service

You can rely totally on SCHÄFER service quality. Regardless of whether you have a question about one of our products or need advice on a specific project, we can provide competent advice quickly and without complications. With active project support and individual services like express delivery, unloading and carrying, disposal of packaging materials and on-site assembly, we and our well-practised team of partners will provide you with all the assistance you need.

Logistics

From our Express range, we can supply complete customer solutions including the most important accessories straight from stock at short notice.

Customised Branding

You can have your company logo put on all assemblies we supply. This is the simplest, quickest and most economical solution for labelling your products.

Certified quality

All production sites are certified in accordance with DIN EN ISO 9001:2008 and are covered by a professional quality management system in all manufacturing processes. Within this quality management system, technical testing, measuring and inspection procedures ensure the work we perform for our customers will be faultless. The auditing of procedures for quality verification and manufacturing by well-known international clients, as well as the customisation of testing procedures and cycles is part of SCHÄFER's everyday business. Inspection protocols and quality certificates are, in most cases, sent to customers electronically and the objective evaluation of working processes is guaranteed by our cooperation with independent inspection bodies.

Your contacts

SCHÄFER
IT-SYSTEMS

Contact information

Service and Order Centre

SCHÄFER Ausstattungs-Systeme GmbH
Betzdorf plant
Industriestraße 41 · D-57518 Betzdorf

Phone: D   +49 (0) 2741/283-770
NL +31 (0) 26/3615229
Fax: +49 (0) 2741/283-798
E-Mail: sales@schaefer-it-systems.de
www.schaefer-it-systems.com

Sales

Sales management
Peter Wäsch
Sales director
SCHÄFER Ausstattungs-Systeme GmbH
Betzdorf plant:
Industriestraße 41 · D-57518 Betzdorf
Phone: +49 (0) 2741/283-781
Fax: +49 (0) 2741/283-798
Mobile: +49 (0) 170/5634140
E-Mail: pwaesch@schaefer-it-systems.de

Sales area east
Jörg Krätzig
Area sales manager east
Post codes 0, 1, 39, 98-99
Sales office Berlin:
Wendenschloßstr. 462 · D-12557 Berlin
Phone: +49 (0) 2741/283-902
Fax: +49 (0) 2741/283-962
Mobile: +49 (0) 171/5642035
E-Mail: jkraetzig@schaefer-it-systems.de

Sales area west
Detlef Müller
Area sales manager west
Post codes 33-36, 40-48, 50-54, 56-59
Sales office Kalenborn:
Auf den Wiesen 2 · D-53505 Kalenborn:
Phone: +49 (0) 2741/283-907
Fax: +49 (0) 2741/283-967
Mobile: +49 (0) 151/62815999
E-Mail: dmueller@schaefer-it-systems.de

Sales area north
Peter Suter
Area sales manager north
Post codes 2, 30-32, 37-38, 49
Sales office Hamburg:
Mattentwiede 5 · D-20457 Hamburg
Phone: +49 (0) 2741/283-905
Fax: +49 (0) 2741/283-965
Mobile: +49 (0) 1520/3603470
E-Mail: psuter@schaefer-it-systems.de

Sales area south
Matthias Heinz
Area sales manager south
Post codes 66-69, 7
Sales office Sonnenbühl:
Egelsbergstraße 20 · D-72820 Sonnenbühl
Phone: +49 (0) 2741/283-915
Fax: +49 (0) 2741/283-975
Mobile: +49 (0) 170/3399785
E-Mail: mheinz@schaefer-it-systems.de

Sales area south-east
Siegfried Bachmann
Area sales manager south-east
Post codes 8, 90-97
Sales office Ammerndorf:
Am Weinberg 5 A · D-90614 Ammerndorf
Phone: +49 (0) 2741/283-903
Fax: +49 (0) 2741/283-963
Mobile: +49 (0) 171/9771017
E-Mail: sbachmann@schaefer-it-systems.de

Sales area south-west
Tilo Püschel
Area sales manager south-west
Post codes 55, 60-65
Sales office Siegbach:
Waldstraße 24 · D-35768 Siegbach
Phone: +49 (0) 2741/283-906
Fax: +49 (0) 2741/283-966
Mobile: +49 (0) 160/7080809
E-Mail: tpueschel@schaefer-it-systems.de

