

Server Cabinets & Corridor Solutions

A datacenter includes server cabinets and cables to organize and interconnect all IT equipment (servers, routers, switches, hard disks, etc.). This infrastructure is used by companies to organize, process, store large amounts of data. A datacenter meets very strict technical specifications in order to guarantee its physical and IT security, as well as its operation, which must not experience any interruption or drop in performance. Thermal engineering plays a key role in its design. Such

installations generate a lot of heat and need to be

cooled to avoid breakdowns.

Discover the new Linkeo Data Center solutions composed of server cabinets and corridor.

- → Static heavy duty structure
- Complete in one part number or composable





GENERAL CHARACTERISTICS

- Dimensions:
 42/47U, width 600/800 mm, depth 1000/1200 mm
- 80% perforated front/rear doors for best air circulation
- Simply the raceway for cords are created by fixing cable rings on all profiles in front and rear part of the cabinets
- Easy movable 19" profiles to front/rear
- Multiple brushed cable entries on top and the bottom of the cabinet

- Side panels are lockable & removable in 1 part (depth 1000 mm) or in 2 parts (depth 1200 mm) - for easiest handling
- Ample variety of accessories
- Color: RAL 9005 Black

LINKEO DATA CENTER

19" Free-Standing Server Cabinets



CASTERS AND LEVELLING FEET*

Casters are rotational type and can move any direction Front casters are lockable

Load capacity per caster: Fixed: 150 kg, Moving: 112 kg

Load capacity per levelling feet: 375 kg.

Levelling feet: Possible to adjust height of the feet from the floor.

FLOOR FIXING KIT*

Fixing the cabinet to floor for better stability. 4-point fixing. Galvanized sheet metal

FAN MODULE*

4 or 6 pcs of fan on a module, with ON/OFF, analog thermostat functions. Complete inner wiring. 1U.

LIGHTING KIT*

Equipped with magnets.

GROUNDING CONTINUITY

Grounding cables for all metal components. Cable connections with bolts and nuts for all doors.

BRUSHED CABLE ENTRY

For the width 800 mm cabinets, there are 5 pieces; 4 pieces on both sides and 1 pcs at the rear. The dimensions of the cable entries are different according to the depth of the cabinet.

For 1000 mm depth:

80 mm x 350 mm (x4), 80 mm x 350 mm (x1)

For 1200 mm depth:

80 mm x 350 mm (x1), 80 mm x 450 mm (x4)





FIXED AND SLIDING SHELF*

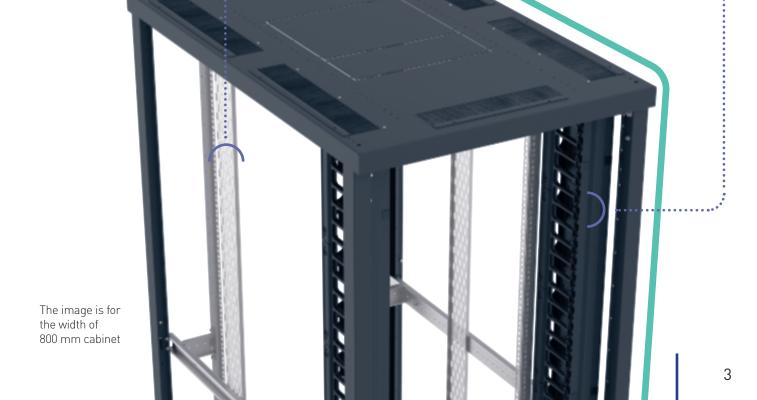
Fixing points at the sides of rear and front 19'' uprights. Vented for air circulation, adjustable depth, sheet steel material. For depth 1000 mm cabinets.

