INDUSTRY
& ELECTRONICS

2018

Atos

The Art of enclosing electronics

EXPERIENCE

Atos **designs, develops** and **manufactures in France**, at its factories at Glos (Normandy) and Carros (Côte d'Azur), casing equipment for the electronics industry: cabinets, cases, racks, systems, fine sheet metal equipment, etc.

For more than 40 years, ATOS has been working to provide an indoor or outdoor enclosure solution for every requirement in the electronics industry: standard, adapted standard, customized or production as per drawings.

With its strong **customer focus**, ATOS serves the telecommunications, transportation (aerospace, railway, aviation, navy, etc.), electronics and IT markets (OEM and datacenters: HPC, production, hosting, etc.), in both the civil and defence fields.

Glos establishment - Normandy

Carros factory - Côte d'Azur

Our cooling systems contribute to saving energy and improving the carbon footprint of computer fleets.

KNOW-HOW & DEVELOPMENT

Atos has developed, in addition to its original sheet metal and modular mechanics businesses, a range of services enabling it to offer its customers

A RANGE OF SKILLS
ADAPTED TO THE ELECTRONICS MARKET:

DESIGN AND DEVELOPMENT

- Two Design Offices design standard, adapted or "custom-made" products.
- Mechanical, electrical or thermal dimensioning: Power distribution,
- Air cooling, water cooling systems up to 45 kW per cabinet.
- Solutions architecture: integration, energy, cooling, supervision.
- Mechanical and sheet metal design in 3D CAD.
- Electrical design: preparation of diagrams.

PROTOTYPING

A focused and responsive organisation builds prototypes and guarantees their subsequent industrialisation.

TESTS

Whether using its internal resources or working with partner laboratories, Atos is able to plan and carry out an appropriate environmental qualification for electronics, telecommunications and IT projects: Loaded cabinet transport (up to 1200 kg), IP or IK tests, thermal tests with air or water cooling, supervision.

MANUFACTURING

Manufacturing in France enables us to guarantee regular and constant quality, subject to European and French standards. Our racks and cooling systems are manufactured entirely in our cutting, bending, welding, painting and assembly workshops.

PRE-FITTING, INTEGRATION

Supply of AC and DC UPS, power distribution, integration of hardware or sub-assemblies (power supplies, backplanes, boards, etc.) are additional activities available in both factories for optimum manufacturing efficiency. In this manner, DataCenter racks can be entirely fitted with prewired PDUs, with optimised and factory-tested cable volumes. Similarly, a supervision system can be configured in the cabinet before shipment.

PROJECT MANAGEMENT, ROLL-OUT AND LOGISTICS

Specific personnel monitor the roll-out of projects and stock control in each site, in direct contact with the customers. With its own fleet and network of carrier partners, Atos controls the entire logistics chain up to delivery on site under roll-out and the complete installation of cabinets in hot or cold aisles with their cooling systems.

DISTRIBUTION

To remain in close contact with all users, a range of reserved Atos products detailed in a separate catalogue can be found in branches of main general or specialist distributors.

FURTHER INFORMATION AT WWW.ATOS-RACKS.COM

A sales and marketing team focused on your needs.

Patrick Desbissons
landline: 0033 (0)2 31 48 31 27
mobile: 0033 (0)6 11 89 00 21
pdesbissons@atos-racks.com
Assistant: Floriane
landline: 0033 (0)2 31 48 31 60
fdeclerck@atos-racks.com

Delphine Donzallaz
landline: 0033 (0)1 30 16 21 11
mobile: 0033 (0)6 32 61 36 56
ddonzallaz@atos-racks.com
Assistant: Aurélie
landline: 0033 (0)1 30 16 21 35
afleche@atos-racks.com

Michel Dussol
landline: 0033 (0)1 30 16 21 18
mobile: 0033 (0)6 70 88 01 37
mdussol@atos-racks.com
Assistant: Aurélie
landline: 0033 (0)1 30 16 21 35
afleche@atos-racks.com

Patrick Bigand
mobile: 0033 (0)6 32 60 79 42
pbigand@atos-rack.com
Assistant: Stéphanie
landline: 0033 (0)1 30 16 21 14
sfangouze@atos-racks.com
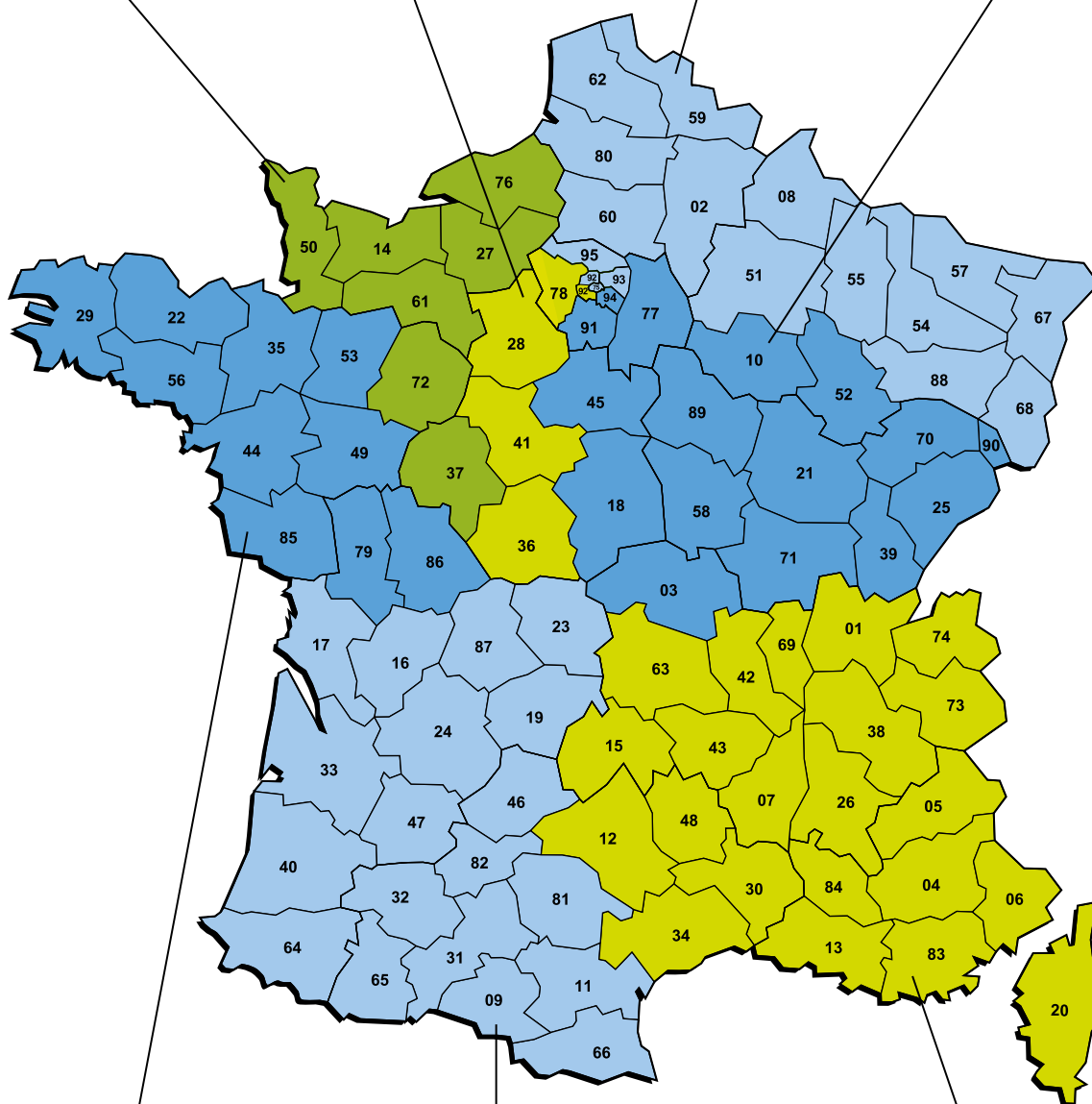
Patrice Hardoin
mobile: 0033 (0)6 07 05 55 22
phardoin@atos-racks.com
Assistant: Alexandra
landline: 0033 (0)2 31 48 31 18
aleboucher@atos-racks.com

Thomas Marsan
mobile: 0033 (0)6 85 21 15 84
tmarsan@atos-racks.com
Assistant: Alexandra
landline: 0033 (0)2 31 48 31 18
aleboucher@atos-racks.com

Eric Palamara
mobile: 0033 (0)6 87 99 21 14
epalamara@atos-racks.com
Assistant: Stéphanie
landline: 0033 (0)1 30 16 21 14
sfangouze@atos-racks.com

Find us at www.atos-racks.com

INDUSTRY & ELECTRONICS

MODULAR MECHANICS

NETWORKS AND TELECOMS

DATACENTER

INDUSTRY AND ELECTRONICS

DEFENCE

SUB-CONTRACTING

Please contact the sales and marketing team or go to www.atos-racks.com *for a catalogue*

CABINETS AND MINI-CABINETS

Evolution offers an extended range of electronics and computer cabinets that meet European standard IEC 297.

- Simple, modular design
- Sturdiness
- Full range of accessories

AVAILABILITY

560-wide rack				600-wide rack								800-wide rack				
Height	D.500	D.600	D.800	Height	D.600	D.800	D.900	Height	D.600	D.800	D.900	D.1,000	Height	D.600	D.800	D.900	D.1,000
12 U	●	●	●	13 U	●	●	●	36 U	●	●	●	●	36 U	●	●	●	●
13 U	●	●	●	18 U	●	●	●	40 U	▲	▲			40 U				
18 U	●	●	●	22 U	▲	▲	▲	42 U	●	●	●	●	42 U	●	●	●	●
24 U	●	●	●	27 U	▲	▲	▲	45 U	●	●	●	●	45 U	●	●	●	●
				31 U	▲	▲	▲	47 U	●	●	●	●	47 U	●	●	●	●

● *in stock.* ▲ *to order.*

These products can be fully customised in terms of dimensions, colours, markings, etc. Please ask us.

19" CABINETS FOR SEVERE ENVIRONMENTS
- ## IP 21 TO IP 55
- ## EMC AND HF ATTENUATION
- ## AIR-CONDITIONING

The OPTIMALE cabinet has been designed as a rational solution for the protection of 19" equipment in severe indoor environments - damp and/or dusty premises, medium and high electromagnetic constraints, in both immunity and emission.

AVAILABILITY

Height	600-wide rack			800-wide rack		
	D.600	D.800	D.1000	D.600	D.800	D.1000
24 U	●	●	●	●	●	●
38 U	●	●	●	●	●	●
42 U	●	●	●	●	●	●
47 U	●	●	●	●	●	●

● *in stock.* ▲ *to order.*

These products can be fully customised in terms of dimensions, colours, markings, etc. Please ask us.

OPTIMALE RANGE > CONTENTS PAGE 41

IP55 INDOOR CASE

The IP55 sealed case is designed especially to meet the need for electrical installation solutions requiring good sealing protection.

The case is offered in painted steel for indoor applications but can also be produced in painted aluminium or stainless steel upon request for more severe environmental requirements.

AVAILABILITY

Height	Case with solid door			Case with glass door IP55			Case with ventilated door IP54		
	D.400	D.500	D.600	D.400	D.500	D.600	D.400	D.500	D.600
6 U	●			●			●		
9 U	●	●		●	●		●	●	
12 U		●			●			●	
15 U		●	●		●	●		●	●
18 U			●			●			●

● in stock.   ▲ to order.

These products can be fully customised in terms of dimensions, colours, markings, etc. Please ask us.

IP 55 RANGE > CONTENTS PAGE 85

THE **OUTDOOR** RANGE

NEW!

OUTDOOR CABINETS AND CASES

The ATOS cabinets and cases in the OUTDOOR range are designed specifically to withstand the most severe environmental requirements. The case provides full protection against very bad weather (rain and snow) through its high IP55 sealing level and its machined diamond-shaped roof.

The cases are offered in single or double skin versions. The double skin technology protects against the sun's rays and allows the outside walls to be changed around in the event of vandalism or an accident.

CABINETS AVAILABILITY

Height		Width	Depths available in stock		
Usable	Overall		500 mm	600 mm	700 mm
9 U	622 mm	Single skin 600 mm	▲	▲	▲
18 U	1022 mm		●	●	●
24 U	1289 mm	Double skin 650 mm	▲	●	●
31 U	1600 mm		▲	▲	●

● *in stock.*   ▲ *to order.*

CASES AVAILABILITY

Height	With solid door			With ventilated door IP54		
	D.400	D.500	D.600	D.400	D.500	D.600
9 U	■	■		■	■	
12 U		■			■	
15 U		■	■		■	■
18 U			■			■

■ *NEW! Ask your salesperson for lead times (p.4).*

These products can be fully customised in terms of dimensions, colours, markings, etc. Please ask us.

THE AMPLITUDE RANGE

TABLE CASE

The AMPLITUDE 19" case is a solution to suit applications needing little space (up to 12U) and is easy to transport. It exists with or without a front door.

It is designed (robust steel construction, epoxy-polyester powder coating) to protect equipment and aesthetically will integrate seamlessly into all types of room.

AVAILABILITY

Height	Cabinet 532 wide, 500 deep	
	Without door	Inspection window door
6 U	●	●
9 U	●	●
12 U	●	●

● in stock.   ▲ to order.

These products can be fully customised in terms of dimensions, colours, markings, etc. Please ask us.

THE **OPTIMA II** RANGE

FIXED OR SWIVEL WALL CASE

The OPTIMA 19" wall case has been designed especially to meet the wishes of telephone and local network installers:

- Robust welded steel construction, with epoxy-polyester powder coating
- Easy to customise aesthetics
- Easy wiring: minimum distance between wall and cable I/O, 19" fixings on wall panel
- Possibility of standard ventilation
- Possibility of housing metric equipment.

OPTIMA is upgradeable: it can house equipment compliant with metric and ETSI standards (IEC 917, ETS 300-119) by substituting metric uprights for its 19" uprights.

AVAILABILITY

Height	Fixed wall case		Swivel wall case (on fixed casing)	
	D.400 mm	D.500 mm	D.400 (+100) mm	D.500 (+100) mm
6 U	●	●	●	●
9 U	●	●	●	●
12 U	●	●	●	●
15 U	●	●	●	●
18 U	●	●	●	●

● *in stock.*   ▲ *to order.*

These products can be fully customised in terms of dimensions, colours, markings, etc. Please ask us.

OPTIMA II RANGE > CONTENTS PAGE 113

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THE ATLAS RANGE
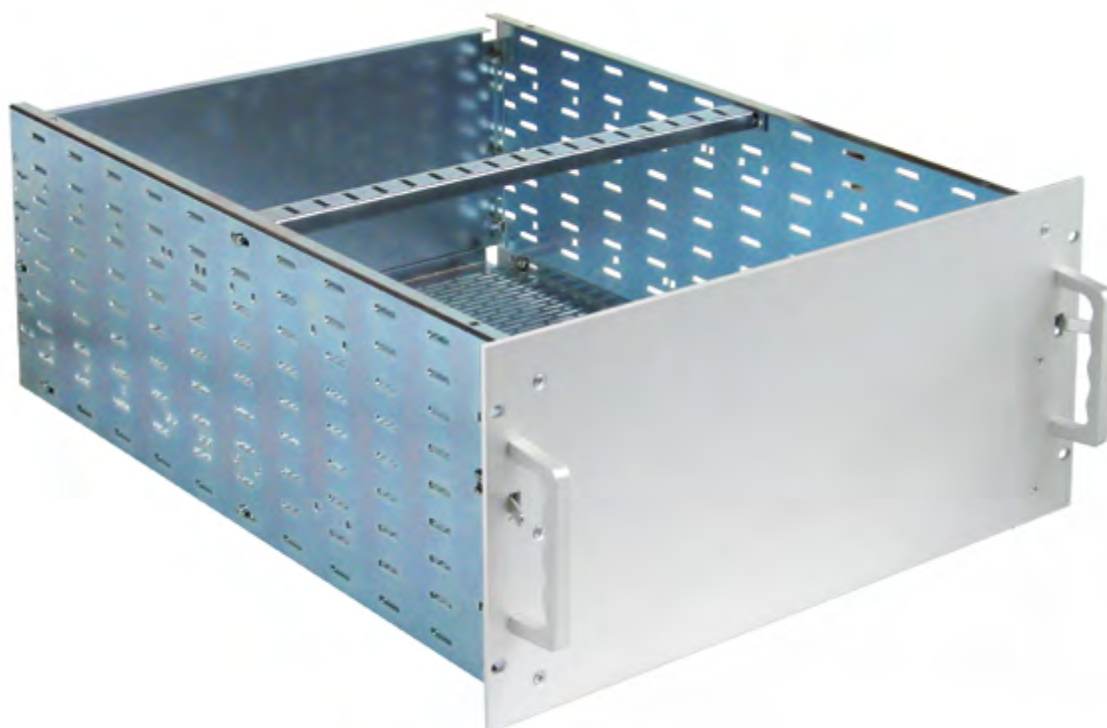
19" CHASSIS FOR NON-19" EQUIPMENT

ATLAS is a 19" drawer with handles that can incorporate non-standard components: batteries, power supplies, measuring cabinets, etc.

