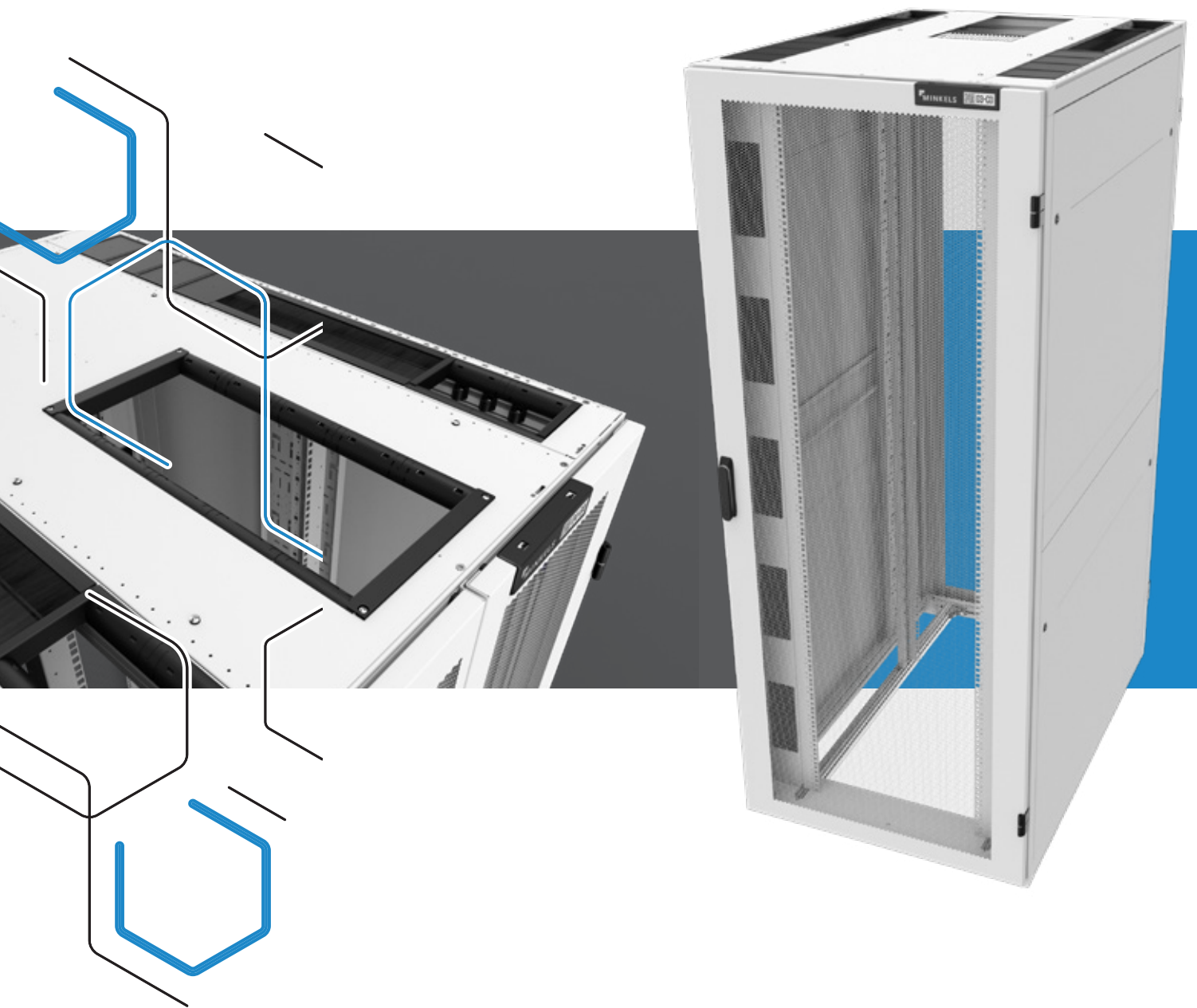


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TECHNICAL DATA SHEET
NETWORK CABINET



