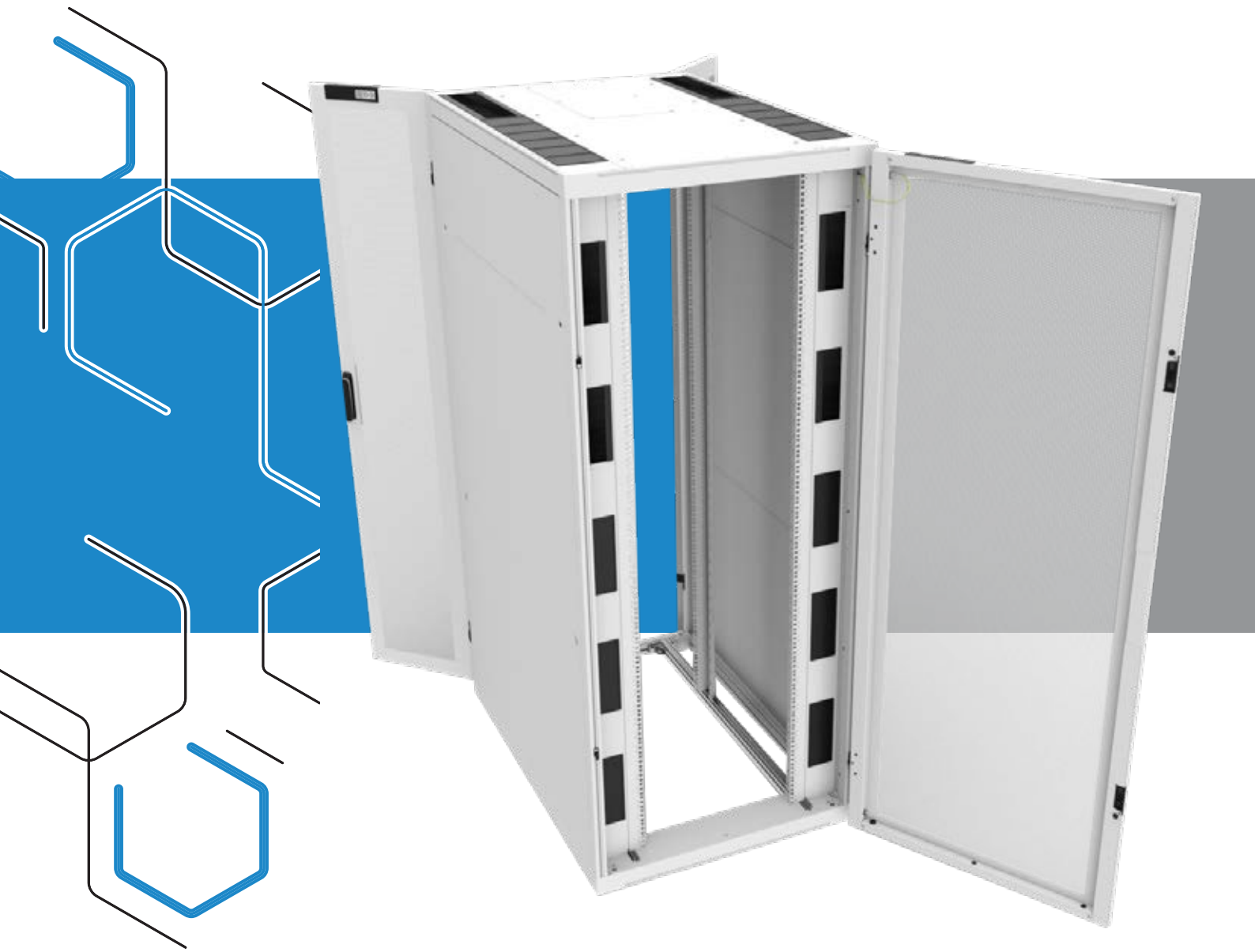
NEXPAND

SERVER & NETWORK CABINETS



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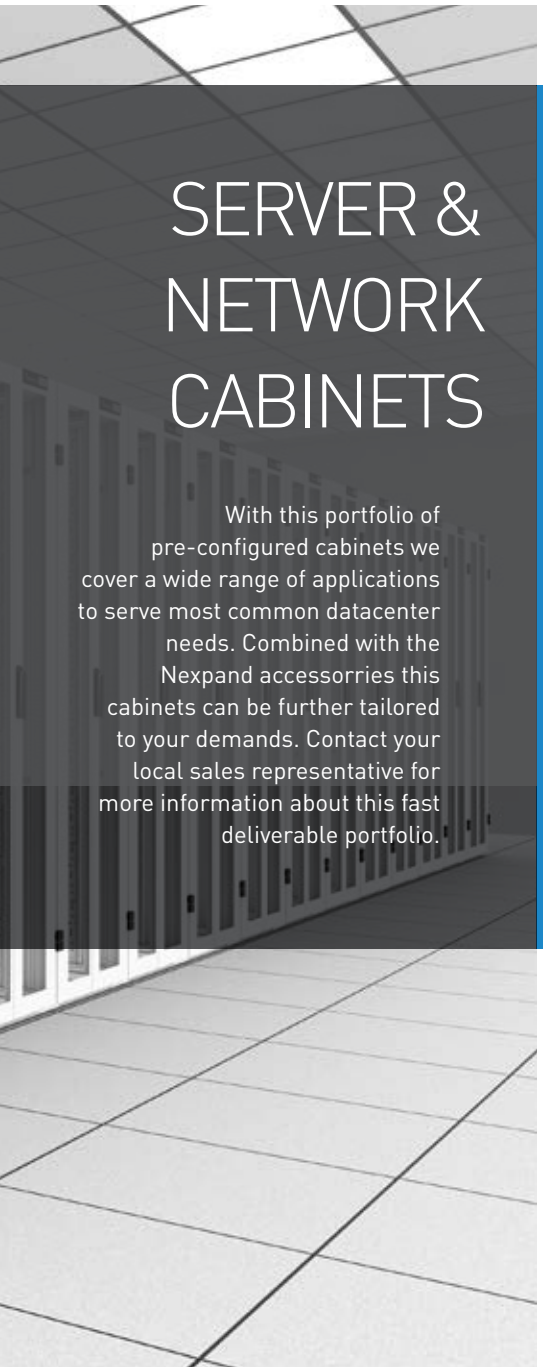
MINKELS
MINKELS



SERVER & NETWORK CABINETS

With this portfolio of pre-configured cabinets we cover a wide range of applications to serve most common datacenter needs. Combined with the Nexpand accessorries this cabinets can be further tailored to your demands. Contact your local sales representative for more information about this fast deliverable portfolio.

NEXPAND

Cabinets are meant to outlive the IT equipment that is initially placed in them. That is why a customer should always wisely choose a product that will last more than 10 years. Minkels commits to this purpose with the Nexpand server and network cabinets to make sure that no matter what the current or future needs are, they are covered from the moment the customer's cabinet requirement begins.

BENEFITS FOR YOUR DATA CENTER

- Optimal airflow management for better energy performance (airflow management package available on certain cabinets only)
- Fully modular design for total adaptability to your IT equipment
- Vast portfolio of accessories for cable management, airflow management, security and many more
- Modular roof design providing optimal flexibility
- Adjustable vertical mounting rails

NEXPAND

	SERVER CABINET	SERVER CABINET WITH AIRFLOW MANAGEMENT PACKAGE	
Type of lock	EK-333 LOCK	EK-333 LOCK	COMBINATION LOCK
	Nexpand server cabinet with EK-333 lock. Available with or without side panels.	Nexpand server cabinet with EK-333 lock and airflow management package . Available with or without side panels.	Nexpand server cabinet with combination lock and airflow management package. Available without side panels.
With side panels			☒
	PAGE 12	PAGE 13	
Without side panels			
	PAGE 12	PAGE 13	PAGE 13
19" at 100 from the front on a 1000 deep cabinet	☑	☑	☒
19" at 150 From the front on a 1200 deep cabinet	☑	☑	☑
Colour	RAL 9003 (white)	RAL 9003 (white)	RAL 9003 (white) RAL 9005 (black)

NEXPAND

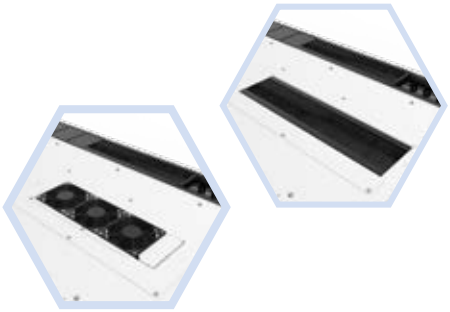
	NETWORK CABINET WITH AIRFLOW MANAGEMENT PACKAGE	
Type of lock	EK-333 LOCK	COMBINATION LOCK
	Nexpand network cabinet with EK-333 lock and airflow management package . Available with or without side panels.	Nexpand network cabinet with combination lock and airflow management package. Available without side panels.
With side panels		✗
	PAGE 15	
Without side panels		
	PAGE 15	PAGE 15
19"at 200 from the front	✓	✓
Colour	RAL 9003 (white)	RAL 9003 (white) RAL 9005 (black)

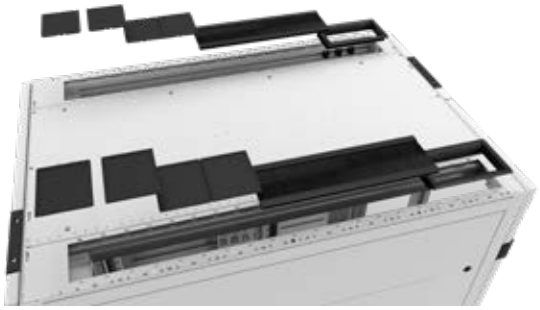
FRAME

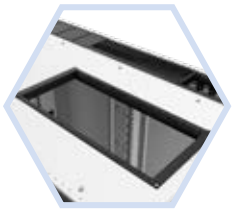
- Light and solid aluminium frame with the capability to handle 1500 kg of static load
- Offers unique flexibility through stepless mounting possibilities in all three dimensions of the cabinet
- Threaded mounting rails in width, depth and height direction enable stepless adjustibility (for example cable management)
- Integrated T-slots provide stepless adjustibility in depth and width direction (for example vertical mounting rail adjustment)
- Nearly all accessories and components accessible from inside of the cabinet