ATLAS can withstand heavy loads:
- Zinc-plated steel chassis,
- Front panel in 4 mm thick aluminium,
- Slides with high load capacity.

Its design makes it highly modular:
- Possible height adjustments of the front panel,
- Multiple positions of the bottom or rear panel,
- Possibility of fitting slides and locking devices.

AVAILABILITY

Height	Chassis with solid bottom			Chassis with perforated bottom		
	D.360	D.460	D.563	D.360	D.460	D.563
2 U	●	●		●	●	
3 U	●	●	●	●	●	●
4 U	●	●	●	●	●	●
5 U	●	●	●	●	●	●
6 U	●	●	●	●	●	●
7 U	●	●	●	●	●	●
8 U	●	●	●	●	●	●
9 U	●	●	●	●	●	●
10 U	●	●	●	●	●	●
11 U	●	●	●	●	●	●
12 U	●	●	●	●	●	●

● *in stock.*   ▲ *to order.*

These products can be fully customised in terms of dimensions, colours, markings, etc. Please ask us.

ATLAS RANGE > CONTENTS PAGE 117

UNIVERSAL ACCESSORIES
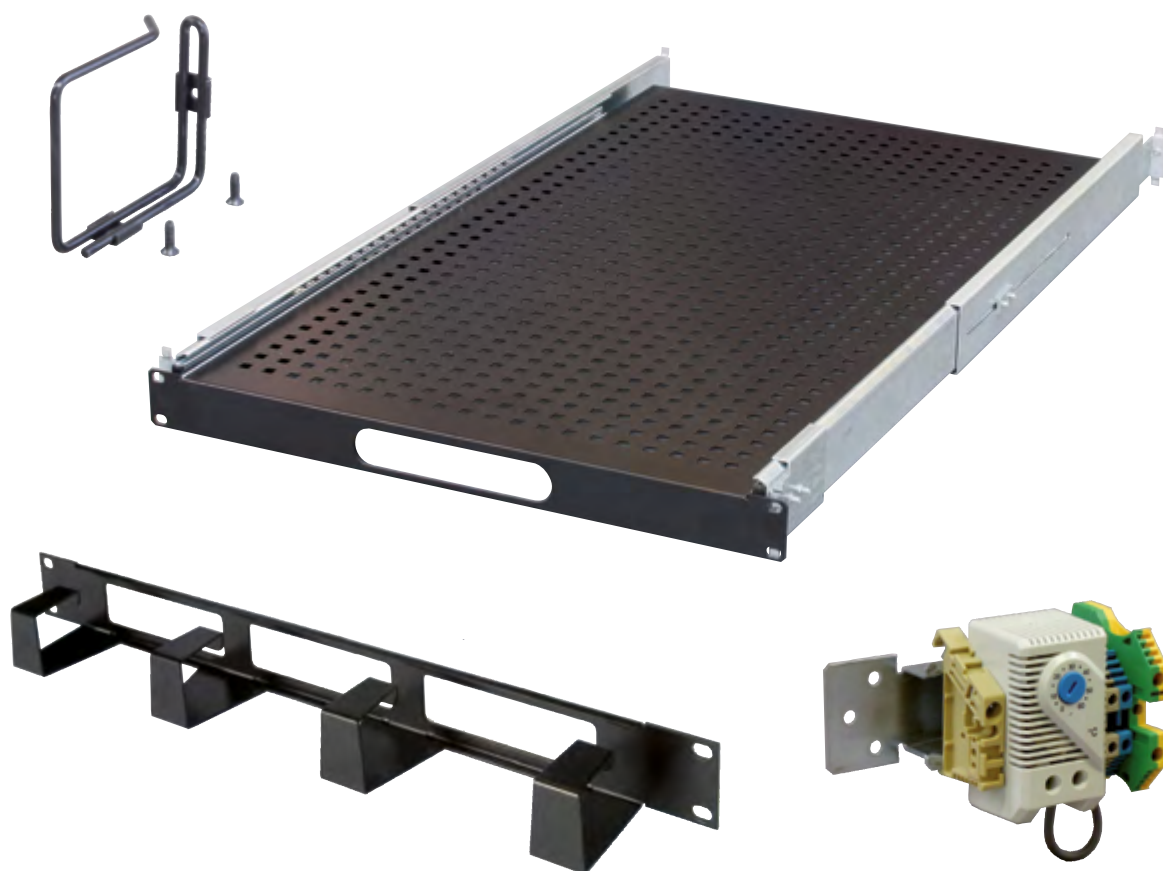
- **BRACKETS**
- **WIRING**
- **EQUIPMENT**

Atos offers an entire range of universal accessories in 19" format to match your needs.

Evolution range

Configuration W.600

Atos EVOLUTION

RACK WIDTH 600

Composition:
1 structure comprising:
- 2 white zinc-plated steel frames,
- 2 front outside uprights in painted steel,
- 2 rear outside uprights in painted steel,
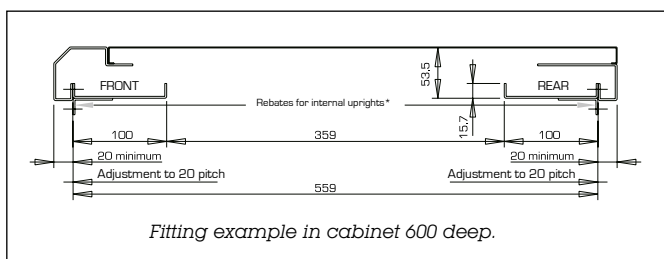- 4 feet with black polyamide baseplate,
- 2 panels (lower and upper) at the front.

Options:
Roofs, doors, rear panels, rebates, inside uprights, paint colours.

Accessories:
19" adaptation, inside uprights, earthing kit, etc.

Height	Depth 600	Depth 800	Depth 900	D. 1000
13 U	**1006500**	**1006510**	1009548	-
18 U	**1006501**	**1006511**	1009549	-
22 U	1006502	1006512	1009552	-
27 U	1006503	1006513	-	-
31 U	1006504	1006514	-	-
36 U	**1006505**	**1006515**	1009561	1009562
40 U	1006506	1006516	-	-
42 U	**1006507**	**1006517**	1009568	1009569
45 U	**1006508**	**1006518**	1009572	1009573
47 U	**1006509**	**1006519**	1009576	1009577

Fitting example in cabinet 600 deep.

Hght.	2 uprights	4 uprights	Hght.	2 uprights	4 uprights
12 U	**1003357**	**1003358**	31 U	1002395	1002405
13 U	**1002391**	**1002401**	36 U	**1002396**	**1002406**
18 U	**1002392**	**1002402**	40 U	1002397	1002407
22 U	1002393	1002403	42 U	**1002398**	**1002408**
24 U	**1003355**	**1003356**	45 U	**1002399**	**1002409**
27 U	1002394	1002404	47 U	**1006148**	**1006229**

INTERNAL UPRIGHTS

Characteristics:
- Fit onto all Évolution cabinet types,
- Adjustable in depth at 20 mm increments.
- Rebates can be adapted for 19" front panels,
- The flanges have punch holes every half-unit, thus facilitating the fitting of collars for cable bundles

Composition:
- Choice of 2 or 4 uprights + 1 set of fasteners.
- Material: galvanised steel.
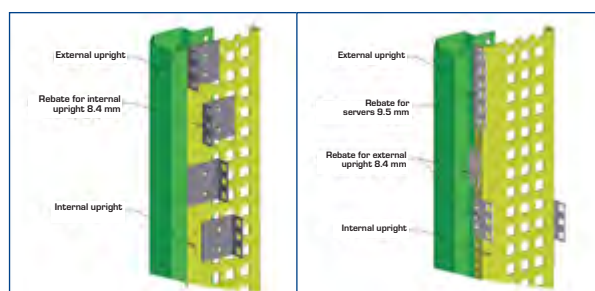
See drawings and dimensions page 36

DEPTH CROSSBAR KIT

Used as fixing support for inside uprights.

Composition:
- 2 parts + brackets + fasteners.
- Material: galvanised steel.

	Depth 600	Depth 800	Depth 900	D. 1000
L.600	**1002749**	**1002750**	**1006125**	**1007916**

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Configuration W.600

The 19" upright in the Evolution design is split into two:
- *The inside upright to which are fixed the shelves and sliders,*
- *The fixing rebate for 19" equipment, fixed to the inside upright over all or part of the height and in several positions.*

See drawings and dimensions page 36

Uprights in 19" cabinet:
Distance between centres = 267 mm
Passage = 455 mm
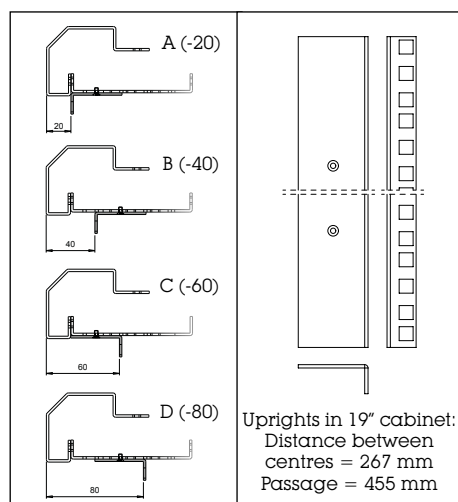
N x U	Part no.
1 U	**1002411**
3 U	**1002412**
12 U	**1002878**
13 U	**1002413**
18 U	**1002414**
22 U	**1002415**
24 U	**1002879**
27 U	**1002416**
31 U	**1002417**
34 U	**1002990**
36 U	**1002418**
40 U	**1002419**
42 U	**1002420**
45 U	**1002421**
47 U	**1006149**

19" REBATES FOR INSIDE UPRIGHTS □ 8.4

Characteristics:
- Adapt to all types of Evolution cabinet 600, 800, 900 and 1000 deep,
- Used to set back the support plane of front panels of baskets or chassis (version A, B, C and D),
- Unless specified on the order, fitting in version C (as per standards DIN 41494, NFC 20 151 and IEC 297).

Composition:
- 2 rebates + fasteners.
- Material: galvanised steel.
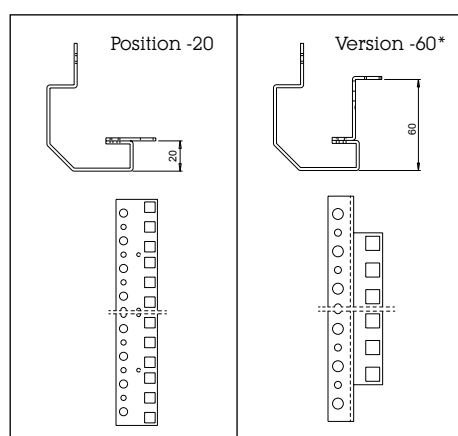
Uprights in 19" cabinet:
Distance between centres = 467 mm,
Passage = 455 mm

| N x U	-20	-60
1 U	**1002422**	1002433
3 U	**1002423**	1002434
6 U	**1003277**	-
12 U	**1002880**	1002882
13 U	**1002424**	1002435
18 U	**1002425**	1002436
22 U	**1002426**	1002437
24 U	**1002881**	1002883
27 U	**1002427**	1002438
31 U	**1002428**	1002439
36 U	**1002429**	1002440
40 U	**1002430**	1002441
42 U	**1002431**	1002442
45 U	**1002432**	1002443

19" REBATES FOR OUTSIDE UPRIGHTS □ 8.4 MM

Characteristics:
- Adapt to all types of Evolution cabinet 600 to 1000 deep,
- Used for a position at -20 or -60 of the support plane of front panels of baskets or chassis,
- Can also be fitted on rear uprights.

Composition:
- 2 rebates + fasteners.
- Material: galvanised steel.
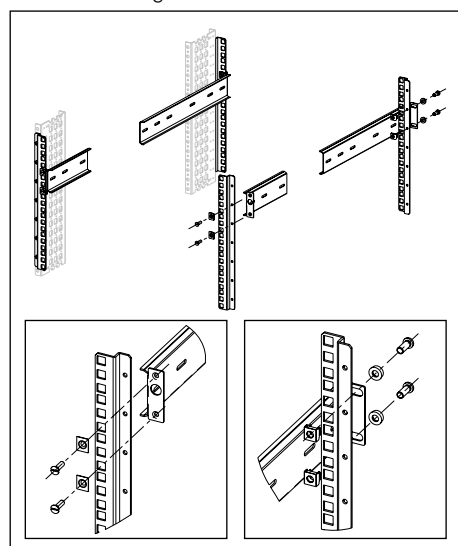
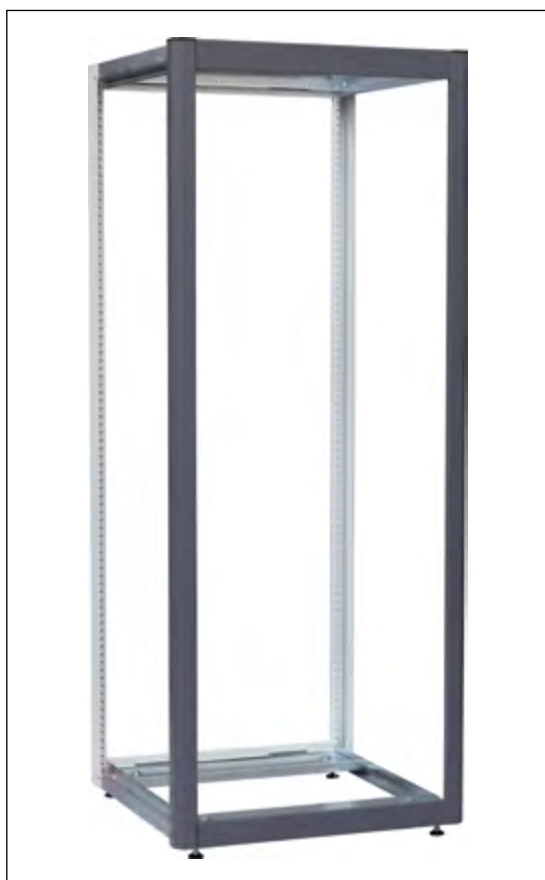| N x U	Part no.
1 U	**1006239**
2 U	**1006824**
3 U	**1006796**
5 U	**1006240**
7 U	**1006241**
13 U	**1006797**
18 U	**1006798**
22 U	**1006799**
36 U	**1006224**
42 U	**1006225**
45 U	**1006226**
47 U	**1006227**

REBATES 19" SERVER FOR □ 9.5

Some servers can be incorporated with telescopic slider kits supplied by the manufacturer, kits fitting on 19" rebates, punched to 9.5 mm square.

- The 19" rebates for server cabinets are adapted specially for the fitting of telescopic runners fitted with screw-in or hook-on adaptors.
- They are available in full or partial height to mix rackable servers and towers. They stand on top of each other without losing working height.

Composition:
- 2 rebates + fasteners.
- Material: galvanised steel.

References in bold type: available immediately.
Normal type: ask your salesperson for lead times.

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Configuration W.800

RACK WIDTH 800

Characteristics:
This model exists in 4 depths and 4 heights, 36U, 42U, 45U, 47U.
It offers 685 mm passage between outside uprights.

Composition:
1 structure comprising:
- 2 white zinc-plated steel frames,
- 2 front outside uprights in painted steel,
- 2 rear outside uprights in painted steel,
- 4 adjustable feet with black polyamide baseplate.
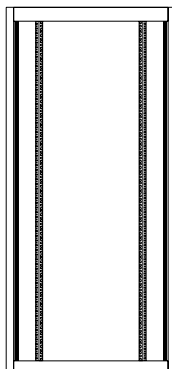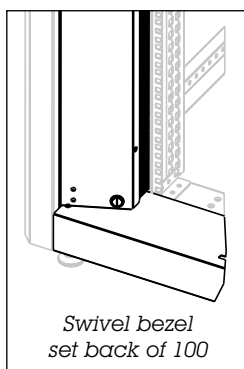- 2 panels (lower and upper) at the front.

Options:
Roofs, doors, rear panels, rebates, inside uprights, paint colours.

Accessories:
19" adaptation, inside uprights, earthing kit, etc.

Height	Depth 600	Depth 800	D.900	D.1,000
36 U	**1006526**	**1006530**	**1009580**	**1009581**
42 U	**1006527**	**1006531**	**1009584**	**1009585**
45 U	**1006528**	**1006532**	**1009588**	**1009589**
47 U	**1006529**	**1006533**	**1009592**	**1009593**

ADAPTATIONS 19" TOTAL HEIGHT

Swivel bezel set back of 100

Characteristics:
- Adapt to cabinet 800 wide, 600, 800, 900 or 1000 deep.
- Fixing 19" on front panel possible.
- Different versions are available:
  - 19" centred or off-centre (give the side when ordering),
  - with or without cable cut-outs in the front panel,
  - with swivel bezels.
- Comprise 2 or 4 inside uprights and 2 inside upright rebates Ø 8.4.