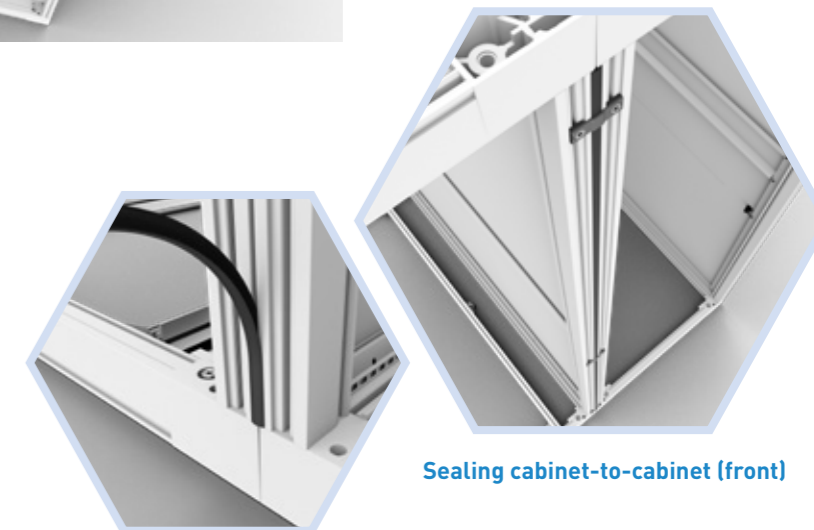
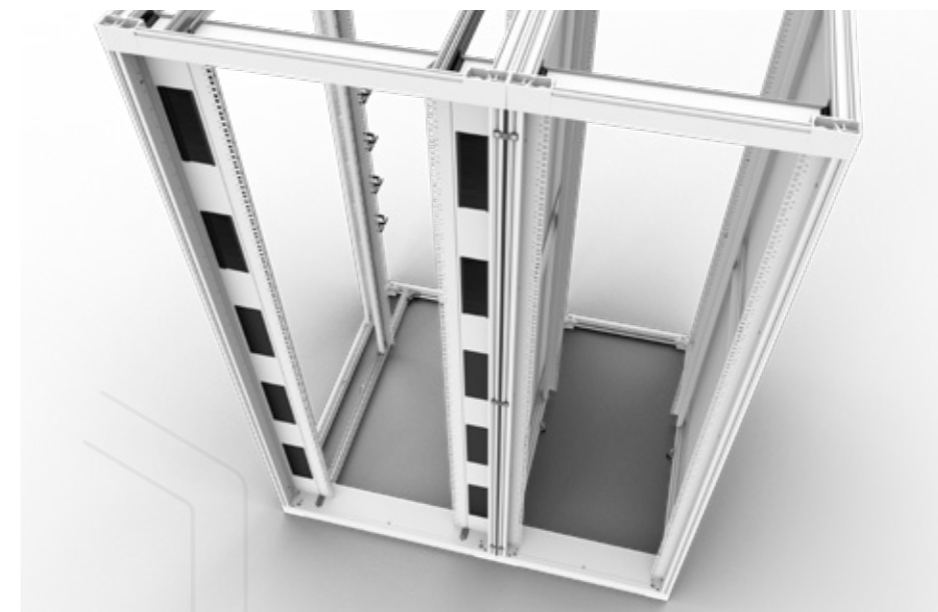
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NETWORK CABINETS

The amount of cabling in cabinets has increased considerably. To be able to continue to meet those changing needs, we have developed the **Nexpand network cabinet** with an optimized design. For example, the top-of-cabinet section contains more space to guide the cables through and the positioning of the entries is improved. Because of the modular inserts the cabinet provides optimal flexibility.



SPECIFICATIONS		
Dimensions:		
Height	U	42, 47 or 52
Height	mm	2000, 2200 or 2450 mm
Width	mm	800
Depth	mm	1000 or 1200
General:		
Colour		black or white
Static load capacity	kg	1500
Earthing		Fully earthed with central earthing point
IP grade		IP20
Standards compliancy		IEC-60297-3-109; IEC-60297-3-100
		IEC-61587-1;
		Environmental: C1, A1; Static load LT1, ST1, NL5;
Interior:		
19-inch profiles	pcs	4 • steel, powder coated
Adjustability (depth)		Stepless adjustability with depth marking
Adjustability (width)		Stepless adjustability
U marking		1st U at bottom
Position, front profiles		Pre-mounted 80 mm from the front of the door
Position, rear profiles		Pre-mounted at 740mm pitch
Frame:		
Material		Aluminium extrusions
Finishing		Powder coated
Front/rear closure:		
Front door		80% perforated <u>single</u> front door
Rear door		80% perforated <u>single</u> rear door OR 80% perforated <u>double</u> rear door
Security		2-Points Fix-Easy swivel handle with an EK-333 cylinder lock / blind stop
Material		Steel
Finishing		Powder coated
Hinges		Easily reversable and fast placement • Max. rotation degree 260°
Left/right closure:		
Material		Aluminium extrusions
Finishing		Powder coated
Roof:		
Modularity		Modular inserts per 100 mm
Inserts:		Cover panels, cable entry guides and brushes
Cover panels		Possibility to 'break' 1x 200 mm to 2x 100 mm • Material: ABS • Flammability: UL 94 V-0
Cable entry guides		Material: ABS • Flammability: UL 94 V-0



Sealing cabinet-to-cabinet (front)

The **Nexpand network cabinets** are available in various types. **A standard version, a version with side panels, airflow package and /or cable tray.**

SIDE PANEL

A side panel is especially used for end-of-row applications to aesthetically cover the side of the cabinet. The panel is horizontally divided for easy handling. Side panels are equipped with quarter turn locks.

AIRFLOW MANAGEMENT

Airflow management is the efficient guidance of the various airflows in data centers to keep the cold and hot air separated optimally. To optimize that cooling process, air leakage and recirculation must be minimized by using an airflow management package. Airflow management packages consist of a plate on the bottom, top, left and right. The airflow management package enables an air tight adjustability in the depth direction of 150 mm.

CABLE TRAY

Structured cabling is important for the reliability and optimum performance of your data center. The cable tray is used for vertical cable management and is steplessly adjustable in depth direction. Cables can be attached to the tray using tie-wraps and/or Velcro. Additionally plastic 1U cable rings can be toolless mount to the cable tray.