WATCH ALL FEATURES: www.minkels.com/videos/nexpand

Depth marking placed on depth profiles
Stepless adjustability in depth direction

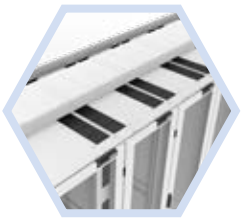


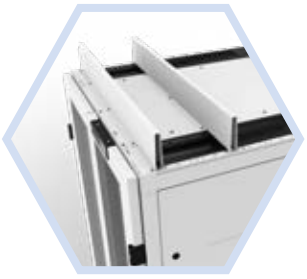


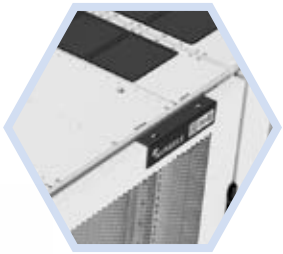


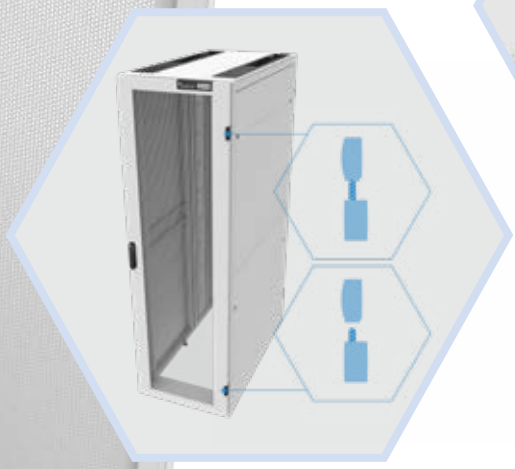
ROOF

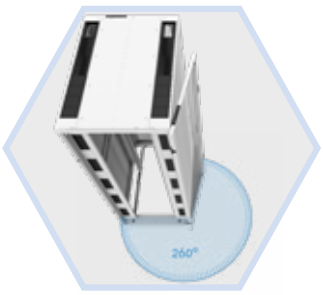
- Extra cut-out in the middle for cable managment (high-volume), brushes or fan-unit
- Solid platform for installation top of cabinet infrastructure
- Roof inserts follow a multiple of 100 mm
- Nearly full-depth cut-out
- Optimal accessibility for cabling
- Optimal positioning for PDU's
  - Up to 32A plugs shall fit
- Optional cable pull relief available
- Optional 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











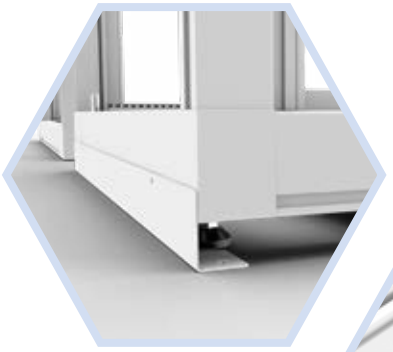
DOOR

- 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
- High level access security
- Replacement of locking through detachable cover plate rear
- Door reversible (left/right hinged)
- Door can open 165° in case of bayed cabinets
- Door can open 260° in case of stand-alone cabinets

FEATURES & BENEFITS
NEXPAND

CABINETS THAT INCLUDED AN AIRFLOW 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



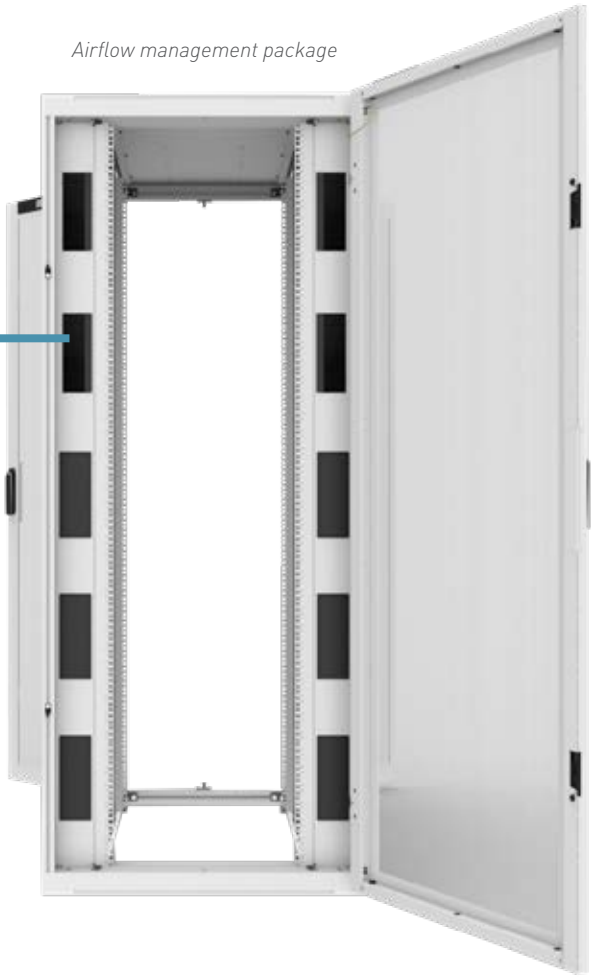
CABLE MANAGEMENT OPTIONS

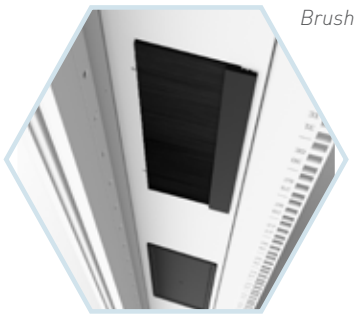
- Depth direction of cable trays
- Multifunctional cable tray to organise your cabling
  - using tie-wraps and/or Velcro
  - 1U plastic cable ring, toolless mount
- Accessories available to manage copper and fiber cabling

The **NEXPAND SERVER CABINET** is perfectly suited for the installation of (blade) servers, switches, patch panels, routers and storage equipment. The cabinets are used to bring together IT equipment and the corresponding cables neatly in one place, cables of all sorts ranging : PDUs, busbars, cables... The server cabinet has everything to facilitate this in the best energy efficient and modular way. The cabinets are widely applicable and modular in structure, and have a smart and solid design: for example, the top-of-cabinet section contains more space to guide the cables through and the positioning of the entries is improved. The sturdiness of the frame and door, the full integration of the locking system and the cabling are unique on the market.

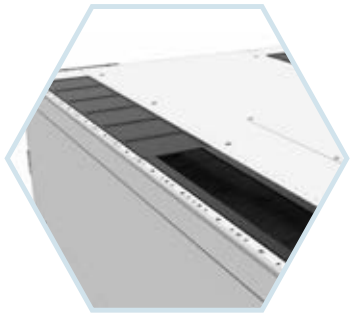
SPECIFICATIONS		
Dimensions:		
Height	U	42, 47 or 52
Height	mm	1978, 2200 or 2422 mm
Width	mm	600 or 800
Depth	mm	1000 or 1200
General:		
Colour		All cabinets are available RAL 9003 (white) and some are also available in RAL 9005 (black)
Static load capacity	kg	1500
Earthing		Fully earthed with central 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 100 or 150 mm from the front of the door (depending on the chosen configuration)
Position, rear profiles		Pre-mounted at an intermediate distance of 740mm
Frame:		
Material		Aluminium extrusions
Finishing		Powder coated
Front/rear closure:		
Front door		80% perforated single front door
Rear door		80% perforated double rear door
Security		2-Points Fix-Easy swivel handle with an EK-333 cylinder lock or combination lock
Material		Steel
Finishing		Powder coated
Hinges		Reversable and fast placement • Max. rotation degree 260° (Stand-Alone)
Side panel:		
Material		Steel
Finishing		Powder coated
Roof:		
Modularity		Modular inserts per 100 mm
Inserts:		Left & right: blind cover plates and brushes Center: blind cover plate

Airflow management package



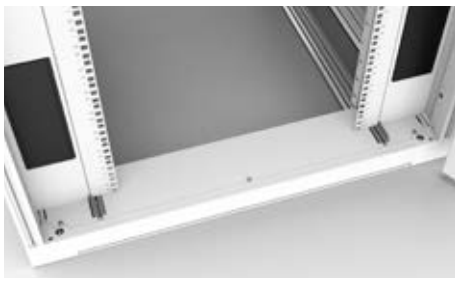


Brush for cable entry



Roof has left-right-center cut outs
filled with brushes and plates

Airflow management package bottom
600 mm wide cabinet



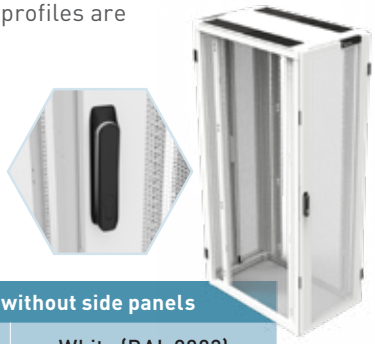
Airflow management package bottom
800 mm wide cabinet

Server cabinet

The cost-effective approach to your data center. It is possible to select these configurations with our without full-height powder coated side panels, making available cabinets for the middle of your aisle and for the end of the row.

Swivel handle with EK-333 lock

- Leveling feet
- Baying set
- Roof has left-right-center cut outs filled with brushes and plates
- 19" profiles ready for cable management
- In a 1000 mm deep cabinet the 19" profiles are mounted at 100 mm from the front
- In a 1200 mm deep cabinet the 19" profiles are mounted at 150 mm from the front



Server cabinets without side panels			
Height (U)	Widht (mm)	Depth (mm)	White (RAL 9003)
42	600	1000	B1104-061042-158554
		1200	B1104-061242-158556
	800	1000	B1104-081042-158553
		1200	B1104-081242-158555
47	600	1000	B1104-061047-158558
		1200	B1104-061247-158560
	800	1000	B1104-081047-158557
		1200	B1104-081247-158559

See page 16 for the technical drawing

Server cabinets with side panels			
Height (U)	Widht (mm)	Depth (mm)	White (RAL 9003)
42	600	1000	B1104-061042-158562
		1200	B1104-061242-158564
	800	1000	B1104-081042-158561
		1200	B1104-081242-158563
47	600	1000	B1104-061047-158566
		1200	B1104-061247-158568
	800	1000	B1104-081047-158565
		1200	B1104-081247-158567

See page 18 for the technical drawing

Server cabinet with airflow management package

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. Minkels offers best in class air tightness. Flexibility is retained while adjusting vertical mounting rails without compromising on air tightness.

