

Vertiv™ Knürr® Smaract®

Compact Rack

Features

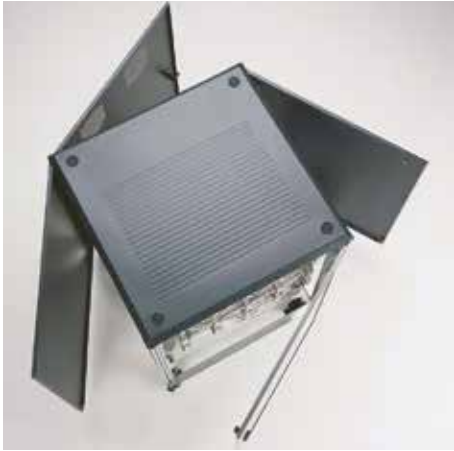
- Ample space for components and cabling provided in an efficient, compact design.
- The innovative frame concept with triangular extrusions ensures low weight while maintaining high stability.
- Modular, stackable construction.
- Easy access from all sides for installation and maintenance – hinged doors and side panels can be quickly removed.
- Secured access: The side panels can only be removed once the front or rear door has been opened.
- The patented mounting hole rails in the 19" extrusion ensure that all components can be positioned quickly and easily.
- Doors and side panels have an 180° opening angle.
- Available as server compact rack: Perforation of front and rear doors > 80%.
- Available as EMC and IP version (also IP-EMC combination).

The Vertiv™ Knürr® Smaract® Compact Rack is an innovative and practical 19" enclosure with extremely low space requirements that is highly flexible and efficient. At the same time, it facilitates integration and modular expansion, delivering a wide range of impressive detailed solutions.

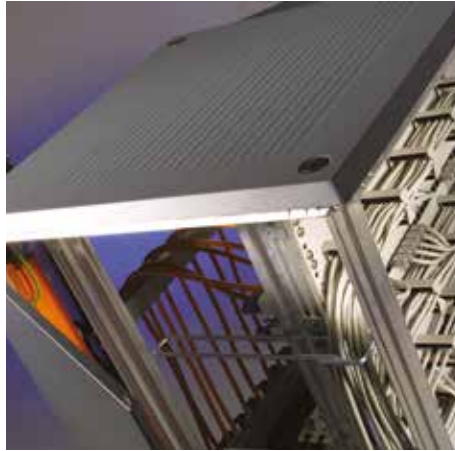
Vertiv Knürr Smaract is an ideal, compact 19" platform available in various models that meet IP and EMC requirements.



Vertiv™ Knürr® Smaract®
Main features



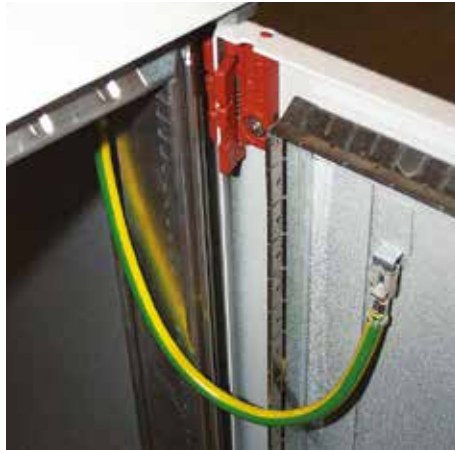
1. SMA20006



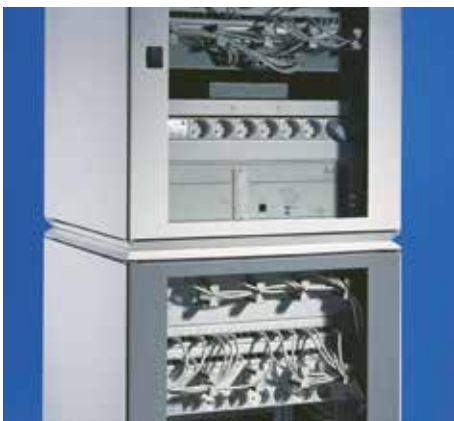
4. SMA20126



2. SMA20005



5. SMA20046



3. SMA20004



6. SMA20017

■ **Access**

Access from all sides is a time-saving factor, e. g. for integration of components and for maintenance. (1)

■ **Intelligent construction**

Innovative frame concept delivers low weight while providing high stability with new triangular extrusions. (2)

■ **Modular concept: simple expansion with stackability**

Provides adequate space on the side for cabling; cable entry on rear door. (3)

■ **Cable management**

Well prepared to have and easy and self-explanatory cabling. (4)

■ **EMC and IP version**

The compact rack can be upgraded to IP or EMC standard at all times. (Also in combined IP/EMC version). (5)

■ **Forward-thinking solutions**

Flexibility due to integration of 19" technology, 6 heights to choose from; 9 U to 24 U. (6)

Vertiv™ Knürr® Smaract® 19" Rack Compliant with IEC 297

Technical data



SMA20067

- **19" components compliant with IEC 297-3**
 - Height: 9 U to 24 U
 - 1 U = 44.45 mm.
 - Width: 482.6 mm (19").
 - Depths: 600, 800, 900 and 1000 mm.
- **Configuration**
 - Fixed, on leveling feet.
 - Mobile, on casters with snib.
- **Tests dependent on design**
 - Safety compliant with EN 50298 and EN 60950.
 - Protective conductor/grounding compliant with DIN VDE 0701-1.
 - Vibration test compliant with MIL-STD 810 E.
 - Vibration and shock test compliant with DIN EN 300019-2-2.
 - IP test compliant with DIN EN 60529.
 - EMC shielding attenuation compliant with IEEE-STD-299 and VG 95 373 part 15 (30 MHz - 1 GHz).
 - Plastic components as per UL94 V-0.
- **Versions**
 - IP 20.
 - IP 54.
 - EMC.
- **Available space**
 - 82% of the basic surface can be used as space for installation and cable routing.