Height	36 U		42 U		45 U		47 U	
Number of uprights	2	4	2	4	2	4	2	4
19" off-centre	**1005794**	**1005798**	**1005802**	**1005806**	**1005810**	**1005814**	-	-
19" centred	**1005792**	**1005796**	**1005800**	**1005804**	**1005808**	**1005812**	-	-
19" centred + fixed cable cut-out*	**1005793**	**1005797**	**1005801**	**1005805**	**1005809**	**1005813**	**1006191**	**1006193**
19" centred + fixed cable cut-out* set back of 100	**1005795**	**1005799**	**1005803**	**1005807**	**1005811**	**1005815**	**1006192**	**1006194**
	1006573	**1006574**	**1006575**	**1006576**	**1006577**	**1006578**	**1006579**	**1006580**

* Cable cut-out dimensions: 240 x 90mm.

| Brushes for swivel bezel	36 U	42 U	45 U	47 U
Set of 2 brushes	**1006344**	**1006345**	**1006346**	**1006347**

Option: Kit with 2 lower and upper **horizontal panels,** with setback 100 (incompatible with swivel bezels).

1005816

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

Configuration W.800

• CENTRED 19" UPRIGHT KITS, PARTIAL HEIGHT ⧄ 8,4

Characteristics:
- Assembly parts in galvanised steel, rebates and uprights in zinc-plated steel, with fasteners.
- Fit on to the 800-wide évolution cabinets, fitted with inside uprights with 685 clearance.
- 3 possible types of assembly according to cabinet position and number of uprights.
- These kits are adjustable for depth at 20 mm increments. To be stated when ordering.
- The type C assembly can be adjusted for height at half-unit increments. To be stated when ordering.
- The front uprights are fitted with rebates to fix 19" front fascias: state the assembly version.
- Flanges punched at half-unit increments for cable fixing and runs.

Type A   Type B   Type C
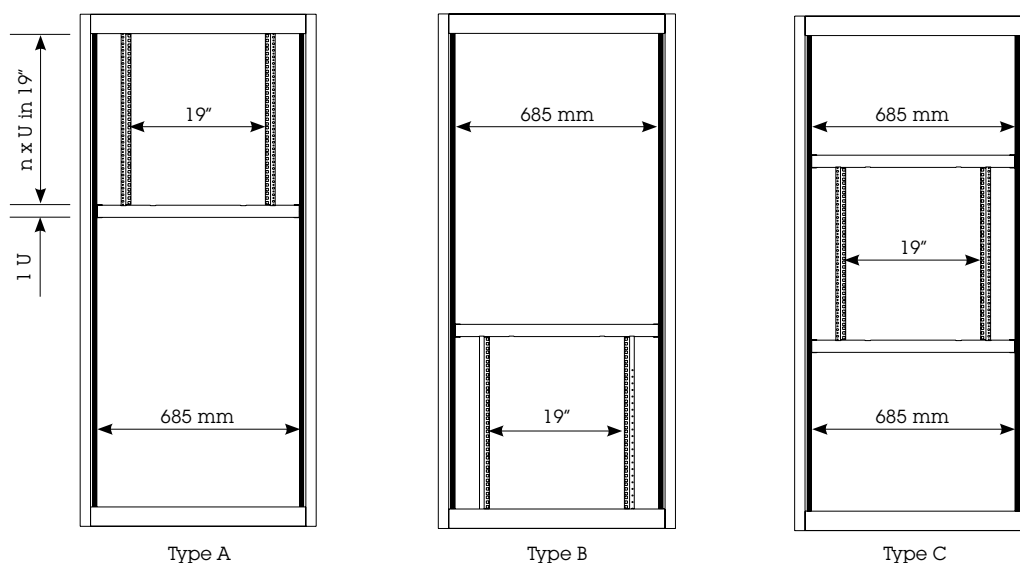
Height	13 U	18 U	22 U	27 U	31 U
A, B, 2 uprights	1003315	1003316	1003317	1003318	1003319
A, B, 4 uprights	1003320	1003321	1003322	1003323	1003324
C, 2 uprights	1003325	1003326	1003327	1003328	1003329
C, 4 uprights	1003330	1003331	1003332	1003333	1003334

DEPTH CROSSBAR KIT

Used as fixing support for inside uprights.

Composition:
- 2 parts + brackets + fasteners.
- Material: galvanised steel.

	Depth 600	Depth 800	Depth 900	D. 1000
L.800	**1007125**	**1007126**	**1007124**	**1007123**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Doos

Doors

SOLID, GLASS AND PERFORATED FRONT DOORS

Characteristics:
- Unhingeable without mechanical intervention (in open position),
- Central closing by wing bolt, with key lock,
- Supplied with bonding strap W.330 mm.

Material:
- Solid door: Painted steel.
- Glazed door: 1 frame in painted steel.
                   1 lightly smoked safety glass
- Perforated door: 1 painted steel frame + metal sheet perforated 64% for airflow.
                   Single and double leaf versions.

Option: Paint colour.

Delivery: Pre-assembled or fitted, if stated when ordering.

WIDTH 600

Height	Solid door		Glazed door	
	Right	Left	Right	Left
13 U	**1002510**	**1002520**	**1002971**	**1002980**
18 U	**1002511**	**1002521**	**1002972**	**1002981**
22 U	1002512	1002522	1002973	1002982
27 U	1002513	1002523	1002974	1002983
31 U	1002514	1002524	1002975	1002984
36 U	**1002515**	**1002525**	**1002976**	**1002985**
40 U	1002516	1002526	1002977	1002986
42 U	**1002517**	**1002527**	**1002978**	**1002987**
45 U	**1002518**	**1002528**	**1002979**	**1002988**
47 U	**1006130**	**1006216**	**1006133**	**1006198**

WIDTH 800

Height	Solid door		Glazed door	
	Right	Left	Right	Left
36 U	**1003026**	**1003036**	**1002991**	**1002992**
42 U	**1003028**	**1003038**	**1002993**	**1002994**
45 U	**1002892**	**1002896**	**1002891**	**1002895**
47 U	**1006131**	**1006217**	**1006134**	**1006199**
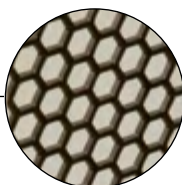
WIDTH 600

Height	Perforated door	
	Right	Left
13 U	**1006790**	**1006793**
18 U	**1006791**	**1006794**
22 U	1006792	1006795
27 U	1006849	1006850
31 U	1006851	1006852
36 U	**1006136**	**1006200**
40 U	1006853	1006854
42 U	**1006137**	**1006201**
45 U	**1006138**	**1006202**
47 U	**1006139**	**1006203**

WIDTH 800

Height	Perforated door		
	Right	Left	split
36 U	**1006141**	**1006205**	**1009594**
42 U	**1006142**	**1006206**	**1009595**
45 U	**1006143**	**1006207**	**1009596**
47 U	**1006144**	**1006208**	**1009597**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Doses...

Doors

FRONT GLASS DOOR

Characteristics:
- Right- or left-hand hinge,
- 1 wing bolt, with key lock 13 to 22 U,
- 2 wing bolts, with key lock 27 to 47 U,
- A rebate plane at -40, 60 or 80 mm is necessary to fit the glass door.

Composition:
- 1 clear safety glass door 6 mm thick,
- 2 hinges in matt black moulded Zamak,
- 1 or 2 doorstops depending on height,
- 1 or 2 wing bolts depending on height,
- 1 set of fasteners.

* If the cabinet can accommodate a 19" kit, it should be stepped back by 20 mm to fit this door.

WIDTH 600

Height	Right-hand opening	Left-hand opening
13 U	**1002820**	**1002938**
18 U	**1002821**	**1002939**
22 U	1002822	1002940
27 U	1002823	1002941
31 U	1002824	1002942
36 U	**1002825**	**1002943**
40 U	1002826	1002944
42 U	**1002827**	**1002945**
45 U	**1002828**	**1002946**
47 U	**1009566**	**1009567**

WIDTH 800

Height	Double leaf door pale safety glass*
36 U	**1002899**
42 U	**1003041**
45 U	**1002893**
47 U	**1009564**

SOLID OR PERFORATED REAR DOOR

Characteristics:
- Unhingeable without mechanical intervention (in open position),
- Central closing by wing bolt, with key lock,
- Supplied with bonding strap W.330 mm.

Material: Painted steel.

Options: Paint colour, rear plate.

Delivery: Pre-assembled or fitted, if stated when ordering.

WIDTH 600

Height	Full-height solid door		Reduced-height solid door				Full-height perforated door	
	Right	Left	C	D	Right	Left	Right	Left
13 U	**1002470**	**1002480**	8 U	3 U	**1002490**	**1002500**	1009598	1009599
18 U	**1002471**	**1002481**	13 U	3 U	1002491	1002501	1009600	1009601
22 U	1002472	1002482	17 U	3 U	1002492	1002502	1009602	1009603
27 U	1002473	1002483	22 U	3 U	1002493	1002503	1009604	1009605
31 U	1002474	1002484	26 U	3 U	1002494	1002504	1009606	1009607
36 U	**1002475**	**1002485**	31 U	3 U	**1002495**	**1002505**	1009608	1009609
40 U	1002476	1002486	34 U	4 U	1002496	1002506	1009610	1009611
42 U	**1002477**	**1002487**	36 U	4 U	**1002497**	**1002507**	1009612	1009613
45 U	**1002478**	**1002488**	40 U	3 U	**1002498**	**1002508**	1009614	1009615
47 U	**1006196**	**1006197**	42 U	3 U	**1006359**	**1006360**	1009616	1009617

WIDTH 800

Height	Full-height solid door		Full-height perforated door		
	Right	Left	Right	Left	Double leaf
36 U	**1003006**	**1003016**	1009618	1009619	1009620
42 U	**1003008**	**1003018**	1009621	1009622	1009623
45 U	**1002897**	**1002898**	1009624	1009625	1009626
47 U	**1006363**	**1006364**	1009627	1009628	1009629

References in bold type: available immediately. Normal type: ask your salesperson for lead times.
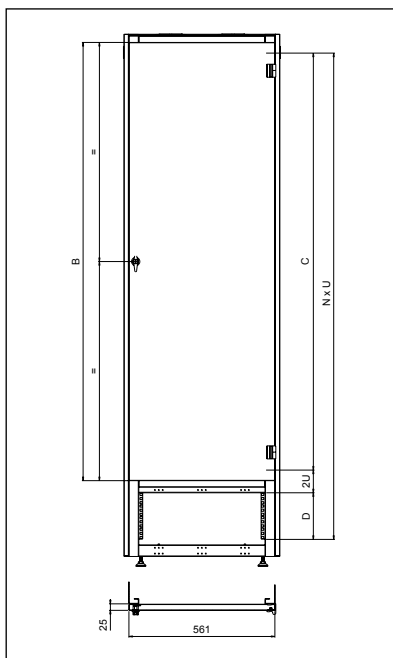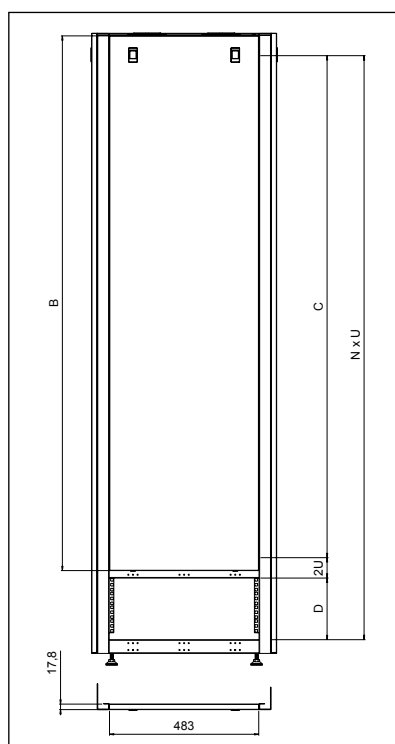
Rear panel

REAR PANEL

Characteristics:
• 2 lugs at the top of the panel are used to lock and unlock it,
• Supplied with bonding strap W.330 mm.

Material: Painted steel.
Options: Paint colour, rear plate.
Delivery: In kit form with fitting instructions or fitted if stated when ordering.

WIDTH 600

Height	Total height	A	B	C	D	Reduced height
13 U	**1002450**	708.2	485.9	8 U	3 U	**1002460**
18 U	**1002451**	930.4	708.2	13 U	3 U	**1002461**
22 U	1002452	1108.2	886.0	17 U	3 U	1002462
27 U	1002453	1330.5	1108.2	22 U	3 U	1002463
31 U	1002454	1508.3	1286.0	26 U	3 U	1002464
36 U	**1002455**	1730.5	1508.3	31 U	3 U	**1002465**
40 U	1002456	1908.3	1641.6	34 U	4 U	1002466
42 U	**1002457**	1997.2	1730.5	36 U	4 U	**1002467**
45 U	**1002458**	2130.6	1908.3	40 U	3 U	**1002468**
47 U	**1006219**	2219.5	1997.2	42 U	3 U	**1006367**

WIDTH 800

Total height	Reduced height
-	-
-	-
-	-
-	-
-	-
1002720	1006843
-	-
1002721	1006844
1006368	1006845
1006220	1006846

REAR PLATE

Material: AG3 thickness 25/10th.
Finish: RoHS compliant conductor treatment.
Delivery: With fixing fasteners.

Height	Width 600	Width 800
3 U	**1002551**	**1006847**
4 U	**1002552**	**1006848**

REAR FINISH PANEL

Set of two panels for aesthetics of rack with no door or rear panel.
Steel painted in RAL 7035.

	Width 600	Width 800
Panels	**1007227**	**1007228**
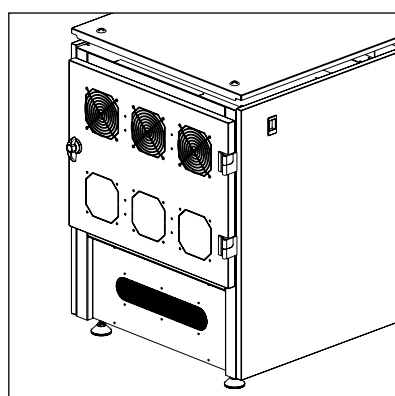
REAR VENTILATION DOOR AND PANEL

Pre-cut-out door with right- or left-hand opening and ventilated panel adapted to cool small cabinets.

Height		Right opening door		Left opening door		Ventilated panel	
full	reduced	Full height	Reduced height	Full height	Reduced height	Full height	Reduced height
13 U	8 U	1006810	1006800	1006815	1006805	1006833	1006830
18 U	13 U	1006811	1006801	1006816	1006806	1006834	1006831
22 U	17 U	1006812	1006802	1006817	1006807	1006835	1006832

Accessories:

3 fitted and wired fans	6000459
Wiring protective cover	6000460
Rear plate W.600 3U + brushes	1006825
Rear plate W.600 4U + brushes (42U only)	1006826
Fan cut-out blanking plate	6000045

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

Side panel

SIDE PANEL

Characteristics:
The side panel can close one side of the cabinet.
Quick closing using 2 lugs

Composition:
- 1 RAL 7035 painted steel panel
- 2 lugs
- 2 panel supports
- 2 panel strikes
- fasteners

Height	Depth 600	Depth 800	Depth 900	D. 1000
13 U	**1006480**	**1006490**	**1007086**	-
18 U	**1006481**	**1006491**	**1007087**	-
22 U	1006482	1006492	1007088	-
27 U	1006483	1006493	-	-
31 U	1006484	1006494	-	-
36 U	**1006485**	**1006495**	**1007089**	**1007068**
40 U	1006486	1006496	-	-
42 U	**1006487**	**1006497**	**1007090**	**1007069**
45 U	**1006488**	**1006498**	**1007091**	**1007070**
47 U	**1006489**	**1006499**	**1007092**	**1007071**

COUPLING KIT

Characteristics:
For rigid mechanical connection between two Cabinets.

Composition:
- 1 horizontal link
- 1 vertical link
- 2 coupling U
- fasteners

Height	Depth 600	Depth 800	Depth 900	D. 1000
13 U	**1006534**	**1006544**	**1007107**	-
18 U	**1006535**	**1006545**	**1007108**	-
22 U	1006536	1006546	1007109	-
27 U	1006537	1006547	-	-
31 U	1006538	1006548	-	-
36 U	**1006539**	**1006549**	**1007110**	**1007118**
40 U	1006540	1006550	-	-
42 U	**1006541**	**1006551**	**1007111**	**1007119**
45 U	**1006542**	**1006552**	**1007112**	**1007120**
47 U	**1006543**	**1006553**	**1007113**	**1007121**
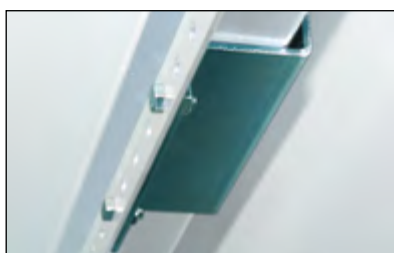
SIDE PANEL LOCKING KIT

The quick opening side panels can be locked from inside.

Composition: Retaining bracket + fasteners.

Locking kit for 1 side panel	1006254

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Top blanking plate
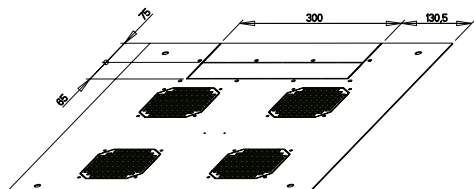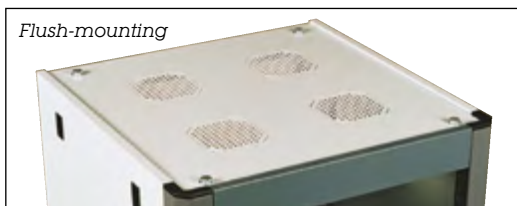
Flush-mounting

FLUSH-MOUNTED ROOFS

The perforated model can be fitted with 1 to 8 fans.
Cable inlet cut-outs are provided.