- **Swivel handle with EK-333 lock**
- Airflow management package
- Leveling feet
- Baying set
- Roof has left-right-center cut outs filled with brushes and plates
- 19" profiles ready for cable management
- In a 1000 mm deep cabinet the 19" profiles are mounted at 100 mm from the front
- In a 1200 mm deep cabinet the 19" profiles are mounted at 150 mm from the front

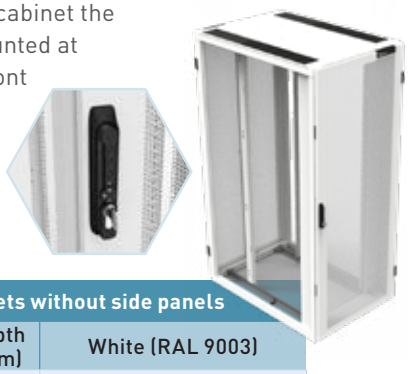
Server cabinets without side panels			
Height (U)	Widht (mm)	Depth (mm)	White (RAL 9003)
42	600	1000	B1104-061042-158570
		1200	B1104-061242-158572
	800	1000	B1104-081042-158569
		1200	B1104-081242-158571
47	600	1000	B1104-061047-158574
		1200	B1104-061247-158576
	800	1000	B1104-081047-158573
		1200	B1104-081247-158575

See page 20 for the technical drawing

Server cabinets with side panels			
Height (U)	Widht (mm)	Depth (mm)	White (RAL 9003)
42	600	1000	B1104-061042-158579
		1200	B1104-061242-158581
	800	1000	B1104-081042-158577
		1200	B1104-081242-158580
47	600	1000	B1104-061047-158583
		1200	B1104-061247-158585
	800	1000	B1104-081047-158582
		1200	B1104-081247-158584

See page 22 for the technical drawing

- **Combination lock**
- Airflow management package
- Leveling feet
- Baying set
- Roof has left-right-center cut outs filled with brushes and plates
- 19" profiles ready for cable management
- In a 1200 mm deep cabinet the 19" profiles are mounted at 150 mm from the front



Server cabinets without side panels			
Height (U)	Widht (mm)	Depth (mm)	White (RAL 9003)
42	600	1200	B1104-061242-158594
	800		B1104-081242-158597
47	600	1200	B1104-061247-158595
	800		B1104-081247-158598
52	600	1200	B1104-061252-158596
	800		B1104-081252-158599

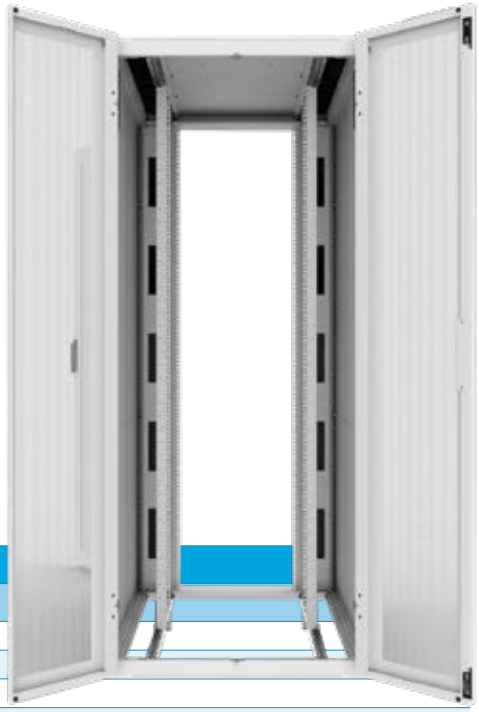
See page 24 for the technical drawing

Server cabinets without side panels			
Height (U)	Widht (mm)	Depth (mm)	Black (RAL 9005)
42	600	1200	B1109-061242-158600
	800		B1109-081242-158603
47	600	1200	B1109-061247-158601
	800		B1109-081247-158604
52	600	1200	B1109-061252-158602
	800		B1109-081252-158605

See page 24 for the technical drawing

NETWORK CABINETS
NEXPAND

The **NEXPAND NETWORK CABINET** is put together having in mind the increasing cabling densities per cabinet while benefiting from all Nexpand features in terms of accessories compatibility and solidity and smartness of the solution. The cabinets can be configured in varying heights, with a consistent width of 800mm and a depth of 1200mm to give the cabling solution the space it will demand.



SPECIFICATIONS		
Dimensions:		
Height	U	42, 47 or 52
Height	mm	1978, 2200 or 2422 mm
Width	mm	800
Depth	mm	1200
General:		
Colour		All cabinets are available RAL 9003 (white) and some are also available in RAL 9005 (black)
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 200 mm from the front of the door
Position, rear profiles		Pre-mounted at an intermediate distance of 740mm
Frame:		
Material		Aluminium extrusions
Finishing		Powder coated
Front/rear closure:		
Front door		80% perforated single front door
Rear door		80% perforated double rear door
Security		2-Points Fix-Easy swivel handle with an EK-333 cylinder lock or combination lock
Material		Steel
Finishing		Powder coated
Hinges		Reversable and fast placement • Max. rotation degree 260° (Stand-Alone)
Side panel:		
Material		Steel
Finishing		Powder coated
Roof:		
Modularity		Modular inserts per 100 mm
Inserts:		Left & right: blind cover plates and brushes Center: blind cover plate

Network cabinet with airflow management package

For the network cabinet range the VMRs have been positioned deeper in the cabinet from the front door to allow cable management mounting options in the front part of the cabinet as well. When selecting for one of these cabinets your airflow management package will also be increased in size when compared to that one of a server cabinet to ensure full airtightness for these configurations.

The cabinet dimensions of this offer are the widest and deepest of the Nexpand range to ensure that cabling is granted with the space that it will demand.

- **Swivel handle with EK-333 lock**
- Airflow management package
- Leveling feet
- Baying set
- Roof has left-right-center cut outs filled with brushes and plates
- 19" profiles ready for cable management
- 19" profiles are mounted at 200 mm from the front

Network cabinets without side panels			
Height (U)	Widht (mm)	Depth (mm)	White (RAL 9003)
42	800	1200	B1104-081242-158592
47	800	1200	B1104-081247-158593

See page 26 for the technical drawing

Network cabinets with side panels			
Height (U)	Widht (mm)	Depth (mm)	White (RAL 9003)
42	800	1200	B1104-081242-158589
47	800	1200	B1104-081247-158591

See page 28 for the technical drawing

- **Combination lock**
- Airflow management package
- Leveling feet
- Baying set
- Roof has left-right-center cut outs filled with brushes and plates
- 19" profiles ready for cable management
- 19" profiles mounted at 200 mm from the front

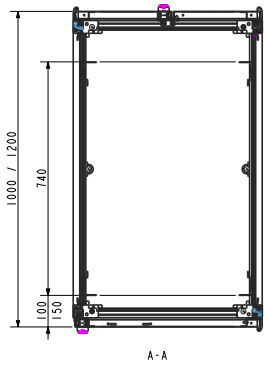
Network cabinets without side panels			
Height (U)	Widht (mm)	Depth (mm)	White (RAL 9003)
42	800	1200	B1104-081242-158606
47	800	1200	B1104-081247-158607
52	800	1200	B1104-081252-158608

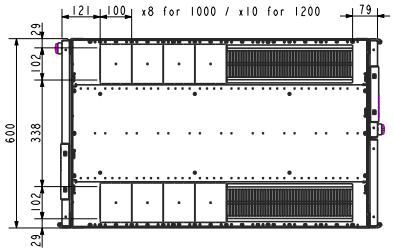
See page 30 for the technical drawing

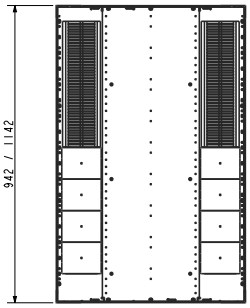
Network cabinets without side panels			
Height (U)	Widht (mm)	Depth (mm)	Black (RAL 9005)
42	800	1200	B1109-081242-158609
47	800	1200	B1109-081247-158610
52	800	1200	B1109-081252-158611

