häwa

Server- / IT-Rack

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Well conceived

Haewa Group has gained a strong profile as an innovative and competent supplier for the machinery, systems, electrical and electronic industries, well beyond European geographic borders. We develop and sell customized and economical solutions for various applications. Our decade long experience in building enclosures, as well as our close cooperation with end users guarantee optimal benefits for our customers. Our comprehensive customer connections lead from initial contacts to concept development, to production, to delivery and, finally, to detailed logistical support.

We provide value added customer service by solving problems and by acting as reliable partner during the development process. 'Made in Germany' is our yardstick for quality.

We are serving an ever expanding customer base, together with our established industry partners and a highly motivated team of over 380 employees.

	Rack systems	Singular and rows of racks in steel and stainless steel, PC racks
	IT solutions	Server and distribution rack systems, enclosures and housings
	Housings	Wall mounted housings, small size and connection boxes in steel, stainless steel, plastic and aluminum
	Fire protection	Safety through steel: functional continuity and escape route safety
	Thermal components	Heating, ventilating and cooling
	Ducts, accessories	Enclosed ducts throughout the rack
	Custom build	Machinery and special enclosures
	Tools	Mobile apparatus, factory equipment and automation

![häwa logo]
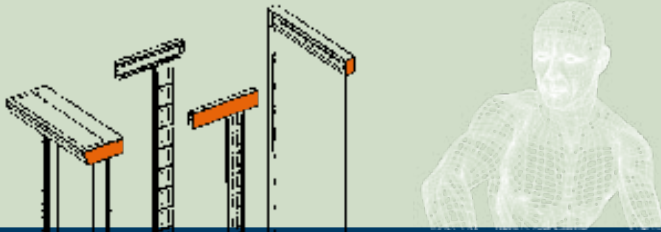
**Network distribution systems
Rapid results
Pre-assembled as needed.**

**Server RACK
Rapid results
Pre-assembled as needed**

**Today and for the future
Your modular IT RACK system**

2

Requirements for IT RACKS

Within the network distribution and computing center business there is consensus on the general requirements for IT rack systems, such as:

• Optimal ratio between spatial needs and usable height
• The need to expand or make changes during operation
• High weight carrying capacity
• Simple and quick mounting on site
• Flexible and cost effective assembly
• Auxiliary ventilation and air conditioning
• Effective grounding
• Pre-planned infrastructure for cabling and power supply
• Most significantly: orderly and efficient cable runs, which also permit easy
  troubleshooting
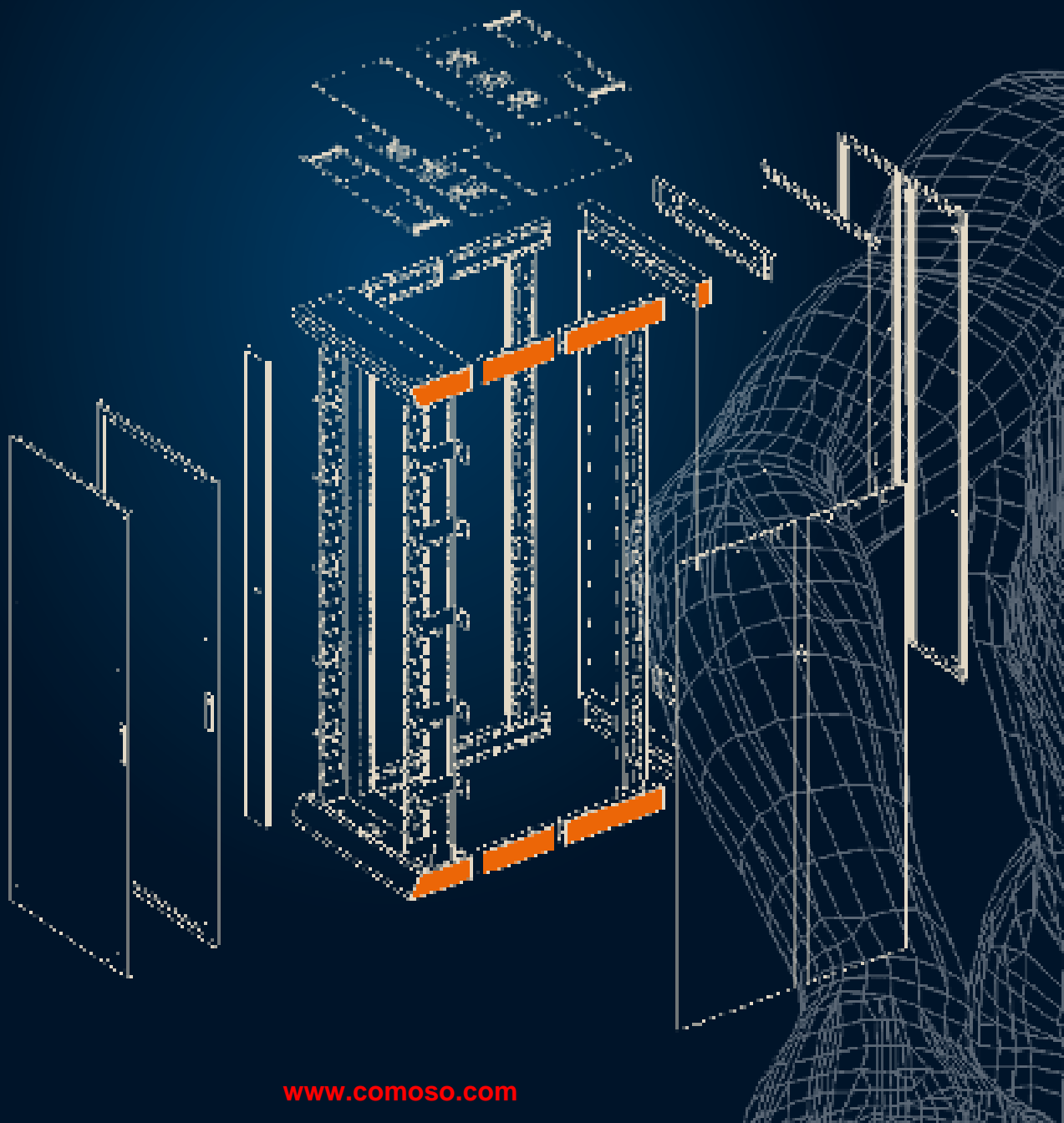
IT means growth, development and adaptation.

That is why we conceived the IT Rack like an organism:

Skeleton
- strong
- flexible
- expandable

Muscles
- Inside installation for network distribution (passive)
- Inside installation as server rack (active)
- Mixed inside installation

Circulation
- Infrastructure
- Thermal management
- Grounding concept

Skin
- Surround enclosure
- Roof and floor covers
- Door closure

The first modular system that complies with every wish.

2

height 45U

height 42U

100

0

1576 maximum depth

835

745

615

570

TP 550   TP 460   TP 330   TP 285

TPM1   TPM1   TPM1   TPM1

TPM1   TPM1   TPM1   TPM1

19"- level

0

0   125

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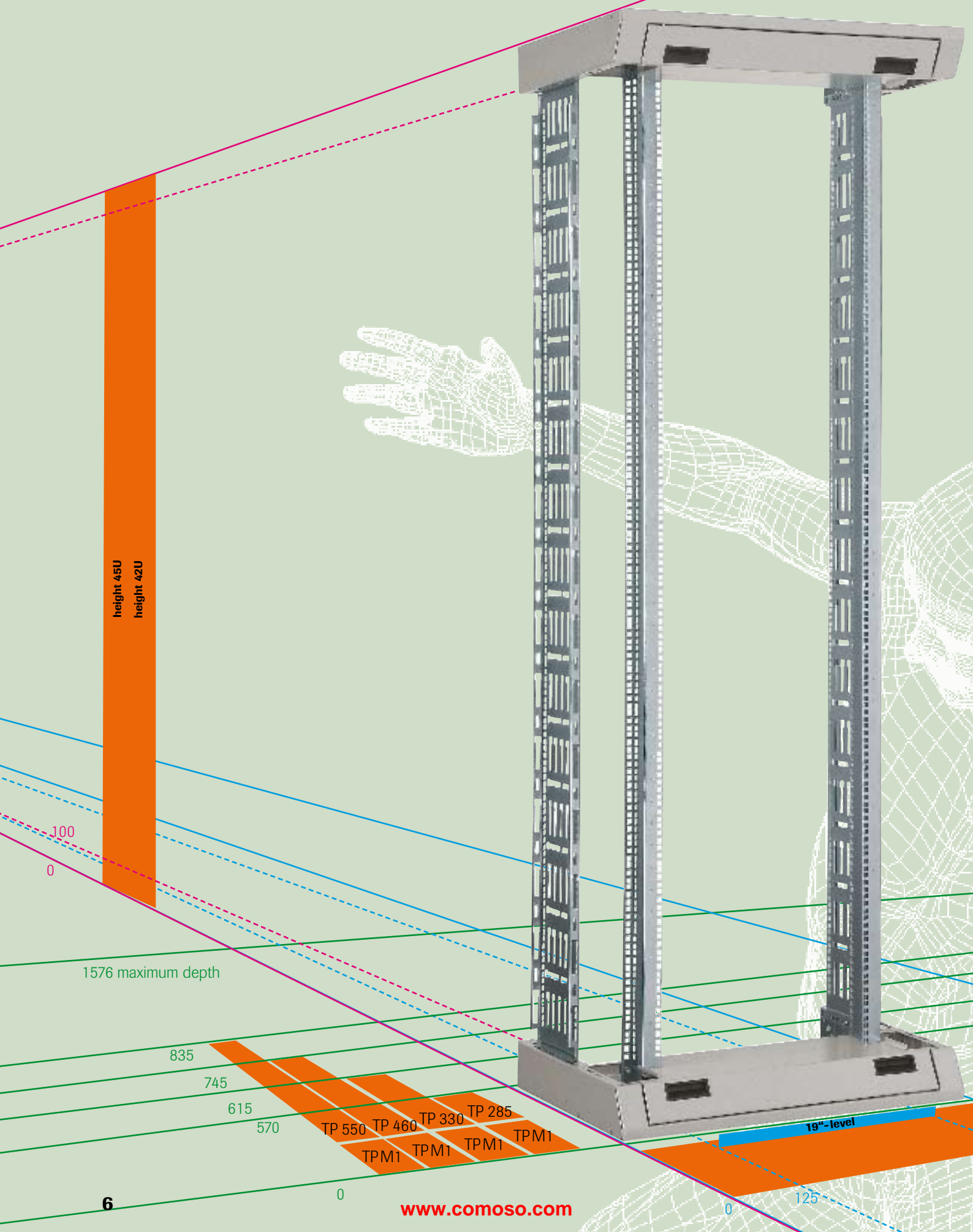
Six compelling reasons that speak for haewa's modular system:

1.

The Rack expandable with
100% modular growth,
expandable during operation

- The rack is independent of a particular installation and expandable according to needs and space requirements

- Sizing is guided by optimal 750 mm width and 19" wide components

- The rack is being offered in two heights, i.e. 42 and 45 U usable height

- Cable management and infrastructure are unimpeded outside the spatial limits of the 19" confines or zones. The design of the basic module and the depth maintains the functionality of the base riser. It offers 100 mm usable height at top and bottom.

- Four combinable Depth profiles (TP) make up the optimal depth for the rack. Module TPM1 serves as base module and represents the usable cable space along x, y and z-axes.

1500

750

625

2

8

Zone 1

Zone 2

Zone 3

Zone 4

1576 maximum depth

1320

1190

1075

970

835

745

615

570

0

4

2

5

4

3

3

1

variable depth dimension

19"–level

8
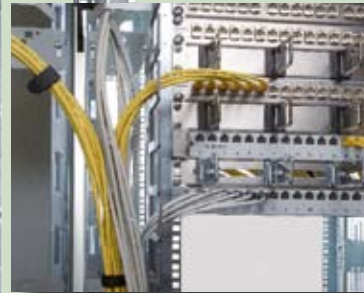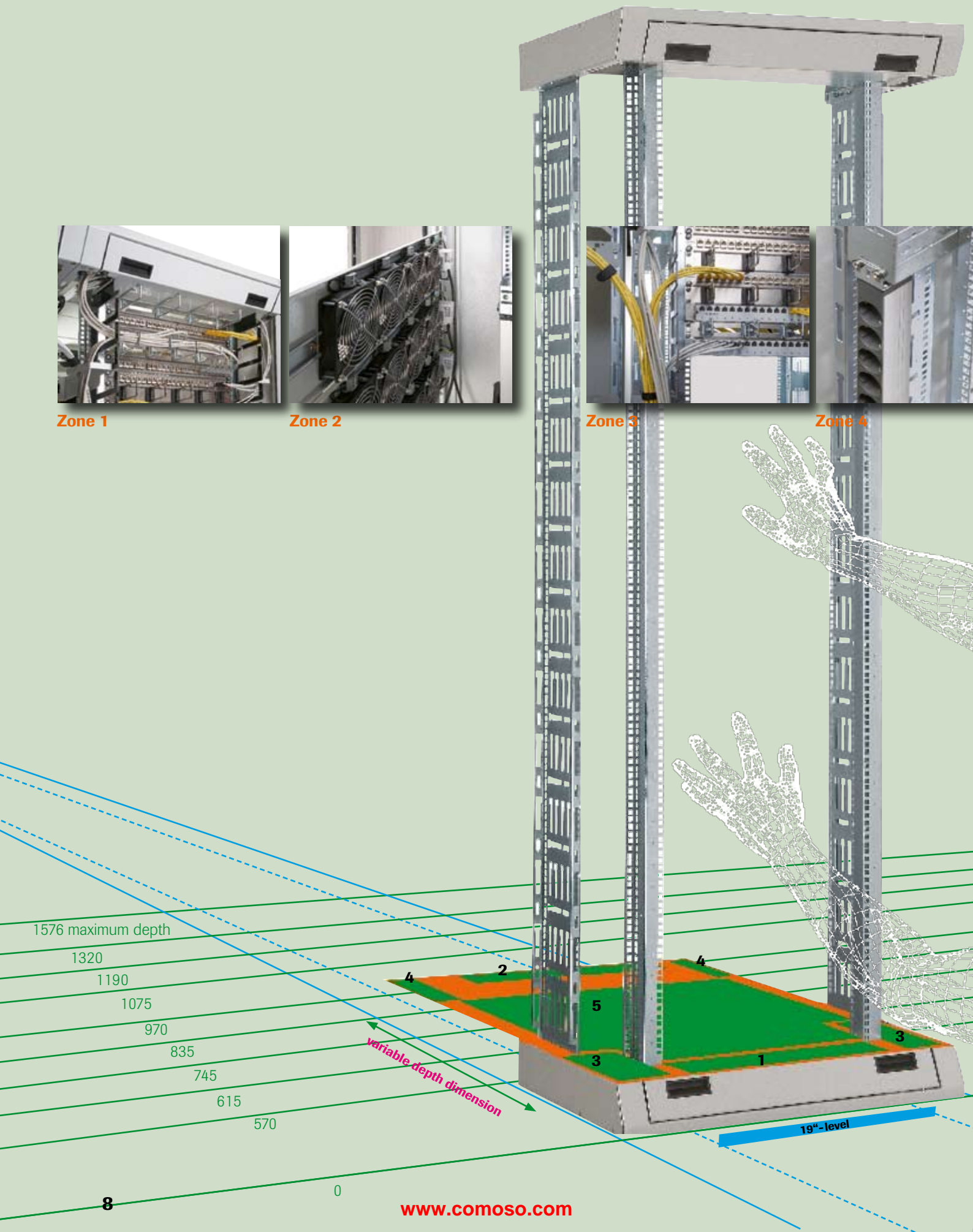
Six compelling reasons that speak for haewa's modular system:

2.

define and make space
Five zones

Zone 5

Zone 1
- Room for plenty of cable
- Depth of 128 mm for large bend radii

Zone 2
- Room for plenty of cable
- Variable depth
- Ventilated

Zone 3
- open vertical cable space, 125 mm wide, variable depth
- Cable leads to any direction

Zone 4
- Variable use
- Cable leads to any direction
- Room for power distribution and infrastructure design