Material: Painted steel, with earthing stud.
Option: Paint colour.
Delivery: - 1 item + fixing fasteners,
              - 1 bonding strap W 330 mm.

WIDTH 600

Model	D.600	D.800	D.900	D.1,000
Solid	**1002445**	**1002447**	**1006113**	**1006892**
Perforated	**1002446**	**1002448**	-	-
Fan cut-outs.	4	4	6	8
Perforated with cable cut-out	**1003130**	**1003131**	**1006374**	**1006890**
Cable passages	1	1	1	1

WIDTH 800

Model	D.600	D.800	D.900	D.1,000
Solid	**1002677**	**1002675**	**1006114**	**1006893**
Perforated	**1002678**	**1002676**	-	-
Fan cut-outs.	4	4	6	8
Perforated with cable cut-outs	**1003132**	**1003133**	**1006375**	**1006891**
Cable passages	4	4	6	6

Raised

Raised-ventilated

RAISED, RAISED-VENTILATED ROOFS

In the "raised-ventilated" version, 25 mm clearance between the roof and the cabinet rack is available for ventilation or cable passage.

Material: Painted steel, with earthing stud.
Option: Paint colour.
Delivery: - 1 item + fixing fasteners,
              - 1 bonding strap W 330 mm.

WIDTH 600

Depth	D.600	D.800	D.900	D.1,000
Raised	**1002805**	**1002811**	**1009550**	**1007895**
Ventilated	**1002806**	**1002812**	**1006122**	**1006898**

WIDTH 800

Depth	D.600	D.800	D.900	D.1,000
Raised	**1002809**	**1002815**	**1009551**	**1007914**
Ventilated	**1002810**	**1002816**	**1006123**	**1006899**

A reinforcement kit for raised roof prevents sagging caused by heavy loads.

Raised roof reinforcement kit W.600	**1006820**

Raised roof reinforcement kit W.800	**1006821**

CABLE INLET BRUSH

Is fitted to all perforated roofs with cable passage to limit dust ingress.
Delivery: 2 crimped brushes on aluminium profile, with fasteners.

Set of 2 brushes for 1 cable passage	**1002959**

EYEBOLTS M10

Essential for lifting a cabinet fitted with a roof (raised, ventilated or flush-mounted).
Material: Zinc-plated steel.
Load: 150 kg (unit).

For raised roof, 4 parts + spacers	**1002869**
For ventilated or flush-mounted roof, 4 parts	**1002868**

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.
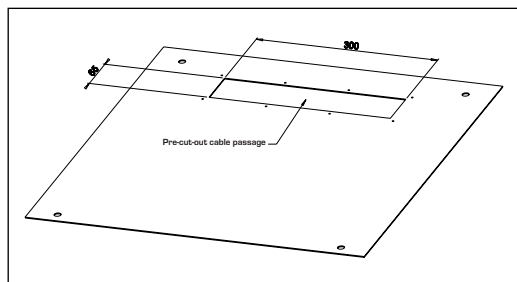
Low blanking plate

BOTTOM BLANKING PLATES

Characteristics:
- Fit onto all ÉVOLUTION Cabinet types
- **Not compatible with the semi-flush-mounted castor kit,** ⚠️
- Useful for protecting components at the bottom of the cabinet,
- Are fixed below the cabinet frame with self-tapping screws,
- The perforated model can be fitted from 1 to 4 fans.

Material: Galvanised steel.

WIDTH 600

Model	D.600	D.800	D.900	D.1,000
Solid	**1002599**	**1002600**	**1006255**	**1006856**
Perforated	**1002591**	**1002592**	**1006257**	**1006858**

WIDTH 800

Model	D.600	D.800	D.900	D.1,000
Solid	**1002870**	**1002871**	**1006256**	**1006857**
Perforated	**1002872**	**1002873**	**1006258**	**1006859**

Filter kit for cabinet bottom perforated blanking plate. Filtering media 1000 CF G2 HS, fixed by Velcro	**6000582**
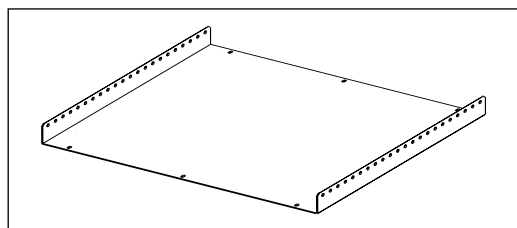
BLANKING PLATES COMPATIBLE WITH SEMI-FLUSH MOUNTED CASTOR KIT

- Adapt to all types of EVOLUTION cabinets fitted with a castor kit (below).
- Are fixed to castor crossbars with self-tapping screws.
- Perforated (can be fitted with 1 to 2 fans) or solid model.

Material: Galvanised steel.
Delivery: 1 item + fasteners.
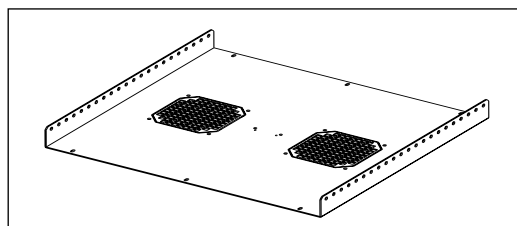
WIDTH 600

Model	D.600	D.800	D.1000
Solid	**1002949**	**1002603**	**1007076**
Perforated	**1002593**	**1002594**	**1007078**

WIDTH 800

D.600	D.800	D.1000
1002874	**1002875**	**1007077**
1002876	**1002877**	**1007079**
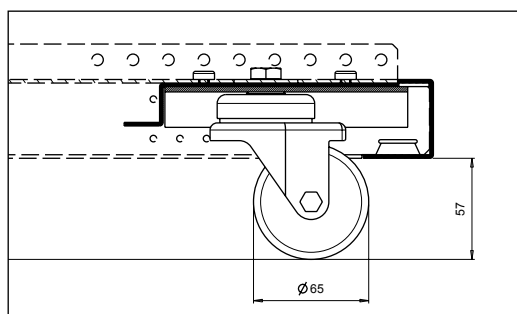
SEMI-FLUSH MOUNTED CASTOR KIT

Characteristics:
- Fit onto all ÉVOLUTION Cabinet types, depending on width.
- Useful for frequent cabinet moving.
- Maximum recommended load in this configuration: 300 kg.

Delivery:
- 2 crossbars, each fitted with 2 castors, double rollers,
- 4 backing plates + fasteners for fixing to cabinet.

Flush-mounted castor kit	Width 600	Width 800
	1002550	**1002859**

EXTERNAL CASTOR KIT

Characteristics:
- Adapt to all EVOLUTION cabinets instead of adjustable feet.
- Useful for frequent cabinet moving, silent wheels with polyurethane lining.
- Maximum recommended load in this configuration: 225 kg.

Delivery: 4 castors + fixing fasteners.
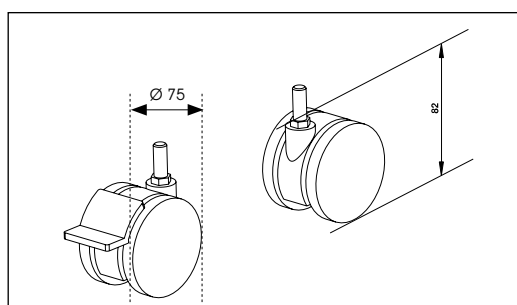
External castor kit	4 without brake	4 with brake	2 without brake + 2 with brake
	1005819	**1005820**	**1005821**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Floor equipment

Plinth base with M10 for adjustable foot and floor fixing hole — Solid blanking plate
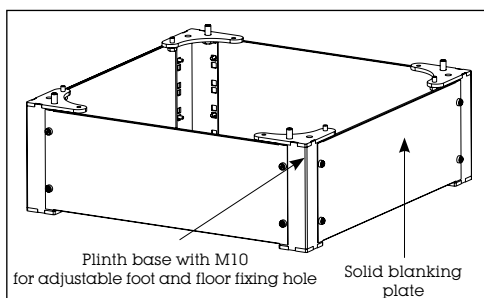
PLINTHS 100 AND 200 MM HIGH
- In steel painted RAL 7015, supplied flat-packed with cabinet fixing fasteners. Fit on all the Évolution racks,
- Can accommodate partial, ventilated or brushed solid blanking plates,
- Feet allow fixing to the floor.

Basic version:
- 4 steel feet (use the rack adjustable feet for the adjustment).
- 4 full-height, solid blanking plates.

WIDTH 600

	D.600	D.800	D.900	D.1,000
Height 100	1003368	1003369	1009578	1007886
Height 200	1003187	1003188	1009579	1007887

WIDTH 800

	D.600	D.800	D.900	D.1,000
Height 100	1003369	1003370	1009582	1007905
Height 200	1003188	1003189	1009583	1007906

Customised version:
depending on the height and blanking plate model chosen (fasteners included, non-adjustable feet).

HEIGHT 100

Blanking plate 2U	L./D.600	L./D.800	D.900	D.1,000
Solid	1003194	1003195	1009586	1007666
Ventilated	1003371	1003373	1009587	1007672
With brushes	1003196	1003197	1009553	1007675
Set of 4 feet	1003376			

HEIGHT 200

Blanking plate 4U	L./D.600	L./D.800	D.900	D.1,000
Solid	1003192	1003193	1009590	1007663
Ventilated	1003372	1003374	1009591	1007669
With brushes	-	-	-	-
Set of 4 feet	1003190			
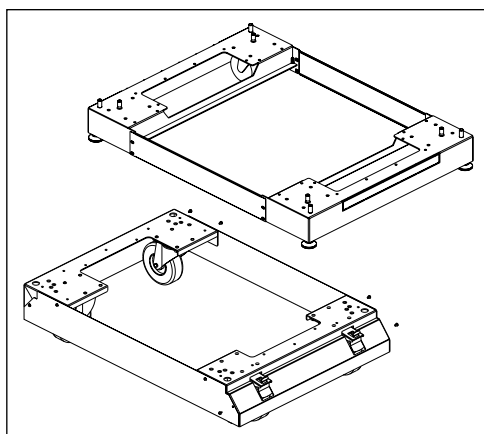
CASTOR PLINTHS
Required to move cabinets whether or not loaded. In steel painted Black RAL 9005.
Plinth with castors and adjustable feet
Plinth designed for moving the cabinet to its use position.
Plinth with castors
Very stable plinth, castors 125 mm in diameter including two with brake, for cabinets moved frequently.

Plinth with...	Load	600 x 600	600 x 800	600 x 1000
...castors and adjustable feet	450 kg	1007776	1007777	1007778
	800 kg	1007779	1007780	1007781
castors with brakes	500 kg	1007782	1007783	1007784
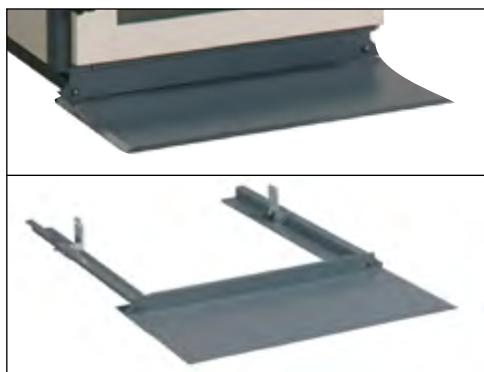
STABILISER
- Provides maximum safety (no need for the user to intervene to ensure his safety).
- Does not hinder traffic in the aisles, even products on castors (height 4 mm, bevels).
- Compatible with cabinet fitted with a flush-mounted castor kit.
- During installation, the adjustable feet can be used to adjust the level.
- Tested for 375 mm deviation from the centre of gravity of a 100 kg weight.

	Width 600	Width 800
Stabiliser	1006221	1006222
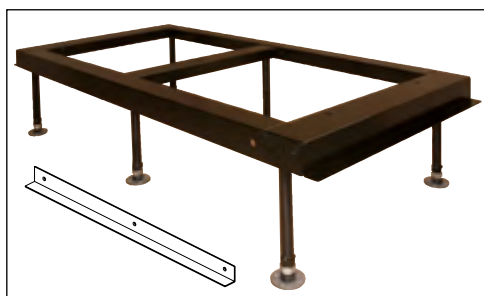
RAISED FLOOR SEAT
- Mounted on 6 adjustable feet.
- Height adjustment from 260 to 350 mm.
- Permissible static load: 1000 kg
- Front and rear panel support included.
- Kit with 2 side supports, to be ordered separately.

	D.600	D.800	D.900	D.1,000
Seat W.600	1008313	1008314	1009554	1009319
Seat W.800	1008315	1008316	1009556	1009320
2 lateral support kit	1008317	1008318	1009557	1009321

Mini-cabinets and extensions

A

B

The EVOLUTION mini-cabinet offers reduced outside dimensions (560 mm wide) for the inside dimensions of EVOLUTION cabinets.

Composition:
- 1 cabinet rack comprising: - 2 frames.
  - 4 outside uprights.
  - 4 adjustable feet with polyamide baseplate.
- 1 solid screw-in roof.
- 2 side panels, closed by with 1/4 turn system.
- 4 EVOLUTION inside uprights and 2 assembled rebates on front uprights.
- Depending on version:
  - **A**. No front door, but vertical and horizontal bezels on front panel.
  - **B**. 1 solid painted steel front door with key lock. This door can be removed easily without tools and is fitted with a dust seal.
  - **C**. 1 front door with 6 mm smoked safety glass with key lock and dust seal (non-hingeable).

Special features:
The top and bottom crossbars are perforated or solid.
The mini-cabinets are fitted as follows as standard:
- Front: Perforated crossbar at bottom. Solid crossbar at top.
- Rear: Solid crossbar at bottom. Perforated crossbar at top.
This composition can be modified if stated when ordering.
A perforated crossbar can be installed as an option, so that a customised panel, filter drawer or ventilation drawer can be fitted whilst keeping the full height of the cabinet for fitting a chassis or subracks.

Equipment:
The EVOLUTION mini-cabinet can accommodate a solid or perforated bottom blanking plate, a swivel rear door with key lock, solid or perforated for ventilation, full or reduced height. In this case, a rear plate can be fitted as a cable passage.
The inside uprights can be adjusted in 20 mm increments depthwise.

Standard finishes:
- Dark grey textured epoxy polyester powder, RAL 7015 for the rack.
- Light grey textured epoxy polyester powder, RAL 7035 for the trim.
- White zinc-coating for the internal structure.

C

Part numbers in bold:
available from stock.
Normal:
ask your salesperson for lead times.

MINI-CABINET WITHOUT DOOR

Height	Depth 500	Depth 600	D.800
12 U	**4000230**	**4000235**	**4000240**
13 U	**4000231**	**4000236**	**4000241**
18 U	**4000232**	**4000237**	**4000242**
24 U	**4000233**	**4000238**	**4000243**

MINI-CABINET SOLID DOOR

Height	Depth 500	Depth 600	D.800
12 U	**4000245**	**4000250**	**4000255**
13 U	**4000246**	**4000251**	**4000256**
18 U	**4000247**	**4000252**	**4000257**
24 U	**4000248**	**4000253**	**4000258**

MINI-CABINET SAFETY GLASS DOOR

Height	Depth 500	Depth 600	D.800
12 U	**4000260**	**4000265**	**4000270**
13 U	**4000261**	**4000266**	**4000271**
18 U	**4000262**	**4000267**	**4000272**
24 U	**4000263**	**4000268**	**4000273**

EXTENSION WITHOUT DOOR

Height	Depth 500	Depth 600	D.800
12 U	**4000320**	**4000325**	**4000330**
13 U	**4000321**	**4000326**	**4000331**
18 U	**4000322**	**4000327**	**4000332**
24 U	**4000323**	**4000328**	**4000333**

EXTENSION SOLID DOOR

Height	Depth 500	Depth 600	D.800
12 U	**4000335**	**4000340**	**4000345**
13 U	**4000336**	**4000341**	**4000346**
18 U	**4000337**	**4000342**	**4000347**
24 U	**4000338**	**4000343**	**4000348**

EXTENSION SAFETY GLASS DOOR

Height	Depth 500	Depth 600	D.800
12 U	**4000350**	**4000355**	**4000360**
13 U	**4000351**	**4000356**	**4000361**
18 U	**4000352**	**4000357**	**4000362**
24 U	**4000353**	**4000358**	**4000363**

When the mini-cabinet has a door, when not stated otherwise on the order, this door is fitted with right-hand hinging.
The extension is identical to the mini-cabinet, without side panels and with coupling kit. NB: Fitting coupled mini-cabinets makes it impossible to remove the roofs. Consult us for removable roofs.

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

Mini-cabinet blanking plate

Atos EVOLUTION **MINI-CABINETS**

FULL-HEIGHT REAR DOOR

Painted steel 12/10th door, with hinges that can be removed without tools, fitted with a dust seal, key lock and earthing stud M6.

In solid version, state the opening direction.
In perforated version, the hinges are on the left.

Supply: 1 part with seal and necessary fasteners.