Applications



SMA20166



SMA20109



SMA20122



SMA20181



SMA20009

Vertiv™ Knürr® Smaract® 19" Compact Rack with Glass Door



SMA20024

- For components compliant with IEC 297-3.
- Access from all sides with removable covers.
- Flexible assembly of the components using mounting holes.
- Cable entry via rear panel (optional via top cover/bottom cover).
- Heat loss discharge via own convection or with fan unit on the rear panel (accessory).
- Door opening angle, 180°.
- Front door with safety glass, lockable.

■ Jumping space

- Front 110 mm.

■ Load rating

- 2000 N static.

■ Protection rating

- IP 20.

■ Material / Finish

- Basic rack, extruded aluminum, polished.
- Corner connector, die-cast, polished.
- Covers, sheet steel, powder-coated texture.
- Glass infill front door, single safety glass panel.

■ Color

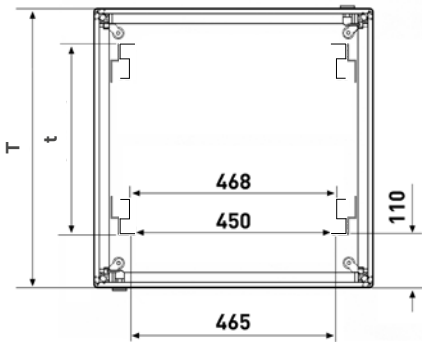
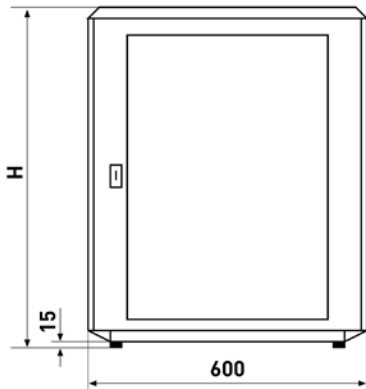
- Final digit of order number .1: RAL 7035, light-grey.
- Final digit of order number .8: RAL 7021 dark-grey.

■ Scope of delivery

- 1 x basic rack.
- 2 x side panels, closed; hinged on both sides.
- 1 x top cover, closed.
- 1 x glass front door, lockable.
- 1 x rear door with cable entry, lockable, prepared for ventilation unit.
- 4 x 19" sheet steel vertical extrusions.
- 1 x grounding set.
- 2 x keys.
- 4 x leveling feet.

■ How supplied

- Assembled.



SMA20026

W	H	D	U	d	kg	Model	Order No.	UP	
600	478	600	9	365	16	With 19" mount. hole extru.	02.110.057.1	1 unit	P
600	478	600	9	365	16	With 19" mount. hole extru.	02.110.057.8	1 unit	
600	612	600	12	365	20	With 19" mount. hole extru.	02.110.062.1	1 unit	P
600	612	600	12	365	20	With 19" mount. hole extru.	02.110.062.8	1 unit	
600	745	600	15	365	24	With 19" mount. hole extru.	02.110.067.1	1 unit	P
600	745	600	15	365	24	With 19" mount. hole extru.	02.110.067.8	1 unit	
600	879	600	18	365	28	With 19" mount. hole extru.	02.110.072.x	1 unit	
600	1012	600	21	365	32	With 19" mount. hole extru.	02.110.077.x	1 unit	
600	1145	600	24	365	36	With 19" mount. hole extru.	02.110.082.1	1 unit	P
600	1145	600	24	365	36	With 19" mount. hole extru.	02.110.082.8	1 unit	
600	478	800	9	565	19	With 19" mount. hole extru.	02.110.059.1	1 unit	P
600	478	800	9	565	19	With 19" mount. hole extru.	02.110.059.8	1 unit	
600	612	800	12	565	23	With 19" mount. hole extru.	02.110.064.1	1 unit	P
600	612	800	12	565	23	With 19" mount. hole extru.	02.110.064.8	1 unit	
600	745	800	15	565	27	With 19" mount. hole extru.	02.110.069.1	1 unit	P
600	745	800	15	565	27	With 19" mount. hole extru.	02.110.069.8	1 unit	
600	879	800	18	565	31	With 19" mount. hole extru.	02.110.074.x	1 unit	
600	1012	800	21	565	35	With 19" mount. hole extru.	02.110.079.x	1 unit	
600	1145	800	24	565	39	With 19" mount. hole extru.	02.110.084.1	1 unit	P
600	1145	800	24	565	39	With 19" mount. hole extru.	02.110.084.8	1 unit	

Vertiv™ Knürr® Smaract® 19" Server Compact Rack with Perforated Door



SMA20067

- For components compliant with IEC 297-3.
- Access from all sides, removable covers.
- With special 19" server extrusions for mounting trade-standard servers.
- With perforated doors on the front and rear (hexagonal holes with large flow cross-section) for optimal airflow.
- Door opening angle, 180°.

■ Jumpering space

- Front 75 mm.

■ Flow cross-section

- 1150 cm² with 9 U.
- 1950 cm² with 15 U.
- 2700 cm² with 21 U.
- 3100 cm² with 24 U.

■ Material / Finish

- Basic rack, extruded aluminum, polished.
- Corner connector, die-cast, polished.
- Covers, sheet steel, powder-coated texture.