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NETWORK CABINETS General features

FRAME

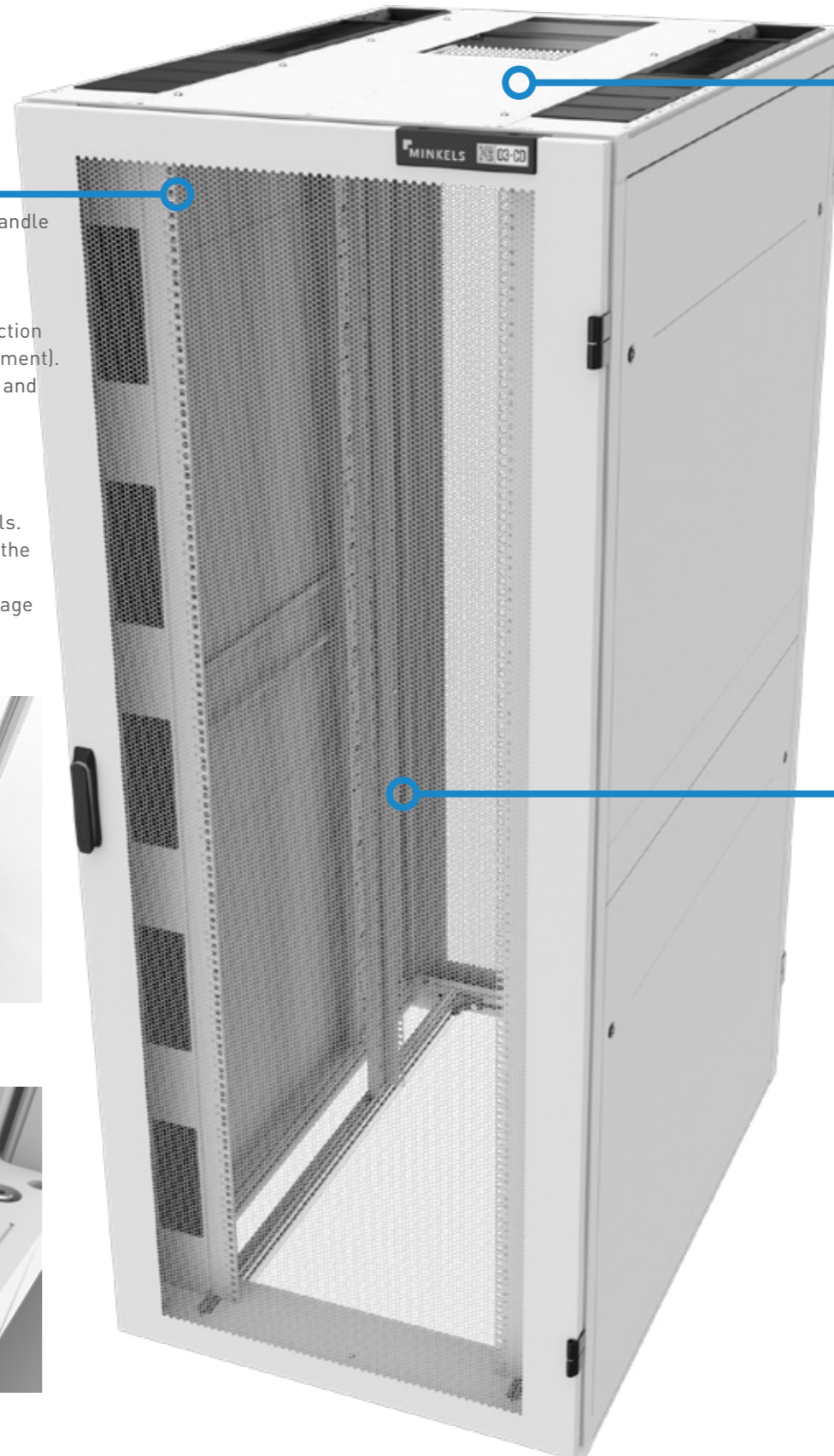
- Light and solid aluminium frame with the capability to handle 1500 kg of static load.
- Offers unique flexibility through stepless mounting possibilities in all three dimensions of the cabinet.
- Threaded mounting rails in width, depth and height direction enable stepless adjustability (for example cable management).
- Integrated T-slots provide stepless adjustability in depth and width direction (for example vertical mounting rail adjustment).
- Nearly all accessories and components accessible from inside of the cabinet.
- The cabinet is ready for placement of slide-in-side panels. This feature provides separation of cabinets, even after the cabinets are already installed and bayed.
- Upgrade the energy efficiency by adding an airflow package in a later stage is possible.



Slide-in side panel ready (rear)



Depth marking placed on depth profiles
Stepless adjustability in depth direction



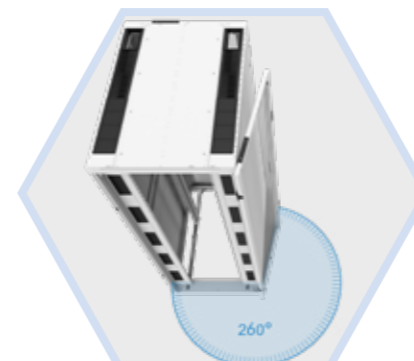
ROOF

- Extra cut-out in the middle for cable management (high-volume), brushes or fan-unit.
- Solid platform for installation top of cabinet infrastructure.
- Roof inserts follow a multiple of 100 mm.
- Nearly full-depth cut-out.
- Optimal accessibility for cabling.
- Optimal positioning for PDU's.
 - Up to 32A plugs shall fit.
- Cable pull relief available.
- Cable dividers on top of cabinet follow the same modularity as the inserts.
 - Extendable per cabinet to create a cable duct system.
 - Cover plates and end covers available for dust/debris protection and airtight solutions.
 - Powder coated in same color as cabinet.
- Roof is compliant with hot/cold aisle containment.