Zone 5
- efficient cable management
- establish many 19" levels with variable depth
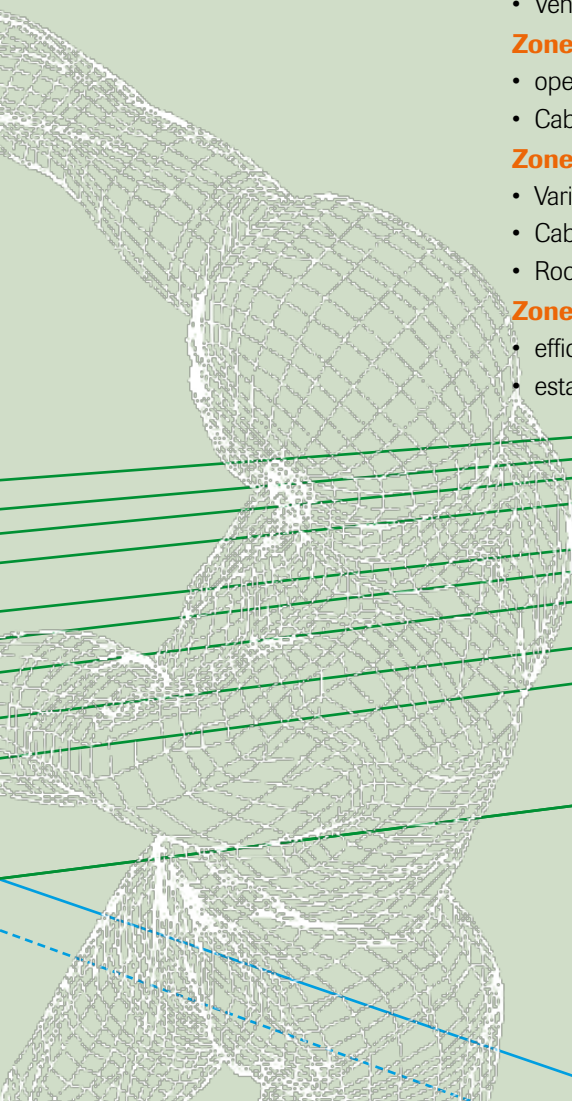
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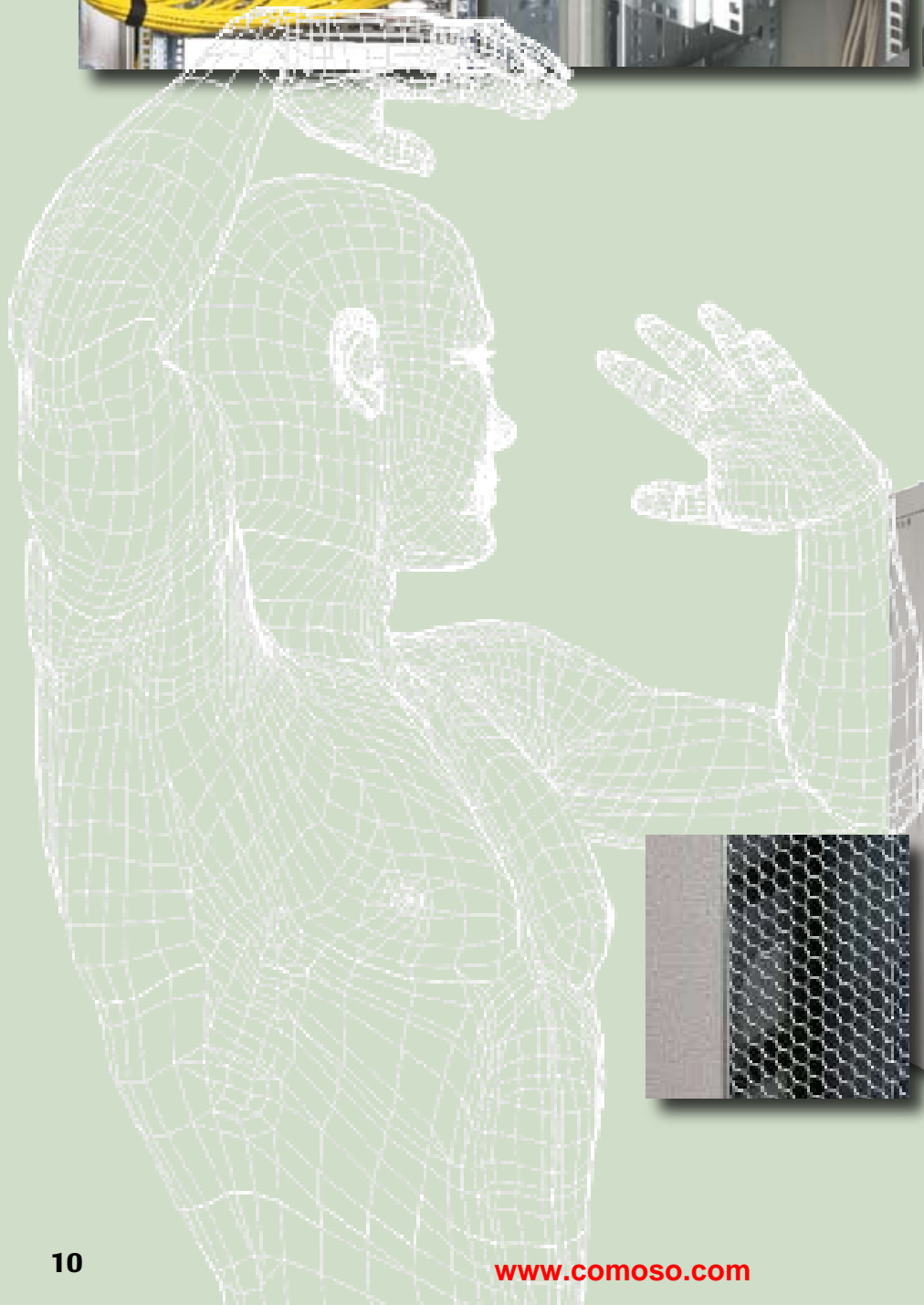
Six compelling reasons that speak for haewa's modular system:

3.

Easy outfitting of the interior
Well conceived components

- Standardized 19" level
- For active and passive modules
- Complete installation parts offering

4.

A healthy environment for the rack
Air treatment where heat emanates

- maximized air flow with 81% open honeycomb doors
- side positioned air duct permits high packaging density
- efficient heat removal via selective placement of fan chassis

2
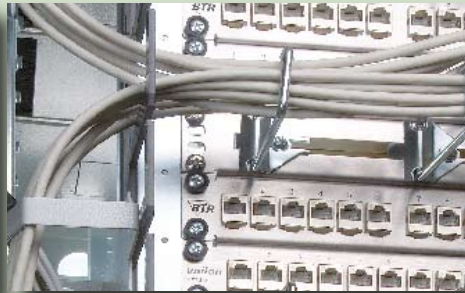
![häwa logo]

Six compelling reasons that speak for haewa's modular system:

5.

RACK safety
with complete grounding

- conductive connection between Racks is established at assembly
- all 19" pattern mountings and all movable and fixed components are integrated within the grounding scheme
- protection per DIN EN 60439-1 is affirmed

6.

RACK integrity
Highest quality workmanship
Static capacity up to 1200 kg/2640 lbs

- Cable management of up to 1000 data cables in front and back of the 19" level
- Room for adequate bend radii and cable runs in all directions
- Room for power supply and distribution
- Optimized to standardized dimensions of 600 mm spacing of below ground floor tiles

2

14
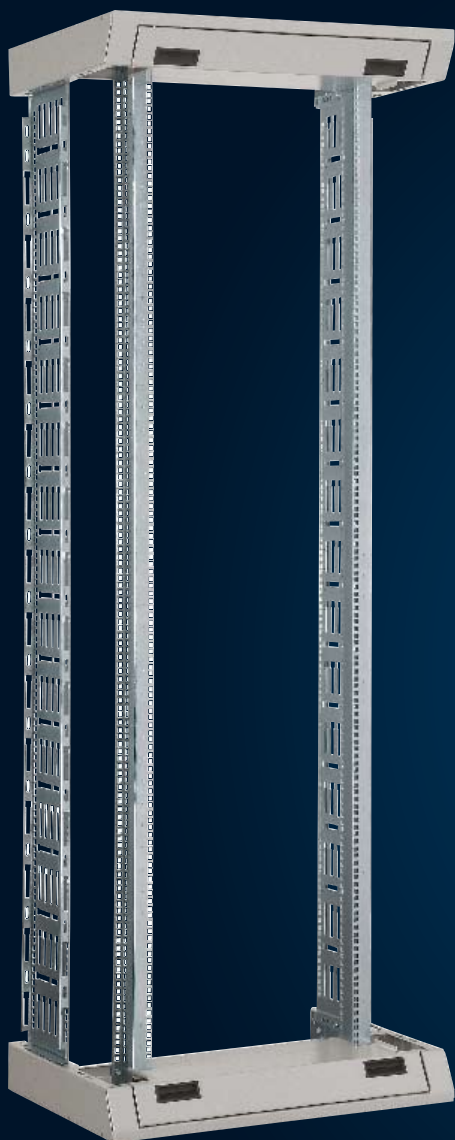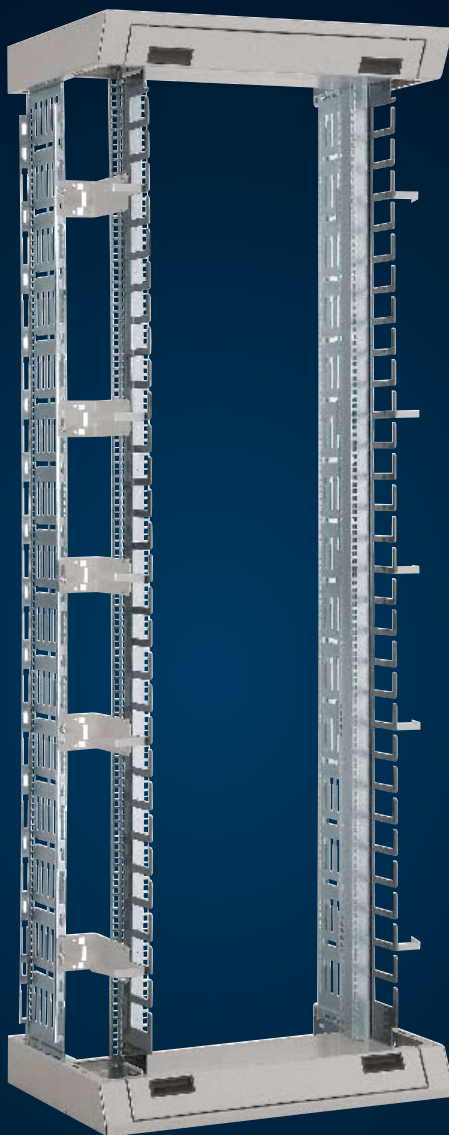
BASIS   LOGIK   PREMIUM

Haewa's answer:
Modular system Three pre–assembled starter units Optimized for network distribution

- expandable depth
- expandable as ganged RACK
- flexible outfitting
- accommodates customer's hardware
- top side cable management
- integral grounding
- on-site expansion

Quick results, with the right preparation.

BASIS
TU Skeleton

19" frontal struts
four depth struts
cable carriers

PREMIUM
TU Skeleton + Envelope

+ side walls
+ cover plates
+ doors

expandable any time with
modular components

LOGIK
TU Skeleton

+ cable ducts

expandable any time with
modular components
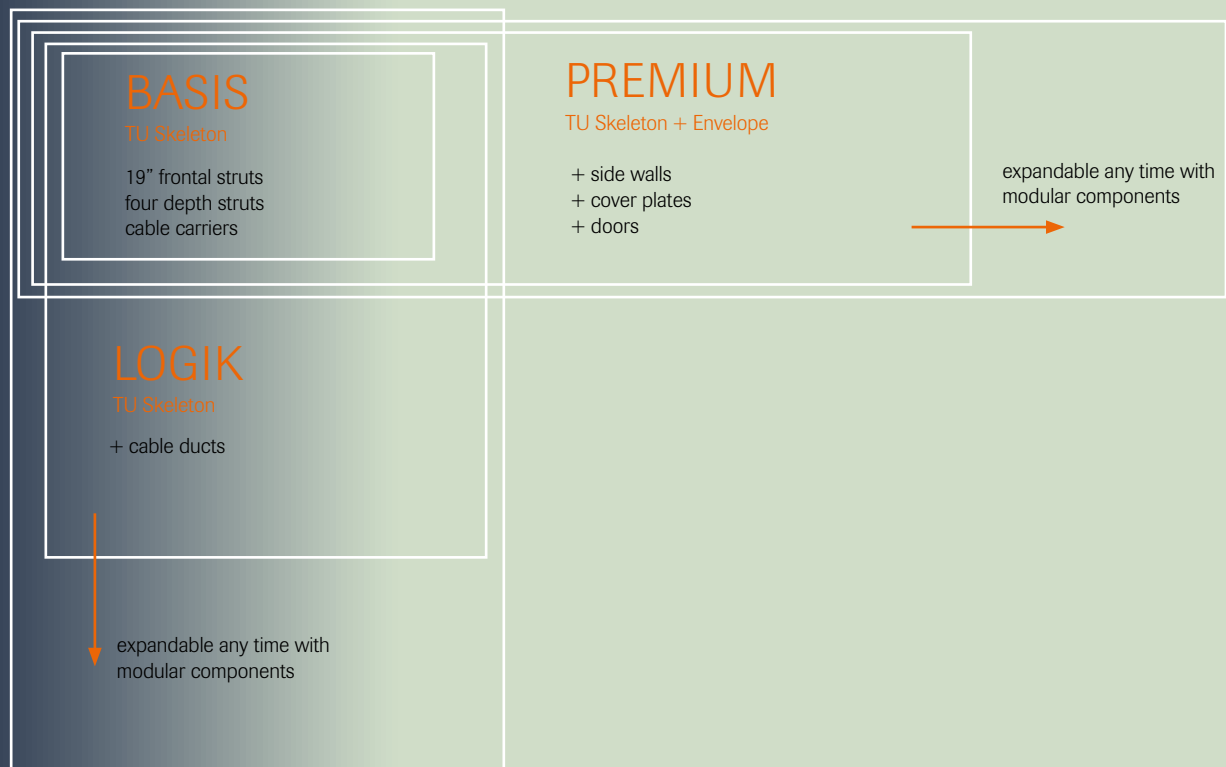
Ready for the future – with the right IT RACK

2

height 45U

height 42U

100

0

1075

745

615

570

0

BASIS 900

BASIS 570

BASIS 440

BASIS 395

19"-level

750

625

125

0

BASIS 42U

Network distribution RACK B-750,
H-2068 mm (42U)
Basic module TPM1 accessible from all sides via
removable panels.
Usable height 42U independent of future
expansion needs. All notched profiles with U
markings. High density cable runs:

672 data cables with patch fields of 24U
ports.
Grounding: all individual RACK parts, plus
19"level, conductively integrated to ground
(except adjustable top covers).
Grounding via four M8 x 20 mm screws.
Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00
RACK is pallet mounted for transport.

Description	usable depth in front and rear of first 19"level	depth	part. no.
BASIS 395, network distribution	128 / 395 mm	570 mm**	**9108-7542-75-07***
BASIS 440, network distribution	128 / 440 mm	615 mm	**9108-7542-61-07***
BASIS 570, network distribution	128 / 670 mm	745 mm	**9108-7542-72-07***
BASIS 900, network distribution	128 / 900 mm	1075 mm	**9108-7542-10-07***

BASIS 45U

Network distribution RACK B-750,
H-2200,5 mm (45U)
Basic module TPM1 accessible from all sides via
removable panels.
Usable height 45U independent of future
expansion needs. All notched profiles with U
markings. High density cable runs:

720 data cables with patch fields of 24U
ports.
Grounding: all individual RACK parts, plus
19"level, conductively integrated to ground
(except adjustable top covers).
Grounding via four M8 x 20 mm screws.
Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00
RACK is pallet mounted for transport.

Description	usable depth in front and rear of first 19"level	depth	part. no.
BASIS 395, network distribution	128 / 395 mm	570 mm**	**9108-7545-75-07**
BASIS 440, network distribution	128 / 440 mm	615 mm	**9108-7545-61-07**
BASIS 570, network distribution	128 / 570 mm	745 mm	**9108-7545-72-07**
BASIS 900, network distribution	128 / 900 mm	1075 mm	**9108-7545-10-07**

Accessories

Cable mounting kit

Description	part. no.
Matching the width of cable carrier; permits optimal use of space for cable management within zone 5.	**9118-7230-02-00**

Flat clamps

Description	part. no.
For expanding the cable arrangement of the cable mounting kit.	**9118-7230-01-00**

Foam spacer

Description	part. no.
Used as protective spacer for data cables in arrangements with cable mounting kit.	**9138-0230-00-70**

Optional with usable depth of 900 mm:
an added 240 data cables is made possible
with a second level of cable carriers.

** Depth matching floor tile pattern of 600 mm spacing
* added delivery time

height 45U

height 42U

100

0

19"-level

1075

745

615

570

0

LOGIK 900

LOGIK 570

LOGIK 440

LOGIK 395

750

625

125

0

LOGIK 42U

Network distribution RACK B-750,
H-2068 mm (42U)
Basic module TPM1 accessible from all sides via removable panels.
Usable height 42U independent of future expansion needs. All notched profiles with U markings. Efficient and simple cable guidance via plastic cable finger strips and clamps.