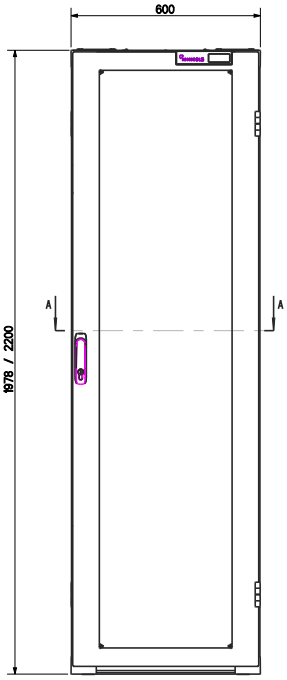
See page 30 for the technical drawing

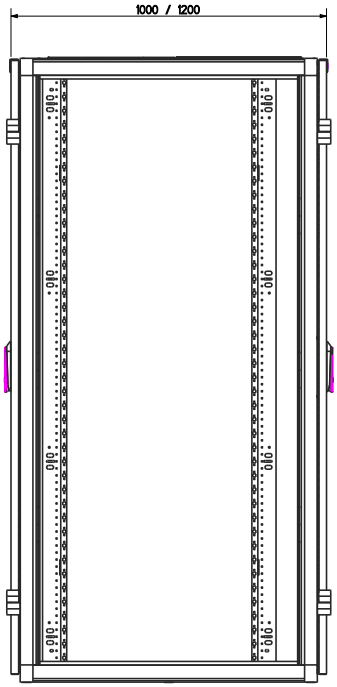
Without side panels • EK-333 lock

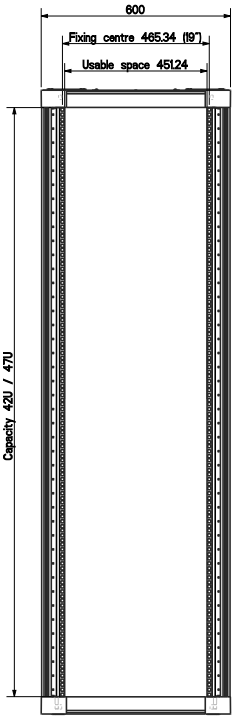


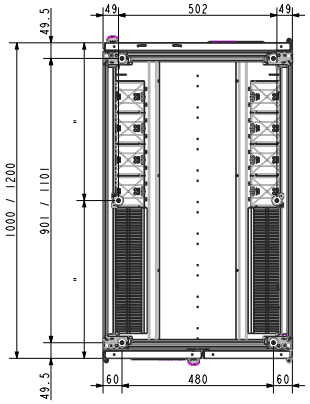


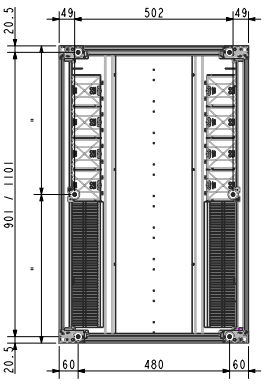


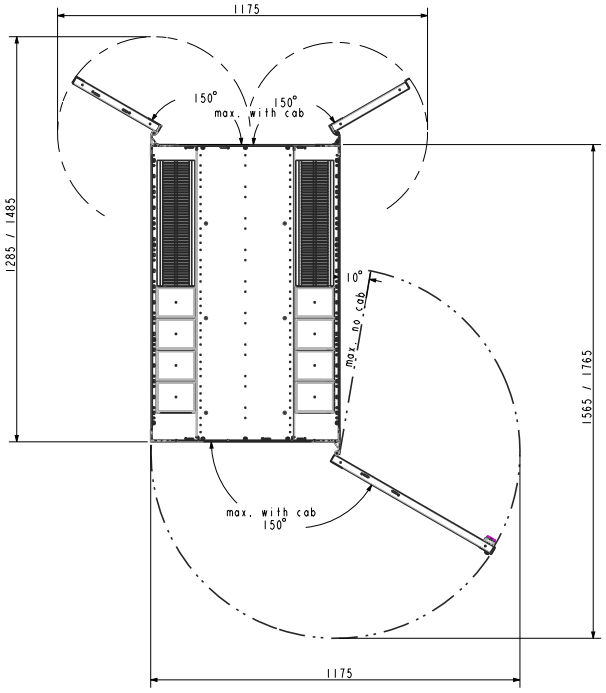








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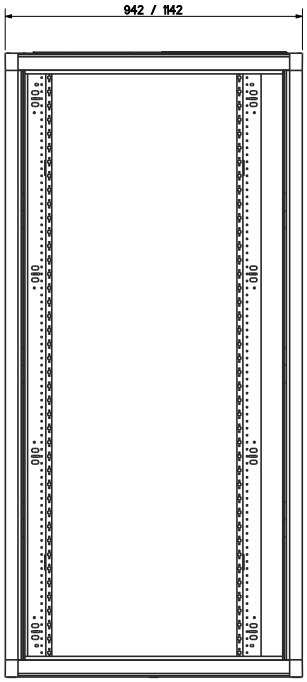
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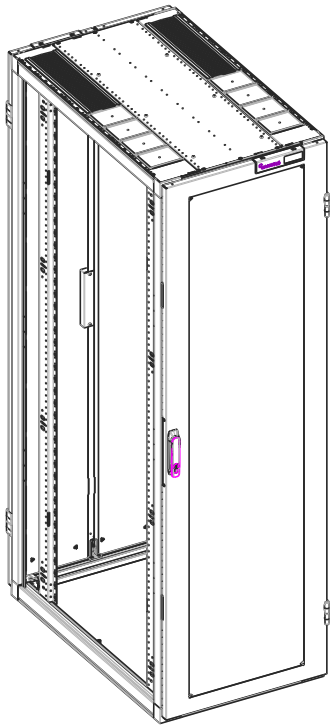
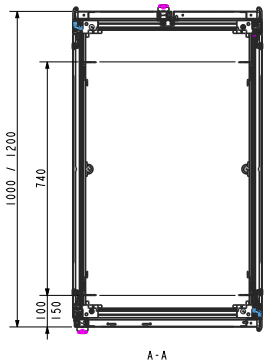
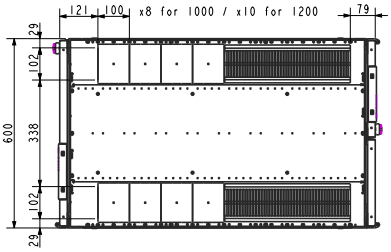
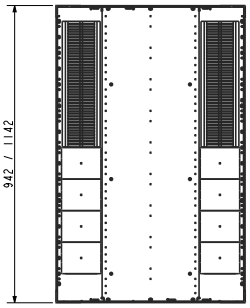
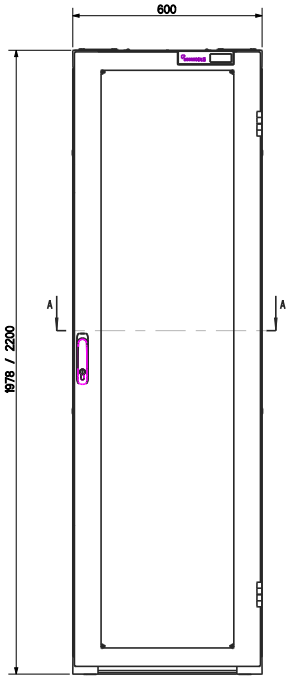


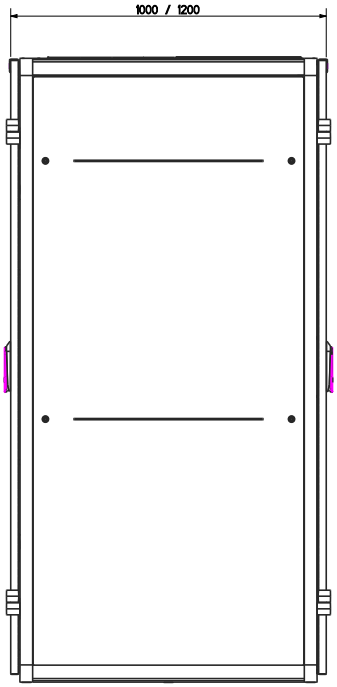
With side panels • EK-333 lock

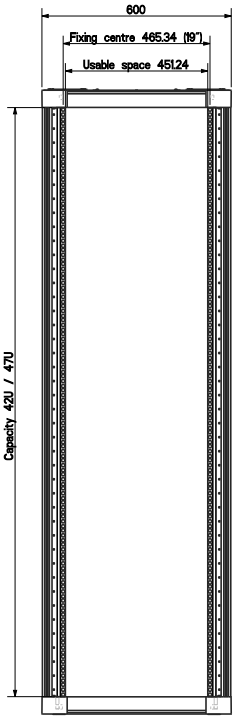


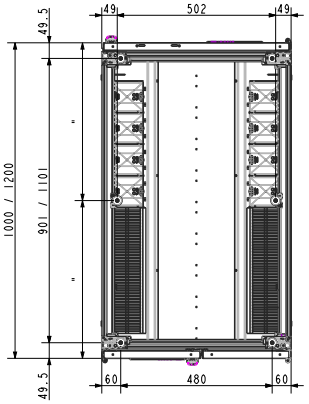


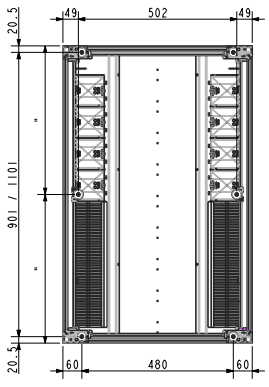


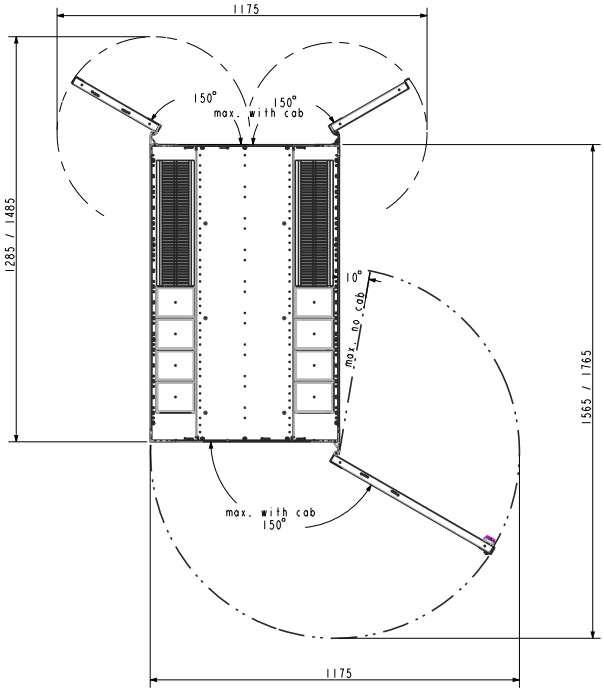








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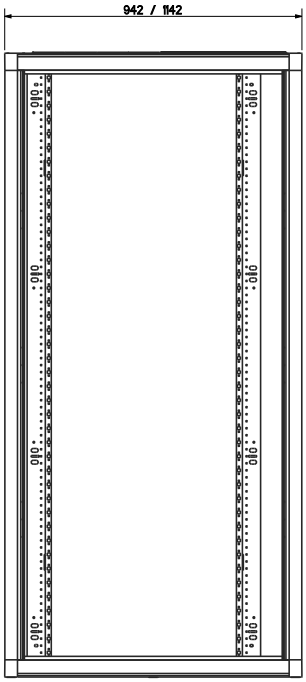
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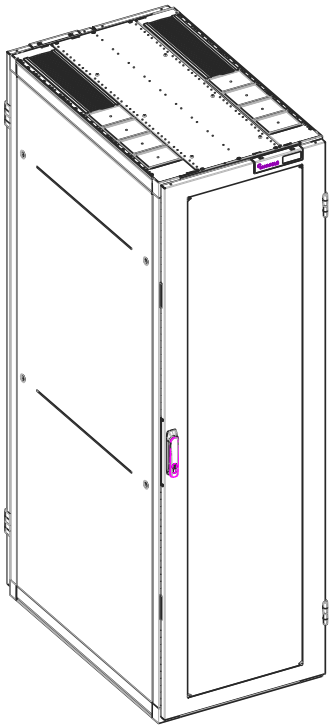
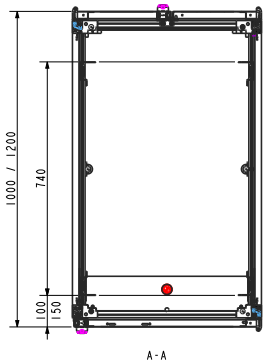
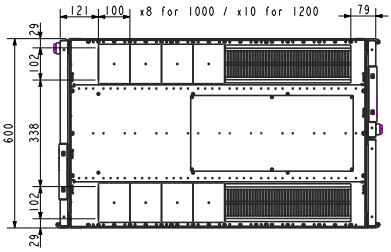
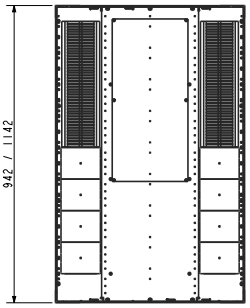
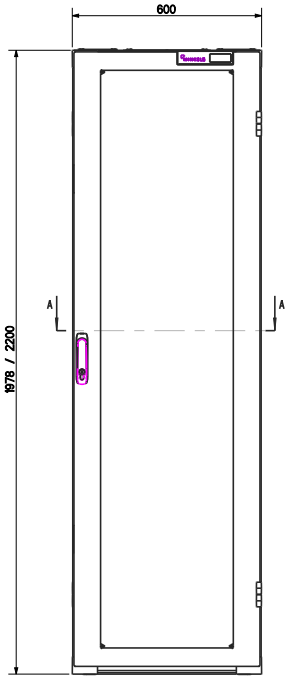


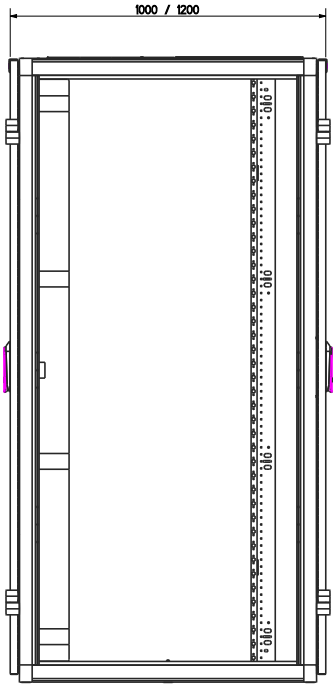
Airflow management package • without side panels • EK-333 lock