DOOR

- Predefined position for identification.
 - Place serial numbers, barcodes or QR codes to code and personalize your cabinets.
- Clean and minimalistic design.
- Easy door installation.
- High level perforation.
- Full integration of the locking mechanism and cabling (in case of smart lock).
- High level access security.
- Support of different types of locking possible.
- Replacement of locking through detachable cover plate rear.
- Door easily reversible (left/right hinged).
- Door can open 165° in case of bayed cabinets.
- Door can open 260° in case of stand-alone cabinets.



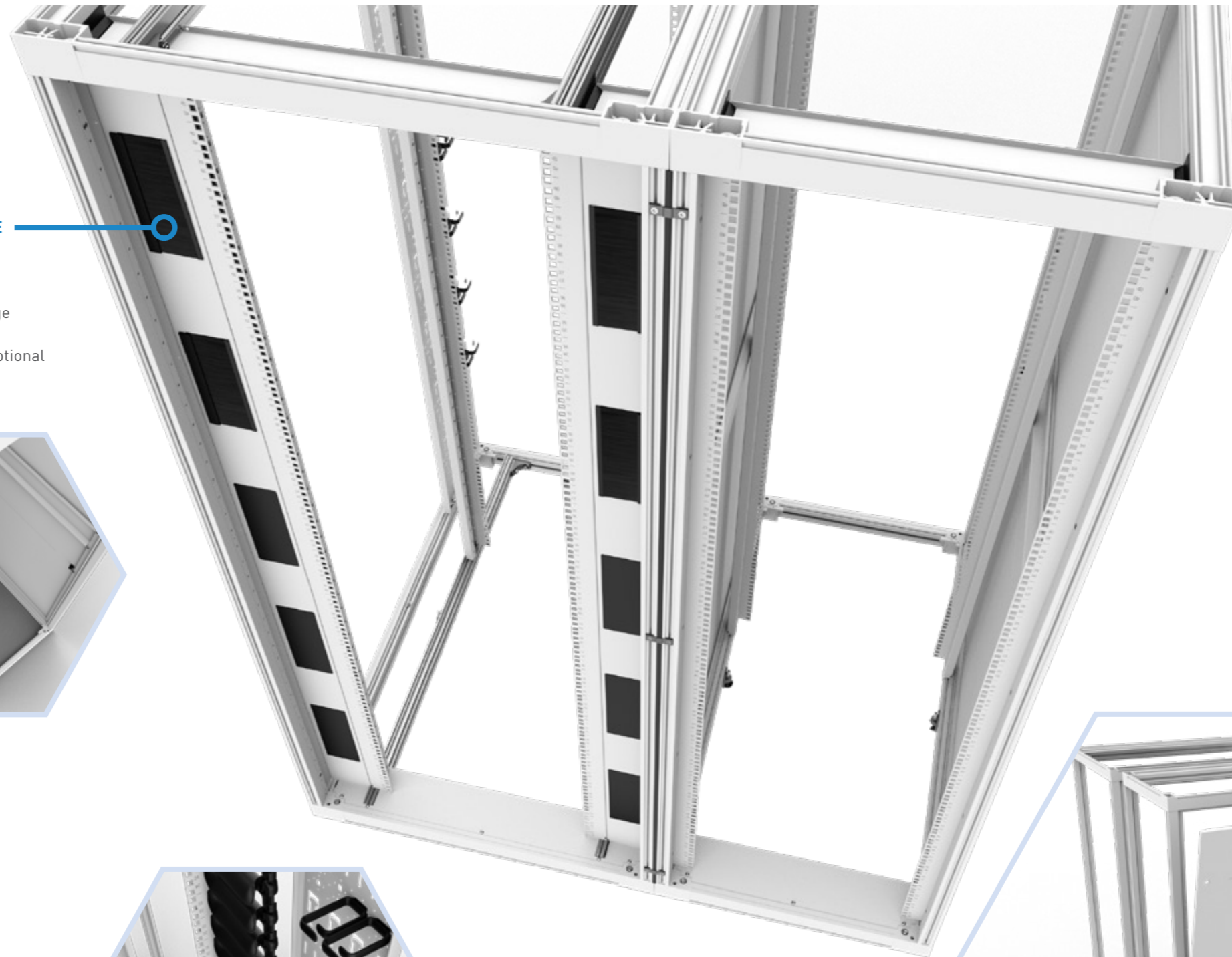
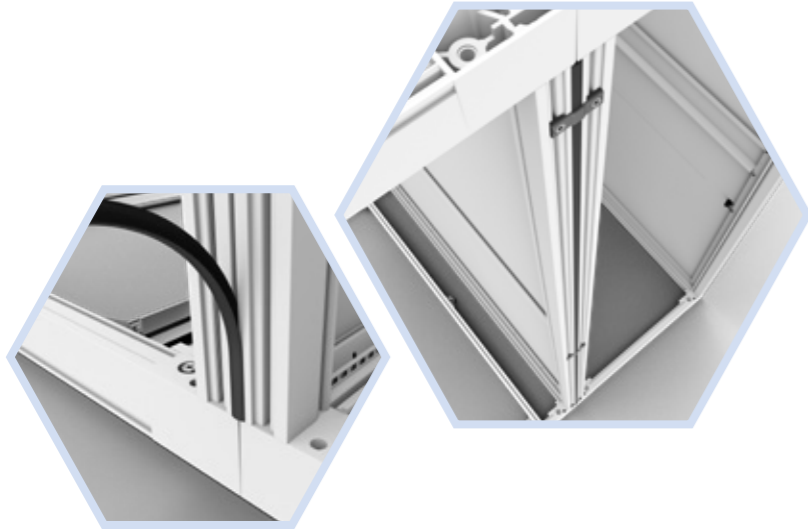
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NETWORK CABINETS