Cabinet height	Solid door	Perforated door
12 U	**4000280**	**4000285**
13 U	**4000281**	**4000286**
18 U	**4000282**	**4000287**
24 U	**4000283**	**4000288**

REDUCED-HEIGHT REAR DOOR

Painted steel 12/10th door, with hinges that can be removed without tools, fitted with a dust seal, key lock and earthing stud M6.
Painted steel 15/10th rear cross bar (1U size).

In solid version, state the opening direction.
In perforated version, the hinges are on the left.
Door fitted at top or bottom, to be specified when ordering.

Supply: 1 part with seal and necessary fasteners.

Cabinet height	Door height	Solid door	Perforated door
12 U	8 U	**4000290**	**4000295**
13 U	9 U	**4000291**	**4000296**
18 U	14 U	**4000292**	**4000297**
24 U	20 U	**4000293**	**4000298**

REAR PLATE 3U

Rear plate 3U	**4000300**

Rear aluminium 25/10th plate with necessary fasteners.
White alodine finish.

FAN PLATE 3U

482,6
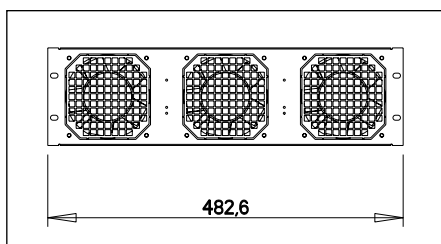
Painted steel 15/10th plate, fitted with three wired fans, finger guards, power cord and necessary fasteners.
Air flow: 450 m³/h. Voltage: 220 V, 50 Hz.

Plate 3 fans	**6000361**

BOTTOM BLANKING PLATE

Zinc-plated steel 20/10th.
For mini-cabinets D500: In one part, with fasteners.
For mini-cabinets D600 and D800: In two parts, with fasteners.
Two fans can be fixed to the perforated models
(four in depth 800).

Depth	D.500	D.600	D.800
Solid	**4000301**	**4000302**	**4000303**
Perforated	**4000304**	**4000305**	**4000306**

COMPLIANT WITH STANDARDS CEI 297 EN 60-950 IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Mini-cabinet accessories

EVOLUTION MINI-CABINETS
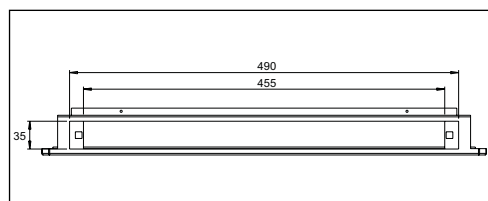
PERFORATED CROSSBAR

One of four crossbars (solid or perforated) in the standard mini-cabinet can be replaced by a perforated crossbar. This crossbar can accommodate a customised panel, filter drawer or ventilation drawer.

State the fitting position in the mini-cabinet description when ordering.

Perforated crossbar	4000309
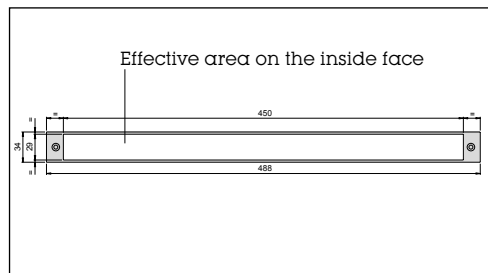
CUSTOMISED PANEL

Buttons, indicator lamps, screen printing, etc. can all be installed on the outside of the mini-cabinet whilst maintaining a standard casing.
Composition: 1 part in aluminium 40/10th with fasteners.
Finish: White alodine.
Factory customisation possible, please ask us.

Customised panel	4000310
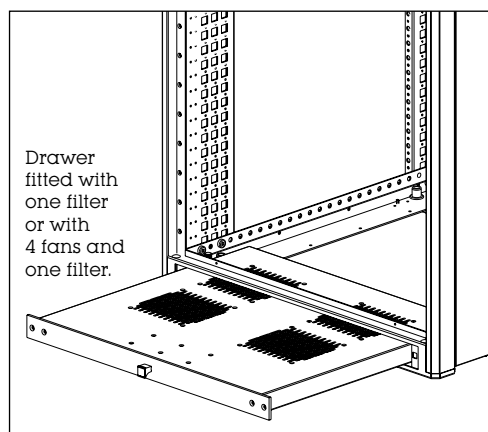
FILTER DRAWER

Is mounted on a mini-cabinet fitted with perforated crossbar at the bottom (front or rear).
Composition: 1 assembled drawer with 1 filter, 1 partial bottom blanking plate (in D600 and D800 only).

VENTILATION DRAWER

Is mounted on a mini-cabinet fitted with perforated crossbar at the bottom (front or rear).
Air flow: 468 m³/h Voltage: 220 V, 50 Hz.
Composition: 1 drawer, 1 filter, 4 fans, 1 partial blanking plate (D.600 and D.800 only), 1 power cord.

Drawer fitted with one filter or with 4 fans and one filter.

	Filter drawer	Ventilation drawer
D.500	4000311	4000314
D.600	4000312	4000315
D.800	4000313	4000316
Spare filter	6000362	6000362

CASTOR KIT

Is mounted instead of adjustable feet delivered as standard.
Maximum load: 150 kg.
Composition: 4 castors including 2 that block.

Castor kit	**4000307**

EYEBOLTS

Four eyebolts can be fitted with reworking of four holes in the standard roof.
This can be carried out in the factory stating, when ordering, the cabinets to be fitted with this.
Composition: 4 parts with fasteners

Eyebolts	**4000308**

SPECIFIC KITS

Tamperproof kit for side panels and roof	4001285
Kit for mini-cabinet wall fixing	4001286

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Runners

TO BE HOOKED ON

ADJUSTABLE

POSITION OF THE SUPPORT WITH RESPECT TO THE 19" UNIT

398 (dimension 2) or 402 (dimension 0)

TO BE HOOKED ON

464

400

ADJUSTABLE

490

0 or 2

1 U
1 U
1 U
1 U

Adjustment from 0 to 5

min.: 420
max.: 450

101,6

25,4   101,6

490

± 2.5   7,2

22,2   47

Range of movement: 356

457

27,5   435

RUNNERS

Characteristics:
- Adapt to all types of Évolution cabinet D.600, 800 and 1000 fitted with two pairs of inside uprights,
- Can be fitted every 1/2 unit,

Material: galvanised steel.

Delivery: 1 pair + fasteners for locking into position.

Quick hanging rails
Position adjustable for depth,

Length	Permissible load	Support	Slide
370		+ 2 mm	**4000372***
470	60 kg/pair.	0	**1003346**
		+2 mm	**1002554**
670	80 kg/pair.		**1005817**

* Runner adapted to the mini-cabinet D.500.

Adjustable runners
- Dimensions: 1 U,
- Accessible from the side for easy adjustment and perfect alignment of baskets by eccentrics (± 2.5 mm),

Length	Load	Slide
370	60 kg/pair.	**4000371***
470		**1002556**
670	80 kg/pair.	**1006335**

* Runner adapted to the mini-cabinet D.500.

SIDE GUIDES

Characteristics:
Adapt initially or subsequently to adjustable runners and ensure easy installation of frequently-handled baskets.

Material: galvanised steel.

Delivery: 1 pair + fasteners.

Side guides	**1002557**

TELESCOPIC RUNNERS WITH ADAPTERS

Characteristics:
- Adapt to all types of Évolution cabinet fitted with two pairs of inside uprights,
- Can be fitted every 1/2 units, with adjustment by eccentrics (± 2.5 mm),
- Locking and disconnecting in open position without mechanical intervention,

Range of movement: 356 mm.

Material: white zinc-plated steel.

Permissible load: 45 kg/per pair,

Delivery: 1 pair + fasteners.

Telescopic runner with adapters	**1002595**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

Fixed shelves

FIXED SHELVES

Characteristics:
- Positioned every 1/2 unit,
- Stackable every unit,
- Painted steel shelves,
- Delivery 1 part + fasteners.

Fan fixing dimension
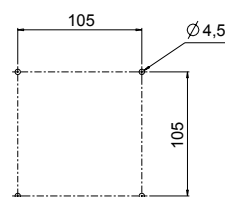
105
Ø 4,5
105

FOR UPRIGHTS IN 19" POSITION, SHELF 489.5 MM WIDE

Assembly	Model	Depth	Load	Cable passage	Part no.
Quick	Solid	375 mm	30 kg	without	**4000376 ***
			55 kg		**4000377**
		475 mm	30 kg		**1003020**
			55 kg		**1002888**
	Perforated	410 mm	30 kg	with	**1002965**
			55 kg		**1002885**
		675 mm	30 kg	without	**1005822**
			70 kg		**1005818**
Adjustable	Solid	310 mm	30 kg	with	**4000373 ***
			70 kg		**4000375**
		410 mm			**1002567**
	Perforated	310 mm	30 kg		**4000374 ***
		410 mm			**1002568**
			70 kg		**1002886**

* Shelf suitable for the mini-cabinet D.500.

FOR UPRIGHTS IN CABINET W.800, SHELF W.689.5 MM:

Assembly	Model	Depth	Load	Cable passage	Part no.
Adjustable	Solid	410 mm	25 kg	with	1002733
			60 kg		1002887

See drawings and dimensions page 36.

FIXED SHELVES FOR TOWER SERVERS

Fixed shelves for a tower are especially suitable for servers.
- Large surface area: 690 mm deep x 480 or 680 wide
- Very high load capacity: Up to 150 kg.
- They can be removed from the inside, even if the cabinets are slotted together.
- They are designed to accommodate two PVC trunkings at the rear:
    - 1 for strong currents
    - 1 for weak currents

	L.485 mm	L.685 mm
Fixed shelf with fixing	**1006243***	**1006244***
Set of 2 PVC trunkings 42 x 30 mm	**1006245**	**1006246**

* These shelves provide maximum aperture but are not compatible with fitting rebates. In this case, see heavy-duty shelf W.480 x D.690 below.

HEAVY-DUTY SHELF W.480 X D.690

- High load capacity: up to 150 kg.
- Compatible with quick fit in server cabinets, with or without rebates (rackable or tower version).
- In steel painted RAL 7035.
- Compatible with quick fit of rebates in version A (see p.17).

Heavy-duty shelf	**1006555**

Quick fit

Adjustable fitting

IMPORTANT:
All the loads indicated are loads spread over the entire surface of the shelf.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Telescopic shelves
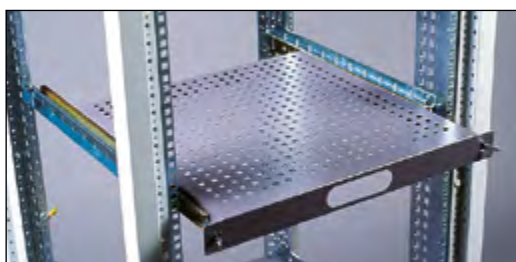
TELESCOPIC SHELVES

Characteristics:
- Positioned every 1/2 unit,
- Telescopic runners with ball bearings,
- Steel shelves painted, supplied with fasteners,
- Delivery: pre-assembled.

FOR UPRIGHTS IN 19″ POSITION, SHELF 489.5 MM WIDE

Assembly	Model	Depth	Load	Runner stroke	Part no.
Quick	Perforated	450 mm	30 kg	330	**1003348** °
	Solid				**1006786**
	Perforated	390 mm	35 kg	400	**4000379** ⚠
Adjustable	Solid	410 mm	45 kg	356	**1002596**
	Perforated				**1002597**

⚠ *Caution: the inside uprights have to be brought 100 mm closer together*

° This shelf can be locked with latches. The cabinet is locked on rebates to be ordered separately if it does not have this (see options below).

FOR UPRIGHTS IN CABINET WIDTH 800 AND ABOVE, SHELF W.689.5 MM:

Assembly	Model	Depth	Load	Runner stroke	Part no.
Adjustable	Solid	410 mm	45 kg	356	**1002727**

OPTIONS:

Set of 2 locking latches in closed position for shelf *1003348*	**1003349**
Set of 2 rebates 1U for locking latches	**1006239**

TELESCOPIC SHELVES FOR TOWER SERVERS

Shelves on runners with ball bearings:
- Large range of movement: 750 mm.
- Very high load capacity: 100 kg.
- 4 widths available, 700 mm deep.
- Cable-guide option with its fasteners.

Composition of double shelves (112 mm thick):
1 support shelf + 2 telescopic shelves

Number depending on width	1 in W.600	2 in W.600	1 in W.800	2 in W.800
Width x Thickness	410 x 65	236 x 112	610 x 65	336 x 112
Tray	**1006247**	1006250 *	**1006251**	1006252 *

* These shelves provide maximum aperture but are not compatible with fitting rebates.

See drawings and dimensions page 35.

IMPORTANT:
All the loads indicated are loads spread over the entire surface of the shelf.
References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Drawers on runners

STORAGE DRAWERS ON TELESCOPIC RUNNERS

Characteristics:
- Adapt to all types of Évolution cabinet fitted with two pairs of inside uprights,
- Can be fitted every 1/2 units, with adjustment by eccentrics (± 2.5 mm),
- Locking and disconnecting in open position without mechanical intervention,

Drawer depth: 410 mm. Runner range of movement: 356 mm.
Permissible load: 30 kg.

Delivery: - Pre-assembled with fitting instructions,
- Colourless, anodised, brushed front face,
- Painted casing and tray.

Height	Rear face screw fixing		Lock fixing	
	without tray	with tray	without tray	with tray
2U	**2000505**	**2000506**	**2000507**	**2000508**
4U	**2000509**	**2000510**	**2000511**	**2000512**

STRIPLIGHT 1U 19"

Composition:
- 1 LED panel T5 4W 320 Lumens 4000 K neutral white with On/Off switch.
- Fixing parts 1U 19" + fixing fasteners M6 for square cut-out 8.4 mm and 9.5 mm.
- 1 power cord 230V

	Width 600	Width 800
Panel + cable 1.50 m + 2P mains plug	**1002818**	**1002819**
Spare panel	**B118624**	

Wiring kit:
1 contact switch-striplight connecting lead

Contact switch-striplight connecting lead	**6000720**

ENCLOSURE LAMP SWITCH

Fits onto the internal or external rack uprights to control lighting when a door is opened.

Composition:
- 1 switch,
- Fasteners for various assemblies,
- Assembly drawing.

Switch	**1002817**

Our other accessories

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Swivel frame cabinet

NEW!

SWIVEL FRAME CABINET

General characteristics:
As an addition to the fixed 19" cabinets, ATOS has developed a cabinet version that incorporates a swivel frame compliant with the 19" standard.

The rear equipment wiring area can be reached from the front of the cabinet with this solution.

A handle makes it easy to open the frame to its maximum opening angle of 120°, whilst maintaining 40 mm distance between the front face of equipment and the cabinet structure

Technical characteristics:
The swivel frame is in 2 mm-thick galvanised steel assembled with rivets and ensuring a permitted load of **150 kg.**

The 19" equipment must meet standards EIA 310-3, IEC 60297 and DIN 41494 standard 19", with a maximum depth of 420 mm. It is mandatory to fix equipment to the frame.

Composition:
- 1 structure comprising:
  - 2 white zinc-plated steel frames.
  - 4 identical outside uprights in painted steel,
  - 2 cable support CP.
  - 2 panels (lower and upper) at the front
  - 12 corner reinforcement gussets
- 1 fixed closing panel mounted on the rear section.
- 2 side panels
- 1 front door with sight glass 800 mm wide (opening direction to be stated when ordering).
- 1 perforated roof.
- 4 eyebolts
- 1 floor fixing kit.
- 1 riveted and screwed swivel frame in galvanised steel Z275 fitted with 2 crossbars and 2 inside uprights 40U as per standards CEA-310^E and IEC-60297.

Structure working height	Swivel frame working height	Dimensions W800 x D800	Permitted load
42 U	40 U	**1011401**	150 kg

The swivel frame is fitted with a left-hand opening as standard. Please contact us for a right-hand opening.

The drawings for the swivel frame cabinet can be found on the next page.