CABLE TRAY*

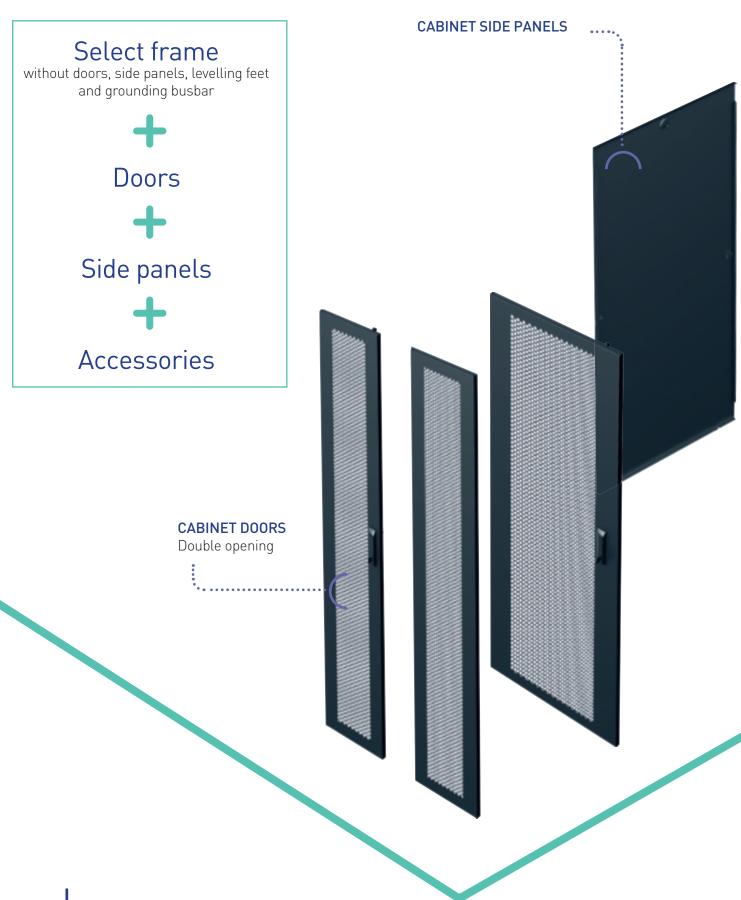
Option from 42U to 47U, W=100 mm.

FINGER TYPE VERTICAL MANAGER*

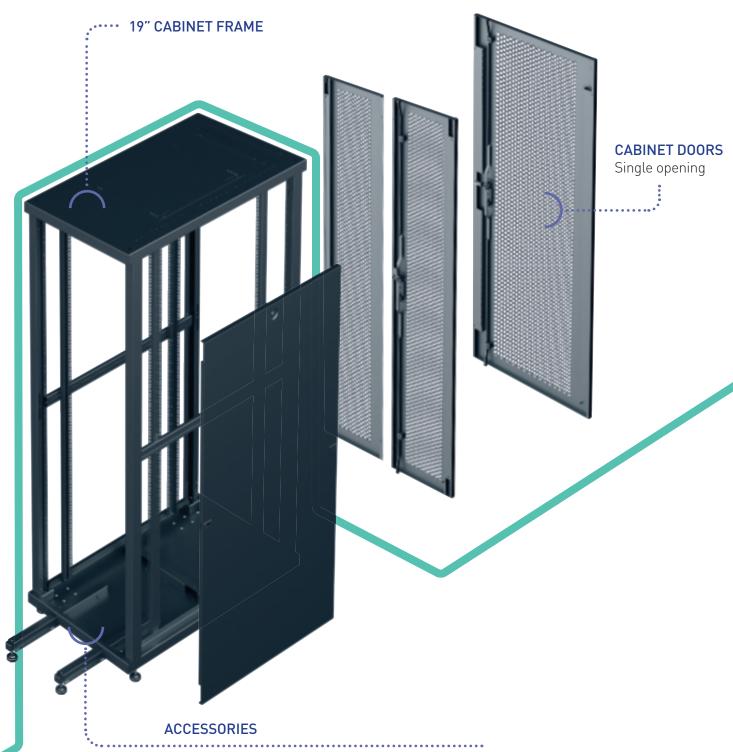
Option for patchcords from 42U to 47U.
Professional cabling with finger type structure makes the user's work easier.
It provides more optimal using area in the cabinet.



How to create a server cabinet?