■ Color

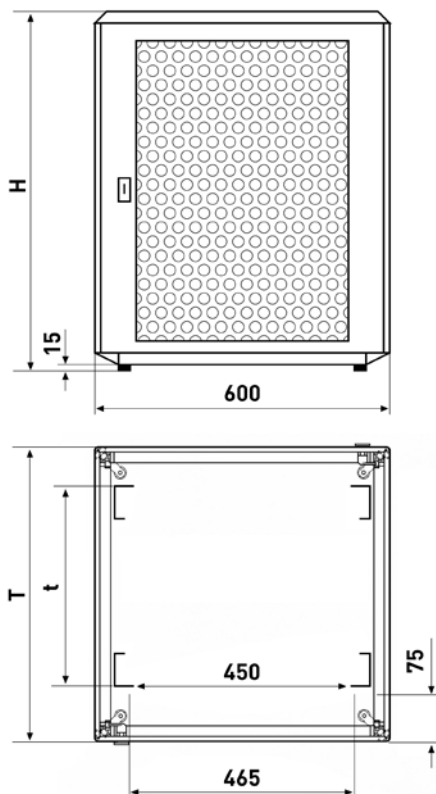
- Final digit of order number .1: RAL 7035, light-grey.
- Final digit of order number .8: RAL 7021 dark-grey.

■ Scope of delivery

- 1 x basic rack.
- 2 x side panels, closed, hinged on both sides.
- 1 x top cover, closed.
- 1 x front door with perforation, lockable.
- 1 x rear door with perforation, lockable.
- 4 x 19" server sheet-steel extrusions with mounting holes.
- 1 x grounding set.
- 2 x keys.
- 4 x leveling feet.

■ Note

Order mounting adapters for 19" server extrusion for mounting Knürr accessories. Set with 4 adapters order number 01:127:119.9.



SMA20060

W	H	D	U	d	kg	Model	Order No.	UP	
600	478	900	9	740	21	Door without frame	02.110.010.1	1 unit	
600	478	900	9	740	21	Door without frame	02.110.010.8	1 unit	
600	745	900	15	740	29	Door with frame	02.110.020.1	1 unit	
600	745	900	15	740	29	Door with frame	02.110.020.8	1 unit	
600	1012	900	21	740	37	Door with frame	02.110.030.1	1 unit	
600	1012	900	21	740	37	Door with frame	02.110.030.8	1 unit	
600	1145	900	24	740	41	Door with frame	02.110.035.1	1 unit	
600	1145	900	24	740	41	Door with frame	02.110.035.8	1 unit	
600	1145	1000	24	740	43	Door with frame	02.110.040.1	1 unit	
600	1145	1000	24	740	43	Door with frame	02.110.040.8	1 unit	

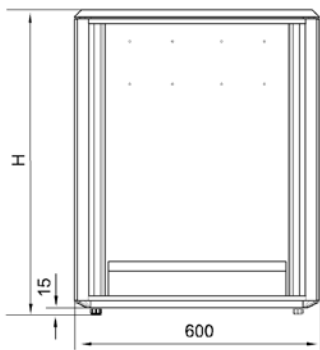
= assemble to order (shipped within 5 working days).
Caution: In case of larger orders, delivery times may increase.

Dimensions in mm:				Conversion:	
W = Width	h = Installation height	U = Standard rack unit	kg = Weight	1 mm = 0.03937 inch	
H = Height	d = Insertion depth	(1 U = 44.45 mm)		1 kg = 2.2046 pounds	
D = Depth	L = Length	UP = Packaging unit			

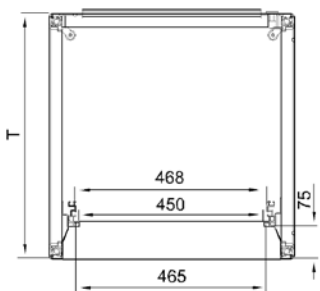
Vertiv™ Knürr® Smaract® 19" Compact Rack
Enclosure without door



SMA20025



SMA20027



SMA20042

- For components in acc. with IEC 297-3.
- Removable covers.

Load rating

- 2000 N static.

Material/Finish

- Basic rack, extruded aluminum, polished.
- Corner connector, die-cast, polished.
- Covers, sheet steel, powder-coated texture.

Color

- RAL 7035 light-grey.

Supply schedule

- 1 x basic rack.
- 2 x side panels, closed, hinged on both sides.
- 1 x top cover, closed.
- 1 x trim frame, front.
- 1 x rear door with cable entry, lockable, prepared for ventilation unit.
- 2 x 19" aluminum vertical extrusions, front, with T-slot.
- 1 x earthing set.
- 1 x key.
- 4 x leveling feet.

How supplied

- Assembled.

Note

If required, please also order 19" extrusions for rear 19" level.

W	H	D	U	kg	Order no.	UP
600	478	600	9	16	02.110.107.1	1 unit P
600	745	600	15	22	02.110.117.1	1 unit P
600	1012	600	21	28	02.110.127.1	1 unit
600	478	800	9	19	02.110.109.1	1 unit P
600	745	800	15	25	02.110.119.1	1 unit P
600	1012	800	21	31	02.110.129.1	1 unit

P = assemble to order (shipped within 5 working days).
Caution: In case of larger orders, delivery times may increase.

Dimensions in mm:				Conversion:	
W = Width	h = Installation height	U = Standard rack unit	kg = Weight	1 mm = 0.03937 inch	
H = Height	d = Insertion depth	(1 U = 44.45 mm)		1 kg = 2.2046 pounds	
D = Depth	L = Length	UP = Packaging unit			



SMA20194

Vertiv™ Knürr® Smaract® Glass Door with Swing Handle

- Can be used as front and rear door.
- With swing handle for mounting a profile half-cylinder lock.

Material

- Covers, sheet steel, powder-coated texture.
- Glass infill, single safety glass panel.

Finish

- Powder-coated texture, RAL 7035 light-grey.