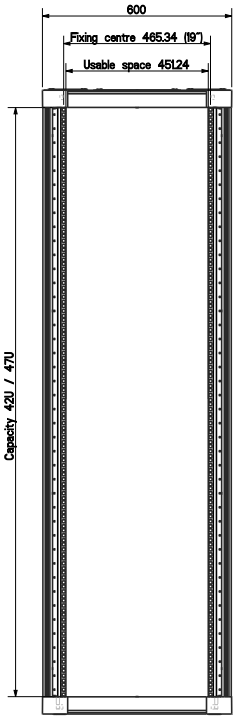


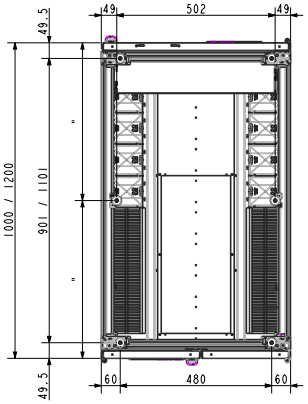


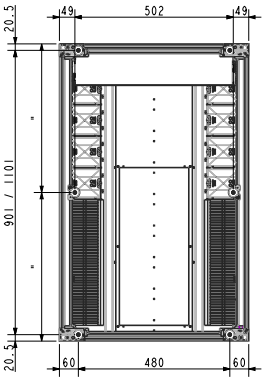


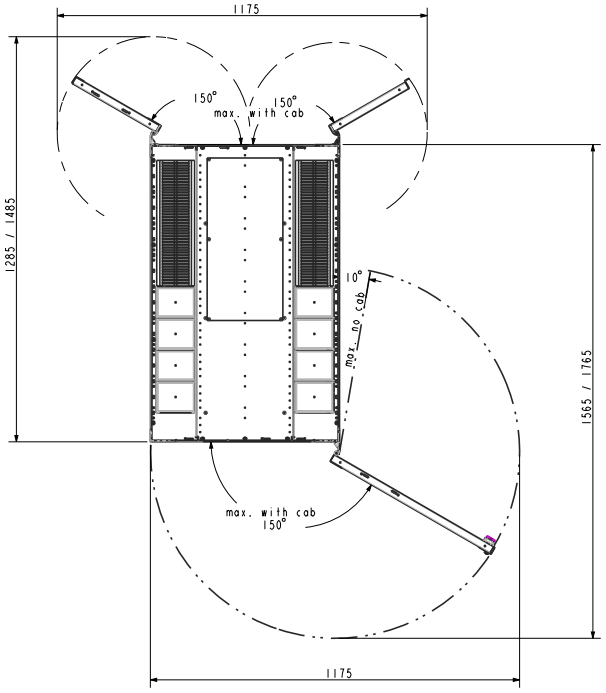








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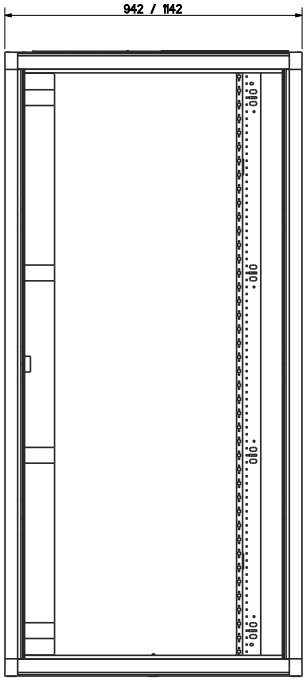
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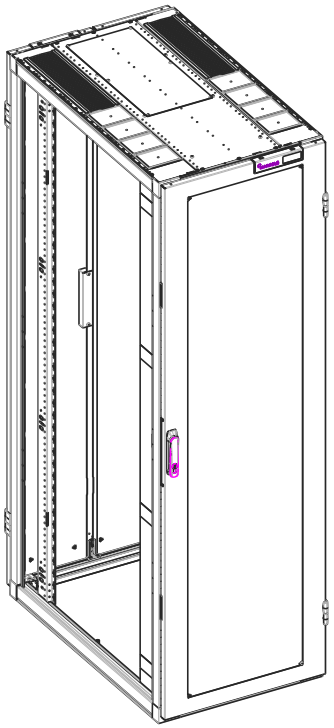
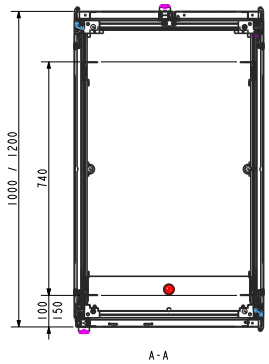
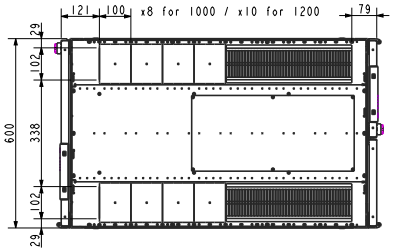
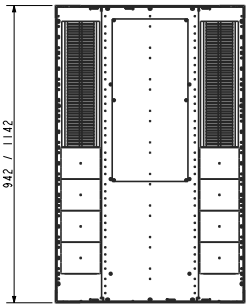
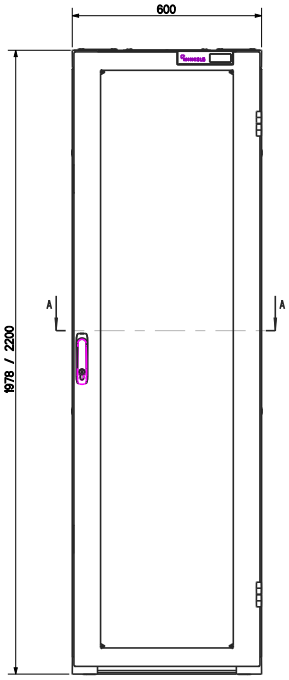


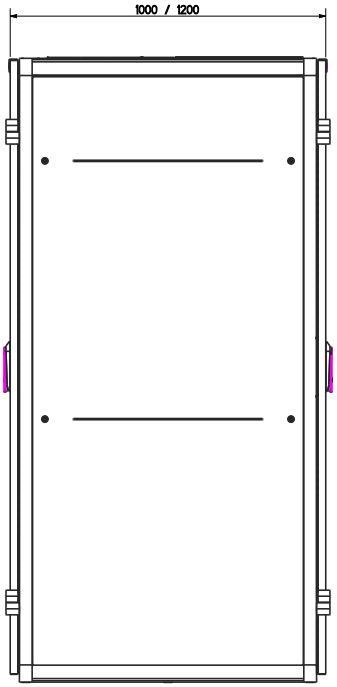
Airflow management package • with side panels • EK-333 lock

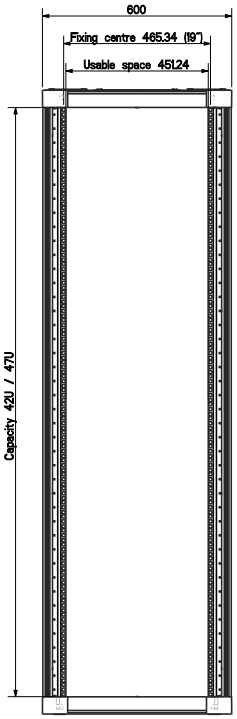


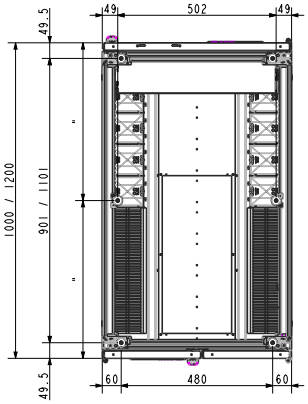


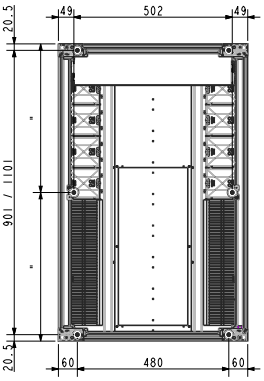


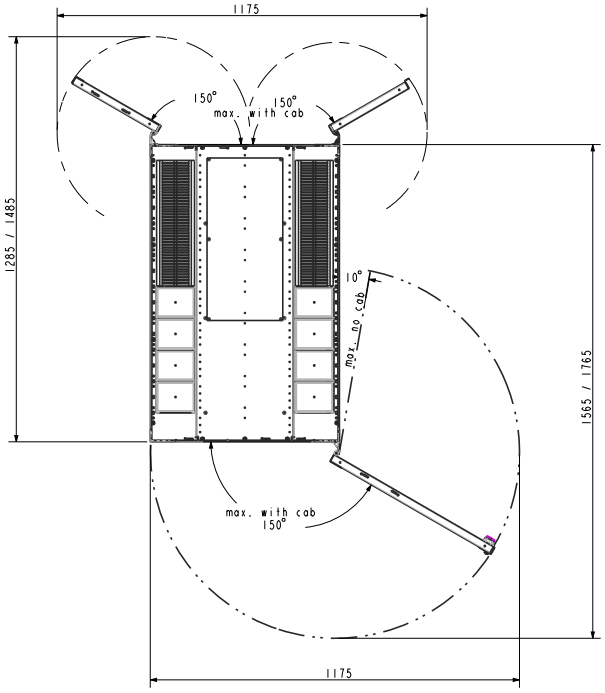








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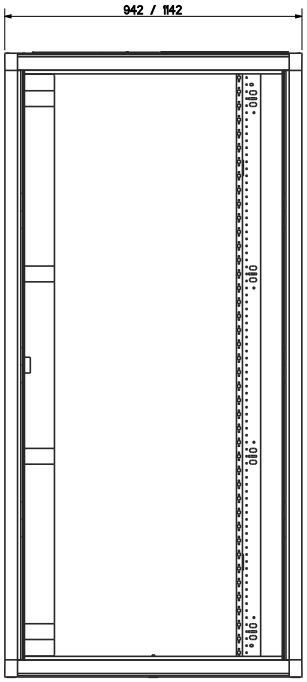
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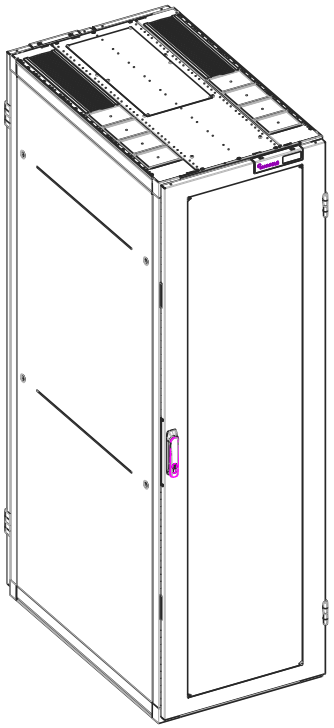
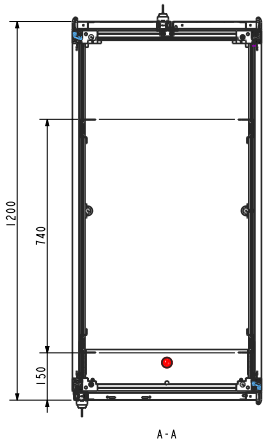
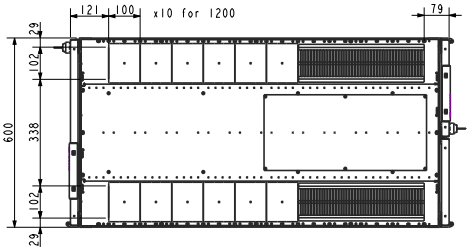
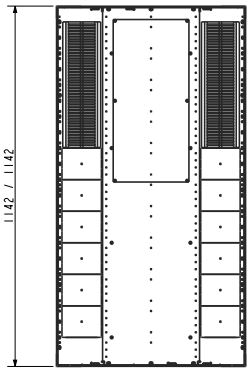
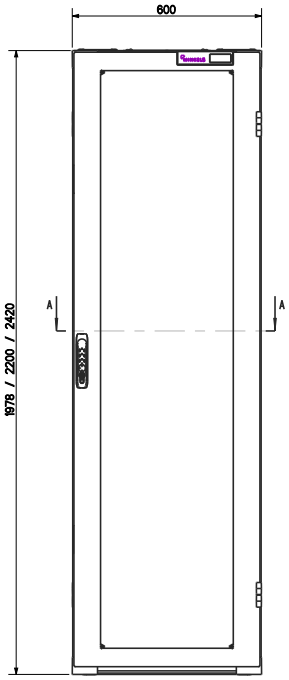