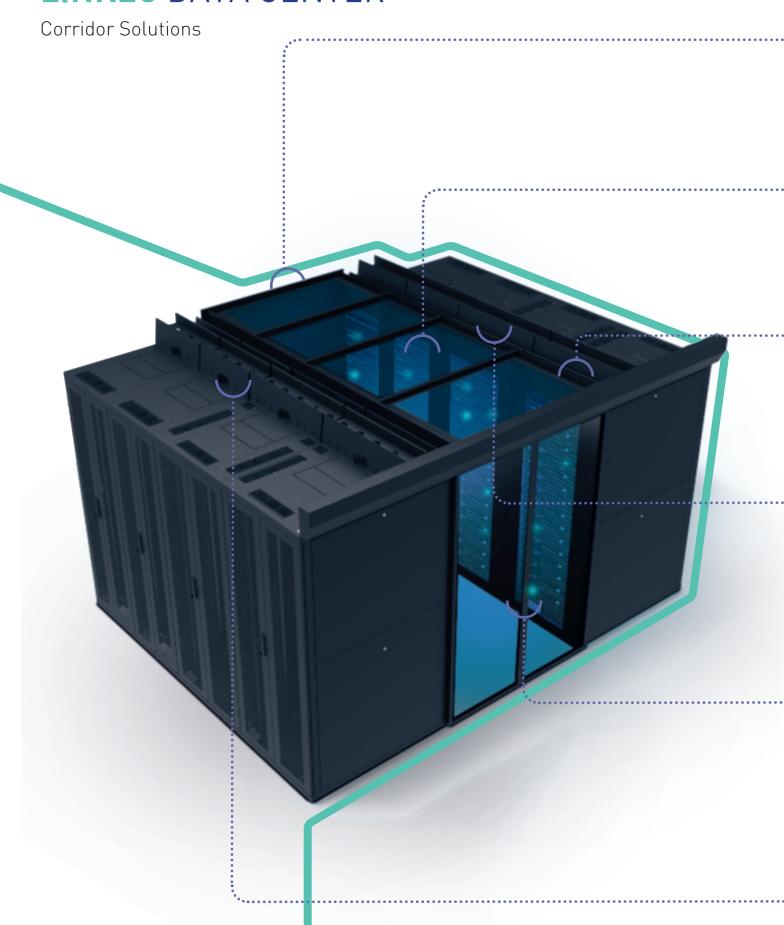






- Plinths
- Casters
- Levelling feetRaised floor support
- Anti-tilt bar
- Floor fixing
- Vertical cord manager
- Cable tray
- Fan modules
- PDU holder
- Grounding busbar

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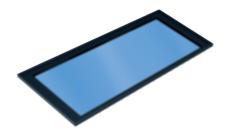






CORRIDOR REAR PANEL MODULES

To close the back of aisle containment system.



TOP PANEL MODULES

Easy fixable top panel using to close the top of hot/cold aisle containment. Polycarbonate (4 mm) closing with reinforced metal frame.



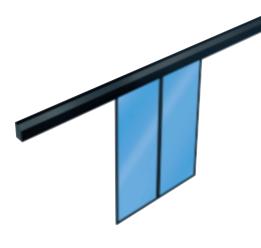
TOP COVER PANEL

For close the top of hot/cold aisle containment. Transparent roof panels providing light transmission (Polycarbonate 4 mm). Width: from 600 mm to 800 mm - Height 120 mm



TOP COVER CABLE SEPARATOR (A TYPE)

Separate cable inlet for data and energy cables, and separate overhead cable trays and dividers minimize the electromagnetic and physical interference. A type separator have H=120 mm and W=600/800 mm options.



CORRIDOR DOORS

Sliding doors providing an airtight enclosure for the aisle containment system. Opening and exit with hand sensor. Dimensions: 42/47U - width 1200 mm.



TOP COVER CABLE SEPARATOR (M TYPE)

Server cabinets offer professional and highly secured management of high density data and power cables. M Type separator have H=200 mm and W=600/800 mm options.

Llegrand

Linkeo Data Center 19" server cabinets

cabinets and equipment











Technical characteristics p. 12

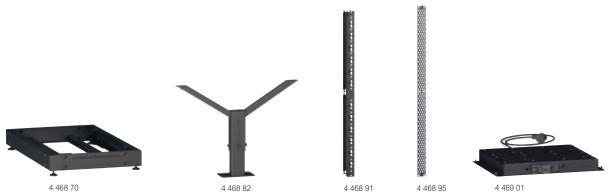
Pack	Cat.Nos	19" ser	ver cabi	nets			
		19" freestanding server cabinets for data storage, server housing, infrastructural cabling and have also solutions for hot/cold corridor datacenter architecture IP 20 baying cabinets 1500 kg load carrying capacity Equipped with 4 x 19" uprights with U marking and adjustable depth Pre-cut cable entries (top and bottom) Cut-out at the top for fan kit Black RAL 9005					
		Complete server cabinets (ready assembled) Equipped with: - Single front and read midcroperforated 80% door - 2 side panels - levelling feet - grounding kit					
1 1 1 1 1 1 1	4 468 00 4 468 01 4 468 02 4 468 03 4 468 04 4 468 05 4 468 07	42 U 42 U 42 U 47 U 47 U 47 U	Height (mm) 2052 2052 2052 2052 2274 2274 2274	Width (mm) 600 600 800 600 600 800 800 800	Depth (mm) 1000 1200 1000 1200 1200 1200 1200 120		