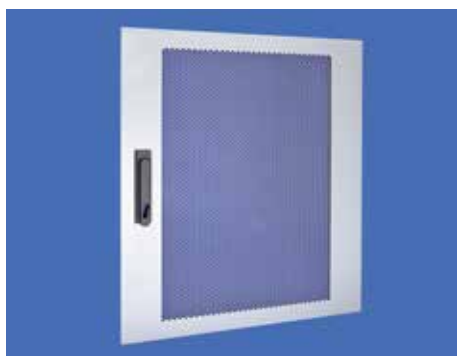
Scope of delivery

- 1 x glass door with swing handle.
- 1 x Mounting kit.

How supplied

- In sets.

W	H	U	Model	Order No.	UP
600	478	9	Glass door	02.111.086.1	1 unit
600	612	12	Glass door	02.111.087.1	1 unit
600	745	15	Glass door	02.111.088.1	1 unit
600	879	18	Glass door	02.111.089.1	1 unit
600	1012	21	Glass door	02.111.090.1	1 unit
600	1143	24	Glass door	02.111.091.1	1 unit



SMA20193

Vertiv Knürr Smaract Door, perforated with Swing Handle

- Can be used as front and rear door.
- With swing handle for mounting a profile half-cylinder lock.
- Hexagonal holes with large flow cross-section.

Material

- Covers, sheet steel, powder-coated texture.

Finish

- Final digit of order number 1: powder-coated texture, RAL 7035, light-grey.
- Final digit of order number .8: powder-coated texture, RAL 7021 dark-grey.

Scope of delivery

- 1 x perforated door with swing handle.
- 1 x Mounting kit.

How supplied

- In sets.

W	H	U	Model	Order No.	UP
600	478	9	Perforated door	02.111.096.x	1 unit
600	612	12	Perforated door	02.111.097.x	1 unit
600	745	15	Perforated door	02.111.098.x	1 unit
600	879	18	Perforated door	02.111.099.x	1 unit
600	1012	21	Perforated door	02.111.100.x	1 unit
600	1143	24	Perforated door	02.111.101.x	1 unit



MIR20460

Door locking set

Scope of delivery

- 1 lock set.
- 2 keys (half-cylinder).

Model	Order No.	UP
MIR2 / DCM / Smaract Doors, with swing handle	01.130.940.9	1 set



SMA20031

**Vertiv™ Knürr® Smaract®
Door Closed**

- Can be used as front and rear door.

■ **Material / Finish**

- Sheet steel, powder-coated texture.

■ **Standard inclusion**

- 1 x rear door, closed.
- 1 x key.
- 1 x Mounting kit.

■ **Delivery**

- In sets.

■ **Color**

- RAL 7035, light-grey.

W	H	D	U	d	kg	Model	Order No.	UP
			9				02.111.076.1	1 unit
			12				02.111.077.1	1 unit
			15				02.111.078.1	1 unit
			18				02.111.079.1	1 unit
			21				02.111.080.1	1 unit
			24				02.111.081.1	1 unit



SMA20195

**Vertiv™ Knürr® Smaract®
Ventilation Unit**

- Easily added onto a rear panel.
- With two axial fans.
- With thermostat.
- Available in two different performance classes.

■ **Technical data for single fan**

- Type 1:
max. volume flow (free blowing): 162 m³/h.
Noise emission (free blowing): 37 dB(A).
- Type 2 (quiet):
max. volume flow (free blowing): 120 m³/h.
Noise emission (free blowing): 32 dB(A).

■ **Technical data for thermostat**

- Setting range: 0 to 60 °C.
- Mains supply: 240 V / 50 Hz.
- Nominal current: 16 A.

■ **Material / Finish**

- Zinc-passivated sheet steel.

■ **Scope of delivery**

- 1 x fan unit wired ready for connection, with thermostat.
- 1 x Mounting kit.

■ **How supplied**

- Pre-assembled.



SMA20180

Model	Order No.	UP
Type 1	02.111.180.9	1 unit
Type 2 (quiet)	02.111.181.9	1 unit

= assemble to order (shipped within 5 working days).
Caution: In case of larger orders, delivery times may increase.

Dimensions in mm:				Conversion:
W = Width	h = Installation height	U = Standard rack unit	kg = Weight	1 mm = 0.03937 inch
H = Height	d = Insertion depth	(1 U = 44.45 mm)		1 kg = 2.2046 pounds
D = Depth	L = Length	UP = Packaging unit		



SMA20103

Vertiv Knürr Smaract 19" Aluminum Extrusion with T-slot

- For front and rear installation.

Material / Finish

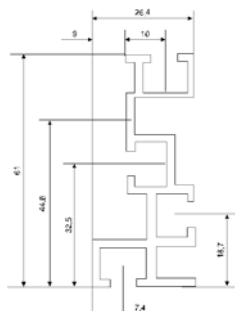
- 19" extrusions: extruded aluminum polished.
- Mounting bracket: Sheet steel, zinc-passivated.

Scope of delivery

- 2 x 19" extrusions with T-slot incl. increment slides.
- 4 x mounting brackets.
- 1 x Mounting kit.

How supplied

- In sets.



SMA20105

U	Order No.	UP
9	02.111.146.9	1 unit
12	02.111.147.9	1 unit
15	02.111.148.9	1 unit
18	02.111.149.9	1 unit
21	02.111.150.9	1 unit
24	02.111.151.9	1 unit



SMA20104

Vertiv Knürr Smaract 19" Steel Extrusion with Mounting Holes

- For front and rear installation.

Material / Finish

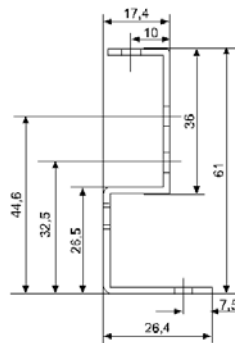
- 19" extrusions: sheet steel, zinc-passivated.
- Mounting bracket: sheet steel, 1.5 mm, zinc-passivated.