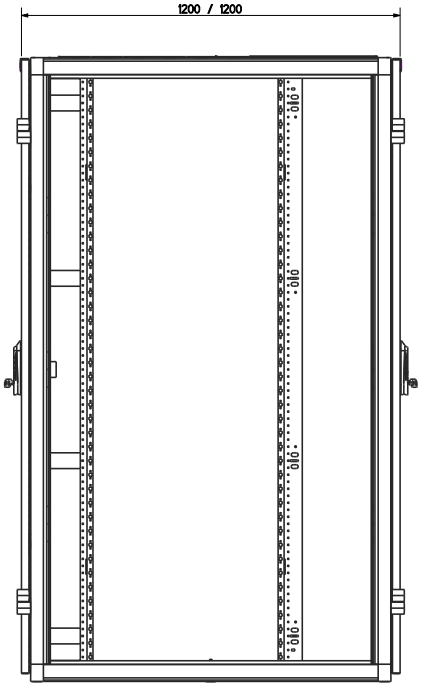
Airflow management package • without side panels • combination lock

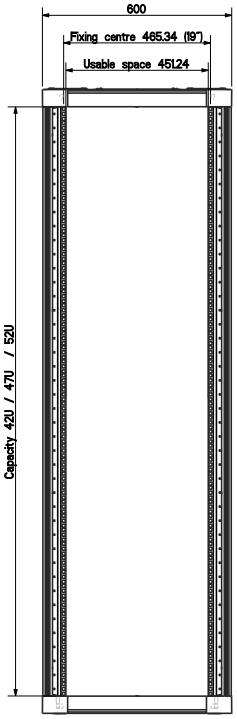


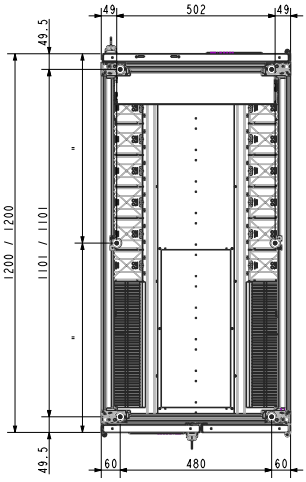


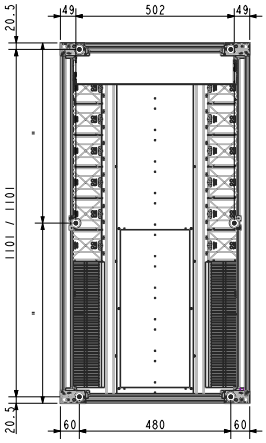


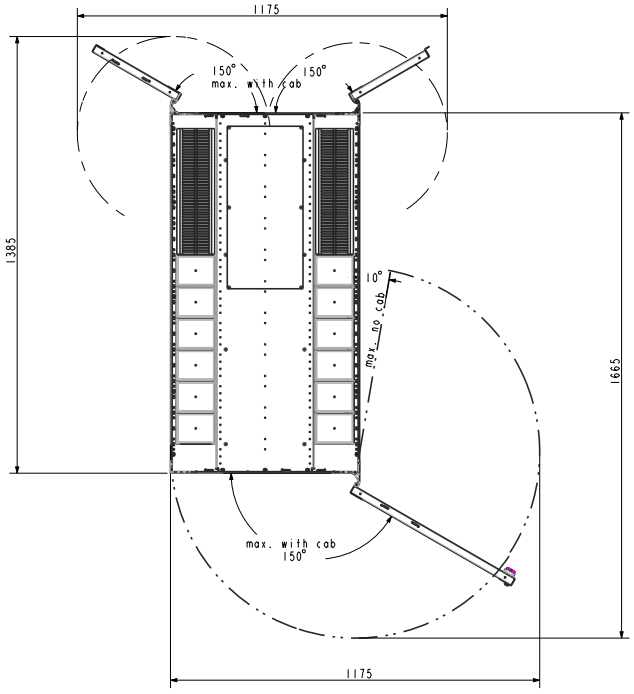








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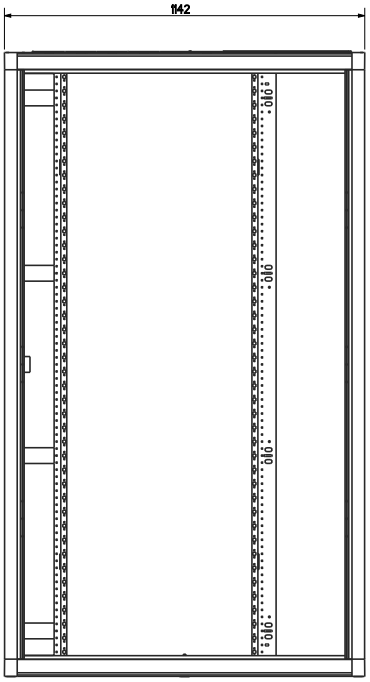
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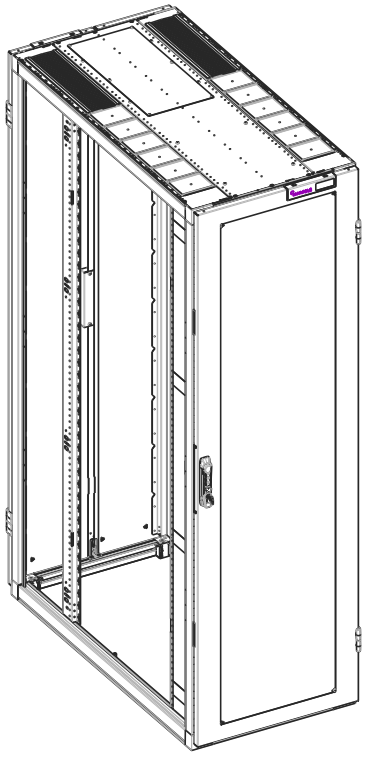
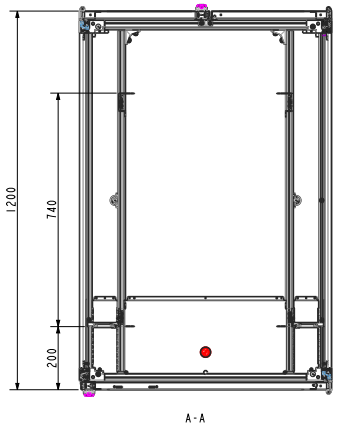
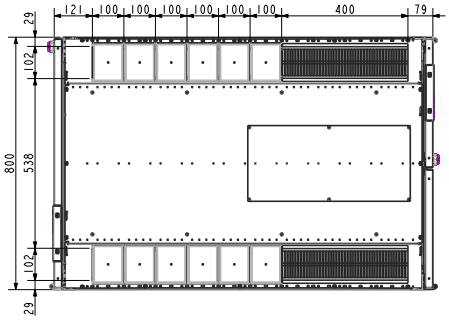
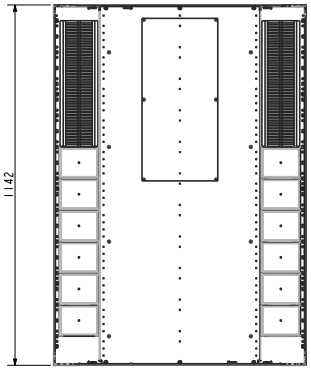
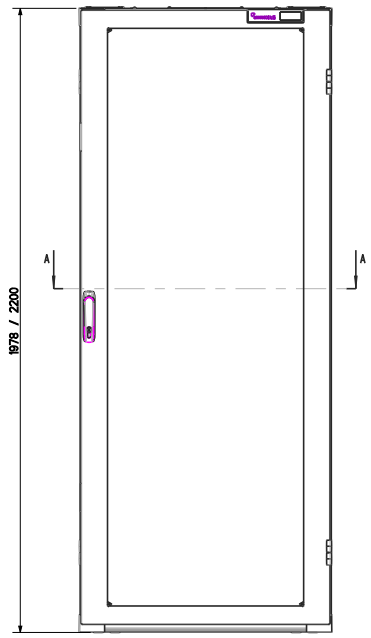


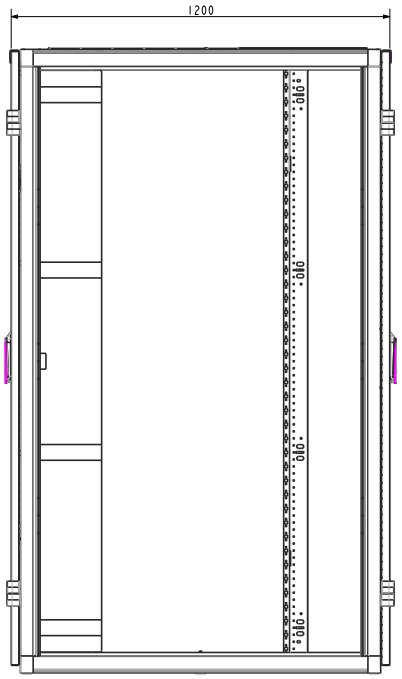
Airflow management package • without side panels • EK-333 lock