Pack	Cat.Nos	Server cabinet frame
1 1 1 1 1 1 1	4 468 20 4 468 21 4 468 22 4 468 23 4 468 24 4 468 25 4 468 26 4 468 27	Cabinet frame without doors, side panels, levelling feet Capacity Height (mm) Depth (mm) (mm) (mm) (42 U 1967 600 1200 42 U 1967 800 1200 47 U 2189 600 1000 47 U 2189 600 1200 47 U 2189 800 1200 47 U 2189 800 1200 47 U 2189 800 1200
		Front or rear cabinets doors
		Galvanised sheet metal 80% perforations Can open 220° Equipped with locking mechanism (3 point lock) and hinge system Includes 1 piece of door with key
1 1 1	4 468 40 4 468 41 4 468 42 4 468 43	Reversible single opening For cabinets 42 U - 600mm For cabinets 42 U - 800mm For cabinets 47 U - 600mm For cabinets 47 U - 800mm
1 1 1	4 468 50 4 468 51 4 468 52 4 468 53	Double opening (in 2 parts) For cabinets 42 U - 600mm For cabinets 42 U - 800mm For cabinets 47 U - 600mm For cabinets 47 U - 800mm
		Cabinet side panels
1 1 1 1	4 468 60 4 468 61 4 468 62 4 468 63	Fixed to cabinet by cylindrical key lock Set of 2 side panels Side panel in 1 piece for 1000 mm deep cabinets Side panel in 2 pieces (half cabinet height) for 1200 mm deep cabinets For cabinets 42 U - 1000mm (1 part) For cabinets 42 U - 1200mm (2 parts) For cabinets 47 U - 1000mm (1 part) For cabinets 47 U - 1200mm (2 parts)



Linkeo Data Center 19" server cabinets

accessories



Pack	Cat.Nos	Plinths
1 1 1 1	4 468 72	Metal plinths consisting of 4 corner blocks Height: 100 mm Width 600mm - depth 1000 mm Width 600mm - depth 1200 mm Width 800mm - depth 1000 mm Width 800mm - depth 1200 mm
		Casters and levelling kit
1	4 468 80	Set of 4 casters, 2 of which are lockable Must be use with levelling feet Load capacity per caster: fixed (150 kg), moving (112 kg)
1	4 468 81	Levelling feet M10X70 Set of 4 pcs Possible to adjust height of the feet from the floor Load capacity per levelling feet : 375 kg
		Raised floor support kit
1 1	4 468 82 4 468 83	
		Anti-tilt bar
1	4 468 86	Bars provide a high level of stability for the products
		Floor fixing kit
1	4 468 87	Galvanised sheet metal 4-points fixing between the cabinet and the floor - front/rear, right/left Must be use with casters and levelling feet Cabinets floor fixing kit
		Baying kit
1	4 469 47	Set of 2 pcs