Scope of delivery

- 2 x 19" extrusions with mounting holes.
- 4 x mounting brackets.
- 1 x Mounting kit.

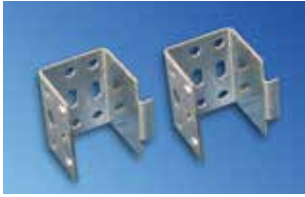
How supplied

- In sets.



SMA20106

U	Order No.	UP
9	02.111.156.9	1 unit
12	02.111.157.9	1 unit
15	02.111.158.9	1 unit
18	02.111.159.9	1 unit
21	02.111.160.9	1 unit
24	02.111.161.9	1 unit



MIR20044

Mounting Adapters for 19" Server Extrusion

- For mounting standard Vertiv Knürr components (storage shelves, drawers, chassis rails, keyboard tray, etc.) in 19" installation space.

- **Material**
 - Zinc-passivated sheet steel.

- **Scope of delivery**
 - 4 x adapters.



MIR20082

U	Order No.	UP
1	01.127.119.9	1 unit



SMA20172

Vertiv™ Knürr® Smaract® Depth Brace

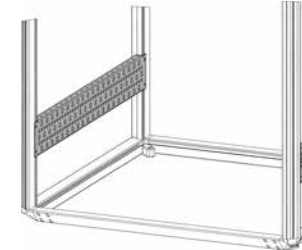
- For additional strengthening of the enclosure.
- For routing cables with cable ties and as universal mounting option.
- With holes for mounting cage nuts.
- Variable positioning with T-slot.
- Installation on the frame extrusions.

- **Material / Finish**
 - Sheet steel, zinc-passivated 1.5 mm.

- **Scope of delivery**
 - 1 x depth brace.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.

- **Note**
 - Not compatible with 19" server extrusions.



SMA20173

D	Order No.	UP
600	02.111.002.0	1 unit
800	02.111.004.0	1 unit
900	02.111.005.0	1 unit



SMA20028

Vertiv Knürr Smaract Top Cover/Bottom Cover closed

- **Material / Finish**
 - Sheet steel, powder-coated texture.

- **Color**
 - Final digit of order number .1: RAL 7035, light-grey.
 - Final digit of order number .8: RAL 7021 dark-grey.

- **Scope of delivery**
 - 1 x bottom cover, closed.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.

W	D	Order No.	UP
600	600	02.111.052.1	1 unit
600	800	02.111.054.1	1 unit
600	900	02.111.055.1	1 unit
600	900	02.111.055.8	1 unit
600	1000	02.111.056.1	1 unit
600	1000	02.111.056.8	1 unit



SMA20168

Vertiv Knürr Smaract

Top/Bottom Cover with Cable Entry

- With integrated cable clamping.
- With brush strip for cable entry.

Material / Finish

- Sheet steel, powder-coated texture.

Color

- Final digit of order number .1: RAL 7035, light-grey.
- Final digit of order number .8: RAL 7021 dark-grey.

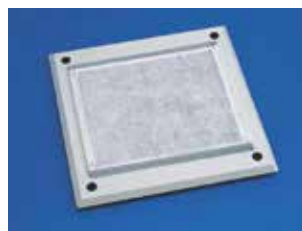
Scope of delivery

- 1 x bottom cover with cable routing.
- 1 x brush strip.
- 1 x Mounting kit.

How supplied

- In sets.

W	D	Order No.	UP	
600	600	02.111.042.1	1 unit	P
600	800	02.111.044.1	1 unit	P
600	900	02.111.045.1	1 unit	P
600	900	02.111.045.8	1 unit	
600	1000	02.111.046.1	1 unit	P
600	1000	02.111.046.8	1 unit	



SMA20029

Vertiv Knürr Smaract

Bottom Cover, perforated with Filter Mat

- For cooling with air convection.

Material / Finish

- Bottom cover: sheet steel, powder-coated texture.
- Filter mat: Filedon

Color

- RAL 7035, light-grey.

Scope of delivery

- 1 x perforated bottom cover with filter mat.
- 1 x Mounting kit.

How supplied

- In sets.

W	D	Order No.	UP
600	600	02.111.062.1	1 unit
600	800	02.111.064.1	1 unit

P = assemble to order (shipped within 5 working days).
Caution: In case of larger orders, delivery times may increase.

Dimensions in mm:				Conversion:
W = Width	h = Installation height	U = Standard rack unit	kg = Weight	1 mm = 0.03937 inch
H = Height	d = Insertion depth	(1 U = 44.45 mm)		1 kg = 2.2046 pounds
D = Depth	L = Length	UP = Packaging unit		



SMA20058

Vertiv™ Knürr® Smaract®

Replacement Filter Mat for perforated Bottom Cover

- Used with perforated bottom cover.

■ **Material / Finish**

- Fildon.

■ **Scope of delivery**

- 5 x replacement filter mats.

■ **How supplied**

- In sets.

Model	Order No.	UP
for D600	02.111.068.9	5 units
For D800	02.111.069.9	5 units



SMA20177

Vertiv Knürr Smaract Plinth

- Stationary.
- Cable entry possible from all sides.
- Panels front and rear with vent slots and installation option for filter mat.

■ **Material / Finish**

- Sheet steel, powder-coated texture.

■ **Color**

- Final digit of order number .1: RAL 7035, light-grey.
- Final digit of order number .8: RAL 7021 dark-grey.

■ **Scope of delivery**

- 4 x plinth corners.
- 2 x cover plates, closed.
- 2 x cover plates with vent slots.
- 1 x Mounting kit.