High density cable runs:
672 data cables with patch fields of 24U ports.
Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).
Grounding via four M8 x 20 mm screws.
Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00
RACK is pallet mounted for transport.

Description	usable depth in front and rear of first 19"level	depth	Part. no.
LOGIK 395, network distribution	128/395 mm	570 mm**	9108-7542-57-17*
LOGIK 440, network distribution	128/440 mm	615 mm	9108-7542-61-17*
LOGIK 570, network distribution	128/570 mm	745 mm	9108-7542-72-17*
LOGIK 900, network distribution	128/900 mm	1075 mm	9108-7542-10-17*

LOGIK 45U

Network distribution RACK B-750,
H-2200,5 mm (45U)
Basic module TPM1 accessible from all sides via removable panels.
Usable height 45U independent of future expansion needs. All notched profiles with U markings. Efficient and simple cable guidance via plastic cable finger strips and clamps.
High density cable runs:

720 data cables with patch fields of 24U ports.
Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).
Grounding via four M8 x 20 mm screws.
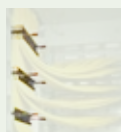Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00
RACK is pallet mounted for transport.

Description	usable depth in front and rear of first 19"level	depth	Part. no.
LOGIK 395, network distribution	128/395 mm	570 mm**	9108-7545-57-17
LOGIK 440, network distribution	128/440 mm	615 mm	9108-7545-61-17
LOGIK 570, network distribution	128/570 mm	745 mm	9108-7545-72-17
LOGIK 900, network distribution	128/900 mm	1075 mm	9108-7545-10-17

Accessories

Cable mounting kit

Description	part. no.
Matching the width of cable carrier; permits optimal use of space for cable management within zone 5.	9118-7230-02-00

Flat clamps

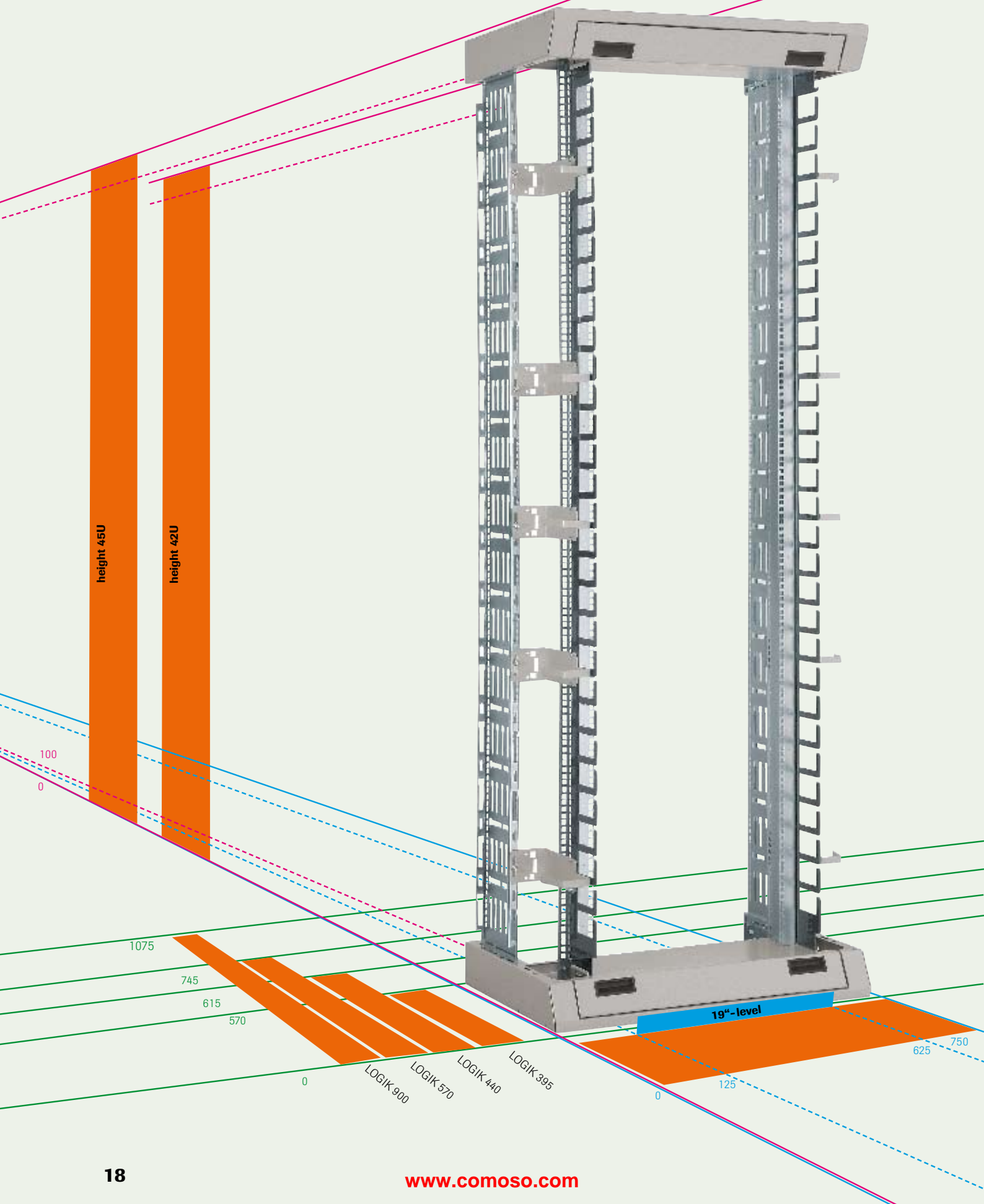| Description	part. no.
For expanding the cable arrangement of the cable mounting kit.	9118-7230-01-00

Foam spacer

Description	part. no.
Used as protective spacer for data cables in arrangements with cable mounting kit.	9138-0230-00-70

Optional with usable depth of 900 mm:
an added 240 data cables is made possible with a second level of cable carriers.

**Depth matching floor tile pattern of 600 mm spacing
* added delivery time

height 45U

height 42U

100

0

1100

770

630

595

0

PREMIUM 900

PREMIUM 570

PREMIUM 440

PREMIUM 395

19"- level

750

625

125

0

häwa

PREMIUM 42U

Network distribution RACK B-750,
H-2068 mm (42U)
Basic module TPM1 accessible from all sides via removable panels.
Usable height 42U independent of future expansion needs. All notched profiles with U markings. Efficient and simple cable guidance via plastic cable finger strips and clamps.
High density cable runs: 672 data cables with patch fields of 24U ports. Frontal large viewing door, made of 3 mm plexiglass.

Rear door closed. Doors removable.
Left and right top cover with adjustable cable finger strips. Open floor. Side walls removable and lockable. Doors and side walls mountable without tools. Top cover to be installed after routing of data cables. IP20 protection.
Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).
Grounding via four M8 x 20 mm screws.
Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00
RACK is pallet mounted for transport.

Deliverables:
RACK is pallet mounted for transport. Doors and top covers packaged for shipping, but not installed. One lock with 3 mm double lock bar

Description	usable depth in front and rear of first 19"level	depth	part. no.
PREMIUM 395, network distribution	128 / 395 mm	595 mm**	9108-7542-60-87*
PREMIUM 440, network distribution	128 / 440 mm	630 mm	9108-7542-63-87*
PREMIUM 570, network distribution	128 / 570 mm	770 mm	9108-7542-75-87*
PREMIUM 900, network distribution	128 / 900 mm	1100 mm	9108-7542-11-87*

PREMIUM 45U

Network distribution RACK B-750,
H-2200,5 mm (45U)
Basic module TPM1 accessible from all sides via removable panels.
Usable height 45U independent of future expansion needs. All notched profiles with U markings. Efficient and simple cable guidance via plastic cable finger strips and clamps.
High density cable runs: 720 data cables with patch fields of 24U ports. Frontal large viewing door, made of 3 mm plexiglass.

Rear door closed. Doors removable.
Left and right top cover with adjustable cable finger strips. Open floor. Side walls removable and lockable. Doors and side walls mountable without tools. Top cover to be installed after routing of data cables. IP20 protection.
Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).
Grounding via four M8 x 20 mm screws.
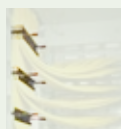Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00
RACK is pallet mounted for transport.

Deliverables:
RACK is pallet mounted for transport. Doors and top covers packaged for shipping, but not installed. One lock with 3 mm double lock bar

Description	usable depth in front and rear of first 19"level	depth	part. no.
PREMIUM 395, network distribution	128 / 395 mm	595 mm**	9108-7545-60-87
PREMIUM 440, network distribution	128 / 440 mm	630 mm	9108-7545-63-87
PREMIUM 570, network distribution	128 / 570 mm	770 mm	9108-7545-75-87
PREMIUM 900, network distribution	128 / 900 mm	1100 mm	9108-7545-11-87

Accessories

Cable mounting kit

Description	part. no.
Matching the width of cable carrier; permits optimal use of space for cable management within zone 5.	9118-7230-02-00

Flat clamps

Description	part. no.
For expanding the cable arrangement of the cable mounting kit.	9118-7230-01-00

Foam spacer

Description	part. no.
Used as protective spacer for data cables in arrangements with cable mounting kit.	9138-0230-00-70

Optional with usable depth of 900 mm:
an added 240 data cables is made possible with a second level of cable carriers.

** Depth matching floor tile pattern of 600 mm spacing
* added delivery time

2

Modular system – Network distribution RACK

BASIS 395	LOGIK 395	PREMIUM 395	BASIS 440	LOGIK 440	PREMIUM 440	BASIS 570	LOGIK 570	PREMIUM 570	BASIS 900	LOGIK 900	PREMIUM 900	Part. no.	Description
Single door 45U													
○	○	●	○	○	●	○	○	●	○	○	●	9168-7545-00-97	Single door locked, 45U, RAL 7035
○	○	●	○	○	●	○	○	●	○	○	●	9168-7545-00-87	Single viewing door, 3 mm plexiglass, 45U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-00-67	Single viewing door, 3 mm plexiglass, 45U, RAL 7035 -for 19" Viewing width
Single door 42U													
○	○	●	○	○	●	○	○	●	○	○	●	9168-7542-00-97	Single door locked, 42U, RAL 7035
○	○	●	○	○	●	○	○	●	○	○	●	9168-7542-00-87	Single viewing door, 3 mm plexiglass, 42U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-00-67	Single viewing door, 3 mm plexiglass, 42U, RAL 7035 -for 19" Viewing width
Double door 45U													
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-05-97	Double door locked, 45U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-05-87	Double viewing door, 3 mm plexiglass, 45 U, RAL 7035
Double door 42U													
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-05-97	Double door locked, 42U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-05-87	Double viewing door, 3 mm plexiglass, 42 U, RAL 7035
Locking													
○	○	○	○	○	○	○	○	○	○	○	○	3070-0904-55-01	Lever lock, narrow, for single and double IT RACK doors
○	○	○	○	○	○	○	○	○	○	○	○	3070-0933-34-00	Cam lock cylinder
Facings													
○	○	○	○	○	○	○	○	○	○	○	○	9168-1245-00-07	Facing front, 45U, RAL 7035 (one set = 2 pc)
○	○	○	○	○	○	○	○	○	○	○	○	9168-1242-00-07	Facing front, 42U, RAL 7035 (one set = 2 pc)
Rear facing													
○	○	2x	○	○	2x	○	○	2x	○	○	2x	9168-7510-02-07	Rear facing, back, RAL 7035 1 pc
Side walls 45U													
—	—	—	—	—	—	○	○	●	—	—	—	9128-7045-68-67	Side walls T-680 mm, 45U, RAL 7035 (one set= 2 pc)
—	—	—	○	○	●	—	—	—	○	○	●	9128-7045-55-67	Side walls T-547 mm, 45U, RAL 7035 (one set= 2 pc)
○	○	●	—	—	—	—	—	—	—	—	—	9128-7045-50-67	Side walls T-502 mm, 45U, RAL 7035 (one set= 2 pc)
—	—	—	—	—	—	—	—	—	○	○	●	9128-7045-46-67	Side walls T-460 mm, 45U, RAL 7035 (one set= 2 pc)
Side walls 42U													
—	—	—	—	—	—	○	○	●	—	—	—	9128-7042-68-67	Side walls T-680 mm, 42U, RAL 7035 (one set= 2 pc)
—	—	—	○	○	●	—	—	—	○	○	●	9128-7042-55-67	Side walls T-547 mm, 42U, RAL 7035 (one set= 2 pc)
○	○	●	—	—	—	—	—	—	—	—	—	9128-7042-50-67	Side walls T-502 mm, 42U, RAL 7035 (one set= 2 pc)
—	—	—	—	—	—	—	—	—	○	○	●	9128-7042-46-67	Side walls T-460 mm, 42U, RAL 7035 (one set= 2 pc)
Top cover closed													
○	○	○	—	—	—	—	—	—	—	—	—	9168-7501-28-07	Top cover T-285 mm
—	—	—	○	○	○	—	—	—	○	○	○	9168-7501-33-07	Top cover T-330 mm with three pre-punched ventilation holes
○	○	○	—	—	—	○	○	○	○	○	●	9168-7501-46-07	Top cover T-460 mm with three pre-punched ventilation holes
Top cover with brush insert – both sides													
○	○	●	—	—	—	—	—	—	—	—	—	9168-7501-28-57	Top or bottom cover T-285 mm with cable entry
—	—	—	○	○	●	—	—	—	○	○	●	9168-7501-33-47	Top cover T-330 mm with cable entry
—	—	—	—	—	—	○	○	●	○	○	○	9168-7501-46-47	Top cover T-460 mm three pre-punched ventilation holes
Top cover with active ventilation													
○	○	○	—	—	—	—	—	—	—	—	—	9168-7501-28-37	Top or bottom cover T-285 mm for mounting of three fans
—	—	—	○	○	○	—	—	—	○	○	○	9168-7501-33-07	Closed top cover T-330 with three pre-punched ventilation holes
—	—	—	—	—	—	○	○	○	○	○	○	9168-7501-46-07	Closed top cover T-460 with three pre-punched ventilation holes
—	—	—	—	—	—	○	○	○	○	○	○	9168-7501-46-47	Top cover T-460 with brush panel cable entry; three pre-punched ventilation holes

● Standard version   ○ Accessory   — Incompatible   + For transport   2x Quantity needed

häwa

Group	Part number	Description
Rear installed door + fan chassis	0168-75110-02-07	Closure panel
	9168-7545-70-07	Door frame 45U
	9168-7542-70-07	Door frame 42U
Facing installation	9198-0045-00-06	Plastic cable finger strips 45U
	9198-0042-00-06	Plastic cable finger strips 42U
Ventilation	3159-0128-23-71	Filter fan
Power strip vertical installation	9000-0000-05-03	Power strip
Bottom panel mounting	9128-7445-13-03	Cable carrier 45U
	9128-7442-13-03	Cable carrier 42U
	9128-7545-06-03	Raster support 45U
	9128-7542-06-03	Raster support 42U
	9128-0045-82-03	depth extender
Mounting of fan chassis	0317-7001-16-01	slide
Grounding of top cover (one per RACK)	3010-9036-95-05	Grounding cable set