To guide and manage the cords vertically Set of 2 pcs Compatible only with 800 mm wide cabinets Finger type Particularly suitable for optical cables 1 4468 91 42 U A 468 92 47 U Metal Particularly suitable for heavier cables 42 U A 468 94 47 U Cable tray Perforated metal tray to fix cables on cabinet sides on cabinet sides 42 U - width 100 mm Fan modules 4 or 6 pcs of fan on a module, with On/Off switch, analog thermostat functions Complete inner wiring 230 V~ Power supply cord 3 m 4 469 04 4689 03 6 fans, 2P+E European standard (French - German standard) plug 1 4 469 03 6 fans, 2P+E European standard (French - German standard) plug 1 4 469 04 6 fans, 2P+E British standard plug 1 4 469 07 Fans, 2P+E British standard plug 1 4 469 07 Fans, 2P+E British standard plug 1 4 469 08 6 fans, 2P+E British standard plug 1 5 Formula PDUs vertically To be fixed in the corner of the cabinet Set of 2 pcs, for 1 PDU Grounding busbar kit 1 4 468 98 6 pieces earthing leads + copper busbar Grounding busbar kit 1 4 468 98 6 pieces earthing leads + copper busbar	91	4 468 95	4 469 01
Set of 2 pcs Compatible only with 800 mm wide cabinets Finger type Particularly suitable for optical cables 4 468 91 42 U 4 468 92 47 U Metal Particularly suitable for heavier cables 4 2 U 4 468 94 47 U Cable tray Perforated metal tray to fix cables on cabinet sides on cabinet sides 4 2 U - width 100 mm 4 468 96 47 U - width 100 mm Fan modules 4 or 6 pcs of fan on a module, with On/Off switch, analog thermostat functions Complete inner wiring 230 V~ Power supply cord 3 m 4 469 01 4 fans, 2P+E European standard (French - German standard) plug 4 469 02 4 fans, 2P+E European standard (French - German standard) plug 4 469 03 fans, 2P+E British standard plug 1 4 469 04 6 fans, 2P+E British standard plug PDU holder To mount PDUs vertically To be fixed in the corner of the cabinet Set of 2 pcs, for 1 PDU	Pack	Cat.Nos	Vertical patchcord manager
Particularly suitable for heavier cables 4 4 468 93 42 U 4 468 94 47 U Cable tray Perforated metal tray to fix cables on cabinet sides 4 2 U - width 100 mm 4 4 468 96 47 U - width 100 mm Fan modules 4 or 6 pcs of fan on a module, with On/Off switch, analog thermostat functions Complete inner wiring 230 V~ Power supply cord 3 m 4 469 01 4 fans, 2P+E European standard (French - German standard) plug 4 469 02 4 fans, 2P+E British standard plug 6 fans, 2P+E British standard plug 6 fans, 2P+E British standard plug 7 Full Holder To mount PDUs vertically To be fixed in the corner of the cabinet Set of 2 pcs, for 1 PDU			Set of 2 pcs Compatible only with 800 mm wide cabinets Finger type Particularly suitable for optical cables 42 U
Perforated metal tray to fix cables on cabinet sides 42 U - width 100 mm 47 U - width 100 mm Fan modules 4 or 6 pcs of fan on a module, with On/Off switch, analog thermostat functions Complete inner wiring 230 V \cap Power supply cord 3 m 4 fans, 2P+E European standard (French - German standard) plug 1 4 469 03 6 fans, 2P+E British standard plug 1 4 469 03 6 fans, 2P+E European standard (French - German standard) plug 1 4 469 04 6 fans, 2P+E British standard plug 1 4 469 04 6 fans, 2P+E British standard plug 1 4 469 04 6 fans, 2P+E British standard plug 1 4 469 04 6 fans, 2P+E British standard plug 1 4 469 04 6 fans, 2P+E British standard plug 1 4 468 97 Set of 2 pcs, for 1 PDU			Particularly suitable for heavier cables 42 U
on cabinet sides 4 4 468 95 4 2 U - width 100 mm 4 4 468 96 Fan modules 4 or 6 pcs of fan on a module, with On/Off switch, analog thermostat functions Complete inner wiring 230 V Power supply cord 3 m 4 469 01 4 469 02 4 fans, 2P+E European standard (French - German standard) plug 4 469 03 6 fans, 2P+E British standard plug 6 fans, 2P+E British standard plug 7 PDU holder To mount PDUs vertically To be fixed in the corner of the cabinet Set of 2 pcs, for 1 PDU			Cable tray
4 or 6 pcs of fan on a module, with On/Off switch, analog thermostat functions Complete inner wiring 230 V \rightarrow Power supply cord 3 m 1 4 469 01 4 fans, 2P+E European standard (French - German standard) plug 1 4 469 02 4 fans, 2P+E British standard plug 1 4 469 03 6 fans, 2P+E European standard (French - German standard) plug 1 4 469 04 6 fans, 2P+E British standard plug PDU holder To mount PDUs vertically To be fixed in the corner of the cabinet Set of 2 pcs, for 1 PDU			on cabinet sides 42 U - width 100 mm
On/Off switch, analog thermostat functions Complete inner wiring 230 V\circ Power supply cord 3 m 4 469 01 4 fans, 2P+E European standard (French - German standard) plug 4 469 02 4 fans, 2P+E British standard plug 6 fans, 2P+E European standard (French - German standard) plug 7 4 469 04 6 fans, 2P+E British standard plug 8 PDU holder 8 To mount PDUs vertically 9 To be fixed in the corner of the cabinet 9 Set of 2 pcs, for 1 PDU			Fan modules
To mount PDUs vertically To be fixed in the corner of the cabinet Set of 2 pcs, for 1 PDU	1	4 469 02 4 469 03	On/Off switch, analog thermostat functions Complete inner wiring 230 V \rightarrow Power supply cord 3 m 4 fans, 2P+E European standard (French - German standard) plug 4 fans, 2P+E British standard plug 6 fans, 2P+E European standard (French - German standard) plug
To be fixed in the corner of the cabinet Set of 2 pcs, for 1 PDU			PDU holder
Grounding busbar kit 4 468 98 6 pieces earthing leads + copper busbar	1		To be fixed in the corner of the cabinet Set of 2 pcs, for 1 PDU
1 4 468 98 6 pieces earthing leads + copper busbar			Grounding busbar kit
	1	4 468 98	6 pieces earthing leads + copper busbar