■ **How supplied**

- In sets.

■ **Note**

- Can also be mounted in combination with cabinet base.

W	H	D	Order No.	UP
600	100	600	02.111.201.1	1 set P
600	100	800	02.111.203.1	1 set P
600	100	900	02.111.204.1	1 set P
600	100	900	02.111.204.8	1 set



SMA20098

Vertiv Knürr Smaract Plinth Cover Plate with Cable Entry

- Used with plinth.

■ **Material / Finish**

- Sheet steel, powder-coated texture.

■ **Scope of delivery**

- 1 x cover panel with cable entry.
- 1 x brush strip.
- 1 x Mounting kit.

■ **Color**

- Final digit of order number .1: RAL 7035, light-grey.
- Final digit of order number .8: RAL 7021 dark-grey.

■ **How supplied**

- In sets.

W	H	Order No.	UP
600	100	02.111.206.1	1 unit P
600	100	02.111.206.8	1 unit



SMA20034

Vertiv Knürr Smaract Twin Caster

- Height 50 mm.

■ **Color**

- RAL 9011, graphite black.

■ **Load rating**

- 400 N per caster.
- 1200 N max. static total load per rack.

■ **Scope of delivery**

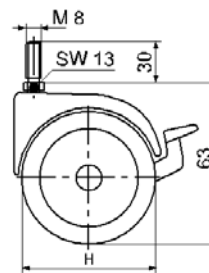
- 2 x twin casters.
- 2 x fixed casters.

■ **Standards**

- Casters compliant with DIN 12530.
- Load compliant with DIN 12527.

■ **How supplied**

- In sets.



DOP00233

Order No.	UP
02.111.175.9	4 units P

P - assemble to order (shipped within 5 working days).
Caution: In case of larger orders, delivery times may increase.

Dimensions in mm:				Conversion:	
W = Width	h = Installation height	U = Standard rack unit	kg = Weight	1 mm = 0.03937 inch	
H = Height	d = Insertion depth	(1 U = 44.45 mm)		1 kg = 2.2046 pounds	
D = Depth	L = Length	UP = Packaging unit			



SMA20035

Vertiv™ Knürr® Smaract® Stacking Set

- Fixed connection for stacking compact racks.
- **Material / Finish**
 - Steel, cold rolled, zinc-passivated.
- **Scope of delivery**
 - 4 x stacking elements.
 - 1 x Mounting kit.
- **How supplied**
 - In sets.

Order No.	UP
02.111.171.9	4 unit

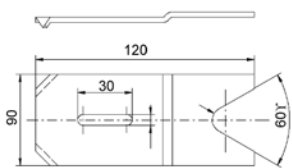


MEC00074

Vertiv™ Knürr® Smaract® Eyebolt Set

- Mounted/fix on crane hooks.
- Load rating, 1900 N static per ring screw.
- **Material / Finish**
 - Tool steel, forged.
- **Scope of delivery**
 - 4 x crane eyebolts.
- **How supplied**
 - In sets.

Order No.	UP
01.243.440.9	4 units



MIR00319

Floor Fixing Kit

- **Material / Finish**
 - Sheet steel, 3.0 mm.
- **Finish**
 - Galvanized.
- **Scope of delivery**
 - 4 x fixing brackets

Order No.	UP
01.130.934.7	1 unit



SMA20094

Vertiv Knürr Smaract Wall Mounting Bracket

- **Material / Finish**
 - Sheet steel, powder-coated texture.
- **Color**
 - RAL 7035, light-grey.
- **Scope of delivery**
 - 2 x wall mounting brackets.
 - 1 x Drill hole template.
 - 1 x Mounting kit.
- **Load rating**
 - 500 N.
- **How supplied**
 - In sets.



SMA20085

W	Order No.	UP
600	02.111.220.9	1 set



ELM00068

Grounding Bar

- For safe grounding or potential equalization of equipments and components.
- **Material**
 - Electrolyte copper 9 x 9.
- **Scope of delivery**
 - 1 x grounding bar.
 - 2 x brackets.
 - 1 x Mounting kit.

U	Order No.	UP
12	01.110.703.9	1 unit P
15	01.240.543.9	1 unit
18	01.240.544.9	1 unit
21	01.240.545.9	1 unit
24	01.240.546.9	1 unit



DOP20016

Contact Clamp

- Enables safe connection of equipment and components to grounding bar.
- For cables up to 25 mm².
- **Scope of delivery**
 - 20 x contact clamps.

Order No.	UP
01.110.715.9	20 units P



SMA20065

Vertiv™ Knürr® Smaract® 19" Compact Rack EMC with sheet steel door

- For components compliant with IEC 297-3.
- Removable covers.

Load rating

- 2000 N static.

Material

- Basic frame: extruded aluminum.
- Panels: sheet steel.
- EMC spring: high-grade steel.

Finish

- Basic frame: polished.
- Panels: powder-coated texture.

Color

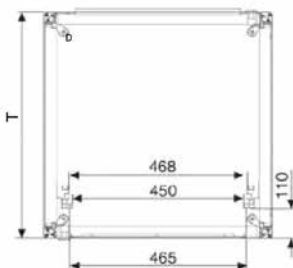
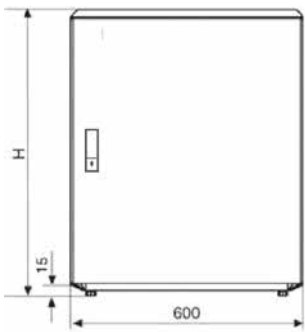
- RAL 7035, light-grey.