Unique features

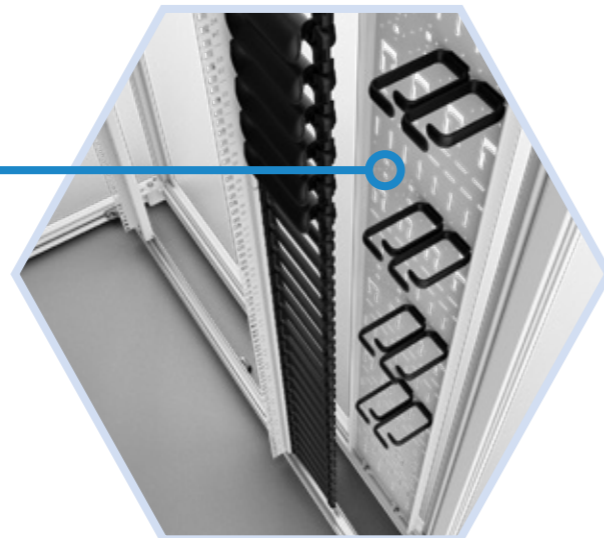
NETWORK CABINETS WITH AIRFLOW MANAGEMENT PACKAGE

- Best in class air tightness
- Keep flexibility in adjusting vertical mounting rails without compromising on air tightness.
- Upgrade the energy efficiency by retrofitting an airflow package
- Sealing cabinet-to-cabinet is optional
- Sealing cabinet-to-floor and cabinet-to-aisle containment is optional



NETWORK CABINETS WITH CABLE TRAY

- Stepless adjustability in depth direction
- Multifunctional cable tray to organise your cabling
 - using tie-wraps and/or Velcro
 - 1U plastic cable ring, toolless mount



NETWORK CABINETS WITH SIDE PANEL

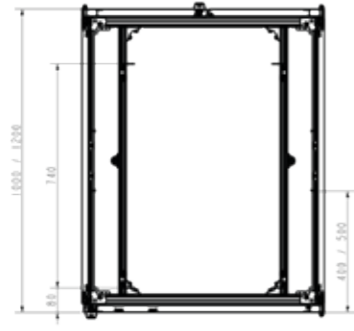
- Side panels are used when stand-alone is preferred or when the cabinet is placed at the end of the row
- Earthing connection is established when locking the panels
- Horizontally divided panels for easy handling



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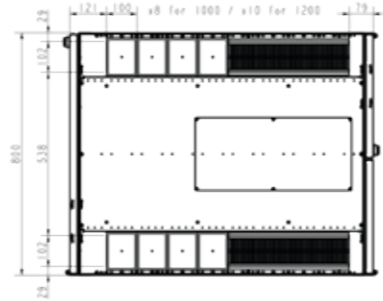
NETWORK CABINET WITH CABLE TRAY 800 MM WIDE

Position vertical mounting rail

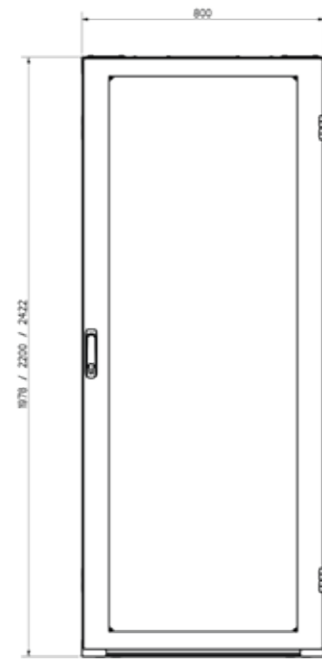
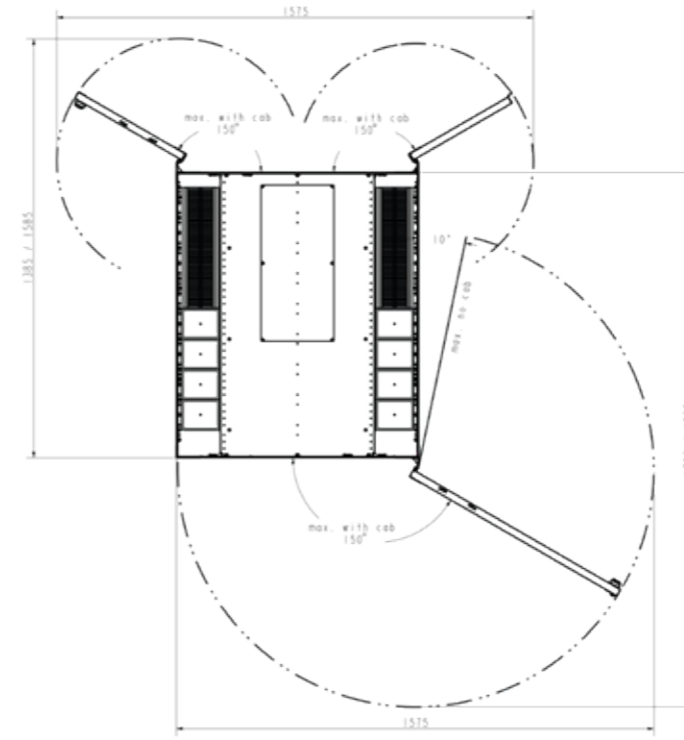
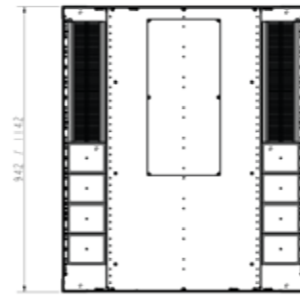