Linkeo Data Center 19"server cabinets

Linkeo Data Center

accessories (continued)





Pack	Cat.Nos	Linkeo fixed shelves
1	6 465 07	Screw fixing on 4 x 19" uprights Height 1 U Max. load: 50 kg Black RAL 9005 Shelf depth 825 For depth 1000 mm
		Linkeo telescopic shelves
1	6 465 10	Screw fixing on 4 x 19" uprights. Height 1 U Max. load: 30 kg. Black RAL 9005 Shelf depth 825 For depth 1000 mm
		19" management panels
1	6 465 20 6 465 21	
		19" blanking plates
1	0 465 32 0 465 33	
		LED Lighting with switch
1	0 464 91	60° swivel Prewired with 2 m length power cord Magnets fastening

Tests and complied standards

- 1) ISO 9001:2015 Quality Management System 2) ISO 14001:2015 Environnemental Management System 3) ISO 27001:2013 Information Security Management System
- 4) ISO 45001:2018 Occupational Health and Safety Management System
 5) 19" device mounting uprights IEC 297-1
- 6) EN 61587-1 Mechanical structures for electronic equipment 7) All cabinet sizes complies with IEC 297-2

Resistance to environmental conditions and corrosion:

- stability, mechanical safety, resistance to static, dynamic and mechanical loads
- resistance to vibration, mechanical shock and impact
 degrees of mechanical protection provided by the enclosure (IP20),
 electrical grounding continuity
 fire and flame resistance

Have been tested according to the standard - EN 61587-1 with the normative standards: IEC 60917, IEC 60297, IEC 60068-1, IEC 60068-2, IEC 60695-11-10, IEC 60950-1, contained and certified by the notified organizations

TSE certificate number:

- 003788-TSE-08/02

EAC certifcate number:

- 0443637, 0776963, 0345864, 0401678, 0776653

Corrosion:

ISO 9227 Standard complied by the test report METALTEK AB-0547-T / 0157-1 $\,$

Transport:

- ETS 300 019-1-2 Class 2-3 Comply with internal testing

- ETS 300 019-1-1 Class 1-2 Comply with internal testing

Surface finish:

Electrostatic powder coated c/with surface treatment, 80 +/-5 micron paint thickness



Linkeo Data Center corridor and server cabinets

airflow solutions



In data center rooms, to optimize cooling efficiency in data center

Pack	Cat.Nos	Corridor doors
1 1 1 1	4 469 21 4 469 22	Sliding doors providing an airtight enclosure for the aisle containment system Double opening Opening and exit with hand sensor Tempered glass Corridor door fixing module included Can be connected to system to force the door to open or close (e.g fire systems) Equiped with 2 batteries inside which activates automatically and keeps the door running incase of a power cut 42 U - width 1200 mm - for cabinet depth 1000 mm 42 U - width 1200 mm - for cabinet depth 1000 mm 47 U - width 1200 mm - for cabinet depth 1000 mm 47 U - width 1200 mm - for cabinet depth 1000 mm
		Corridor rear panel modules
1 1	4 469 30 4 469 31	To close the back of the aisle containment system When you don't need a second door 42 U cabinets height - 1200 mm corridor width 47 U cabinets height - 1200 mm corridor width
		Top panel module
1 1 1 1	4 469 10 4 469 11 4 469 12 4 469 13	Top panel edge module, 600 x 1200 mm