Scope of delivery

- 1 x basic rack.
- 2 x side panels, EMC, closed, hinged on both sides.
- 1 x top cover, EMC, closed.
- 1 x bottom cover, EMC, closed.
- 1 x front door, EMC, closed, lockable.
- 1 x rear panel, EMC, closed, screwed.
- 2 x 19" front aluminum vertical extrusions with T-slot incl. increment slide.
- 1 x grounding set.
- 1 x key.
- 4 x leveling feet.

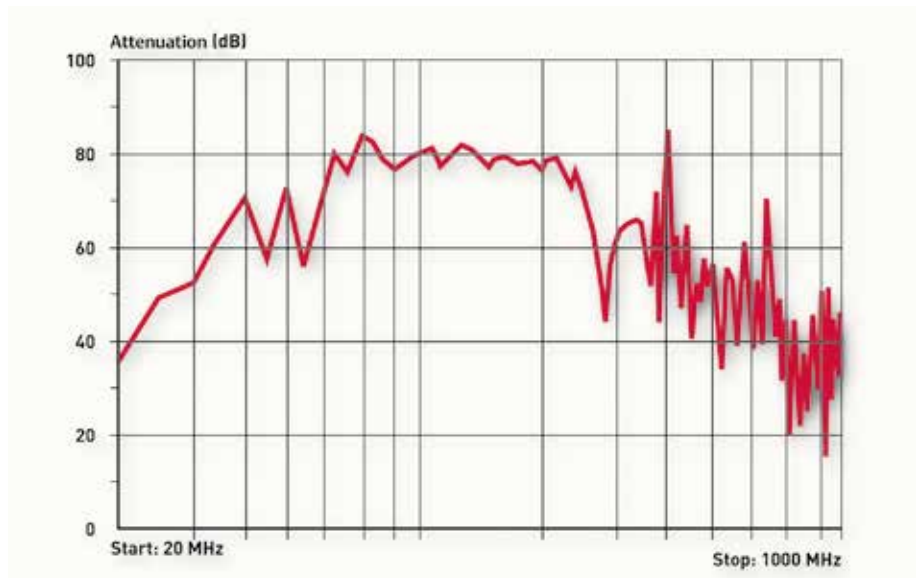
How supplied

- Assembled.



SMA20059

W	H	D	U	kg	Order No.	UP
600	612	600	12	28	02.110.312.1	1 unit
600	879	600	18	36	02.110.322.1	1 unit
600	1146	600	24	44	02.110.332.1	1 unit
600	612	800	12	32	02.110.314.1	1 unit
600	879	800	18	40	02.110.324.1	1 unit
600	1146	800	24	48	02.110.334.1	1 unit



- EMC measurements performed by pkm Electronic GmbH, Frontenhausen.
- Tests were carried out in compliance with the following standard: VG 95373 Part 15.
- Tested rack: width 600, depth 600, height 1150, closed version.



SMA20148

Vertiv™ Knürr® Smaract®
Connection Plate, EMC, closed

- EMC shielding.
- Screwed.

- **Material**
 - Panel: sheet steel.
 - EMC spring: high-grade steel.

- **Finish**
 - Powder-coated texture.

- **Color**
 - RAL 7035, light-grey.

- **Scope of delivery**
 - 1 x connection plate closed.
 - 2 x brackets.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.



SMA20137

W	H	U	Order No.	UP
600	131.3	3	02.111.351.1	1 set



SMA20145

Vertiv™ Knürr® Smaract®
Connection Plate, EMC, with Cable Entry

- EMC shielding.
- Screwed.

- **Material**
 - Panel: sheet steel.
 - EMC spring: high-grade steel.
 - EMC seal extrusion: with high-grade steel grid; rubber.

- **Finish**
 - Powder-coated texture.

- **Color**
 - RAL 7035, light-grey.

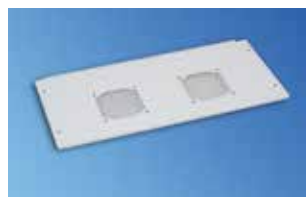
- **Scope of delivery**
 - 1 x connection plate with cable entry.
 - 2 x brackets.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.



SMA20137

W	H	U	Order No.	UP
600	131.3	3	02.111.361.1	1 set



SMA20150

Vertiv™ Knürr® Smaract®
Connection Plate, EMC, for Fan Unit

- EMC shielding.
- Screwed.

- **Material**
 - Panel: sheet steel.
 - EMC spring: high-grade steel.

- **Finish**
 - Powder-coated texture.

- **Color**
 - RAL 7035, light-grey.

- **Scope of delivery**
 - 1 x connection plate for fan unit.
 - 2 x brackets.
 - 1 x Mounting kit.

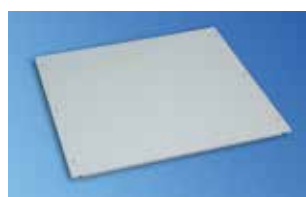
- **How supplied**
 - In sets.

- **Note**
 - Suitable fan unit: 02.111.180.9.



SMA20135

W	H	U	Order No.	UP
600	264.6	6	02.111.372.1	1 set



SMA20152

Vertiv™ Knürr® Smaract®
Rear Plate, EMC, closed

- EMC shielding.
- Screwed.

- **Material**
 - Panel: sheet steel.
 - EMC spring: high-grade steel.

- **Finish**
 - Powder-coated texture.

- **Color**
 - RAL 7035, light-grey.

- **Scope of delivery**
 - 1 x rear plate closed.
 - 2 x brackets.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.