A-A

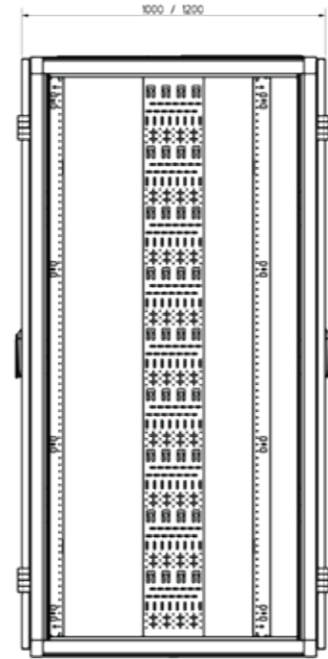
Top view



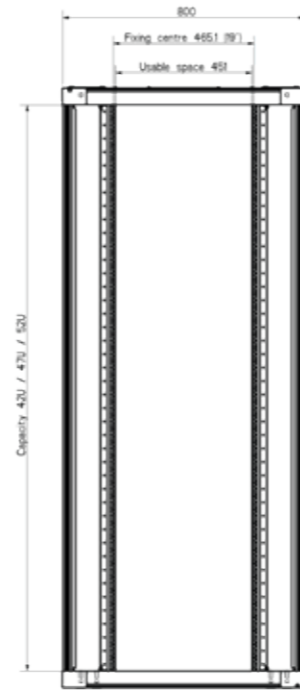
Top view



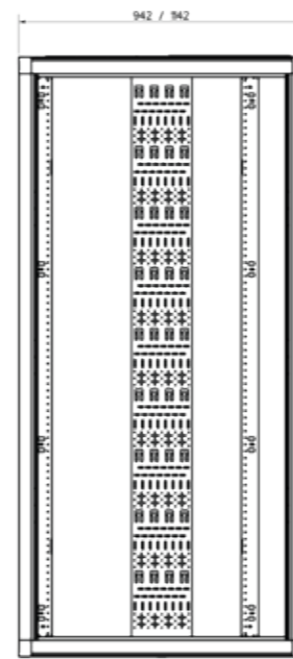
Total height



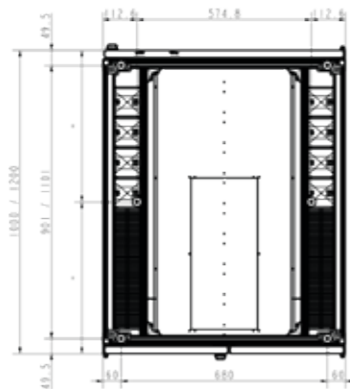
Side view with door



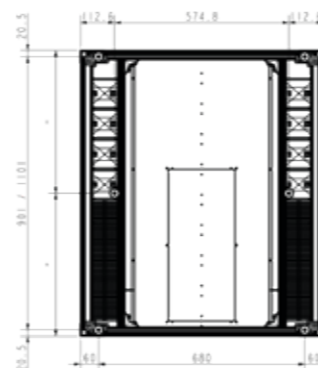
Front view