□ system specific accessory

2

Modular system – Network distribution RACK

BASIS 395	LOGIK 395	PREMIUM 395	BASIS 440	LOGIK 440	PREMIUM 440	BASIS 570	LOGIK 570	PREMIUM 570	BASIS 900	LOGIK 900	PREMIUM 900	Part. no.	Description
Closed cover													
O	O	O	—	—	—	—	—	—	—	—	—	9168-7501-28-17	Top / Bottom cover T-285 mm
—	—	—	O	O	O	—	—	—	—	—	—	9168-7501-46-17	Top / Bottom cover T-460 mm
Cover sheet with brusUs, both sides													
O	O	O	—	—	—	—	—	—	—	—	—	9168-7501-28-57	Top / Bottom cover T-285 mm with cable entry
Cover sheet with active ventilation													
O	O	O	—	—	—	—	—	—	—	—	—	9168-7501-28-37	Top / Bottom cover T-285 mm for installing three fans
Cover sheet with passive ventilation													
—	—	—	—	—	—	O	O	O	—	—	—	9168-7501-46-77	Cover sheet with adjustable ventilation panel
Cable management zone 1 and 3													
O	●	O	O	●	O	O	●	O	O	●	O	9138-0042-00-06	Black plastic cable guide finger strips 42U (one set = 2 pcs)
O	●	O	O	●	O	O	●	O	O	●	O	9138-0045-00-06	Black plastic cable guide finger strips 42U (one set = 2 pcs)
—	—	—	O	●	O	O	●	O	O	●	O	9128-0007-28-07	Cable clamp, side, 289 mm, for TP 330 and for cable carrier 230, rear and next to last
O	●	O	—	—	—	—	—	—	—	—	—	9128-0007-24-07	Cable clamp, side, 241 mm, for TP 285 and for cable carrier 230, rear and next to last
Cable management zone 4													
—	—	—	—	—	—	O	O	O	—	—	—	9128-7445-06-03	Raster support 45U, (one set = 2 pcs), 69 mm, galvanized
—	—	—	—	—	—	O	O	O	—	—	—	9128-7442-06-03	Raster support 42U, (one set = 2 pcs), 69 mm, galvanized
—	—	—	—	—	—	—	—	—	O	O	O	9128-7445-13-03	Cable carrier 45U, (one set = 2 pcs), 133 mm for 12 Cable, galvanized
—	—	—	—	—	—	—	—	—	O	O	O	9128-7442-13-03	Cable carrier 42U, (one set = 2 pcs), 133 mm for 12 Cable, galvanized
—	—	—	—	—	—	O	O	O	—	—	—	9128-7008-06-03	U-bracket 69 mm (one set = 8 pcs), galvanized
—	—	—	—	—	—	—	—	—	O	O	O	9128-7008-13-03	U-bracket 133 mm (one set = 8 pcs), galvanized
—	—	—	—	—	—	—	—	—	O	O	O	9118-7133-02-00	Cable mounting kit for cable carrier 133 (one set = 4 pcs)
—	—	—	—	—	—	—	—	—	O	O	O	9118-7133-01-00	Flat clamp with nut (one set = 10 pcs)
—	—	—	—	—	—	—	—	—	O	O	O	9138-0133-00-70	Foam insert 133 (labeled package of 100 pcs)
Interior fittings													
O	O	O	O	O	O	O	O	O	O	O	O	2010-7262-30-17	19” panel inserts
—	—	—	—	—	—	O	O	O	O	O	O	9128-0245-45-07	19” panel inserts
—	—	—	—	—	—	—	—	—	O	O	O	9128-0245-80-07	19” panel inserts
O	O	O	O	O	O	O	O	O	O	O	O	9000-0000-05-03	19” power strip
O	O	O	O	O	O	O	O	O	—	—	—	0317-7001-16-01	Slide L-210
O	O	O	O	O	O	O	O	O	—	—	—	0317-7001-16-02	Slide L-310
O	O	O	O	O	O	O	O	O	—	—	—	0317-7001-16-03	Slide L-410
O	O	O	O	O	O	O	O	O	—	—	—	0361-9001-50-03	Slide L-150, 2U
●	●	●	●	●	●	●	●	●	●	●	●	9118-7500-01-07	Cross bracing – top or bottom (1 pcs)
Ventilation													
O	O	O	O	O	O	O	O	O	O	O	O	3159-0128-23-71	Filter fan
O	O	O	O	O	O	O	O	O	O	O	O	3117-2800-23-07	19’ Heat exchanger air/water
O	O	O	O	O	O	O	O	O	—	—	—	3114-9119-75-07	Fan chassis, complete with power cord; mounting within door frame
Assembly, mounting and transport													
O	O	O	O	O	O	O	O	O	O	O	O	9118-7010-00-00	Angle bracket, small, for serial mounting, galvanized (one set = 4 pcs)
●	●	●	●	●	●	●	●	●	●	●	●	9118-7002-00-00	Bottom bracket, galvanized (one set = 4 pcs)
O	O	O	O	O	O	O	O	O	O	O	O	2070-9102-35-00	Clip nut M5
O	O	O	O	O	O	O	O	O	O	O	O	2070-9102-36-00	Clip nut M6
O	O	O	O	O	O	O	O	O	O	O	O	2070-7202-06-00	Caged clip nut M6
O	O	O	O	O	O	O	O	O	O	O	O	0348-7500-06-12	Screw M6
+	+	+	+	+	+	+	+	+	+	+	+	9138-8574-16-00	Plywood sheet for shipment pre-drilled 850 x 740 x 16 mm
Grounding													
O	O	O	O	O	O	O	O	O	O	O	O	3080-9036-95-08	Grounding cable kit for IT top cover

● Standard version　　O Accessory　　— Incompatible　　+ For transport　　2x Quantity needed

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	Rear installed door + fan chassis				Facing installation			Ventilation	Power strip vertical installation	Bottom panel mounting						Mounting of fan chassis	Grounding of top cover (one per RACK)
	Closure panel	Door frame 45U	Door frame 42U		Plastic cable finger strips 45U	Plastic cable finger strips 42U		Filter fan	Power strip		Cable carrier 45U	Cable carrier 42U	Raster support 45U	Raster support 42U	depth extender	slide	Grounding cable set
	0168-7510-02-07	9168-7545-70-07	9168-7542-70-07		9198-0045-00-06	9198-0042-00-06		3159-0128-23-71	9000-0000-05-03		9128-7445-13-03	9128-7442-13-03	9128-7545-06-03	9128-7542-06-03	9128-0045-82-03	0317-7001-16-01	3010-9036-95-05

□ system specific accessory

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BASIS   ALLROUND   LOGIK   PREMIUM

M

![häwa logo]

Haewa's answer:
Modular system Four
pre-mounted starter models
Optimized as Server RACK

- Depth expandable
- Ganged RACK expandable
- Flexible outfitting
- Accepts your hardware
- Topside cable management
- Integral grounding
- On-site expansion

Quick results, with the right preparation.

Server BASIS
Basic module (TPM1)
Door
Top cover
Top 19"level
Depth profile

Server ALLROUND
BASIC
+ side wall
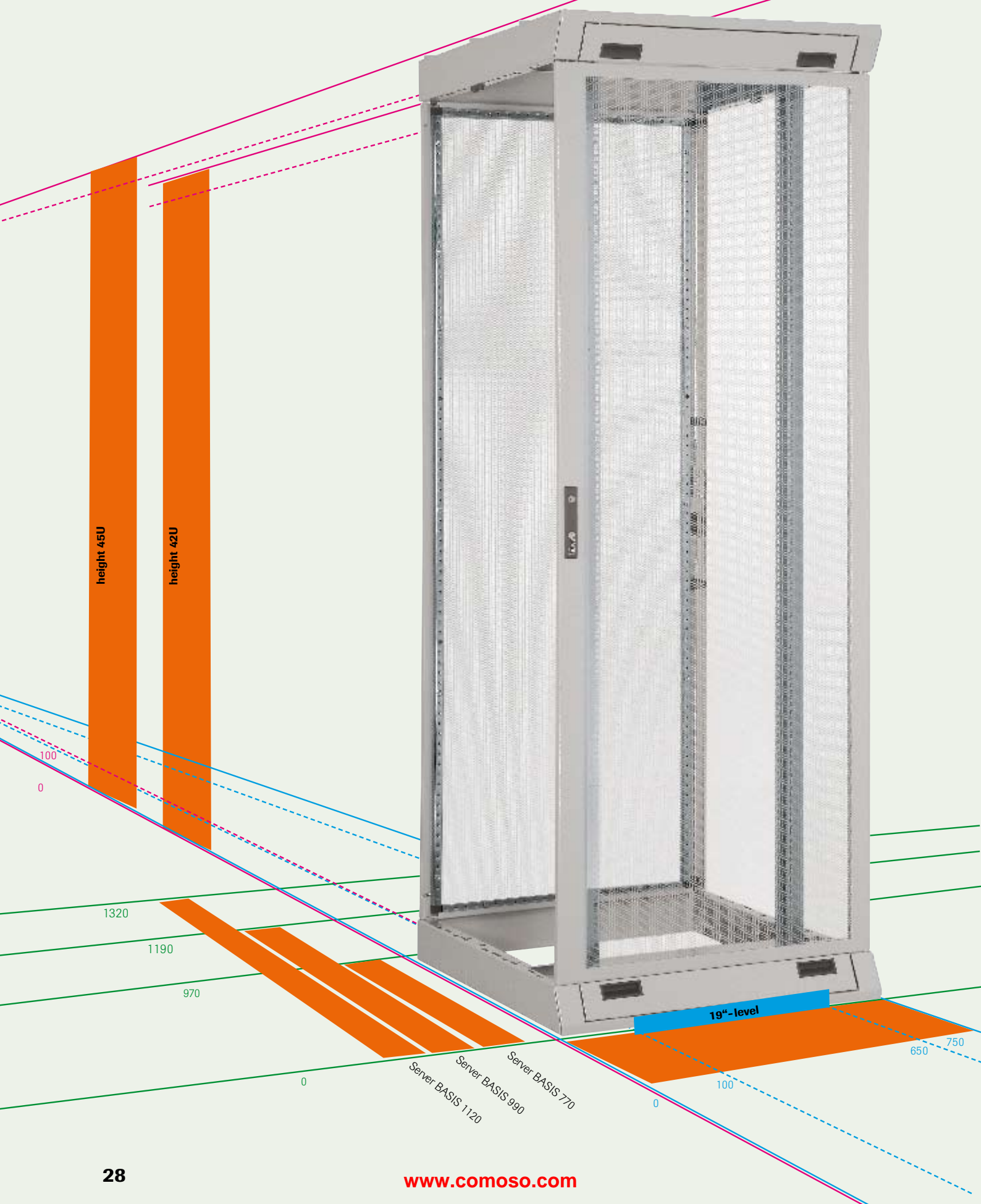
Server LOGIK
ALLROUND
+ cable carrier
+ two 19" levels

Server PREMIUM
LOGIK
+ rear door frame

All system modules
expandable at any time

*Let the future arrive
You are ready with the IT-Rack*

2

height 45U

height 42U

100

0

1320

1190

970

0

Server BASIS 1120

Server BASIS 990

Server BASIS 770

19"- level

750

650

100

0

Server BASIS 42U

Server RACK B-750, H-2068 mm (42U)

Basic module TPM1 accessible from all sides via removable panels.

Usable height 42U independent of future expansion needs. All notched profiles with U markings.

Honeycomb door with 81 % openings for free air flow.

Locking assembly with 3 mm double lock lever, matching future installation of lever handle with half cylinder.

Closed top cover with three pre-punched openings for future use.

Bottom is open. Top cover to be mounted after routing data or power cabling

IP20 protection.

Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).

Grounding via four M8 x 20 mm screws.

Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00

Cable carrier 42U
part no. 9138-7542-13-03

Deliverables:
RACK is pallet mounted for transport. Doors and top covers packaged for shipping, but not installed. One lock with 3 mm double lock bar

Description	usable depth in front and rear of first 19"level	depth	part. no.
Server BASIS 770, Server RACK	128 / 770 mm	970 mm	9508-7542-97-07*
Server BASIS 990, Server RACK	128 / 990 mm	1190 mm**	9508-7542-11-07*
Server BASIS 1120, Server RACK	128 / 1120 mm	1320 mm	9508-7542-13-07*

Server BASIS 45U

Server RACK B-750, H-2200,5 mm (45U)

Basic module TPM1 accessible from all sides via removable panels.

Usable height 45U independent of future expansion needs. All notched profiles with U markings.

Honeycomb door with 81 % openings for free air flow.

Locking assembly with 3 mm double lock lever, matching future installation of lever handle with half cylinder.

Closed top cover with three pre-punched openings for future use.

Bottom is open. Top cover to be mounted after routing data or power cabling

IP20 protection.

Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).

Grounding via four M8 x 20 mm screws.

Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00

Cable carrier 42U
part no. 9138-7542-13-03

Deliverables:
RACK is pallet mounted for transport. Doors and top covers packaged for shipping, but not installed. One lock with 3 mm double lock bar

Description	usable depth in front and rear of first 19"level	depth	part. no.
Server BASIS 770, Server RACK	128 / 770 mm	970 mm	9508-7545-97-07
Server BASIS 990, Server RACK	128 / 990 mm	1190 mm**	9508-7545-11-07
Server BASIS 1120, Server RACK	128 / 1120 mm	1320 mm	9508-7545-13-07

2

** Depth matching floor tile pattern of 600 mm spacing
* added delivery time

height 45H

height 42U

100

0

1320

1190

970

0

Server ALLROUND 1120

Server ALLROUND 990

Server ALLROUND 770

19"- level

750

650

100

0

Server ALLROUND 42U

Server RACK B-750, H-2068 mm (42U)
Basic module TPM1 accessible from all sides via removable panels.

Usable height 42U independent of future expansion needs. All notched profiles with U markings.

Honeycomb door with 81 % openings for free air flow.

Locking assembly with 3 mm double lock lever, matching future installation of lever handle with half cylinder.

Closed top cover with three pre-punched openings for future use.

Bottom is open. Doors and side walls mountable without tools. Side walls removable and lockable. Top cover to be mounted after routing data or power cabling
IP20 protection.

Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).

Grounding via four M8 x 20 mm screws.
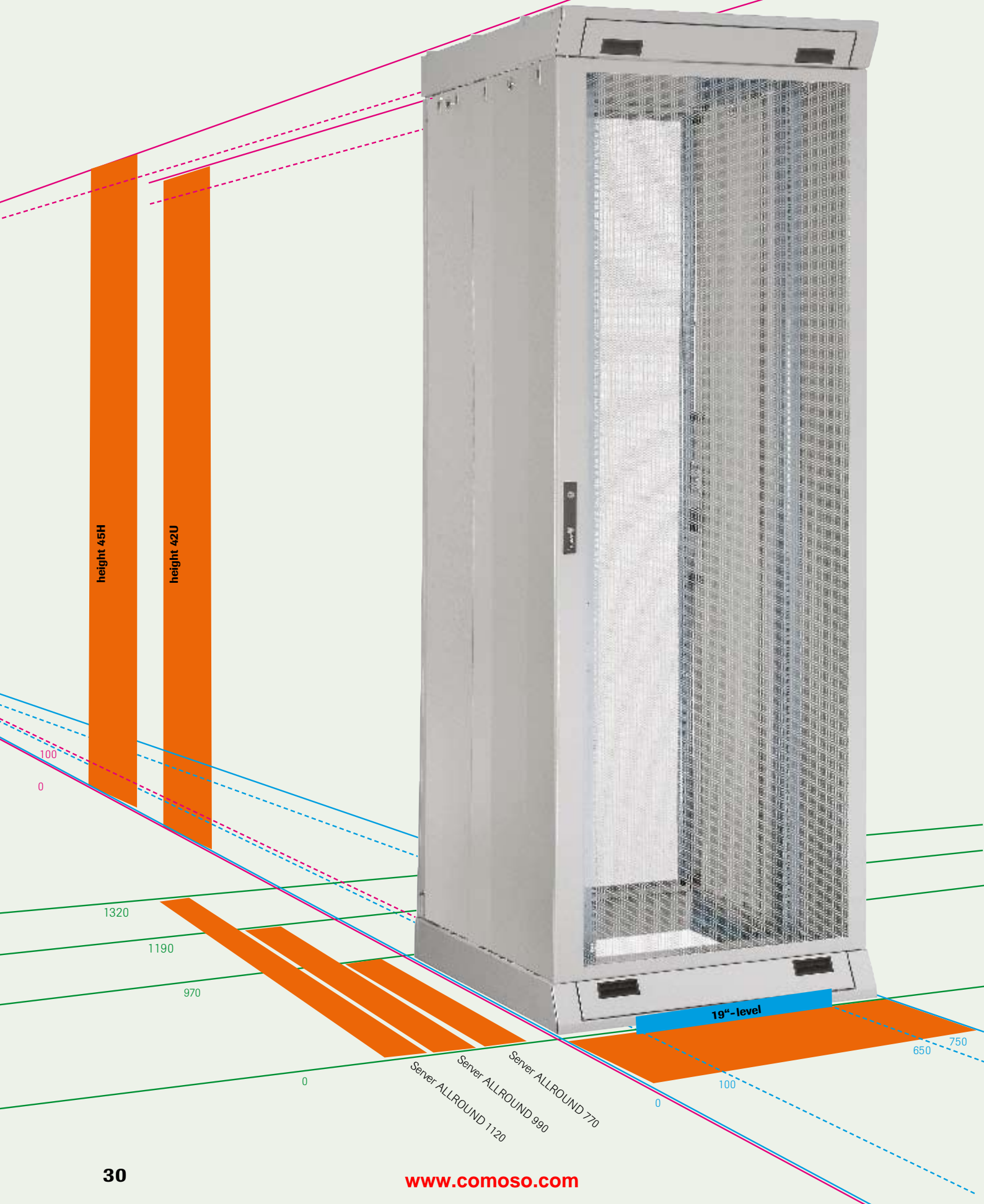
Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00

Cable carrier 42U
part no. 9138-7542-13-03

Deliverables:
RACK is pallet mounted for transport. Doors and top covers packaged for shipping, but not installed. One lock with 3 mm double lock bar

Description	usable depth in front and rear of first 19"level	depth	part. no.
Server ALLROUND 770, Server RACK	128 / 770 mm	970 mm	9508-7542-97-17*
Server ALLROUND 990, Server RACK	128 / 990 mm	1190 mm**	9508-7542-11-17*
Server ALLROUND 1120, Server RACK	128 / 1120 mm	1320 mm	9508-7542-13-17*

Server ALLROUND 45U

Server RACK B-750, H-2068 mm (45U)
Basic module TPM1 accessible from all sides via removable panels.