Wall fixing kit	**1011402**

The cabinet structure must
WITHOUT FAIL
be fixed to the floor.
A wall support
is strongly advisable.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Drawings and dimensions

799

Swivel frame working height: 40U
Cabinet working height: 42U
2044

65

453.5   144

57   685   57

SECTION B-B

(420)   40

SECTION A-A
Floor fixing: 636

81.5   81.6

89.6

Floor fixing distance
between centres: 500

799.1

209.5

113.45

432

40

420 Max.

118

Drawings and dimensions
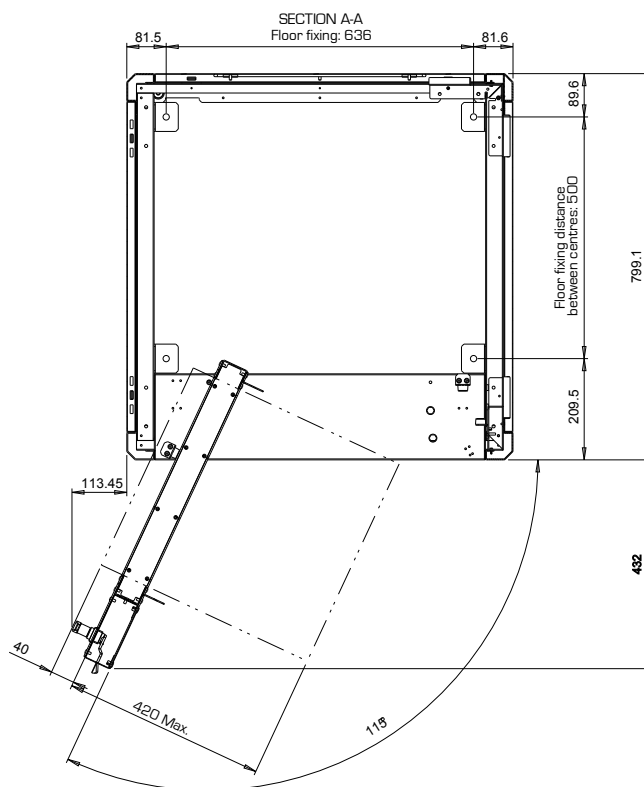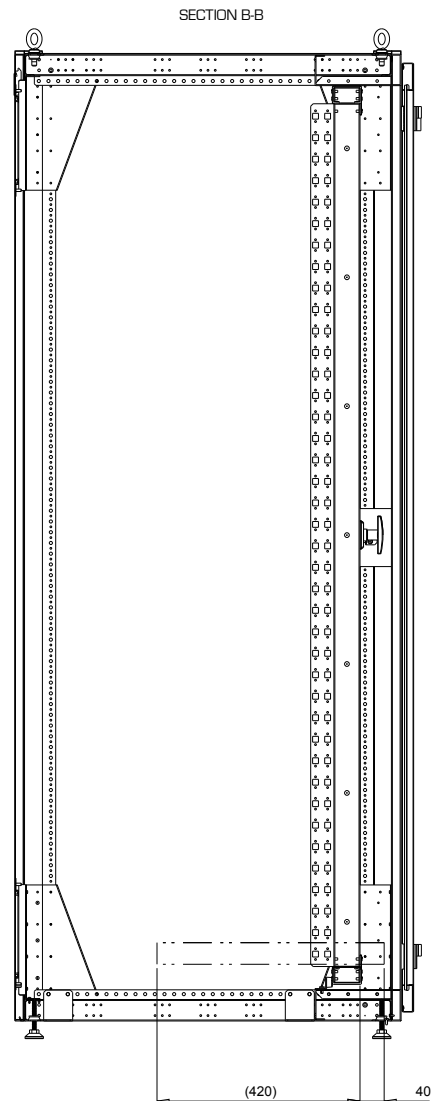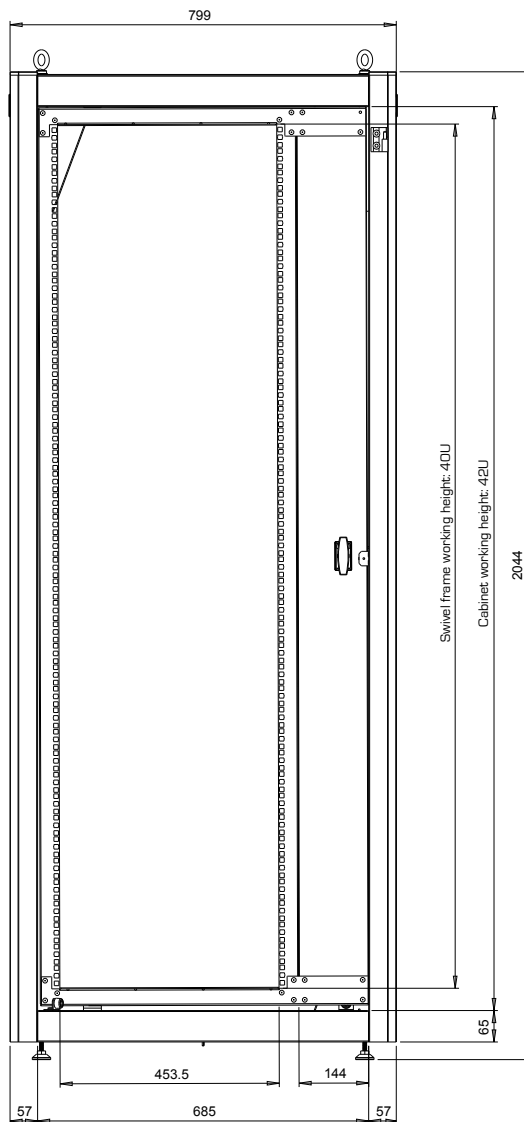
SETBACK OF INSIDE UPRIGHTS

To avoid any ambiguity in the inside upright positions in an évolution, basic or server cabinet, the upright setbacks must be set using values M1, M2, M3, etc. corresponding to 1 pair, 2 pairs, 3 pairs, etc. of inside uprights.

The dimensions designate the distance between the front of the rear outside uprights and the front of the inside upright (see diagrams). These dimensions only designate the inside upright positions.

Standard position

Server position
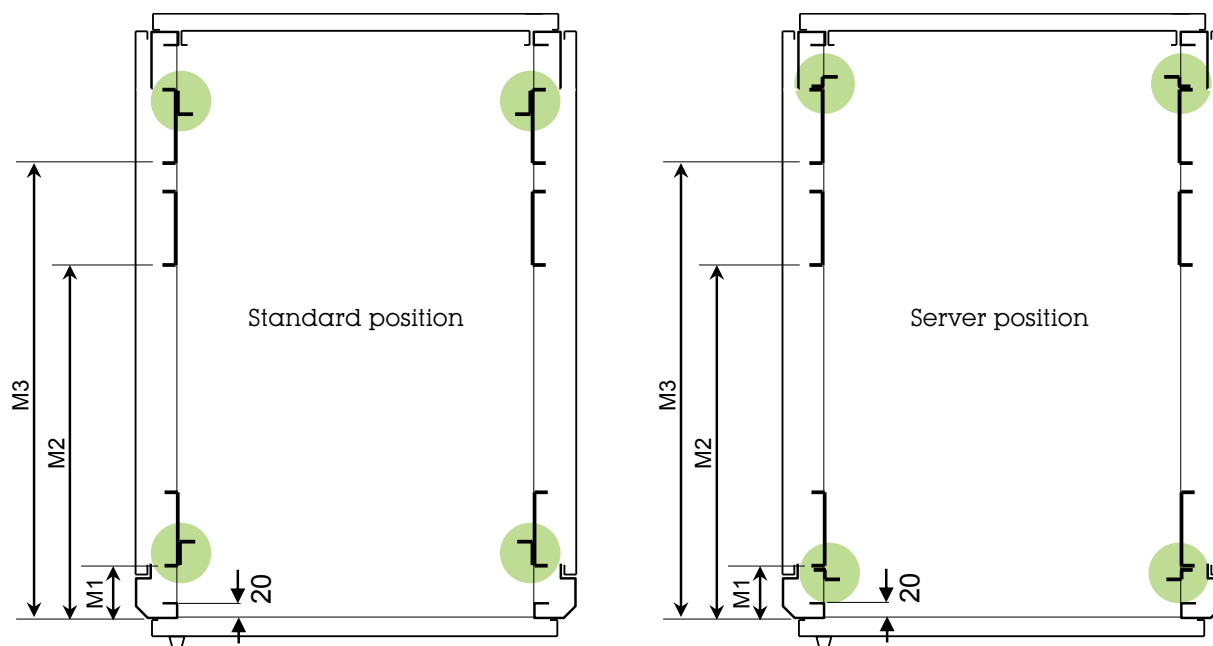
The default values used when there are no special indications are:

Version	Evolution standard cabinet			"Rackable" mounting server cabinet Depth 900 and 1000		"Tower" mounting server cabinet Depth 900 and 1000	
Number of uprights	1 pair	2 pairs	3 pairs	2 pairs	3 pairs	2 pairs	3 pairs
Position of uprights	M1 = 20	M1 = 20	M1 = 20	M1 = 40	M1 = 40	M1 = 20	M1 = 20
		M2 = 479	M2 = 479	M2 = 659	M2 = 499	M2 = 519	M2 = 419
			M3 = 679		M3 = 659		M3 = 519
Front rebates	Version C	Version C	Version C				
Rear rebates		Version C	Version C				

POSITION OF THE REBATES

In Standard version, the position of rebates on these uprights must be described by the mounting in version A, B, C or D.

Orientation of "squares"

Version A   20→ Version B   40 Version C   60 Version D
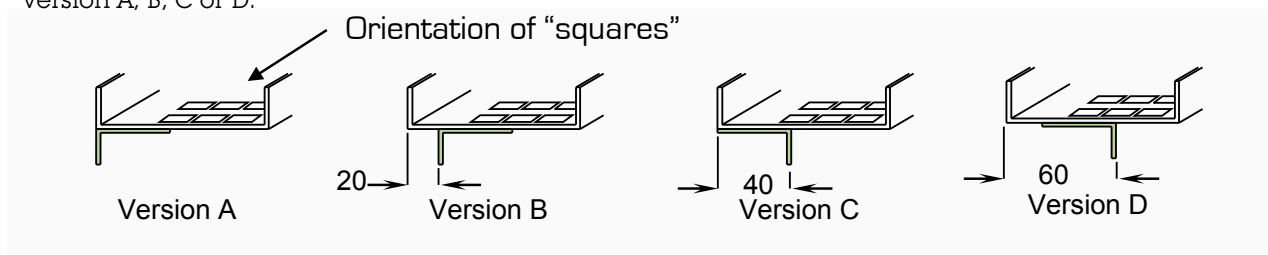
Rebate positions are mandatory in Server version.

Except for special cases,
- The front inside uprights (corresponding to M1) always point with the "squares" facing backwards.
- The other pairs of uprights (intermediary and rear M2, M3) always point with the squares facing forwards.
- This means, for example, that the version A rebates point forwards if they are mounted on front uprights and point backwards if they are mounted on rear or intermediary uprights.

Drawings and dimensions

TOWER OR RACKABLE MOUNTING

To fix equipment to 19" rebates whilst laying these on runners, it is important to find out the distance between the bottom of this equipment and the bottom of its front face, with standardised height ((n x U) - 0.81.

Standard runners are provided for different "A" bottom/ rear face bottom distances:
    1002554: A = 2
    1003346: A = 0, the 2 mm thickness of the runner goes into the unit located below.
    1002556: A adjustable from 5 to 0, but when A < 2, the 2 mm thickness of the runner goes into the unit located below.

For the shelves, this gives:
    1002567: A adjustable from 12.3 to 17.3. This shelf has a 12 mm fold at the front.
    1002568: same as 1002567
    1003020: A = 3.5. This shelf has a 10 mm fold at the front therefore this fold will take up 6.5 mm space in the unit below.
    1002965: A = 3.5. This shelf has a 12 mm fold at the front therefore this fold will take up 8.5 mm space in the unit below. 1002888/1002885: A = 3.5, the reinforcement located under the shelf will take up 8.5 mm space in the unit below.

It is therefore important to identify the distance "A" from equipment to choose from our range of accessories.

POSITION: **RACKABLE**   **TOWER**
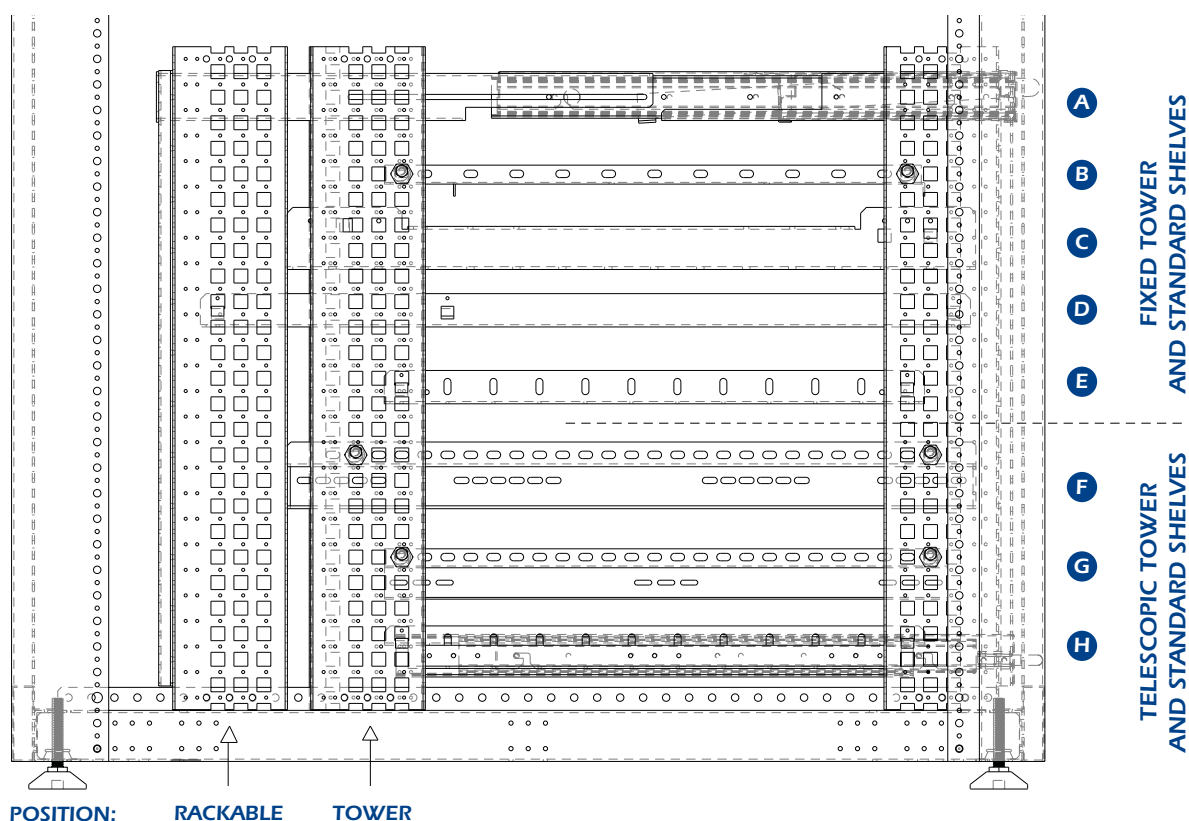
Item	Model	Dimensions	Part no.
A	Keyboard-mouse shelf		1006554
B	Adjustable fixed shelf	Depth 410 mm	1002567 - 1002568 - 1002886
C	Tower fixed shelf	Depth 690 mm	1006243
D	Single runner kit	Width 670 mm	1005817
E	Runner kit	Width 470 mm	1002554
E	Fixed shelves		1003020 - 1002888 - 1002965 - 1002885
F	Tower shelf		1006247
G	Telescopic shelves	Depth 410 mm	1002596 - 1002597
H	Telescopic shelf	Depth 450 mm	1003348

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Drawings and dimensions

SIZES AND MOUNTING POSITIONS IN D.600

NB:
The castor model varies the height of a cabinet:
- on semi-flush mounted castors = H + 52.5 mm
- on external castors = H + 82 mm.
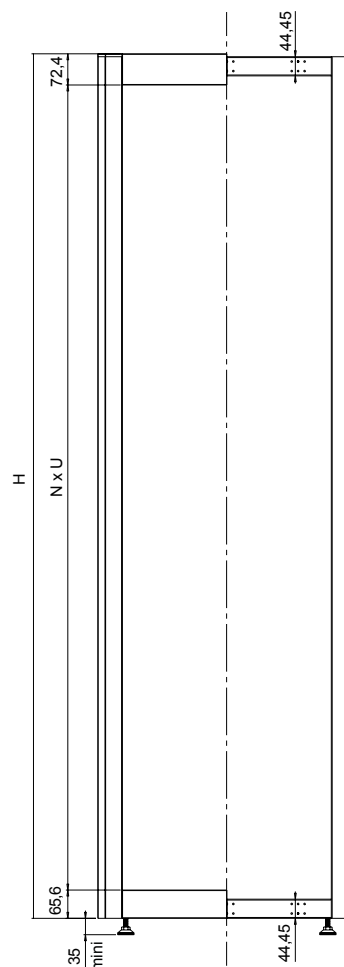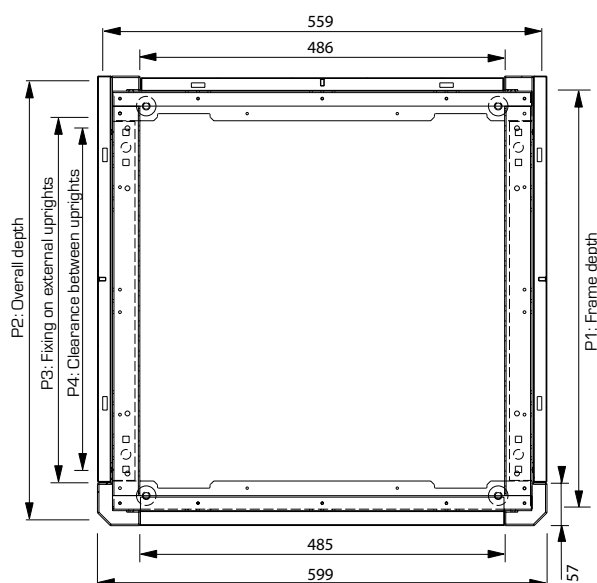
Height	P1	P2	P3	P4
D 600	559	599	479	430
D 800	759	799	679	630
D 900	859	899	779	730
D 1000	959	999	879	830

Height	H	N x U
13 U	718.20	577.85
18 U	940.45	800.10
22 U	1118.25	977.90
27 U	1340.50	1200.15
31 U	1518.30	1377.95
36 U	1740.55	1600.20
40 U	1918.35	1778.00
42 U	2007.25	1866.90
45 U	2140.60	2000.25
47 U	2229.50	2089.15

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Drawings and dimensions

SIZES AND MOUNTING POSITIONS IN D.800

NB:
The castor model varies the height of a cabinet:
- on semi-flush mounted castors = H + 57 mm,
- on external castors = H + 82 mm.