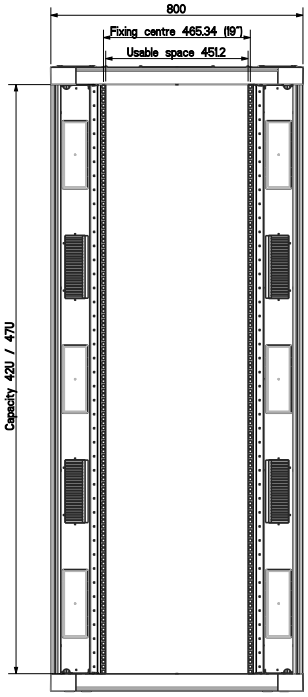


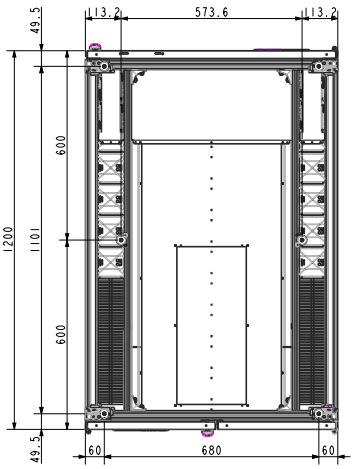


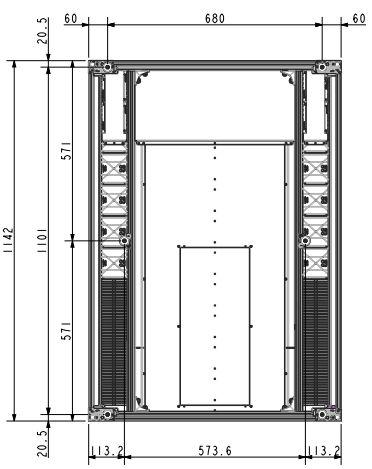


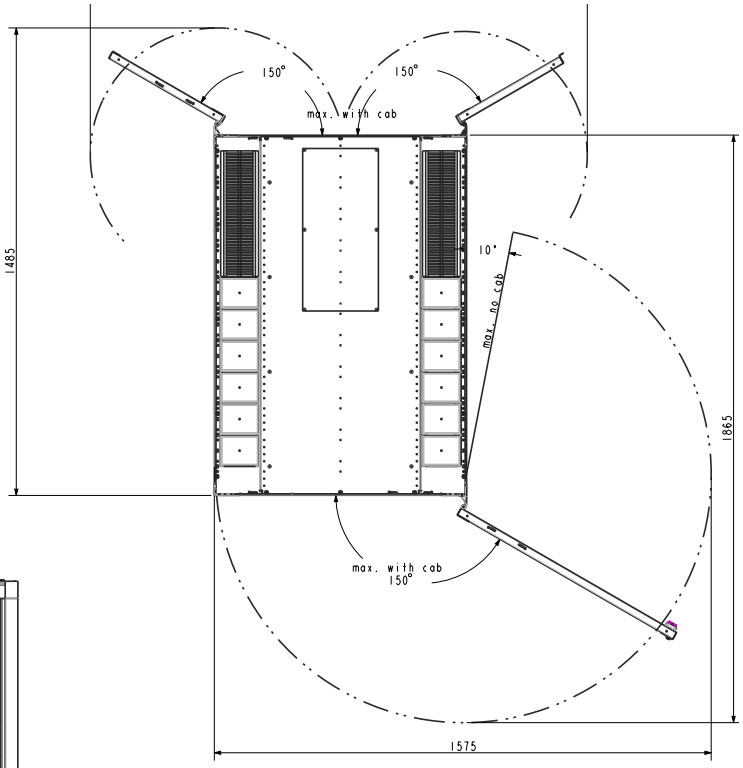








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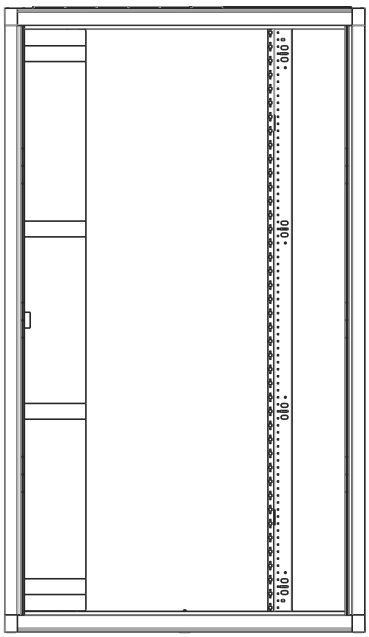
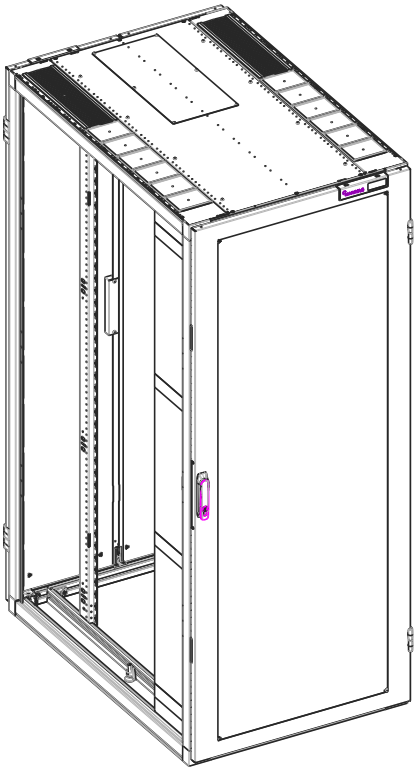
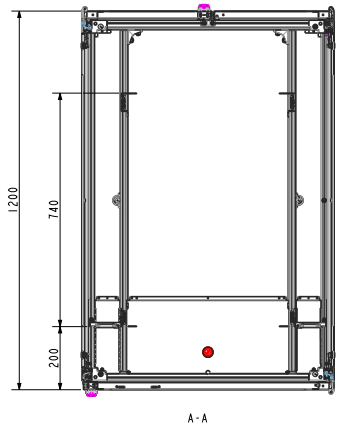
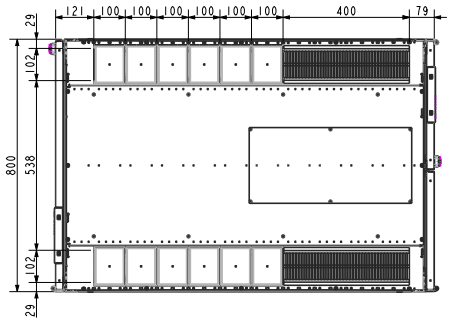
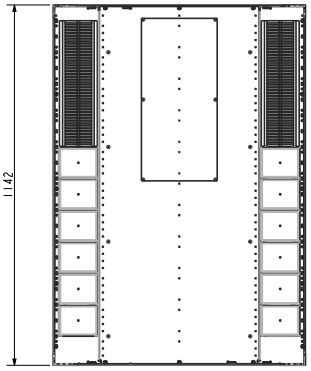


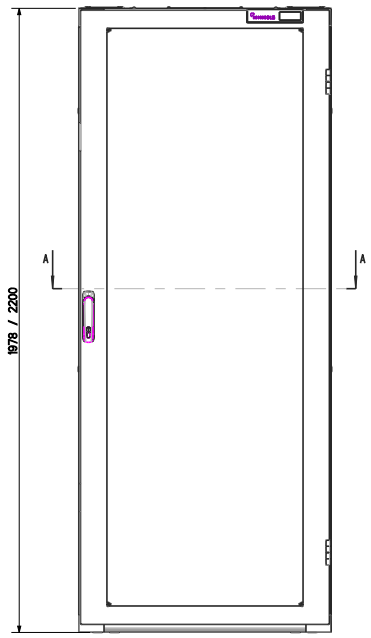


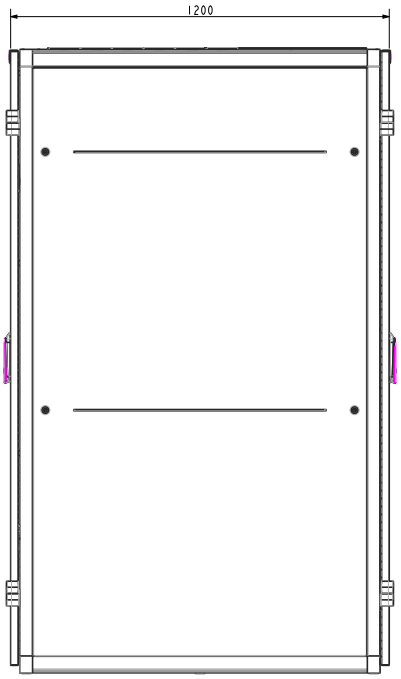
Airflow management package • with side panels • EK-333 lock