Usable height 45U independent of future expansion needs. All notched profiles with U markings.

Honeycomb door with 81 % openings for free air flow.

Locking assembly with 3 mm double lock lever, matching future installation of lever handle with half cylinder.

Closed top cover with three pre-punched openings for future use.

Bottom is open. Doors and side walls mountable without tools. Side walls removable and lockable. Top cover to be mounted after routing data or power cabling
IP20 protection.

Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).

Grounding via four M8 x 20 mm screws.

Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00

Cable carrier 42U
part no. 9138-7542-13-03

Deliverables:
RACK is pallet mounted for transport. Doors and top covers packaged for shipping, but not installed. One lock with 3 mm double lock bar

Description	usable depth in front and rear of first 19"level	depth	part. no.
Server ALLROUND 770, Server RACK	128 / 770 mm	970 mm	9508-7545-97-17
Server ALLROUND 990, Server RACK	128 / 990 mm	1190 mm**	9508-7545-11-17
Server ALLROUND 1120, Server RACK	128 / 1120 mm	1320 mm	9508-7545-13-17

2

** Depth matching floor tile pattern of 600 mm spacing
* added delivery time

height 45U

height 42U

100

0

1320

1190

970

0

Server LOGIK 1120

Server LOGIK 990

Server LOGIK 770

19"– level

750

650

100

0

häwa
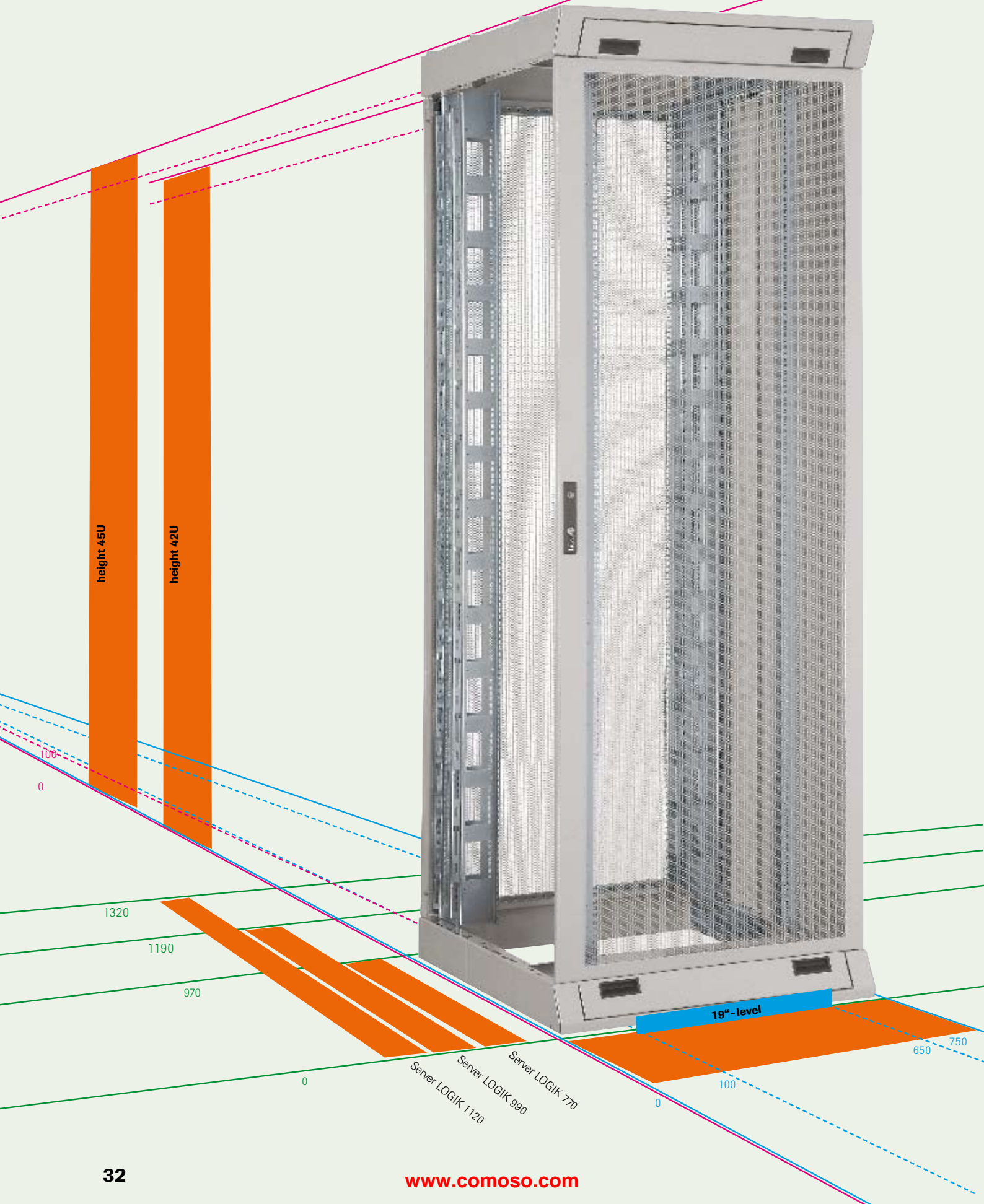
Server LOGIK 42U

Server RACK B-750, H-2068 mm (42 U)
Basic module TPM1 accessible from all sides via removable panels.

Usable height 42U independent of future expansion needs. All notched profiles with U markings.

Second 19" level prepared for vertical mounting of power strip or similar.

Honeycomb door with 81 % openings for free air flow.

Locking assembly with 3 mm double lock lever, matching future installation of lever handle with half cylinder.

Closed top cover with three pre-punched openings for future use.

Bottom is open. Doors and side walls mountable without tools. Side walls removable and lockable. Top cover to be mounted after routing data or power cabling

IP20 protection.

Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).

Grounding via four M8 x 20 mm screws.

Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00

Deliverables:
RACK is pallet mounted doors, side walls and top covers packaged separately. 1 key with 3 mm double lock lever.

Description	usable depth in front and rear of first 19"level	depth	part. no.
Server LOGIK 770, Server RACK	128 / 770 mm	970 mm	9508-7542-97-27*
Server LOGIK 990, Server RACK	128 / 990 mm	1190 mm**	9508-7542-11-27*
Server LOGIK 1120, Server RACK	128 / 1120 mm	1320 mm	9508-7542-13-27*

Server LOGIK 45U

Server RACK B-750, H-2068 mm (45U)
Basic module TPM1 accessible from all sides via removable panels.

Usable height 45U independent of future expansion needs. All notched profiles with U markings.

Second 19" level prepared for vertical mounting of power strip or similar.

Honeycomb door with 81 % openings for free air flow.

Locking assembly with 3 mm double lock lever, matching future installation of lever handle with half cylinder.

Closed top cover with three pre-punched openings for future use.

Bottom is open. Doors and side walls mountable without tools. Side walls removable and lockable. Top cover to be mounted after routing data or power cabling

IP20 protection.

Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).

Grounding via four M8 x 20 mm screws.

Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00

Deliverables:
RACK is pallet mounted doors, side walls and top covers packaged separately. 1 key with 3 mm double lock lever.

Description	usable depth in front and rear of first 19"level	depth	part. no.
Server LOGIK 770, Server RACK	128 / 770 mm	970 mm	9508-7545-97-27
Server LOGIK 990, Server RACK	128 / 990 mm	1190 mm**	9508-7545-11-27
Server LOGIK 1120, Server RACK	128 / 1120 mm	1320 mm	9508-7545-13-27

2

** Depth matching floor tile pattern of 600 mm spacing
* added delivery time

height 45U

height 42U

100

0

1365

1235

1015

0

Server PREMIUM 1120

Server PREMIUM 990

Server PREMIUM 770

19"-level

750

650

100

0

Server PREMIUM 42U

Server RACK B-750, H-2068 mm (42U)

Basic module TPM1 accessible from all sides via removable panels.

Usable height 42U independent of future expansion needs. All notched profiles with U markings.

Second 19" level prepared for vertical mounting of power strip or similar.

Honeycomb door with 81 % openings for free air flow.

Locking assembly with 3 mm double lock lever, matching future installation of lever handle with

half cylinder. Closed top cover with three pre-punched openings for future use.

Bottom is open. Rear door frame for added stability. Side walls mountable and lockable. Top cover to be mounted after routing data or power cabling

IP20 protection.

Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).

Grounding via four M8 x 20 mm screws.

Surface treatment: galvanized or RAL 7035

Needed for shipping:
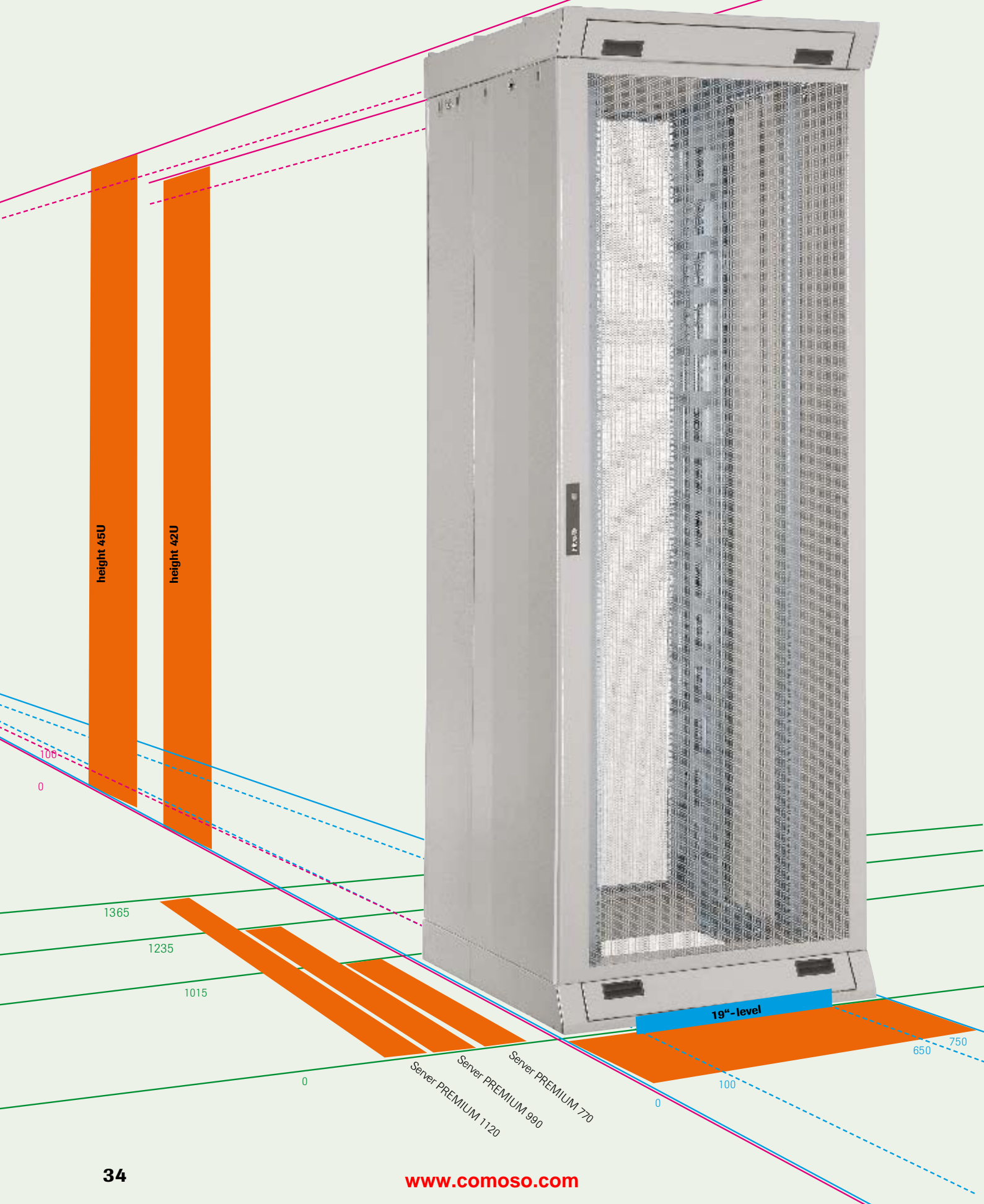Plywood base
part no. 9138-8574-16-00

Deliverables:
RACK is pallet mounted for transport. Doors, Side walls and top covers packaged for shipping, but not installed. One lock with 3 mm double lock bar

Description	usable depth in front and rear of first 19"level	depth	part. no.
Server PREMIUM 770, Server RACK	128 / 770 mm	1015 mm	**9508-7542-10-27***
Server PREMIUM 990, Server RACK	128 / 990 mm	1235 mm	**9508-7542-12-27***
Server PREMIUM 1120, Server RACK	128 / 1120 mm	1365 mm	**9508-7542-14-27***

Server PREMIUM 45U

Server RACK B-750, H-2068 mm (42U)

Basic module TPM1 accessible from all sides via removable panels.

Usable height 42U independent of future expansion needs. All notched profiles with U markings.

Second 19" level prepared for vertical mounting of power strip or similar.

Honeycomb door with 81 % openings for free air flow.

Locking assembly with 3 mm double lock lever, matching future installation of lever handle with

half cylinder. Closed top cover with three pre-punched openings for future use.

Bottom is open. Rear door frame for added stability. Side walls mountable and lockable. Top cover to be mounted after routing data or power cabling

IP20 protection.

Grounding: all individual RACK parts, plus 19"level, conductively integrated to ground (except adjustable top covers).

Grounding via four M8 x 20 mm screws.

Surface treatment: galvanized or RAL 7035

Needed for shipping:
Plywood base
part no. 9138-8574-16-00

Deliverables:
RACK is pallet mounted for transport. Doors, Side walls and top covers packaged for shipping, but not installed. One lock with 3 mm double lock bar

Description	usable depth in front and rear of first 19"level	depth	part. no.
Server PREMIUM 770, Server RACK	128 / 770 mm	1015 mm	**9508-7545-10-27**
Server PREMIUM 990, Server RACK	128 / 990 mm	1235 mm	**9508-7545-12-27**
Server PREMIUM 1120, Server RACK	128 / 1120 mm	1365 mm	**9508-7545-14-27**