Sales area BeNeLux
Wieger W. Westra
Sales director IT BeNeLux
Sales office BeNeLux:
Akkelei 13 · NL-9285 KA Buitenpost
Phone: +31 (0) 511/540800
Fax: +31 (0) 511/540040
Mobile: +31 (0) 6/22479916
E-Mail: wwwestra@schaefer-it-systems.de

Gerbert-Jan Meijerink
Area sales manager BeNeLux
Sales office BeNeLux:
Paganiniplantsoen 48
NL-2151 GH Nieuw Vennep
Phone: +31 (0) 252/626442
Mobile: +31 (0) 6/31773626
E-Mail: gjmeijerink@schaefer-it-systems.de

SCHAEFER IT-Systems Showroom
Delta 100 · NL-6825 MV Arnhem
Phone: +31 (0) 26/3615229

Customer service centre
Product-/Projectmanagement

Dominik Arndt
Director back office
Phone: +49 (0) 2741/283-235
Fax: +49 (0) 2741/283-798
Mobil: +49 (0) 160/97207994
E-Mail: darndt@schaefer-it-systems.de

Ina Diehl
IT Rack Solutions
Phone: +49 (0) 2741/283-742
Fax: +49 (0) 2741/283-798
E-Mail: idiehl@schaefer-it-systems.de

Yvonne Henrichs
IT Rack Solutions
Phone: +49 (0) 2741/283-261
Fax: +49 (0) 2741/283-798
E-Mail: yhenrichs@schaefer-it-systems.de

Verena Neuser
IT Rack Solutions
Phone: +49 (0) 2741/283-730
Fax: +49 (0) 2741/283-798
E-Mail: vneuser@schaefer-it-systems.de

Karina Wagner
IT Rack Solutions
Phone: +49 (0) 2741/283-240
Fax: +49 (0) 2741/283-798
E-Mail: kwagner@schaefer-it-systems.de

Melvin van Doorn
IT Rack Solutions Export (BeNeLux)
Phone: +49 (0) 2741/283-797
Fax: +49 (0) 2741/283-798
E-Mail: mvandoorn@schaefer-it-systems.de

Ramona Breunig
IT Rack Solutions
Factory and office equipment
Phone: +49 (0) 2741/283-870
Fax: +49 (0) 2741/283-798
E-Mail: rbreunig@schaefer-it-systems.de

Andreas Herr
Projectmanager IT
Phone: +49 (0) 2741/283-804
Fax: +49 (0) 2741/283-798
Mobile: +49 (0) 170/5622316
E-Mail: aherr@schaefer-it-systems.de

Jürgen Schmidt
Projectmanager IT
Phone: +49 (0) 2741/283-776
Fax: +49 (0) 2741/283-798
E-Mail: jschmidt@schaefer-it-systems.de

Dirk Doormann
Productmanager IT Rack Solutions
Phone: +49 (0) 2741/283-272
Fax: +49 (0) 2741/283-798
Mobile: +49 (0) 160/90896019
E-Mail: ddoormann@schaefer-it-systems.de

Tilo Püschel
Projectengineer Data Centre Solutions
SCHÄFER Ausstattungs-Systeme GmbH
Home Office:
Waldstraße 24 · D-35768 Siegbach
Phone: +49 (0) 2741/283-906
Fax: +49 (0) 2741/283-966
Mobile: +49 (0) 160/7080809
E-Mail: tpueschel@schaefer-it-systems.de

More information?

We will make your data centre
fit for the future
Clever cooling systems for cool clusters

Planning guide
Air-conditioning concepts
for computing centres

cocoon
Water-cooled
server cabinet solution
with side coolers

SCHÄFER IT Systems, innovative manufacturer of made-to-measure network and cabinet solutions for both conventional and complex applications, is part of the internationally successful company SCHÄFER WERKE.
The owner-led group of companies has its headquarter in Neunkirchen in Germany's Siegerland region. The work of all the SCHÄFER WERKE divisions – SCHÄFER IT Systems, SCHÄFER Industrial Solutions, SCHÄFER Interior Systems, SCHÄFER Container Systems, SCHÄFER Perforated Metal, EMW Steel Service Centre – is based on high-quality fine steel sheet. The processing of this material is one of the core competencies of this enterprise.
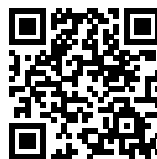
Our production plants

Plant Neunkirchen

Plant Betzdorf

Plant Ledeč nad Sázavou (CZ)

SCHÄFER
IT-SYSTEMS