Pack	Cat.Nos	Top cover panel
1 1		For close the top of hot/cold aisle containment Transparent roof panels providing high translucency / light transmission Polycarbonate (4 mm) Width 600 mm, height 120 mm Width 800 mm, height 120 mm
		Air flow management top and bottom and side panels
		To create an airtight enclosure
1		Top and bottom panels Width 600 mm Width 800 mm
1 1 1 1	4 469 53 4 469 54	Side panels 42 U, width 600 mm 42 U, width 800 mm 47 U, width 600 mm 47 U, width 800 mm
		Top cover cable separator
1 1 1	4 469 44	Seperate cable inlet for data and energy cables, and seperate overhead cable trays and dividers minimize the electromagnetic and physical interference A type, height 120 mm, width 600 mm A type, height 120 mm, width 800 mm M type, height 200 mm, width 800 mm M type, height 200 mm, width 800 mm



Linkeo Data Center 19" server cabinets

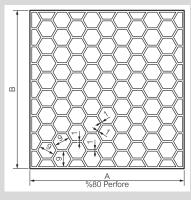
■ Technical characteristics

Index of protection

• IP20 according to EN 61587-1, IEC 60529 IP20: Protected against solid objects larger than 12.5 mm in diameter

Front door structure

- Produced from galvanised sheet metalThe door has 80% perforations to have a good air flow
- Provides enough space for patch cords between door and equipment
 • Can open 220°



Locking mechanism

3 point lock, handle with semi cylindrical barrel Hinge System:
 3 pcs Zinc alloy Steel to fix the door

Side panel structure

- Produced from DKP sheet metal
- Thickness is 1 mmFixed to cabinet by cylindrical lock
- 2 pcs in one side

Rear door structure:

- Produced from DKP sheet metal
 The flat door has 80% perforations to have a good air flow
 Can open 220°

Locking mechanism

3 point lock, handle with semi cylindrical barrel

Hinge System

3 pcs Zinc alloy Steel to fix the door

Roof structure

- Produced from DKP sheet metal
 Suitable to fan module fixing
 Plenty of cable entry possibility
 Brush type cable entries

Purchased product certification

Sheet steel

EN 10346:20015 DX51D+Z, EN 10130:2006 DC01

Electrostatic powder coat NG:

ISO 6860, ISO 2409, ISO 1520, ISO 2815, ISO 6272, ISO 6270-1, ISO 2812, ISO 9001, RoHS

TS EN 12150-A, TS EN 1863-1

Lock:

IEC 62474, REACH, RoHS

Castors:

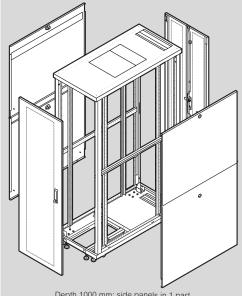
ISO 9001, TS EN 12532, RoHS

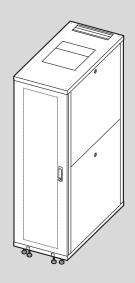
IEC 60335-2-80:2002, IEC 60335-1 2010



Linkeo Data Center 19" server cabinets (continued)

■ 19" Linkeo server width 600 mm

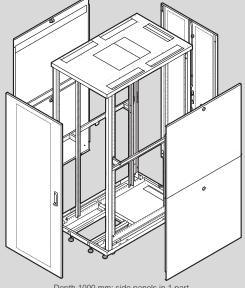


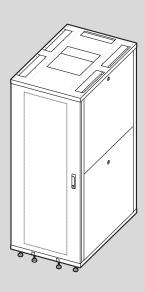


Depth 1000 mm: side panels in 1 part Depth 1200 mm: side panels in 2 parts

Cat. Nos	U size	Width overall (mm)	Depth overall (mm)	Depth max. mounting profile (mm)	Height vertical mounting profile (mm)	Height without levelling feet (mm)	Height with levelling feet min. (mm)	Height with casters (mm)
4 468 00/20	42	600	1000	830	1867	1967	2052	2047
4 468 01/21	42	600	1200	1030	1867	1967	2052	2047
4 468 04/24	47	600	1000	830	2089	2189	2274	2269
4 468 05/25	47	600	1200	1030	2089	2189	2274	2269