* added delivery time

BASIS 770	ALLROUND 770	LOGIK 770	PREMIUM 770	BASIS 990	ALLROUND 990	LOGIK 990	PREMIUM 990	BASIS 1120	ALLROUND 1120	LOGIK 1120	PREMIUM 1120	Part. no.	Description
Single door 45U														
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-00-97	Single door locked, 45U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-00-87	Single viewing door, 3 mm plexiglass, 45U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-00-67	Single viewing door, plexiglass 3 mm, 45U, RAL 7035 -for 19" viewing width
●	●	●	●	●	●	●	●	●	●	●	●	9168-7545-00-77	Single honeycomb door, 45U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-00-57	Single honeycomb door, 45U, RAL 7035 -for 19"-viewing width
Single door 42U														
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-00-97	Single door locked, 42U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-00-87	Single viewing door, plexiglass 3 mm, 42U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-00-67	Single viewing door, plexiglass 3 mm, 42U, RAL 7035 -for 19" Viewing width
●	●	●	●	●	●	●	●	●	●	●	●	9168-7542-00-77	Single honeycomb door, 42U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-00-57	Single honeycomb door, 42U, RAL 7035 -for 19"-viewing width
Double door 45U														
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-05-97	Double door locked, 45U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-05-87	Double viewing door, plexiglass 3 mm, 45U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7545-05-77	Double honeycomb door, 45U, RAL 7035
Double door 42U														
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-05-77	Double honeycomb, 42U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-05-97	Double door locked, 42U, RAL 7035
○	○	○	○	○	○	○	○	○	○	○	○	9168-7542-05-87	Double viewing door, plexiglass 3 mm, 42U, RAL 7035
Locking														
○	○	○	○	○	○	○	○	○	○	○	○	3070-0904-55-01	Lever lock, narrow, for single and double IT RACK doors
○	○	○	○	○	○	○	○	○	○	○	○	3070-0933-34-00	Cam lock cylinder
Facings														
○	○	○	○	○	○	○	○	○	○	○	○	9168-1245-00-07	Facings frontside, 45U, RAL 7035 (one set = 2 pcs)
○	○	○	○	○	○	○	○	○	○	○	○	9168-1242-00-07	Facings frontside, 42U, RAL 7035 (one set = 2 pcs)
Closure facing														
2x	2x	2x	—	2x	2x	2x	—	2x	2x	2x	—	9168-7510-02-07	Rear facing, RAL 7035 1 pcs
Door frame														
—	—	—	●	—	—	—	●	—	—	—	●	9168-7545-70-07	Door frame rear, 42U, RAL 7035
—	—	—	●	—	—	—	●	—	—	—	●	9168-7542-70-07	Door frame rear, 42 U, RAL 7035
Side walls 45U														
—	—	—	—	—	—	—	—	●	●	●	●	9128-7045-68-67	Side walls T-680 mm, 45U, RAL 7035 (one set= 2 pcs)
●	●	●	●	2x	2x	2x	2x	●	●	●	●	9128-7045-55-67	Side walls T-547 mm, 45U, RAL 7035 (one set= 2 psc)
●	●	●	●	—	—	—	—	—	—	—	—	9128-7045-33-67	Side walls T-330 mm, 45U, RAL 7035 (one set= 2 pcs)
Side walls 42U														
—	—	—	—	—	—	—	—	●	●	●	●	9128-7042-68-67	Side walls T-680 mm, 42U, RAL 7035 (one set= 2 pcs)
●	●	●	●	2x	2x	2x	2x	●	●	●	●	9128-7042-55-67	Side walls T-547 mm, 42U, RAL 7035 (one set= 2 pcs)
●	●	●	●	—	—	—	—	—	—	—	—	9128-7042-33-67	Side walls T-330 mm, 42U, RAL 7035 (one set= 2 pcs)
Top cover closed														
○	○	○	○	○	○	○	○	○	○	○	○	9168-7501-16-07	Top cover T-165 mm
—	—	—	—	●	●	●	●	●	●	●	●	9168-7501-21-07	Top cover T-217 mm
—	—	—	—	—	—	—	—	○	○	○	○	9168-7501-23-07	Top cover T-230 mm
●	●	●	●	●	●	●	●	●	●	●	●	9168-7501-33-07	Top cover T-330 mm with three pre-punched ventilation holes
—	—	—	—	—	—	—	—	●	●	●	●	9168-7501-46-07	Top cover T-460 mm with three pre-punched ventilation holes
Top cover with brush insert														
○	○	○	○	○	○	○	○	○	○	○	○	9168-7501-16-47	Top cover T-165 mm with cable entry
—	—	—	—	○	○	○	○	○	○	○	○	9168-7501-21-47	Top cover T-217 mm with cable entry
—	—	—	—	—	—	—	—	○	○	○	○	9168-7501-23-47	Top cover T-230 mm with cable entry
○	○	○	○	○	○	○	○	○	○	○	○	9168-7501-33-47	Top cover T-330 mm with cable entry
—	—	—	—	—	—	—	—	○	○	○	○	9168-7501-46-47	Top cover T-460 mm with cable entry and three pre-punched ventilation holes
Top cover with active ventilation														
○	○	○	○	○	○	○	○	○	○	○	○	9168-7501-16-27	Top cover T-165 mm for mounting of three pre-punched ventilation holes
—	—	—	—	○	○	○	○	○	○	○	○	9168-7501-21-27	Top cover T-217 mm for mounting of three pre-punched ventilation holes
—	—	—	—	—	—	—	—	○	○	○	○	9168-7501-23-27	Top cover T-230 mm for mounting of three pre-punched ventilation holes
●	●	●	●	●	●	●	●	●	●	●	●	9168-7501-33-07	Top cover T-330 mm with three pre-punched ventilation holes
—	—	—	—	—	—	—	—	○	○	○	○	9168-7501-46-47	Top cover T-460 mm with cable entry and three pre-punched ventilation holes

● Standard version   ○ Accessory   — Incompatible   + For transport   2x Quantity needed

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Mounting of ventilation chassis

9168-7545-70-07	Door frame 45U
9168-7542-70-07	Door frame 42U

Panel mounting

9138-0045-00-06	Plastic cable finger strips 45U
9138-0042-00-06	Plastic cable finger strips 42U

Ventilation mounting

3159-0128-23-71	Filter fan

Power strip vertical installation

9000-0000-05-03	Power strip

Bottom panel mounting

9128-7445-06-03	Cable carrier 45U
9128-7442-06-03	Cable carrier 42U
9128-7445-13-03	Cable carrier 45U
9128-7442-13-03	Cable carrier 42U
9128-7445-16-03	Cable carrier 45U
9128-7442-16-03	Cable carrier 42U
9128-7445-23-03	Cable carrier 45U
9128-7442-23-03	Cable carrier 42U
9128-0045-82-03	Depth extender

Mounting kits data cables for layering of cable sets

9118-7133-02-00	
9118-7133-01-00	At 12 cables per layer
9138-0133-00-70	
9118-7165-02-00	
9118-7165-01-00	At 16 cables per layer
9138-0165-00-70	
9118-7230-02-00	
9118-7230-01-00	At 14 cables per layer
9138-0230-00-70	

Mounting of heat exchanger chassis

0317-7001-16-01	Slide

Grounding of top panel

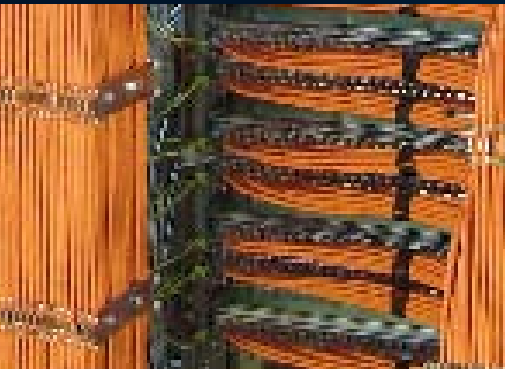|	
3050-9036-95-08	Grounding cable set

□ system specific accessory

2

Modular system – Server RACK

SERVER BASIS 770	SERVER ALLROUND 770	SERVER LOGIK 770	SERVER PREMIUM 770	SERVER BASIS 990	SERVER ALLROUND 990	SERVER LOGIK 990	SERVER PREMIUM 990	SERVER BASIS 1120	SERVER ALLROUND 1120	SERVER LOGIK 1120	SERVER PREMIUM 1120	Part. no.	Description
Closed cover													
−	−	−	−	−	−	−	−	○	○	○	○	9168-7501-46-17	Top / bottom cover T-460 mm
Cover sheet with active ventilation													
○	○	○	○	○	○	○	○	−	−	−	−	9168-7501-33-37	Top / bottom cover T-330 mm with adjustable ventilation panel
−	−	−	−	−	−	−	−	○	○	○	○	9168-7501-46-37	Top / bottom cover T-460 mm with adjustable ventilation panel
Cover sheet with pre-punched ventilation holes													
−	−	−	−	−	−	−	−	○	○	○	○	9168-7501-46-77	Cover sheet with pre-punched ventilation holes, T-460 mm
−	−	−	−	−	−	−	−	○	○	○	○	9168-7501-55-77	Cover sheet with pre-punched ventilation holes, T-550 mm
Second 19" level													
○	○	●	●	○	○	●	●	○	○	●	●	9128-7245-00-03	19" rear profile (one set = one ea. left/rt.)
○	○	●	●	○	○	●	●	○	○	●	●	9128-7242-00-03	19" rear profile (one set = one ea. left/rt.)
Cable management Zones 1 and 3													
○	○	○	○	○	○	○	○	○	○	○	○	9138-0042-00-06	Black plastic cable guide finger strips 42U (one set = 2 pcs,)
○	○	○	○	○	○	○	○	○	○	○	○	9138-0045-00-06	Black plastic cable guide finger strips 45U (one set = 2 pcs,)
○	○	○	○	○	○	○	○	○	○	○	○	9128-0007-21-07	Cable clamp, side, 213 mm, for TP330 and cable carrier, 165 front
Cable management Zone 4													
○	○	○	○	○	○	○	○	○	○	○	○	9128-7445-06-03	Raster support 45U, (one set = 2 pc) 69 mm, galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7442-06-03	Raster support 42U, (one set = 2 pc) 69 mm, galvanized
○	○	○	○	○	○	●	●	○	○	●	●	9128-7445-13-03	Cable carrier 45U, (one set = 2 pc) 133 mm for 12 cables, galvanized
○	○	○	○	○	○	●	●	○	○	●	●	9128-7442-13-03	Cable carrier 42U, (one set = 2 pc) 133 mm for 12 cables, galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7442-16-03	Cable carrier 42U, (one set = 2 pc) 165 mm for 16 cables, galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7445-16-03	Cable carrier 45U, (one set = 2 pc) 165 mm for 16 cables, galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7442-23-03	Cable carrier 42U, (one set = 2 pc) 230 mm for 24 cables, galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7445-23-03	Cable carrier 45U, (one set = 2 pc) 230 mm for 24 cables, galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7008-06-03	U-bracket 69 mm (one set = 8 pc), galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7008-13-03	U-bracket 133 mm (one set = 8 pc), galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7008-16-03	U-bracket 165 mm (one set = 8 pc), galvanized
○	○	○	○	○	○	○	○	○	○	○	○	9128-7008-23-03	U-bracket 230 mm (one set = 8 pc), galvanized
Equipment inside													
○	○	○	○	○	○	○	○	○	○	○	○	2010-7262-30-17	19" panel inserts
○	○	○	○	○	○	○	○	○	○	○	○	9128-0245-45-07	19" panel inserts
−	−	−	−	○	○	○	○	○	○	○	○	9128-0245-80-07	19" panel inserts
○	○	○	○	○	○	○	○	○	○	○	○	9000-0000-05-03	19" power strip
○	○	○	○	○	○	○	○	○	○	○	○	0317-7001-16-01	Slide
○	○	○	○	○	○	○	○	○	○	○	○	0317-7001-16-02	Slide
○	○	○	○	○	○	○	○	○	○	○	○	0317-7001-16-03	Slide
○	○	○	○	○	○	○	○	○	○	○	○	0361-9001-50-03	Slide
Ventilation													
○	○	○	○	○	○	○	○	○	○	○	○	3159-0128-23-71	Filter fan
○	○	○	○	○	○	○	○	○	○	○	○	3117-2800-23-07	19" heat exchanger air/water
○	○	○	○	○	○	○	○	○	○	○	○	3114-9119-75-07	Fan chassis, complete with power cord; mounting within door frame
Assembly, mounting and transport													
●	●	●	●	●	●	●	●	●	●	●	●	9118-7500-01-07	Cross bracing – top or bottom (1 pc)
○	○	○	○	○	○	○	○	○	○	○	○	9118-7010-00-00	Angle bracket, small, for serial mounting, galvanized (one set = four pcs.)
●	●	●	●	●	●	●	●	●	●	●	●	9118-7002-00-00	Bottom bracket (one set = 4 pc) galvanized
○	○	○	○	○	○	○	○	○	○	○	○	2070-9102-35-00	Clip nut M5
○	○	○	○	○	○	○	○	○	○	○	○	2070-9102-36-00	Clip nut M6
○	○	○	○	○	○	○	○	○	○	○	○	2070-7202-06-00	Caged clip nut M6
○	○	○	○	○	○	○	○	○	○	○	○	0348-7500-06-12	Screw M6
+	+	+	+	+	+	+	+	+	+	+	+	9138-8574-16-00	Plywood sheet for shipment pre-drilled 850 x 740 x 16 mm
Grounding													
○	○	○	○	○	○	○	○	○	○	○	○	3080-9036-95-08	Grounding cable kit for IT top cover

● Standard version   ○ Accessory   − Incompatible   + For transport   2x Quantity needed

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Mounting of ventilation chassis

Description	Part number
Door frame 45U	9168-7545-70-07
Door frame 42U	9168-7542-70-07

Panel mounting

Description	Part number
Plastic cable finger strips 45U	9138-0045-00-06
Plastic cable finger strips 42U	9138-0042-00-06

Ventilation mounting

Description	Part number
Filter fan	3159-0128-23-71

Power strip vertical installation

Description	Part number
Power strip	9000-0000-05-03

Bottom panel mounting

Description	Part number
Cable carrier 45U	9128-7445-06-03
Cable carrier 42U	9128-7442-06-03
Cable carrier 45U	9128-7445-13-03
Cable carrier 42U	9128-7442-13-03
Cable carrier 45U	9128-7445-16-03
Cable carrier 42U	9128-7442-16-03
Cable carrier 45U	9128-7445-23-03
Cable carrier 42U	9128-7442-23-03
Depth extender	9128-0045-82-03

Mounting kits data cables for layering of cable sets

Description	Part number
At 12 cables per layer	9118-7133-02-00 / 9118-7133-01-00 / 9138-0133-00-70
At 16 cables per layer	9118-7165-02-00 / 9118-7165-01-00 / 9138-0165-00-70
At 14 cables per layer	9118-7230-02-00 / 9118-7230-01-00 / 9138-0230-00-70

Mounting of heat exchanger chassis

Description	Part number
Slide	0317-7001-16-01

Grounding of top panel

Description	Part number
Grounding cable set	3050-9036-95-08

□ Accessory system-oriented

2

Systems module for any conceivable IT RACK

- For network distribution or server
- Any outfitting configuration imaginable
- All expansions during operation
- Lots of mounting space
- Orderly arrangement for cables
  In predetermined zones
  With much mounting space
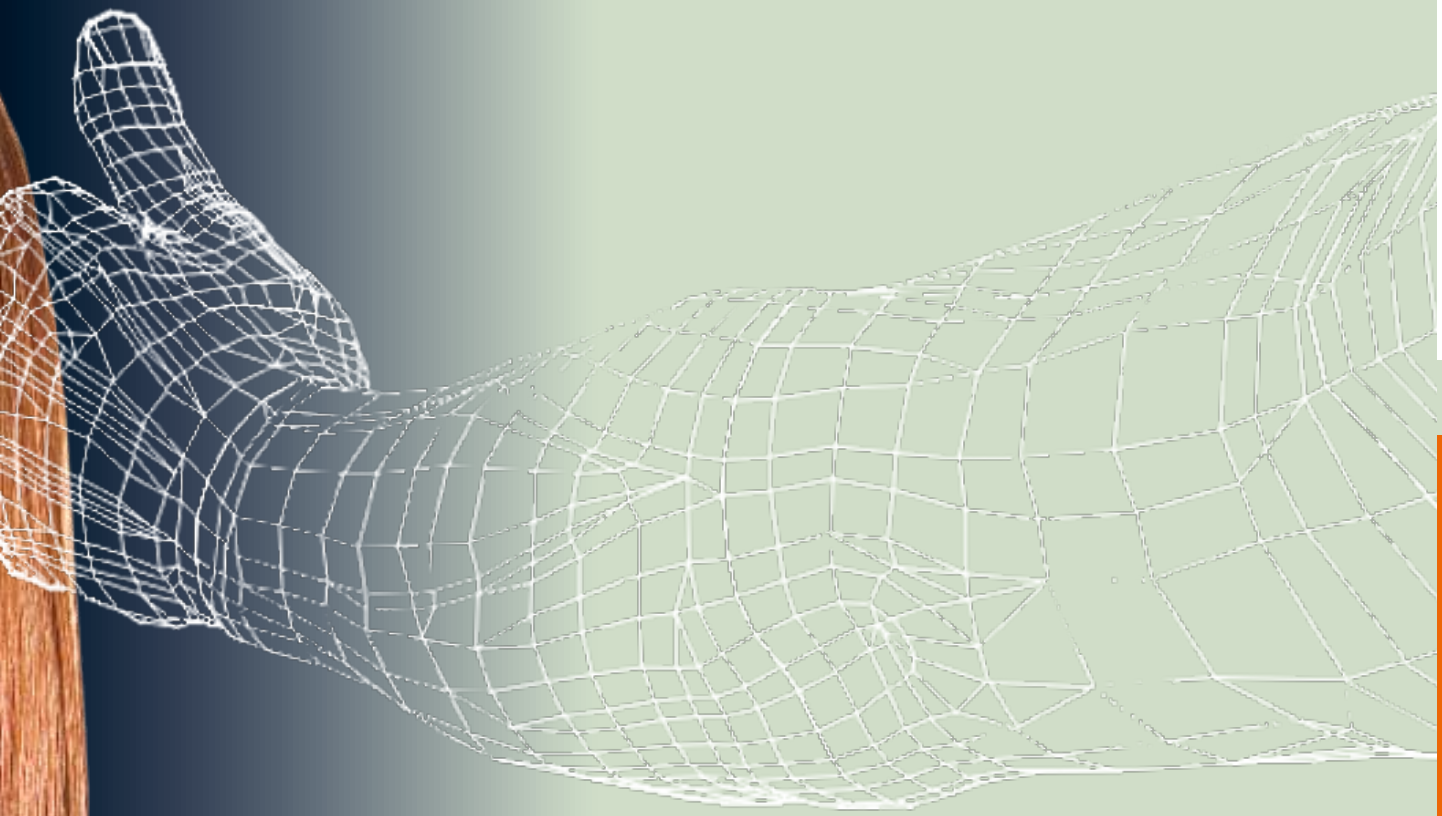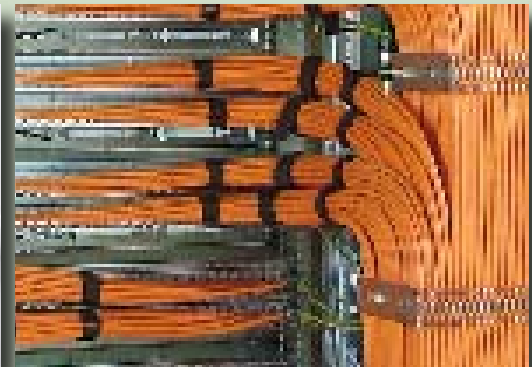
IT-RACK Modular system

Basic module TPM1; top

Description	part. no.
Basic module TPM1 at top, 1.5 mm thickness, with two ground lugs M8 x 2, arranged at side Finish: powder coated RAL 7035; contact points and mounting surfaces for depth, raster profiles and doors are uncoated.	**9148-7501-28-17**

Deliverables:
Complete with installed cover, upper flange plate and left and right cover plate. (1) pc.