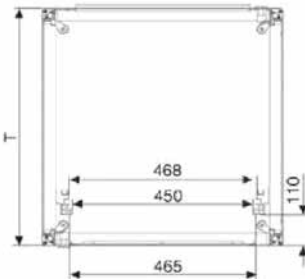
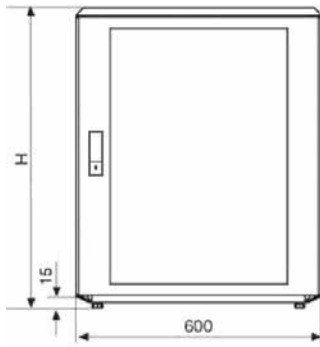
SMA20137

W	H	U	Order No.	UP
600	422.9	9	02.111.353.1	1 set
600	556.3	12	02.111.354.1	1 set
600	689.6	15	02.111.355.1	1 set

Dimensions in mm:				Conversion:	
W = Width	h = Installation height	U = Standard rack unit	kg = Weight	1 mm = 0.03937 inch	
H = Height	d = Insertion depth	(1 U = 44.45 mm)		1 kg = 2.2046 pounds	
D = Depth	L = Length	UP = Packaging unit			



SMA20062



SMA20108

Vertiv™ Knürr® Smaract® 19" Compact Rack IP 54 with glass door

- For components compliant with IEC 297-3.
- Removable covers.

■ **Load rating**

- 2000 N static.

■ **Protection rating**

- IP 54.

■ **Material**

- Basic frame: extruded aluminum.
- Panels: sheet steel.
- Foam seal: polyurethane.

■ **Finish**

- Basic frame: polished.
- Panels: powder-coated texture.

■ **Color**

- RAL 7035, light-grey.

■ **Scope of delivery**

- 1 x basic frame.
- 2 x side panels, IP 54, closed, hinged on both sides.
- 1 x top cover, IP 54, closed.
- 1 x bottom cover, IP 54, closed.
- 1 x glass front door IP 54, lockable.
- 1 x rear panel, IP 54, closed, screwed.
- 2 x 19" aluminum vertical extrusions, front, with T-slot incl. increment slide.
- 1 x grounding set.
- 1 x key.
- 4 x leveling feet.

■ **How supplied**

- Assembled.

W	H	D	U	kg	Order No.	UP
600	612	600	12	28	02.110.212.1	1 unit
600	879	600	18	36	02.110.222.1	1 unit
600	1146	600	24	44	02.110.232.1	1 unit
600	612	800	12	32	02.110.214.1	1 unit
600	879	800	18	40	02.110.224.1	1 unit
600	1146	800	24	48	02.110.234.1	1 unit



SMA20148

Vertiv™ Knürr® Smaract® Connection Plate, IP54, Closed

- Protection rating, IP 54
- Screwed.

- **Material**
 - Panel: sheet steel.
 - Foam seal: polyurethane.

- **Finish**
 - Powder-coated texture.

- **Color**
 - RAL 7035, light-grey.

- **Scope of delivery**
 - 1 x connection plate closed.
 - 2 x brackets.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.



SMA20138

Vertiv Knürr Smaract Connection Plate, IP54, for Fan Unit

- Protection rating, IP 54.
- Screwed.

- **Material**
 - Panels: sheet steel.
 - Foam seal: polyurethane.
 - Exit filter: ABS plastic, UL94 V-0.

- **Finish**
 - Powder-coated texture.

- **Color**
 - RAL 7035, light-grey.

- **Scope of delivery**
 - 1 x connection plate for fan unit.
 - 2 x brackets.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.

- **Note**
 - Suitable fan unit: 02.111.180.9.

W	H	U	Order No.	UP
600	131.3	3	02.111.301.1	1 set



SMA20139

Vertiv Knürr Smaract Connection Plate, IP54, with Cable Entry

- Possible sealing: IP 54.
- Screwed.

- **Material**
 - Panel: sheet steel.
 - Foam seal: polyurethane.
 - Seal extrusion:
 - Type 1: sponge-rubber seal.
 - Type 2: polymeric reinforced with metal.

- **Finish**
 - Powder-coated texture.

- **Color**
 - RAL 7035, light-grey.

- **Scope of delivery**
 - 1 x connection plate with cable entry.
 - 2 x brackets.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.



SMA20169



SMA20138

W	H	U	Model	Order No.	UP
600	131.3	3	Type 1	02.111.311.1	1 set
600	131.3	3	Type 2	02.111.312.1	1 set

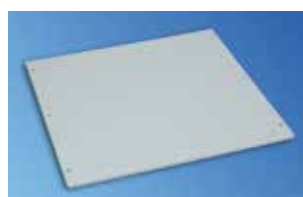


SMA20143



SMA20136

W	H	U	Order No.	UP
600	264.6	6	02.111.322.1	1 set



SMA20141

Vertiv Knürr Smaract Rear Panel, IP54, closed

- Protection rating, IP 54.
- Screwed.

- **Material**
 - Panels: sheet steel.
 - Foam seal: polyurethane.

- **Finish**
 - Powder-coated texture.

- **Color**
 - RAL 7035, light-grey.

- **Scope of delivery**
 - 1 x rear panel closed.
 - 2 x brackets.
 - 1 x Mounting kit.

- **How supplied**
 - In sets.

W	H	U	Order No.	UP
600	156.3	3	02.111.308.1	1 set
600	289.6	6	02.111.302.1	1 set
600	422.9	9	02.111.303.1	1 set
600	556.3	12	02.111.304.1	1 set
600	689.6	15	02.111.305.1	1 set
600	823	18	02.111.306.1	1 set
600	956.3	21	02.111.307.1	1 set

Dimensions in mm:				Conversion:	
W = Width	h = Installation height	U = Standard rack unit	kg = Weight	1 mm = 0.03937 inch	
H = Height	d = Insertion depth	(1 U = 44.45 mm)		1 kg = 2.2046 pounds	
D = Depth	L = Length	UP = Packaging unit			