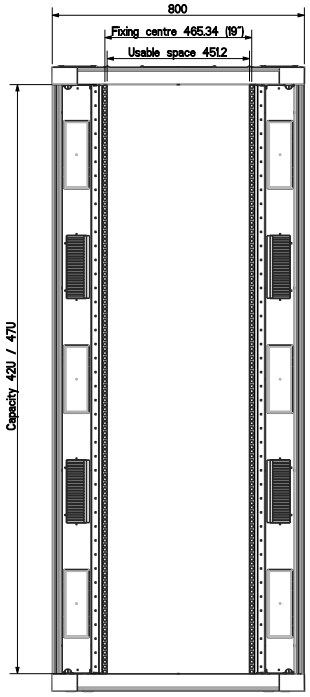


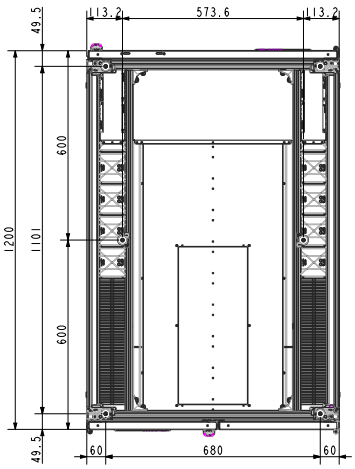


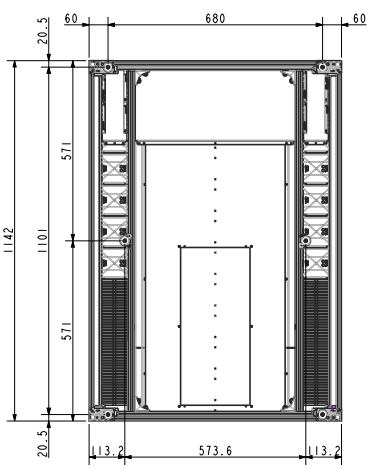


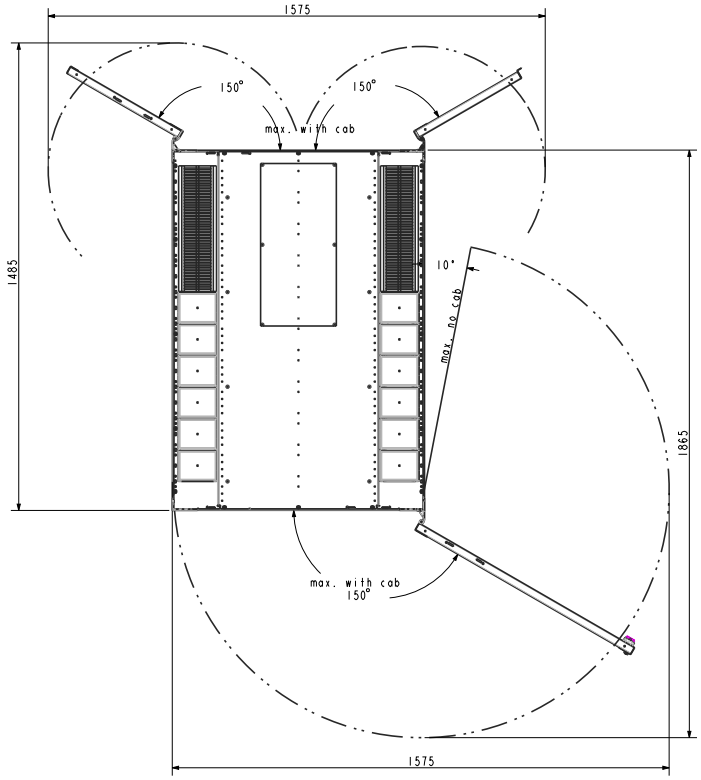








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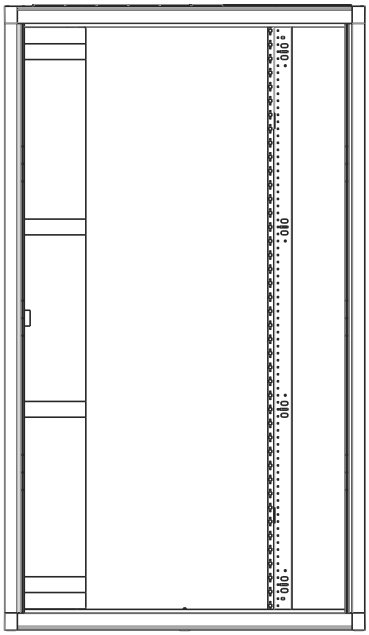
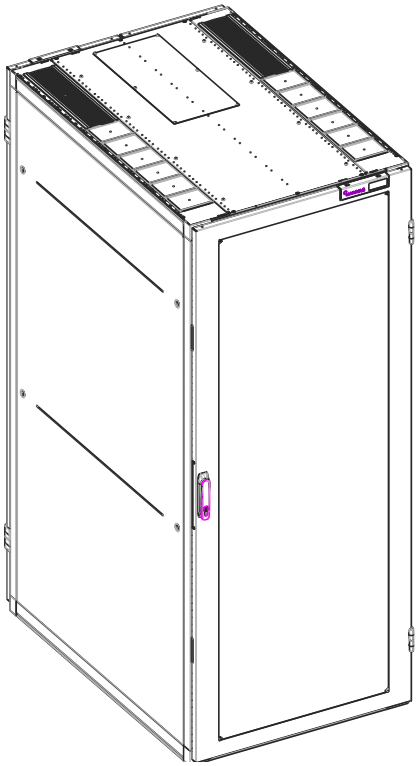
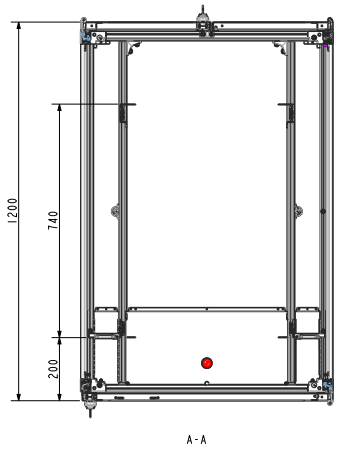
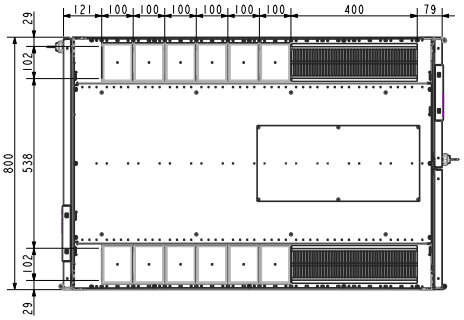
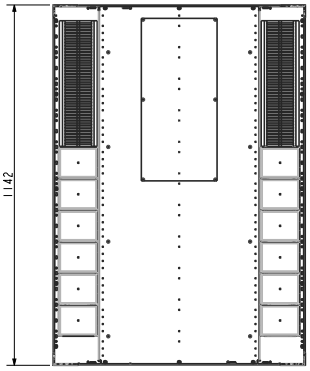


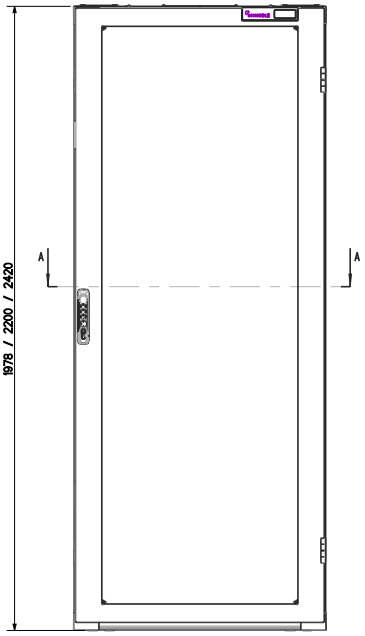


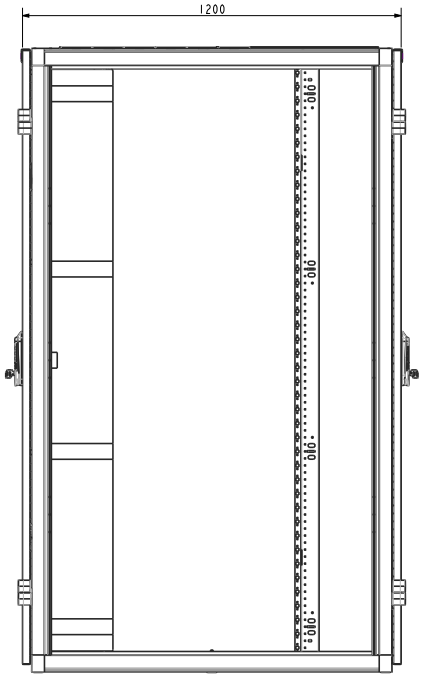
Airflow management package • without side panels • combination lock

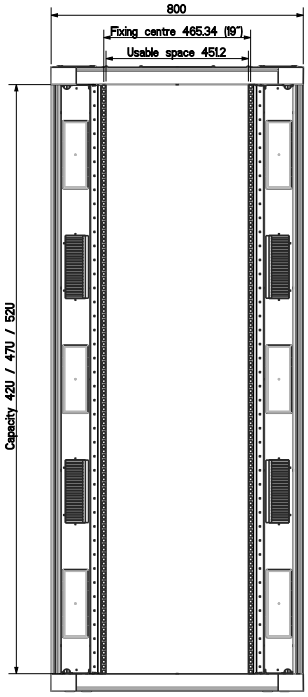


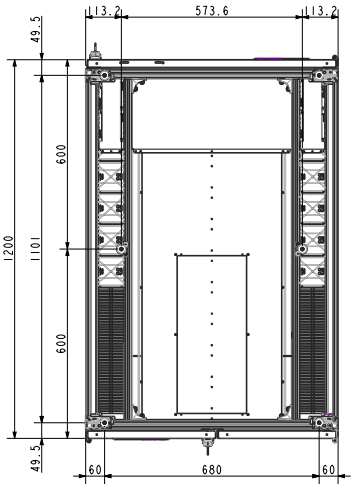


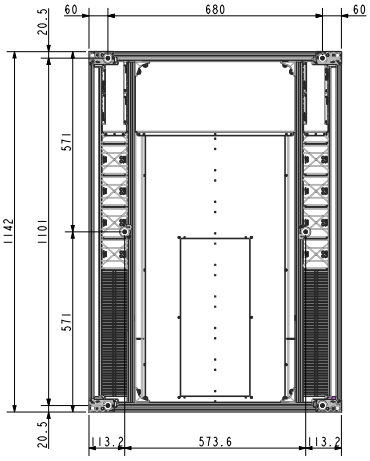


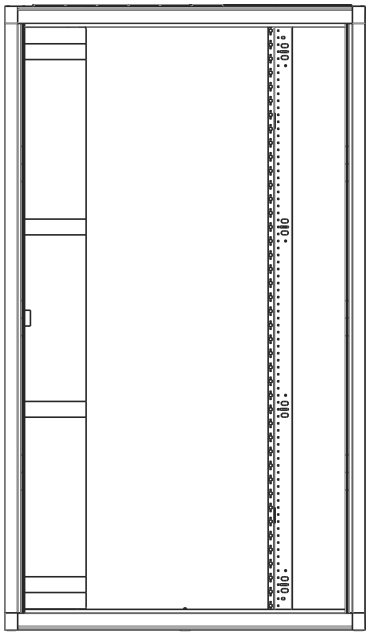


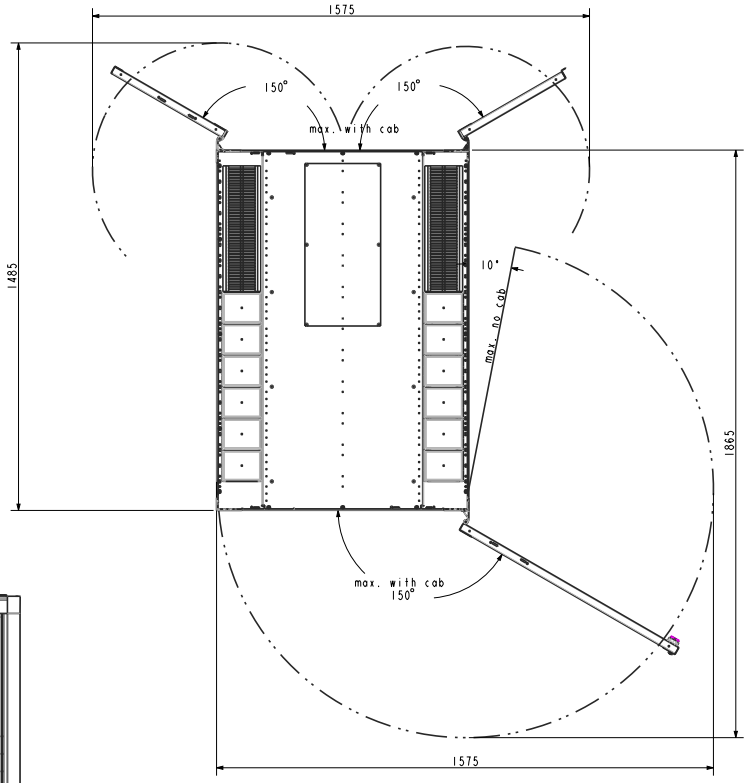








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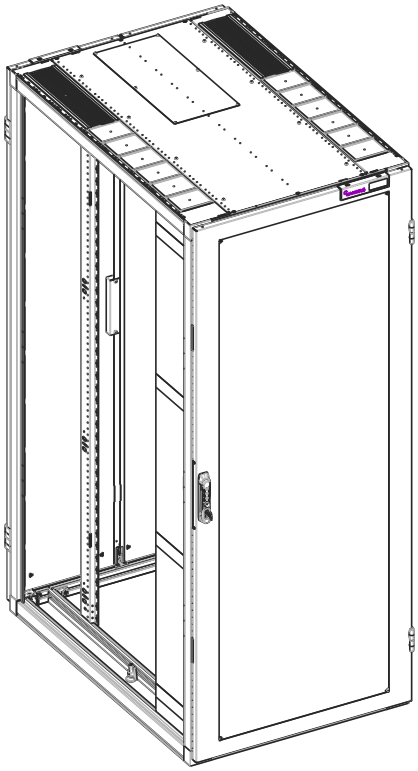

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