Basic module TPM1; bottom
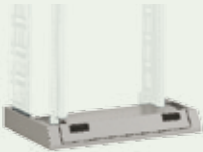
Description	part. no.
	9148-7501-28-07

Basic module TPM1 at top, 1.5 mm thickness, with two ground lugs M8 x 2, arranged at side; open bottom.
Finish: powder coated RAL 7035; contact points and mounting surfaces for depth, raster profiles and doors are uncoated.

Deliverables:
Complete with installed cover, left and right cover plate. (1) pc.

Depth profile TP

Description		part. no.
Depth profile for extending depth	length-285 mm	**9128-7001-28-00**
For mounting to Basic module TPM1 top/bottom, door frame of rear closure panel, or to more depth profiles. Quick mounting with only one	length-330 mm	**9128-7001-33-00**
screw. Thickness 1.5 mm.	length-460 mm	**9128-7001-46-00**
Galvanized surfaces; exposed surface powder coated RAL 7035	length-548 mm	**9128-7001-54-00**

Deliverables:
Includes mounting hardware. 1 set = 4 pcs.

IT-RACK accessories

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19" frontal profile

Description

19" frontal profile for Zone 1, made of compound bends, for mounting onto basic module TPM1. Notch pattern 9.5 mm² with U markings. Including mounting holes for plastic cable fingers and clamps. Added hole patterns for vertically mounting lights and other accessories.
Material thickness 1.5 mm.
Galvanized.

Deliverables:
Includes mounting hardware
1 set = left and right pcs.

	part. no.
42U	**9168-7142-00-03**
45U	**9168-7145-00-03**

Single locked doors

Description

Doors with spring loaded pin hinges for mounting without tools to door frame and rear panel.
Locking via bar lock mechanism. Standard 3 mm double pin; can be changed to lever handle with cylinder plug.
Can be simply changed to left or right hinged by flipping doors and hardware. Solid mounting contact of hinges on paint free surfaces.
Material thickness 1.0 mm
Powder coated RAL 7035
Paint free contact surfaces

Deliverables:
Complete door with one key and 3 mm double pin.
Includes door stops.
1 pc.

	part. no.
42U	**9168-7542-00-97**
45U	**9168-7545-00-97**

Double doors, locked

Description

Doors with spring loaded pin hinges for mounting without tools to door frame and rear panel.
Locking via bar lock mechanism. Standard 3 mm double pin; can be changed to lever handle with cylinder plug.
Can be simply changed to left or right hinged by flipping doors and hardware. Solid mounting contact of hinges on paint free surfaces.
Material thickness 1.0 mm
Powder coated RAL 7035
Paint free contact surfaces

Deliverables:
Complete doors with one key and 3 mm double bar.
Includes door stops.
1 set = left and right hand doors.

	part. no.
42U, 2 door	**9168-7542-05-97**
45U, 2 door	**9168-7545-05-97**

2

IT-RACK accessories

Viewing doors, full view

Description		part. no.
Doors with spring loaded pin hinges for mounting without tools to door frame and rear panel. Locking via bar lock mechanism. Standard 3 mm double pin; can be changed to lever handle with cylinder plug. Can be simply changed to left or right hinged by flipping doors and hardware. Solid mounting contact of hinges on paint free surfaces. viewing door with 3 mm plexiglass. Material thickness 1.0 mm Powder coated RAL 7035 Paint free contact surfaces	42U, full view	**9168-7542-00-87**
	45U, full view	**9168-7545-00-87**

Deliverables:
Complete door with one key and 3 mm double pin.
Includes door stops.
1 pc.

Viewing doors, 19" wide view

Description		part. no.
Doors with spring loaded pin hinges for mounting without tools to door frame and rear panel. Locking via bar lock mechanism. Standard 3 mm double pin; can be changed to lever handle with cylinder plug. Can be simply changed to left or right hinged by flipping doors and hardware. Solid mounting contact of hinges on paint free surfaces. viewing door with 3 mm plexiglass. Material thickness 1.0 mm Powder coated RAL 7035 Paint free contact surfaces	42U, 19" view	**9168-7542-00-67**
	45U, 19" view	**9168-7545-00-67**

Deliverables:
Complete door with one key and 3 mm double pin.
Includes door stops.
1 pc.

Double viewing doors, full views

Description		part. no.
Doors with spring loaded pin hinges for mounting without tools to door frame and rear panel. Locking via bar lock mechanism. Standard 3 mm double pin; can be changed to lever handle with cylinder plug. Can be simply changed to left or right hinged by flipping doors and hardware. Solid mounting contact of hinges on paint free surfaces. viewing door with 3 mm plexiglass. Material thickness 1.0 mm Powder coated RAL 7035 Paint free contact surfaces	42U, 2 door	**9168-7542-05-77**
	45U, 2 door	**9168-7545-05-77**

Deliverables:
Complete door with one key and 3mm double pin.
Includes door stops.
1 set = left and right hand doors.

Honeycomb doors

Description

Doors with spring loaded pin hinges for mounting without tools to door frame and rear panel. Locking via bar lock mechanism. Standard 3mm double pin; can be changed to lever handle with cylinder plug.
Can be simply changed to left or right hinged by flipping doors and hardware. Solid mounting contact of hinges on paint free surfaces.
Honeycomb doors with open area > 81%.
Material thickness 1.0 mm
Powder coated RAL 7035
Paint free contact surfaces

Deliverables:
Complete door with one key and 3mm double pin.
Includes door stops.
1 pc.

	part. no.
42U maximum area honeycomb	**9168-7542-00-77**
45U maximum area honeycomb	**9168-7545-00-77**

Honeycomb doors 19" view

Description

Doors with spring loaded pin hinges for mounting without tools to door frame and rear panel. Locking via bar lock mechanism. Standard 3 mm double pin; can be changed to lever handle with cylinder plug.
Can be simply changed to left or right hinged by flipping doors and hardware. Solid mounting contact of hinges on paint free surfaces.
Honeycomb doors with open area > 81%.
Material thickness 1.0 mm
Powder coated RAL 7035
Paint free contact surfaces

Deliverables:
Complete door with one key and 3mm double pin.
Includes door stops.
1 pc.

	part. no.
42U, 19" view	**9168-7542-00-57**
45U, 19" view	**9168-7545-00-57**

Honeycomb doors

Description

Doors with spring loaded pin hinges for mounting without tools to door frame and rear panel. Locking via bar lock mechanism. Standard 3 mm double pin; can be changed to lever handle with cylinder plug.
Can be simply changed to left or right hinged by flipping doors and hardware. Solid mounting contact of hinges on paint free surfaces.
Honeycomb doors with open area > 81%.
Material thickness 1.0 mm
Powder coated RAL 7035
Paint free contact surfaces

Deliverables:
Complete door with one key and 3 mm double pin.
Includes door stops.
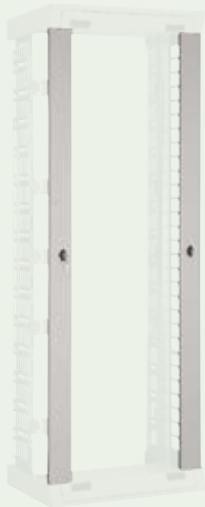1 set = left and right hand doors.

	part. no.
42 HE, 2 door	**9168-7542-05-77**
45 HE, 2 door	**9168-7545-05-77**

2

IT-RACK accessories

Facings

Description

Facings with spring loaded pin hinges for mounting without tools to Base Module TPM1. Locking via bar lockable lever knob. Bar lock engages plastic cable fingers.
Can be simply changed to left or right hinged by flipping doors and hardware. Paint free mounting surfaces for hinges.
Material thickness 1.0 mm
Powder coated RAL 7035
Paint free contact surfaces

Deliverables:
Complete facings with one key.
1 set = 2 pcs.

		part. no.
	42U	**9168-1242-00-07**
	45U	**9168-1245-00-07**

Door frame

Description

Rear door frame of welded construction to accept one- or two-winged doors.
With mounting supports for up to seven fan chassis.
To be used as stiffening back for heavy duty server racks UPS, etc.
Door frame to be mounted to depth profiles with just four screws.
Paint free mounting contact surfaces.
The frame extends the usable depth by 45 mm in Zone 2.
Material thickness 1.5 mm
Powder coated RAL 7035
Paint free contact surfaces

Deliverables:
Includes mounting hardware
1 pc

		part. no.
	42U	**9168-7542-70-07**
	45U	**9168-7545-70-07**

Closure facing

Description

Rear closure facing to accept one- or two-winged doors – two pcs. needed.
Closure facing can be used as horizontal upper strut with open distribution racks.
Requires only two screws for attachment at top and bottom depth profiles.
Paint free mounting contact surfaces.
The frame extends the usable depth by 45 mm in Zone 2.
Material thickness 1.5 mm
Powder coated RAL 7035
Paint free contact surfaces

Deliverables:
Includes mounting hardware
1 pc.

	part. no.
	9168-7510-02-07

Side walls

Description		part. no.
Sidewalls insertable at bottom; snaps in at top and uses lockable rotating knob. Automatic grounding via insert clamps. Made with two added bends beyond 460mm depth applications. Material thickness 1 mm Powder coated RAL 7035 Paint free contact surfaces	42U, depth-285 mm	9128-7042-28-67
	42U, depth-330 mm	9128-7042-33-67
	42U, depth-460 mm	9128-7042-46-67
	42U, depth-502 mm	9128-7042-50-67
	42U, depth-547 mm	9128-7042-55-67
	42U, depth-680 mm	9128-7042-68-67
Deliverables: Includes locking hardware One key Loose mounting brackets One set = 2 pcs.	45 U, depth-285 mm	9128-7045-28-67
	45 U, depth-330 mm	9128-7045-33-67
	45 U, depth-460 mm	9128-7045-46-67
	45 U, depth-502 mm	9128-7045-50-67
	45 U, depth-547 mm	9128-7045-55-67
	45 U, depth-680 mm	9128-7045-68-67

Top Covers with brush strip

Description		part. no.
Top cover with left and right cut-outs for cable entry, both with adjustable brush strip, with twin grounding fingers and stops. For 460 mm depth version added punched openings for filter fan type FL1 Material thickness 1 mm Powder coated RAL 7035	depth 165 mm for max. 384 data cable	9168-7501-16-47
	depth 217 mm for max. 384 data cable	9168-7501-21-47
	depth 230 mm for max. 384 data cable	9168-7501-23-47
	depth 330 mm for max. 576 data cable	9168-7501-33-47
	depth 460 mm for max. 576 data cable	9168-7501-46-47
Deliverables: Includes two mounted brush strips and assembly hardware. 1 pc		

Closed top covers

Description		part. no.
Closed cover with twin grounding tabs and stops. 300 mm and deeper top covers come with 3 knock-outs for Type FL1 filter fans Material thickness 1 mm Powder coated RAL 7035	depth 165 mm	9168-7501-16-07
	depth 217 mm	9168-7501-21-07
	depth 230 mm	9168-7501-23-07
	depth 285 mm	9168-7501-28-07
Deliverables: Includes assembly hardware 1 pc	depth 330 mm	9168-7501-33-07
	depth 460 mm	9168-7501-46-07

Top covers with knock-outs for filter fans

Description		part. no.
Top cover with knock-outs for type FL-1 filter fans and dual ground connections 460 mm depth cover in two versions Material thickness 1 mm Powder coated RAL 7035	depth 165 mm	9168-7501-16-27
	depth 217 mm	9168-7501-21-27
	depth 230 mm	9168-7501-23-27
Deliverables: Includes assembly hardware 1 pc.	depth 330 mm	9168-7501-33-07
	depth 460 mm	9168-7501-46-07
	depth 460 mm	9168-7501-46-47
	brush strips optional	

2

IT-RACK accessories

Top or bottom cover with brush strip

Description		part. no.
Top and bottom cover with left and right cut-outs for cable entry, both with adjustable brush strip. Contact achieved at assembly with a contact washer Material thickness 1.5 mm Galvanized	depth 285 mm for max. 576 data cable	**9168-7501-28-57**
Deliverables Includes two mounted brush strips and assembly hardware. 1 pc		

Closed top and bottom covers

Description		part. no.
Top and bottom cover Contact achieved at assembly with a contact washer Material thickness 1 mm Galvanized	depth 285 mm	**9168-7501-28-17**
	depth 460 mm	**9168-7501-46-17**
Deliverables Includes mounting hardware. 1 pc		

Top or bottom covers with knock-outs for filter fans

Description		part. no.
Top and bottom cover with 3 knock-outs for type FL-1 filter fan Contact achieved at assembly with a contact washer' in appropriate place Material thickness 1,5 mm Galvanized	depth 285 mm	**9168-7501-28-37**
	depth 330 mm	**9168-7501-33-37**
	depth 460 mm	**9168-7501-46-37**
Deliverables Includes mounting hardware. 1 pc		

Bottom cover with adjustable ventilation

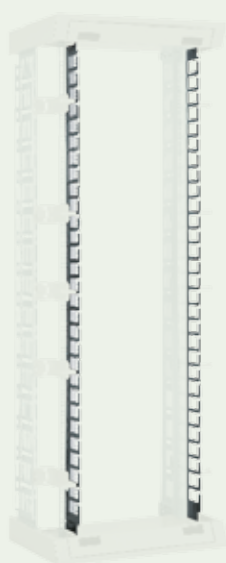| Description		part. no.
Bottom cover with partition for continuous adjustment for passive ventilation; Max. 40% clear opening.. Contact achieved at assembly with a contact washer Material thickness 1 mm Galvanized	depth 460 mm	**9168-7501-46-77**
	depth 550 mm	**9168-7501-55-77**
Deliverables Includes mounting hardware. 1 pc		

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Plastic cable finger strips
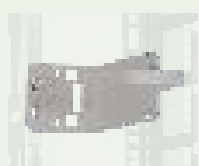
Description

Simple, flexible cable guidance over the entire rack height.
Secure transition of cable bundles of individual subassemblies from Zone 1 to Zone 3.
Economical gain from bundling via cable finger strips.
Material thickness 4 mm
Black color

	part. no.
42U	**9138-0042-00-06**
45U	**9138-0045-00-06**

Deliverables
Includes mounting hardware.
One set = 2 pcs.

Cable guidance bracket

Description	Width	combined with		part. no.
		depth profile	cable carrier	
	213 mm	TP 330	165 front mounting	**9128-0007-21-07**
	241 mm	TP 285	230 rear mounting	**9128-0007-24-07**
	289 mm	TP 330	230 rear mounting	**9128-0007-28-07**
	354 mm	TP 330	165 rear mounting	**9128-0007-35-07**

Size of Zone 3 is determined by choice of cable guidance brackets.
Optimal quantity and management of large cable bundles achieved by combining depth profile, suitable cable carrier and top/bottom cover.
Material thickness 1,5 mm
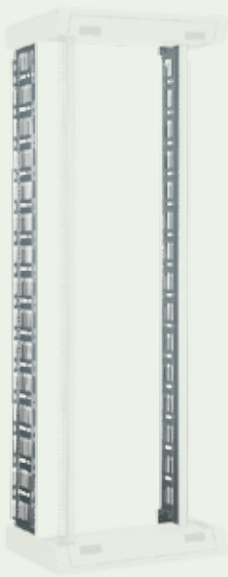Powder coated RAL 7035

Deliverables
Includes mounting hardware.
One set = 10 pcs.