■ 19" Linkeo server width 800 mm



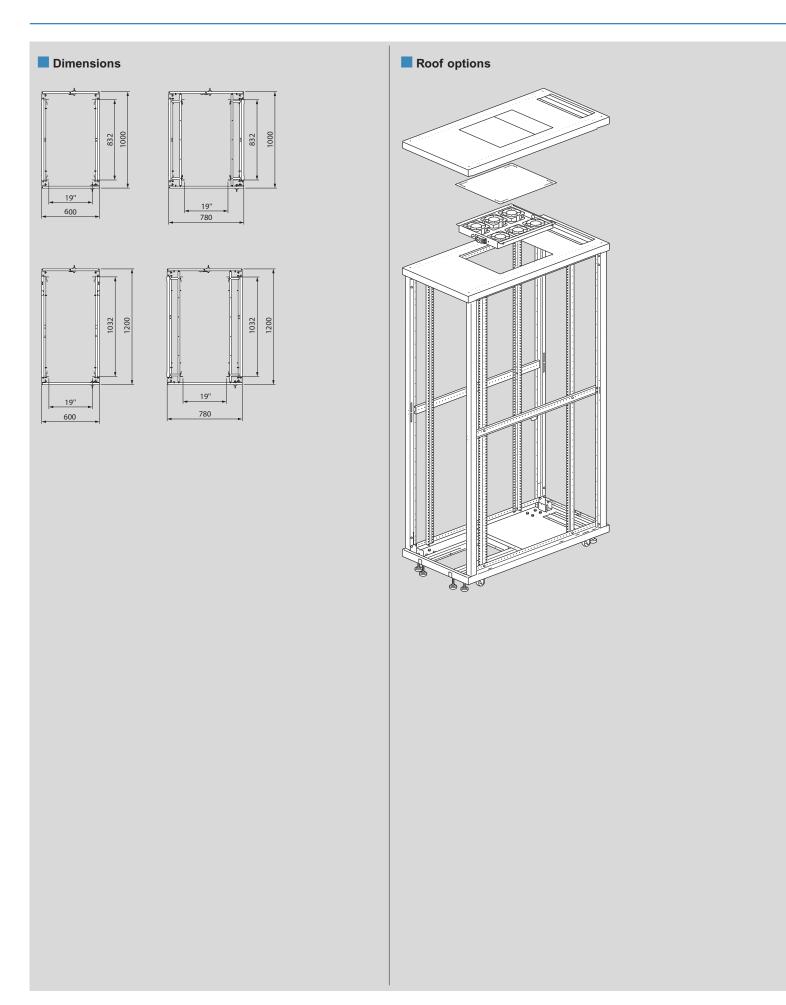


Depth 1000 mm: side panels in 1 part Depth 1200 mm: side panels in 2 parts

	Cat. Nos	U size	Width overall (mm)	Depth overall (mm)	Depth max. mounting profile (mm)	Height vertical mounting profile (mm)	Height without levelling feet (mm)	Height with levelling feet min. (mm)	Height with casters (mm)
	4 468 02/22	42	800	1000	830	1867	1967	2052	2047
	4 468 03/23	42	800	1200	1030	1867	1967	2052	2047
ı	4 468 06/26	47	800	1000	830	2089	2189	2274	2269
	4 468 07/27	47	800	1200	1030	2089	2189	2274	2269

la legrand

Linkeo Data Center 19" server cabinets (continued)





Views Iso view 450 102 96,50 Front view Side view Rear view Front view Organiser 450 Top view Bottom view



Linkeo Data Center corridor

Automatic opening

Wing Frame Metarial:

Aluminium

Glass:

4+4 mm transparent laminated glass

Carrier System:

5x60x120 mm - 4 bracelets ; 40x60x2mm Alm. Profile posts

Carrier Wide:

3200 mm - 3600 mm (Depends to the cabinets depth)

Security Sensor:

Active 8 curtain photocell sensor

Mechanism Wide:

2500 mm

Corridor Wide:

1200x2240 m

Wings:

2 x moving wings, automatic

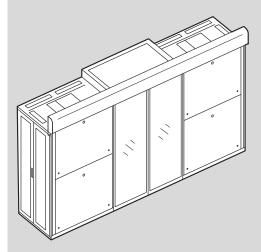
Locking:

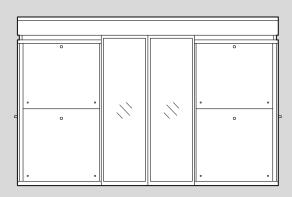
Electro-mechanic locking systems

Colour:

RAL 9005

System is CE, TUV and ISO certificated







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