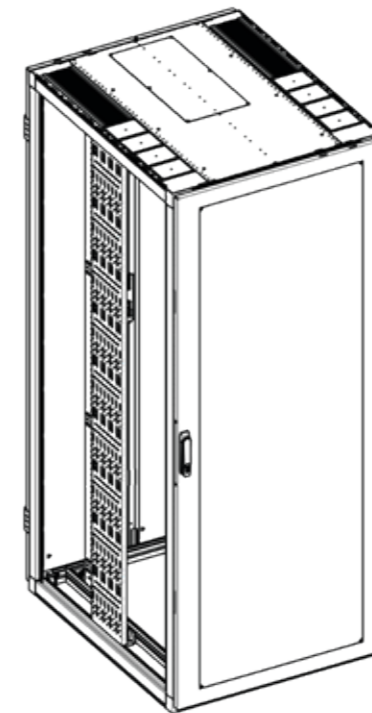
Side view without door



Bottom view

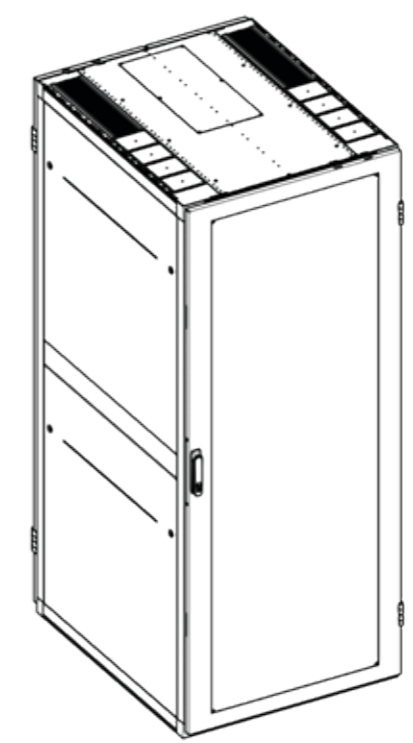
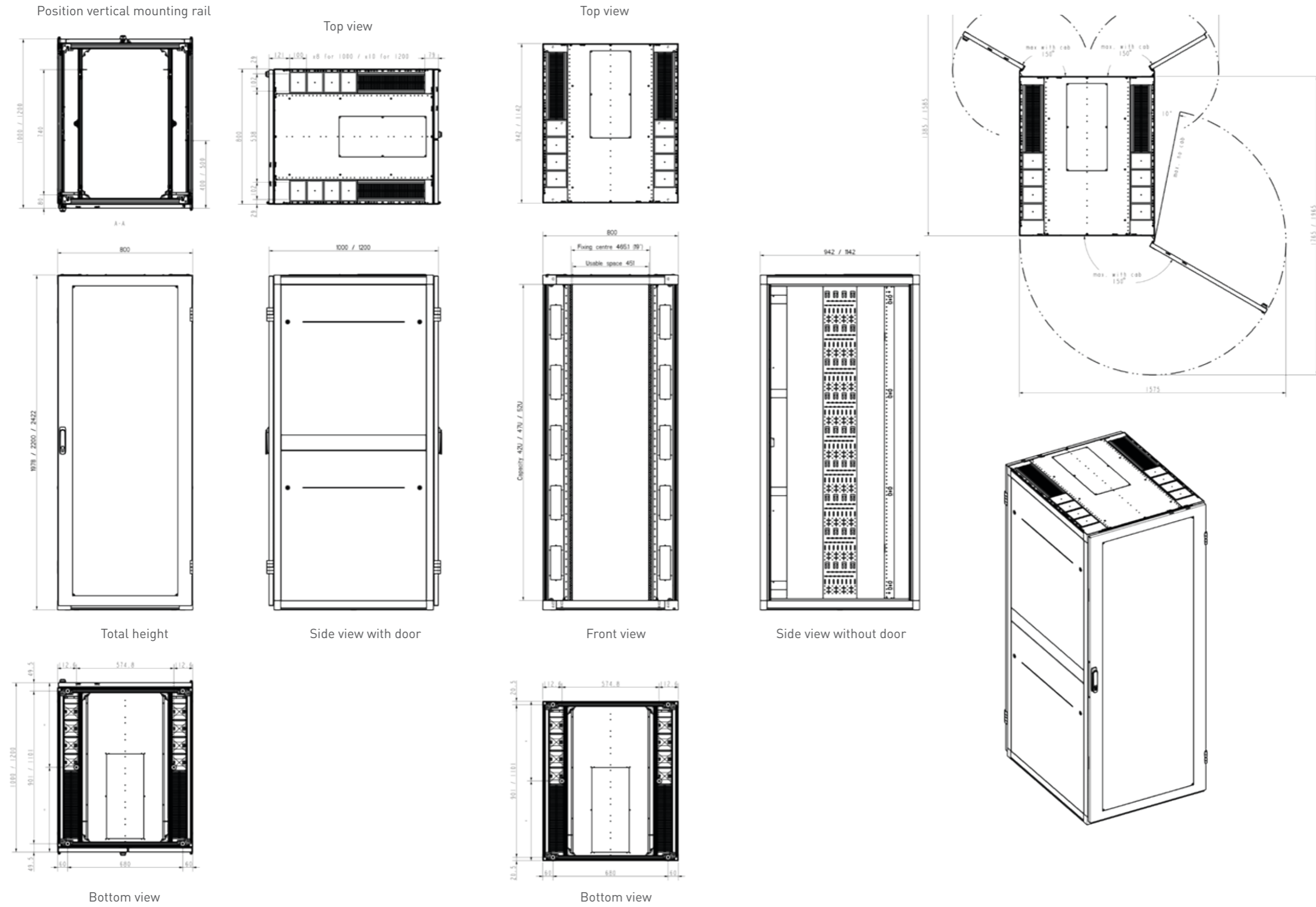


Bottom view



NEXPAND

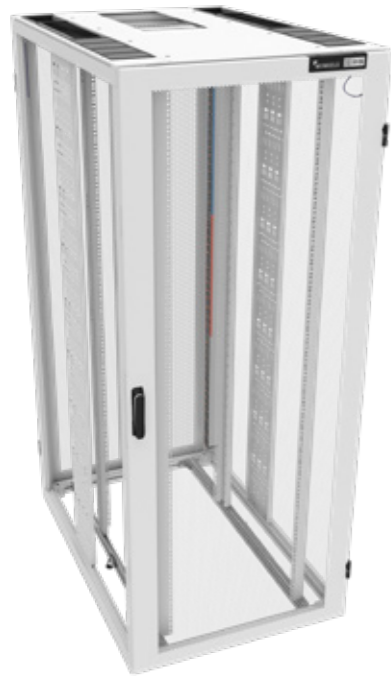
NETWORK CABINET WITH AIRFLOW MANAGEMENT PACKAGE, CABLE TRAY AND SIDE PANELS 800 MM WIDE