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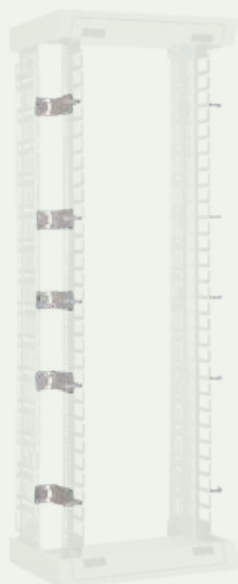
IT-RACK accessories

Cable carrier

Description		for cable arrangement	part. no.
	42U, B-69 mm		**9128-7442-06-03**
	42U, B-133 mm	12 data cables per layer	**9128-7442-13-03**
	42U, B-165 mm	16 data cables per layer	**9128-7442-16-03**
	42U, B-230 mm	24 data cables per layer	**9128-7442-23-03**
	45U, B-69 mm		**9128-7442-06-03**
	45U, B-133 mm	12 data cables per layer	**9128-7445-13-03**
	45U, B-165 mm	16 data cables per layer	**9128-7445-16-03**
	45U, B-230 mm	24 data cables per layer	**9128-7445-23-03**

Cable carriers serve several important functions within zone 5.
They form the basis for several 19" levels. They also determine the connectable data cable bundles onto patch fields, etc., by selecting a specific width. A strong C-profile includes this hole pattern:
9.5 mm2 for 19" raster for accepting the deep depth extender,
U-brackets and 19" L-rails.
Beyond inside width 133mm several T-nuts used for flexible mounting of 19" profiles and cable mounting kits for cable management.
Cable carriers also define zone 4, when infrastructure is important for power input of IT racks.
Material thickness 1,5 mm
Galvanized

Deliverables
Includes mounting hardware.
1 set = left and right pcs.

Cable mounting set

Description	fits cable carrier	for cable arrangement	part. no.
	133 mm	12 data cables per layer	**9118-7133-02-00**
	165 mm	16 data cables per layer	**9118-7165-02-00**
	230 mm	24 data cables per layer	**9118-7230-02-00**

Fitting to the width of cable carrier.
Cable mounting sets enable optimal spatial use for cable management within zone 5.
Maximum vertical distance 300 mm between two sets..
Material thickness: 1,5 mm
Galvanized

Deliverables
Four flat clamps, two threaded rods M6 x 120mm with red caps; 10 locknuts M6.

Flat clamps

Description	fits cable carrier	for cable arrangement	part. no.
	133 mm	12 data cables per layer	**9118-7133-01-00**
	165 mm	16 data cables per layer	**9118-7165-01-00**
	230 mm	24 data cables per layer	**9118-7230-01-00**

For expanding cable arrangement of the cable mounting set
Material thickness 1,5 mm
Galvanized

Deliverables
10 flat clamps, 20 locknuts M6

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Flat spacer

Description	fits cable carrier	for cable arrangement	part. no.
Foam spacer used as added data cable protection for arranging cables with cable mounting set.	133 mm	12 data cables per layer	**9138-0133-00-70**
	165 mm	16 data cables per layer	**9138-0165-00-70**
	230 mm	24 data cables per layer	**9138-0230-00-70**

Deliverables
1 set = 100 pcs.

19" profile

Description		part. no.
19" profile for zone 5; with multiple bends to permit heavy localized loading. Stepless mounting along depth profile. Raster pattern 9.5 mm2 with U marking. Added hole pattern for attaching partition panels and other accessories. Profile forms cable channel with large openings for distribution fore and aft. Material thickness 1,5 mm Galvanized	14U	**9128-7214-00-03**
	42U	**9128-7242-00-03**
	45U	**9128-7245-00-03**

Deliverables
Includes mounting hardware.
1 set = left and right pcs.

19" L-rail

Description		part. no.
19" L-rail for zone 5. Raster pattern 9.5 mm2 with U marking. Added hole pattern for attaching partition panels and other accessories. Stepless mounting along depth profile; mounting to cable carrier with U-brackets. Material thickness 1,5 mm Galvanized	3U	**9128-7303-00-03**
	42U	**9128-7342-00-03**
	45U	**9128-7345-00-03**

Deliverables
Includes mounting hardware.
1 set = left and right pcs.

IT-RACK accessories

U-bracket

Description

U-bracket with notches for hanging cable carriers.
Optional added safe attachment with locking screws M6 x 12mm
Special hole pattern ensures U forming mounting of 19" L-rails.
Sides with 19" raster holes 9.5 mm for vertical mounting of 19" acces-
sories, like power strips.
Material thickness 1,5 mm
Galvanized

fits cable carrier	part. no.
69 mm	**9128-7008-06-03**
133 mm	**9128-7008-13-03**
165 mm	**9128-7008-16-03**
230 mm	**9128-7008-23-03**

Deliverables
Incl. Locking screws
1 set = 8 pcs.

Partition panels

Description

19" partition panels used as inserts.
Flexible mounting to 19" profiles, U-brackets or depth extender
at multiple attachment points.
Includes ventilation slits.
25 kg/55lbs capacity
Material thickness 2 mm
Powder coated RAL 7035

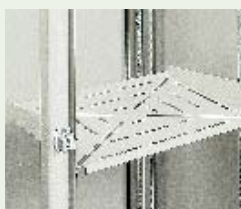|	part. no.
Usable surface: 474 x 450 mm	**9128-0245-45-07**
Usable surface: 474 x 800 mm	**9128-0245-80-07**

Deliverables
Includes mounting hardware.
1 pc

Intermediary panels

Description

Intermediary panels 2 U
For mounting to 19" front.
Clip nuts M6 suggested for mounting and stepless attachment of
parts onto intermediary panels
Material: steel 2mm thick
Height 2 U
Capacity 25 kg/55lbs
Powder coated RAL 7035

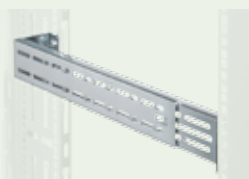|	part. no.
Usable surface: 448 x 300 mm	**2010-7262-30-17**

Deliverables
1 pc complete

Depth depth extender

Description

depth extender for fastening of partition panels.
Mounting to frontal 19" profiles, to cable carrier at rear.
Capacity 60 kg/132lbs
Material thickness 1,5 mm
Galvanized

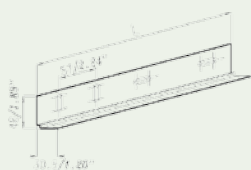|	part. no.
Stepless extension from 456 – 828 mm	**9128-0045-82-03**

Deliverables
Includes mounting hardware.
1 set = 2 pcs.

Rails

Description

Rails for carrying heavy 19"inserts.
Mounting to 19" frontal profiles.
Material thickness 1,5 mm
Galvanized

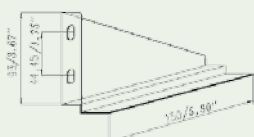|		part. no.
	L-210	**0317-7001-16-01**
	L-310	**0317-7001-16-02**
	L-410	**0317-7001-16-03**

Deliverables

One pair of rails (1 ea. left and right with mounting hardware)

Rails

Description

Rails for 19" inserts
Usable for all 19" profiles 3U and higher
Material thickness 1,5 mm
Galvanized

		part. no.
	L-150	**0361-9001-50-03**

Deliverables

One pair of rails (1 ea. left and right with mounting hardware)

Power strip

Description

Housing of high quality aluminum with safety receptacles DIN 49440, 250V, 16A; 2m long Cord H05WVV-F3G 1.5 mm2; replaceable.
Receptacle orientation at 45 degrees.
Light gray, similar to RAL 7035
19" front mounting plate anodized 3mm thick

		part. no.
	483/19,02"	**9000-0000-05-03**

Deliverables

19" power strip incl. two mounting brackets, for mounting to 19" racks

2

IT-RACK accessories

Fan chassis

Description		part. no.
Fan chassis with four fan motors and protection screen, both sides. For suspension within door frame; complete, with thermostat and power plug. Material thickness 1,5 mm Powder coated RAL 7035	400 m³/h, 42 dB	**3114-9119-75-07**

Deliverables
Compete for connection, with thermostat, 1m cord and plug
1 pc

Fix-Filter fan FL1

Description	Color	weight		voltage	frequency	
	RAL	kg	lbs	V	Hz	**part. no.**
	Gray or 7035	0,72	1,59	230	50/60	**3159-0128-23-71**
	Gray or 7035	0,72	1,59	115	50/60	**3159-0128-11-71**

Snap-in mounting secured by integral V2A stainless steel springs.
No added screw attachment needed.
Flat design of 4 to 6 mm thickness outside.
Two grooves permit easy access for filter exchange.
Keyed to prevent wrong insertion of frontal screen
Power: 19/15W (24 VDC 7.4W)
Free air flow 160/180 m3/hr (94/106cfm), with filter screen EU3 40/43 m3/hr
Noise level 46/50 dB(A)
IP44/54 protection
Temperature –10 to +55 deg C
Motor connection: flat plug 2.8 x 0.5 (24VDC: 300mm leads)
Motor registration DE, CE. UL, CSA
Material: plastic ABS RAL 7030 gray or RAL 7035 fire suppressing UL 94 V-0
Options: Temperature controller 3159-9003-10-01 and 3159-9004-10-01, Power cable, Miniature thermostats, Fixed thermostats

Deliverables
1 pc. With filter screen EU3

Replacement filter screen

Description	filter class	part. no.
	EU3	**3159-9003-10-01**

Deliverables
1 set= 10 pcs.

![hawa logo]

19" Rack mount heat exchanger WE2800 V

Description	Width		height		depth		weight		voltage	Frequenz Hz	part. no.
	mm	inch	mm	inch	mm	inch	kg	lbs	voltage	Hz	part. no.
	444	17.48	170	6.69	460	18.11	13.7	30.21	230	50/60	**3117-2800-23-07**

For use with cooling water
This air/water heat exchanger is built as 19" depth extender 4U and usable,
where cold water is available as cooling medium.
Frontal air exhaust – high air volume
A thermostatically controlled valve – with checking feature – is built in to
save water and to prevent excessive cooling.
The temperature can be controlled to between +10 and +50 deg C, locally
anywhere within an enclosure.
Separate cable for thermostat.
105 W power usage
Nominal current 0.49A
Cooling capacity with L35W10: 200 l/hr: 2500W; 400 l/hr: 2800W;
Air flow 450 m3/hr(266cfm)
Noise level 40 dB(A)
Max. ambient temp. +57 deg C
Clean water used for cooling
Pressure 10 bar max.
Water connection: WE2800V: 3/8" internal thread
Condensate drain tube 10 mm dia.
Frontal dimensions, including handle 19"/4U: WxHxD = 483x177x44 mm
CE approved
Materials:
Heat exchanger copper/aluminum
Housing/cover/front: steel 1 mm, powder coated RAL 7035

Deliverables
Rack mount heat exchanger drawer
Two power cables
Thermostat with hat section rail
Mounting hardware

Temperature controller

Description	width		height		depth		weight		part. no.
	mm	inch	mm	inch	mm	inch	kg	lbs	part. no.
	37	1.46	64	2.52	46	1.81	0.06	0.03	**3150-0061-02-30**

Temperature controller with switching contact and thermal compensation (small
switching hysteresis)
Temperature controller for regulating enclosure heaters, filter fans, fan racks, heat
exchangers, etc.
Ratcheting adjustment knob; gray dial
Thermal compensation built in
Simple attachment by snap-on to 35 mm rails per DIN 50022
Control range 0 to +60 deg C
Storage temp. −20 deg C. to +80 deg C
Switching power (100 – 250 VAC):
Heating (open) 10A or DC 30W
Cooling (close) 5A or DC 30W
Switching hysteresis: approx. 5 deg K or 1 deg K with thermal compensation
Contact type: switch
Connection: four screw clamps 2.5 mm2
Sensor: bimetal
Life: >100,000 actuations
IP 20 protection
VDE, UL approved
Material: plastic light gray, UL94 V-O

Deliverables
Temperature controller with snap-on mounting

2

IT-RACK accessories

Miniature thermostats

Description	Width		height		depth		weight		contact	usage	part. no.
	mm	inch	mm	inch	mm	inch	kg	lbs			
	37	1,46	64	2,52	46	1,81	0,06	0,13	close	cooling	**3150-2060-02-30**

Thermostatically closing (blue dial) for controlling of filter fans, air cooling depth extenders, heat exchangers, etc.
Range: 0 deg to +60 deg C
Storage temperature –20 to +80 deg c
Ambient temperature 0 deg to +60 deg C
Switching power (100 to 250 VAC):
Ohm load: 10 A
Inductive load: 2 A
DC 30W
Switching hysteresis 4 to7 deg K
Contact type: closing
Connections: two screw clamps 2.5 mm2
Sensor: bimetal
Life: >100,000 actuations
IP 20 protection
VDE, UL approved
Material: plastic light gray, UL94 V-O

Deliverables
Temperature controller with snap-on mounting

Fix-Thermostat FTS

Description	Width		height		depth		weight		switch-on	part. no.
	mm	inch	mm	inch	mm	inch	kg	lbs	°C	
	47	1,85	33	1,3	33	1,3	0,02	0,04	35	**3150-4035-00-00**
	47	1,85	33	1,3	33	1,3	0,02	0,04	50	**3150-4050-00-00**
	47	1,85	33	1,3	33	1,3	0,02	0,04	60	**3150-4060-00-00**

NO (Normally Open) for controlling of filter fans, heat exchangers, air conditioners and for signaling at excessive temperature.
Contact closing at increased temperature.
Switch-off at 50/60/35 deg C (+/- 4 deg K)
Switch-on at 40/50/25 deg C (+/- 5 deg K)
IP 20 protection
Approval: planned VDE and UL
Material: plastic, light gray UL94 V-O

Deliverables
Fixed thermostat with quick mounting

Motor cables

Description	Type	part. no.
Type: 2-pole with molded-on plug, black PVC, 1m.	2-pole	**3140-0000-01-00**
Type: 3-pole with sleeved lead and insulated Fast-on plugs 2.8 x 0.5 and ground lead with circular plug; 3m length	3-pole	**3140-0000-03-00**

Deliverables
1 pc

Cross-strut

Description	part. no.
Cross-strut for stiffening the ends of depth profile, also connection between successively mounted depth profiles. Top and bottom mountable. Secure contact with contact washers. Material thickness 1,5 mm Powder coated RAL 7035	**9118-7500-01-07**

Deliverables
Includes mounting hardware.
1 pc

Clamp bracket

Description	part. no.
Small clamp bracket for row mounting. Mounting via hooking clamps into side hole pattern of depth profile, subsequently tightening of pre-mounted screw/nut Material 2 mm Galvanized	**9118-7010-00-00**

Deliverables
Pre-mounted
1 set = 4 pcs.

Floor mounting brackets

Description	part. no.
Brackets for mounting to sunken floor profile, resp. securing to pallet during transport Material thickness 1,5 mm Galvanized	**9118-7002-00-00**

Deliverables
Includes mounting hardware.
1 set = 4 pcs.

Plywood transport sheet

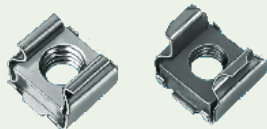| Description		part. no.
Pre-drilled plywood sheet for transport to stabilize racks without door frame, and also during moving at site. Material: untreated OSB or plywood	740x850x16 mm	**9138-8574-16-00**

Deliverables
Includes mounting hardware.
1 pc

2

IT-RACK accessories

Hardware

Description		part. no.
Clip nuts Material: steel, zinc plated	M5	**2070-9102-35-00**
	M6	**2070-9102-36-00**
Deliverables 1 set = 100 pcs.		

Caged clip nuts

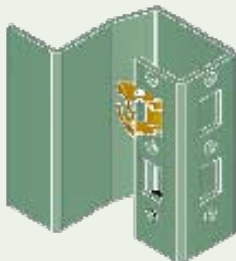| Description		part. no.
	M6	**2070-7202-06-00**
Caged clip nuts Nut insertable from front No tools needed for installation For screw attachment of all accessories onto surrounding raster hole pattern Material: steel, zinc plated		
Deliverables 1 set = 100 pcs.		

Locking screw

Description		part. no.
	M6	**0348-7500-06-12**
Serrated lock screw Material: zinc plated and blue chromated		
Deliverables 1 set = 100 pcs.		

Grounding cables

Description	part. no.
Set of grounding cables for grounding all covers in all versions	**3080-9036-95-08**

Deliverables
7 cables, including hardware and grounding labels

Locking lever

Description		part. no.
	For 1 & 2 door IT Racks	**3070-0904-55-01**

Handle for mounting to enclosure doors.
Mateable to half cylinder lock barrels DIN 18252, 40 mm long or to
cylinder head protruding up to 5mm.
Left or right side mountable.
Color: black with haewa logo

Deliverables
1 pc. Complete with gasket and hardware

Half cylinder lock barrel

Description	part. no.
	3070-0933-34-00

Half cylinder lock barrel
Matching to locking lever
Self locking insertion
Material chrome plated zinc and nickel plated brass

Deliverables
1 pc

2

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