Height	H	N x U
36 U	1740.55	1600.20
42 U	2007.25	1866.90
45 U	2140.60	2000.25
47 U	2229.50	2089.15

without setback

clearance between rebates: 455
19"
remember: 799

with 100 mm setback

19"
remember: 799

for information 1740.5/2007.2/2140.6/2229.5
36U: 1600.2 / 42U: 1866.9 / 45U: 2000.5 / 47U: 2089.15

Notes

Optimale range

Cabinet for severe environments

The OPTIMALE cabinet has been designed as a rational solution for the protection of 19" equipment in severe indoor environments - damp and/or dusty premises, medium and high electromagnetic constraints, in both immunity and emission.

CONSTRUCTION

- Galvanised steel Z275 riveted and screwed structure,
- Clipped EPDM gaskets with steel frame, with tin-plated copper-clad steel metal mesh for the EMC and HF versions, for the doors and panels,
- Closed cell foam panel gaskets for IP55 version panels,
- Robust multipoint closure, with ½ European cylinder, standard key 455E closure,
- Detachable and reversible doors, opening at 180°,
- Panels screwed on crimped nuts (at 125 or 500 mm intervals depending on the version),
- Possibility of reduced or split doors or panels,
- Galvanised steel roofs and flat bottoms, easy to customise,
- Interior uprights according to standard CEA-310E with **wide range of accessories available**,
- Fixed or castor plinth with brake or castors and adjustable feet,
- Standard colour RAL 7035. Other colours on request.

DIMENSIONS AVAILABLE

Heights:	24U, 38U, 42U, 47U
Widths:	600 and 800 mm
Depths:	600, 800 and 1000 mm
Mechanical tests:	EN 61587: levels DL5, SL6
Indices:	IK 10, glazed doors IK 07
Permissible load:	800 kg

DESIGN & PRODUCTION IN FRANCE

4 protection ratings

OPTIMALE RANGE
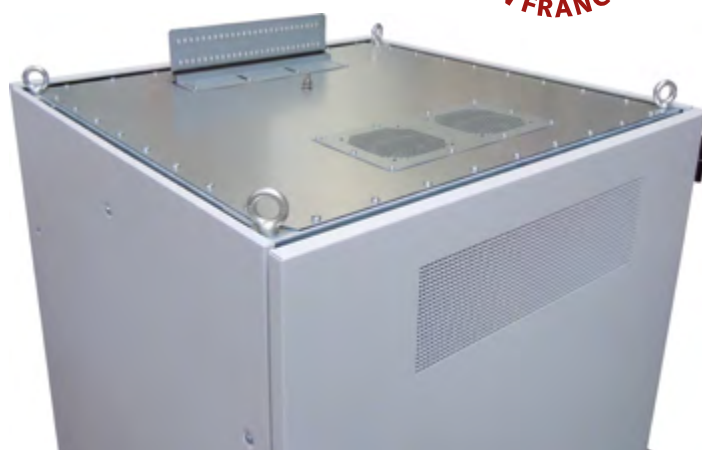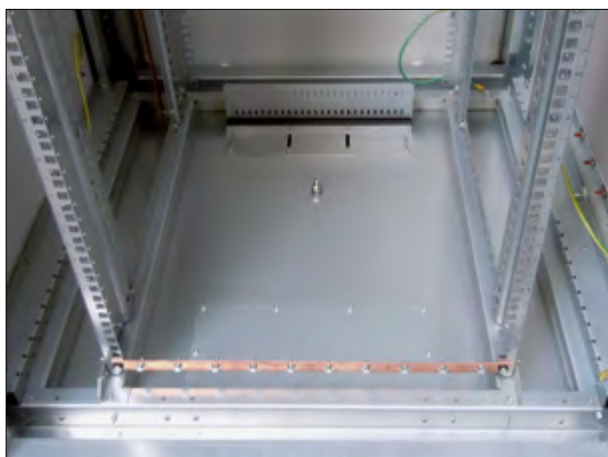
VERSION IP 21

Protected against bodies larger than 12 mm (finger, etc.)
Protected against drops of water falling vertically

- Base version that can become an EMC version without dismantling equipment.
- Door end stops, gaskets on panels.
- Possibility of moving to IP 31 by adding grids on air inlets.

Protected against bodies larger than 2.5 mm (tools, etc.)
Protected against drops of water falling vertically

VERSION IP 55

Protection against dust
Protected against water jets in all directions with a nozzle

- Side and rear panels fixed at 500 mm intervals,
- Closed cell neoprene foam panel gaskets,
- Door gaskets in EPDM tube with metal frame, clipped to gutter,
- Ventilation with filter blocks IP 54 or IP 55, in overpressure or extraction,
- Compact air conditioning fitted on side panel, or door, with plenum option for optimised heat dissipation.
- Power: - Single-phase, 800 to 1900 W L35L35
  - Three-phase, up to 3800 W.

Outdoor versions can be offered on the standard base for outdoor use. Consult us.

EMC VERSION

- Side and rear panels fixed at 500 mm intervals,
- Roofs and bottoms screwed at 80 mm intervals, without EMC gaskets.
- Ventilation via doors and plates perforated 45% for airflow,
- Cable inlets via waveguides, EMC glands,
- Cable inlets via guillotines (loss of about 5 to 10 dB from 30 MHz to 2 GHz).

The curves represent the minimum, mean and maximum values of attenuations measured at each frequency in all directions (front, side, rear, diagonals, etc.) and as per the two horizontal and vertical polarisations, with the smoothing set to 5% during these measurements. No correction is made for resonance.

ATTENUATION CURVE

OPTIMAL EMC cabinet attenuation
30Mhz 6GHz -All directions and polarisations -5% smoothing
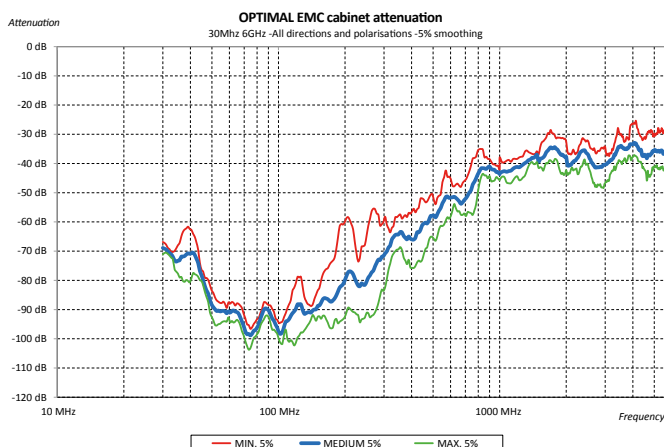
HF VERSION

- Side and rear panels fixed at 125 mm intervals,
- Roofs and bottoms screwed at 80 mm intervals, with EMC gaskets,
- Ventilation by doors or roofs/bottoms fitted with honeycomb,
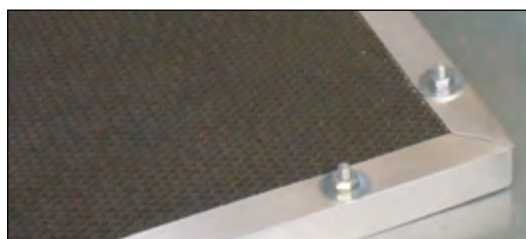
- Cable inlets via waveguides or EMC glands,

ATTENUATION CURVE

OPTIMAL HF cabinet attenuation
30Mhz 3GHz -All directions and polarisations -5% smoothing
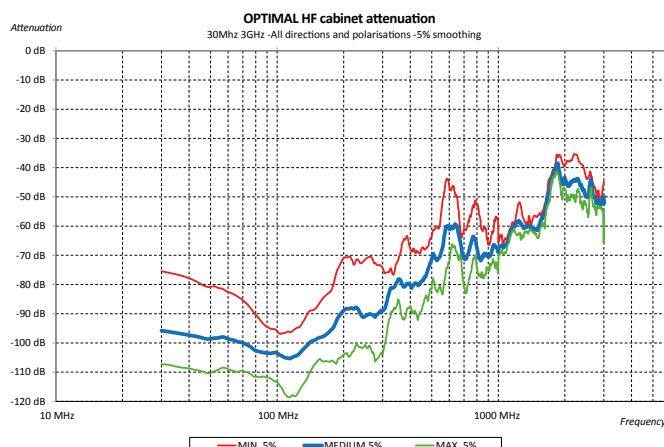
Measuring conditions identical to the EMC curve above.

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Preconfiguration IP 21

PRECONFIGURATION IP 21
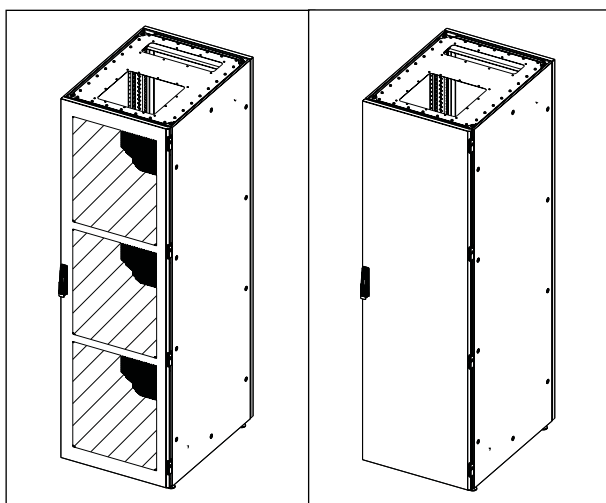
Perforated door   Solid door

The OPTIMALE IP 21 cabinet comprises:
- 1 galvanised steel Z275 riveted and screwed structure,
- 2 panels screwed on crimped nuts (at 500 mm intervals),
- 1 flat roof and 1 flat bottom (see page 48) in galvanised steel,
- 4 inside uprights as per standards CEA-310E and IEC-60297, with marking of units on the 2 front uprights,
- 4 adjustable feet,

and fitted depending on circumstances:
- At the front - with a perforated door.
- At the rear   - with a solid door,
                - with a perforated door,
                - with a glazed door.

Dimensions available:
- Heights 24U, 38U, 42U and 47U
- Widths 600 and 800 mm
- Depths 600, 800 and 1000 mm

⚠️ *CAUTION: This configuration should be supplemented by cable I/O plates, ventilation plates and accessories on page 58 and the next pages.*
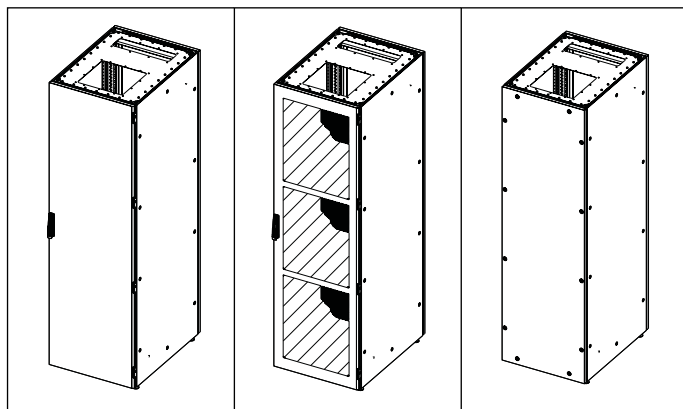
600 wide cabinet part nos.

Width 600		FRONT	Perforated door	
H	**D**	REAR	Solid door	Perforated door
24 U	600	C O N F I G U R A T I O N	1010370	1010385
	800		1010374	1010389
	1000		1010378	1010393
38 U	600		1010371	1010386
	800		1010375	1010390
	1000		1010379	1010394
42 U	600		**1010372**	**1010387**
	800		**1010376**	**1010391**
	1000		**1010380**	**1010395**
47 U	600		1010373	1010388
	800		1010377	1010392
	1000		1010381	1010396

800 wide cabinet part nos.

Width 800		FRONT	Perforated door	
H	**D**	REAR	Solid door	Perforated door
24 U	600	C O N F I G U R A T I O N	1010400	1010415
	800		1010404	1010419
	1000		1010408	1010423
38 U	600		1010401	1010416
	800		1010405	1010420
	1000		1010409	1010424
42 U	600		**1010402**	**1010417**
	800		**1010406**	**1010421**
	1000		**1010410**	**1010425**
47 U	600		1010403	1010418
	800		1010407	1010422
	1000		1010411	1010426

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

COMPLIANT WITH STANDARDS CEI 297 EN 60-950 IEA 310-E   CE   DESIGN & PRODUCTION IN FRANCE

Preconfiguration IP 55

PRECONFIGURATION IP 55

The IP 55 cabinet is not designed for outdoor use. Please consult us for all outdoor applications.
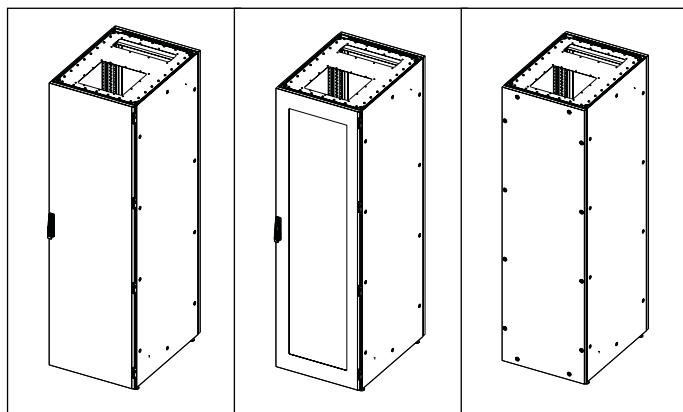
Solid door   Glazed door   Solid panel

The OPTIMALE IP 55 cabinet comprises:
- 1 galvanised steel Z275 riveted and screwed structure,
- 2 panels screwed with neoprene gasket on crimped nuts (at 500 mm intervals),
- 1 flat roof and 1 flat bottom (see page 50) in galvanised steel,
- 4 inside uprights as per standards CEA-310E and IEC-60297, with marking of units on the 2 front uprights,
- 4 adjustable feet,

and fitted depending on circumstances:
- At the front - with a solid door,
  - with a glazed door
- At the rear - with a solid door,
  - with a solid panel

Dimensions available:
- Heights 24U, 38U, 42U and 47U
- Widths 600 and 800 mm
- Depths 600, 800 and 1000 mm

⚠️ *CAUTION: This configuration should be supplemented by cable I/O plates, ventilation plates and accessories on page 58 and the next pages.*

600 wide cabinet part nos.

Width 600		FRONT	Solid door		Glazed door	
H	D	REAR	Solid door	Solid panel	Solid door	Solid panel
24 U	600		**1010430**	**1010080**	**1010445**	**1010460**
	800		**1010434**	**1010085**	**1010449**	**1010464**
	1000		**1010438**	**1010090**	**1010453**	**1010468**
38 U	600		**1010431**	**1010082**	**1010446**	**1010461**
	800	C O N F I G U R A T I O N	**1010435**	**1010087**	**1010450**	**1010465**
	1000		**1010439**	**1010092**	**1010454**	**1010469**
42 U	600		**1010432**	**1010083**	**1010447**	**1010462**
	800		**1010436**	**1010088**	**1010451**	**1010466**
	1000		**1010440**	**1010093**	**1010455**	**1010470**
47 U	600		**1010433**	**1010084**	**1010448**	**1010463**
	800		**1010437**	**1010089**	**1010452**	**1010467**
	1000		**1010441**	**1010094**	**1010456**	**1010471**

800 wide cabinet part nos.

Width 800		FRONT	Solid door		Glazed door	
H	D	REAR	Solid door	Solid panel	Solid door	Solid panel
24 U	600		**1010475**	**1010095**	1010490	1010505
	800		**1010479**	**1010100**	1010494	1010509
	1000		**1010483**	**1010105**	1010498	1010513
38 U	600		**1010476**	**1010097**	**1010491**	**1010506**
	800	C O N F I G U R A T I O N	**1010480**	**1010102**	**1010495**	**1010510**
	1000		**1010484**	**1010107**	**1010499**	**1010514**
42 U	600		**1010477**	**1010098**	**1010492**	**1010507**
	800		**1010481**	**1010103**	**1010496**	**1010511**
	1000		**1010485**	**1010108**	**1010500**	**1010515**
47 U	600		**1010478**	**1010099**	**1010493**	**1010508**
	800		**1010482**	**1010104**	**1010497**	**1010512**
	1000		**1010486**	**1010109**	**1010501**	**1010516**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

EMC preconfiguration

EMC PRECONFIGURATION
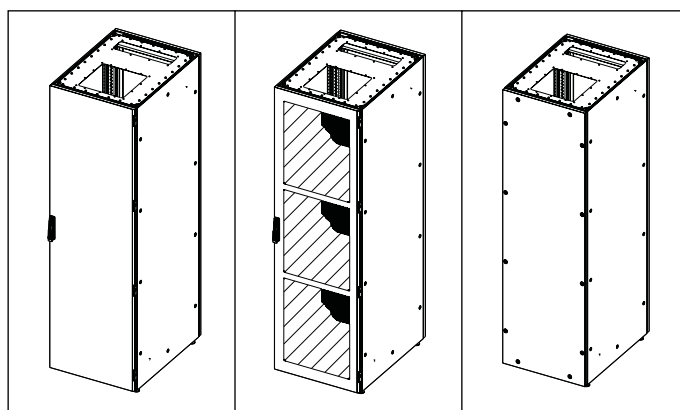
Solid door   Honeycomb door   Solid panel

Glazed door versions on request.