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Network cabinet

- Cable tray



80% perforated single front door
80% perforated single rear door

Height	Width (mm)	Depth (mm)	Black	White
42 U	800	1000	B1109-081042-000111	B1104-081042-000111
		1200	B1109-081242-000112	B1104-081242-000112
47 U	800	1000	B1109-081047-000113	B1104-081047-000113
		1200	B1109-081247-000114	B1104-081247-000114
52 U	800	1000	B1109-081052-000115	B1104-081052-000115
		1200	B1109-081252-000116	B1104-081252-000116

80% perforated single front door
80% perforated double rear door

Height	Width (mm)	Depth (mm)	Black	White
42 U	800	1000	B1109-081042-000135	B1104-081042-000135
		1200	B1109-081242-000136	B1104-081242-000136
47 U	800	1000	B1109-081047-000137	B1104-081047-000137
		1200	B1109-081247-000138	B1104-081247-000138
52 U	800	1000	B1109-081052-000139	B1104-081052-000139
		1200	B1109-081252-000140	B1104-081252-000140

Network cabinet

- Side panels
- Cable tray



80% perforated single front door
80% perforated single rear door

Height	Width (mm)	Depth (mm)	Black	White
42 U	800	1000	B1109-081042-000123	B1104-081042-000123
		1200	B1109-081242-000124	B1104-081242-000124
47 U	800	1000	B1109-081047-000125	B1104-081047-000125
		1200	B1109-081247-000126	B1104-081247-000126
52 U	800	1000	B1109-081052-000127	B1104-081052-000127
		1200	B1109-081252-000128	B1104-081252-000128

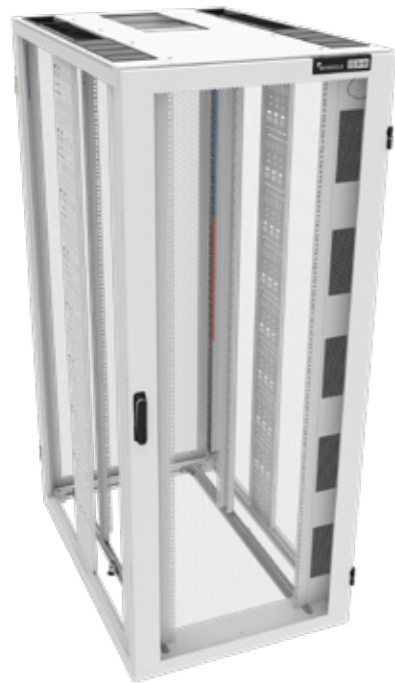
80% perforated single front door
80% perforated double rear door

Height	Width (mm)	Depth (mm)	Black	White
42 U	800	1000	B1109-081042-000147	B1104-081042-000147
		1200	B1109-081242-000148	B1104-081242-000148
47 U	800	1000	B1109-081047-000149	B1104-081047-000149
		1200	B1109-081247-000150	B1104-081247-000150
52 U	800	1000	B1109-081052-000151	B1104-081052-000151
		1200	B1109-081252-000152	B1104-081252-000152

NEXPAND

Network cabinet

- Cable tray
- Airflow management package



80% perforated single front door
80% perforated single rear door

Height	Width (mm)	Depth (mm)	Black	White
42 U	800	1000	B1109-081042-000117	B1104-081042-000117
		1200	B1109-081242-000118	B1104-081242-000118
47 U	800	1000	B1109-081047-000119	B1104-081047-000119
		1200	B1109-081247-000120	B1104-081247-000120
52 U	800	1000	B1109-081052-000121	B1104-081052-000121
		1200	B1109-081252-000122	B1104-081252-000122

80% perforated single front door
80% perforated double rear door

Height	Width (mm)	Depth (mm)	Black	White
42 U	800	1000	B1109-081042-000141	B1104-081042-000141
		1200	B1109-081242-000142	B1104-081242-000142
47 U	800	1000	B1109-081047-000143	B1104-081047-000143
		1200	B1109-081247-000144	B1104-081247-000144
52 U	800	1000	B1109-081052-000145	B1104-081052-000145
		1200	B1109-081252-000146	B1104-081252-000146

Network cabinet

- Side panels
- Cable tray
- Airflow management package



80% perforated single front door
80% perforated single rear door

Height	Width (mm)	Depth (mm)	Black	White
42 U	800	1000	B1109-081042-000129	B1104-081042-000129
		1200	B1109-081242-000130	B1104-081242-000130
47 U	800	1000	B1109-081047-000131	B1104-081047-000131
		1200	B1109-081247-000132	B1104-081247-000132
52 U	800	1000	B1109-081052-000133	B1104-081052-000133
		1200	B1109-081252-000134	B1104-081252-000134

80% perforated single front door
80% perforated double rear door

Height	Width (mm)	Depth (mm)	Black	White
42 U	800	1000	B1109-081042-000153	B1104-081042-000153
		1200	B1109-081242-000154	B1104-081242-000154
47 U	800	1000	B1109-081047-000155	B1104-081047-000155
		1200	B1109-081247-000156	B1104-081247-000156
52 U	800	1000	B1109-081052-000157	B1104-081052-000157
		1200	B1109-081252-000158	B1104-081252-000158

On www.minkels.com/technical-datasheets you will find the technical data sheets containing extensive technical information about the different Nexpanse cabinets. If you do not find the information you are looking for in these datasheets, do not hesitate to contact us. We will be happy to help you! You can find the contact details on the back side of this technical datasheet.



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