The OPTIMALE EMC cabinet comprises:
- 1 galvanised steel Z275 riveted and screwed structure,
- 2 panels screwed on crimped nuts (at 500 mm intervals),
- 1 flat roof and 1 flat bottom cut out (see page 52) in galvanised steel,
- 4 inside uprights as per standards CEA-310E and IEC-60297, with marking of units on the 2 front uprights,
- 4 adjustable feet,

and fitted depending on circumstances:
- At the front   - with a solid door,
                 - with a perforated door.
- At the rear   - with a solid door,
                 - with a solid panel
                     - with a perforated door.

Dimensions available:
- Heights 24U, 38U, 42U and 47U
- Widths 600 and 800 mm
- Depths 600, 800 and 1000 mm

⚠ *CAUTION: This configuration should be supplemented by cable I/O plates, ventilation plates and accessories on page 58 and the next pages.*

600 wide cabinet part nos.

Width 600		FRONT	Solid door			Perforated door		
H	D	REAR	Solid door	Solid panel	Perforated door	Solid door	Solid panel	Perforated door
24 U	600	C O N F I G U R A T I O N	**1010520**	**1010050**	1010535	1010550	1010565	1010580
	800		**1010524**	**1010055**	1010539	1010554	1010569	1010584
	1000		**1010528**	**1010060**	1010543	1010558	1010573	1010588
38 U	600		**1010521**	**1010052**	1010536	1010551	1010566	1010581
	800		**1010525**	**1010057**	1010540	1010555	1010570	1010585
	1000		**1010529**	**1010062**	1010544	1010559	1010574	1010589
42 U	600		**1010522**	**1010053**	1010537	1010552	1010567	1010582
	800		**1010526**	**1010058**	1010541	1010556	1010571	1010586
	1000		**1010530**	**1010063**	1010545	1010560	1010575	1010590
47 U	600		**1010523**	**1010054**	1010538	1010553	1010568	1010583
	800		**1010527**	**1010059**	1010542	1010557	1010572	1010587
	1000		**1010531**	**1010064**	1010546	1010561	1010576	1010591

800 wide cabinet part nos.

Width 800		FRONT	Solid door			Perforated door		
H	D	REAR	Solid door	Solid panel	Perforated door	Solid door	Solid panel	Perforated door
24 U	600	C O N F I G U R A T I O N	**1010595**	**1010065**	1010610	1010625	1010640	1010655
	800		**1010599**	**1010070**	1010614	1010629	1010644	1010659
	1000		**1010603**	**1010075**	1010618	1010633	1010648	1010663
38 U	600		**1010596**	**1010067**	1010611	1010626	1010641	1010656
	800		**1010600**	**1010072**	1010615	1010630	1010645	1010660
	1000		**1010604**	**1010077**	1010619	1010634	1010649	1010664
42 U	600		**1010597**	**1010068**	1010612	1010627	1010642	1010657
	800		**1010601**	**1010073**	1010616	1010631	1010646	1010661
	1000		**1010605**	**1010078**	1010620	1010635	1010650	1010665
47 U	600		**1010598**	**1010069**	1010613	1010628	1010643	1010658
	800		**1010602**	**1010074**	1010617	1010632	1010647	1010662
	1000		**1010606**	**1010079**	1010621	1010636	1010651	1010666

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

HF preconfiguration

HF PRECONFIGURATION

Solid door   Honeycomb door   Solid panel

Glazed door versions on request.

The OPTIMALE HF cabinet comprises:
- 1 galvanised steel Z275 riveted and screwed structure,
- 2 panels screwed on crimped nuts (at 125 mm intervals),
- 1 flat roof and 1 flat bottom cut out (see page 54) in galvanised steel,
- 4 inside uprights as per standards CEA-310E and IEC-60297, with marking of units on the 2 front uprights,
- 4 adjustable feet,

and fitted depending on circumstances:
- At the front   - with a solid door,
                   - with a honeycomb door
- At the rear   - with a solid door,
                  - with a solid panel
                  - with a honeycomb door

Dimensions available:
- Heights 24U, 38U, 42U and 47U
- Widths 600 and 800 mm
- Depths 600, 800 and 1000 mm

⚠️ *CAUTION: This configuration should be supplemented by cable I/O plates, ventilation plates and accessories on page 58 and the next pages.*

600 wide cabinet part nos.

Width 600		FRONT	Solid door			Honeycomb door		
H	**D**	REAR	Solid door	Solid panel	Honeycomb door	Solid door	Solid panel	Honeycomb door
24 U	600		**1010670**	1010020	1010685	1010700	1010715	1010730
	800		**1010674**	1010025	1010689	1010704	1010719	1010734
	1000		**1010678**	1010030	1010693	1010708	1010723	1010738
38 U	600		**1010671**	1010022	1010686	1010701	1010716	1010731
	800	C O N F I G U R A T I O N	**1010675**	1010027	1010690	1010705	1010720	1010735
	1000		**1010679**	1010032	1010694	1010709	1010724	1010739
42 U	600		**1010672**	1010023	1010687	1010702	1010717	1010732
	800		**1010676**	1010028	1010691	1010706	1010721	1010736
	1000		**1010680**	1010033	1010695	1010710	1010725	1010740
47 U	600		**1010673**	1010024	1010688	1010703	1010718	1010733
	800		**1010677**	1010029	1010692	1010707	1010722	1010737
	1000		**1010681**	1010034	1010696	1010711	1010726	1010741

800 wide cabinet part nos.

Width 800		FRONT	Solid door			Honeycomb door		
H	**D**	REAR	Solid door	Solid panel	Honeycomb door	Solid door	Solid panel	Honeycomb door
24 U	600		**1010744**	1010035	1010759	1010774	1010789	1010803
	800		**1010748**	1010040	1010763	1010778	1010793	1010807
	1000		**1010752**	1010045	1010767	1010782	1010797	1010811
38 U	600		**1010745**	1010037	1010760	1010775	1010790	1010804
	800	C O N F I G U R A T I O N	**1010749**	1010042	1010764	1010779	1010794	1010808
	1000		**1010753**	1010047	1010768	1010783	1010798	1010812
42 U	600		**1010746**	1010038	1010761	1010776	1010791	1010805
	800		**1010750**	1010043	1010765	1010780	1010795	1010809
	1000		**1010754**	1010048	1010769	1010784	1010799	1010813
47 U	600		**1010747**	1010039	1010762	1010777	1010792	1010806
	800		**1010751**	1010044	1010766	1010781	1010796	1010810
	1000		**1010755**	1010049	1010770	1010785	1010800	1010814

COMPLIANT WITH STANDARDS CEI 297 EN 60-950 IEA 310-E   CE   DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

IP 21 enclosures

For customised configurations, select the components to create your own cabinet, complying with size constraints and desired protection ratings. Supplement your selection with cable I/O plates, ventilation plates and accessories on page 58 and the following pages.
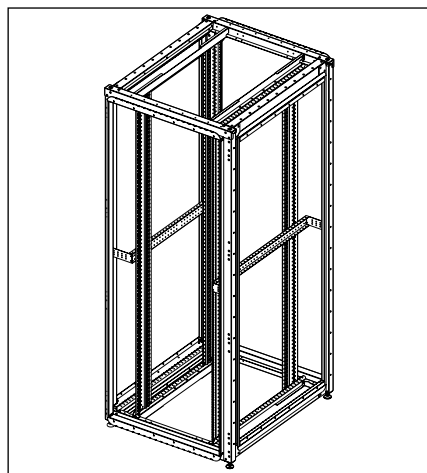
STRUCTURE

- Galvanised steel Z275 riveted and screwed structure,
- Pre-fitted with crossbars (38 to 47U) deep, four inside uprights as per standards CEA-310E and IEC-60297 and four adjustable feet.

Part nos.

Width	Depth	Height			
		24 U	38 U	42 U	47 U
600	600	1010818	1010830	1010836	1010842
	800	1010820	1010832	1010838	1010844
	1000	1010822	1010834	1010840	1010846
800	600	1010819	1010831	1010837	1010843
	800	1010821	1010833	1010839	1010845
	1000	1010823	1010835	1010841	1010847
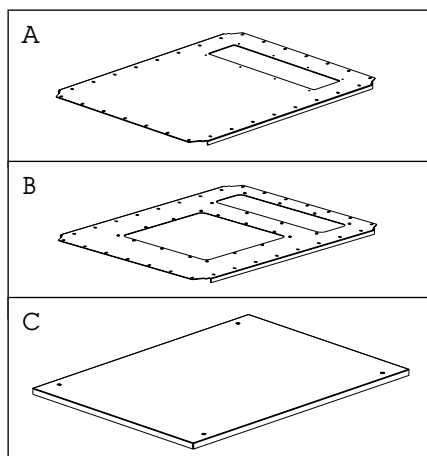
ROOFS

- Flush-mounted roof, screwed to its structure.
- Can be supplemented by a raised roof for ventilation or appearance

⚠️ *Needs cable I/O blanking plates (pages 69 à 71).*

Part nos.

Depth	A - Solid		B - Cut-out*		C - Raised	
	L.600	L.800	L.600	L.800	L.600	L.800
600	1011026	1011027	1011028	1011029	1009942	1009945
800	1011030	1011031	1011032	1011033	1009943	1009946
1000	1011034	1011035	1011036	1011037	1009944	1009947

⚠️ *The ventilation opening must be blanked off: see page 58 and following pages.*
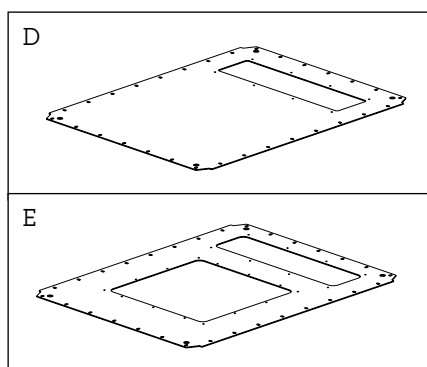
BOTTOM

Flush-mounted bottom, screwed to its structure.
⚠️ *Needs cable I/O blanking plates (pages 69 à 71).*

Part nos.

Depth	D - Solid		E - Cut-out*	
	Width 600	Width 800	Width 600	Width 800
600	1011038	1011039	1011040	1011041
800	1011042	1011043	1011044	1011045
1000	1010848	1010849	1010850	1010851

⚠️ *The ventilation opening must be blanked off: see page 58 and following pages.*
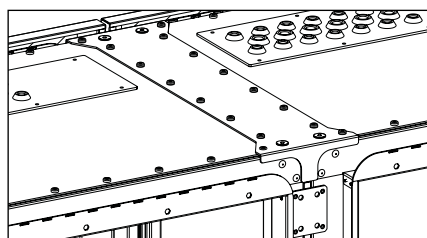
COUPLING KIT

To couple two structures without side panels together.

Part nos.

Depth	Height			
	24 U	38 U	42 U	47 U
600	1010852	1010853	1010854	1010855
800	1010856	1010857	1010858	1010859
1000	1010860	1010861	1010862	1010863

CEI 297
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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

IP 21 enclosures

SIDE PANEL
- Painted steel
- Screwed to the structure.
- IP 21 by baffle, with gasket in top section.
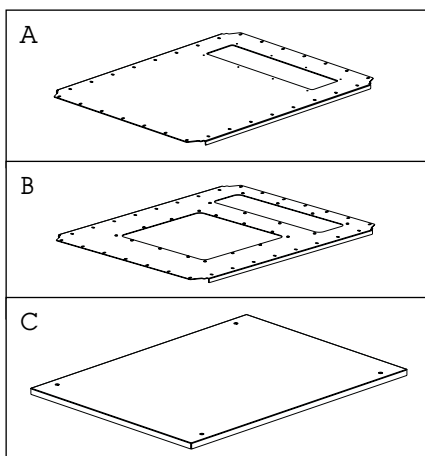- Earthing by 4 mm² braid, Fast-on locking connection.

Part nos.

Depth	Height			
	24 U	38 U	42 U	47 U
600	1010864	1010865	1010866	1010867
800	1010868	1010869	1010870	1010871
1000	1010872	1010873	1010874	1010875

REAR PANEL
Ditto above.

Part nos.

Width	Height			
	24 U	38 U	42 U	47 U
600	1010879	1010880	1010881	1010882
800	1010883	1010884	1010885	1010886
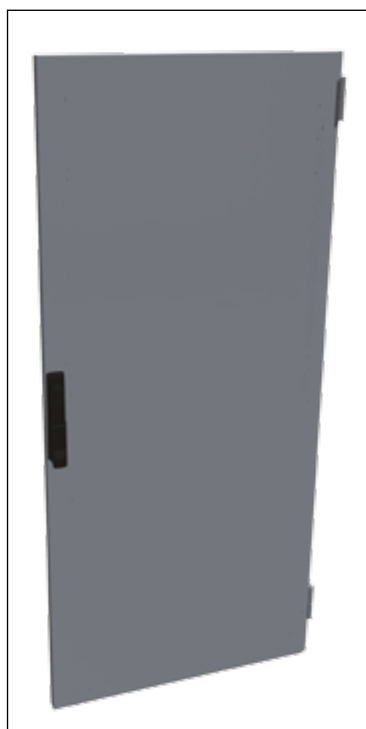
DOORS
- Painted steel
- IP 21 by baffle, with gasket in top section.
- 4-position closing,
- Reversible door unhingeable without tools.
- Screwed to the structure.
- ½ European cylinder exchangeable, supplied as standard in 455E
- Earthing by 4 mm² braid, Fast-on locking connection.

Part nos.

Model	Width	Height			
		24 U	38 U	42 U	47 U
Solid door	600	1010953	1010954	1010955	1010956
	800	1010958	1010959	1010960	1010961
Glazed door	600	1010887	1010888	1010889	1010890
	800	1010892	1010893	1010894	1010895
Perforated door	600	1010897	1010898	1010899	1010900
	800	1010902	1010903	1010904	1010905
Machined door + grids IP21	600	1010907	1010908	1010909	1010910
	800	1010912	1010913	1010914	1010915

Machined doors are fitted with a solid panel and a perforated panel for ventilation and so that the door can be reversed. See page 77.

See "Ventilation equipment", on page 58 and next pages.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

IP 54/55 enclosures

For customised configurations, select the components to create your own cabinet, complying with size constraints and desired protection ratings. Supplement your selection with cable I/O plates, ventilation plates and accessories on page 58 and the following pages.

⚠ **The IP 55 range is not designed for outdoor use. Please consult us for outdoor applications.**
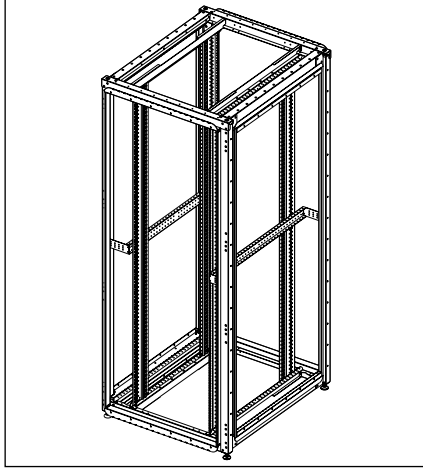
STRUCTURE
- Galvanised steel Z275 riveted and screwed structure,
- Polyurethane gaskets to keep the cabinet sealed,
- Pre-fitted with crossbars (38 to 47U) deep, four inside uprights as per standards CEA-310E and IEC-60297 and four adjustable feet.

Part nos.

Width	Depth	Height			
		24 U	38 U	42 U	47 U
600	600	1009973	1009975	1009976	1009977
	800	1009978	1009980	1009981	1009982
	1000	1009983	1009985	1009986	1009987
800	600	1009988	1009990	1009991	1009992
	800	1009993	1009995	1009996	1009997
	1000	1010116	1010118	1010119	1010120
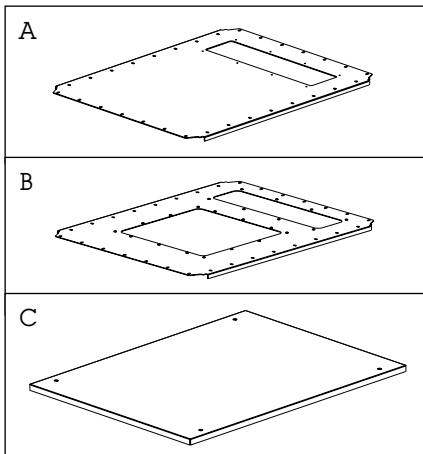
ROOFS
- Flush-mounted roof, screwed to its structure, with neoprene gasket.
- Can be supplemented by a raised roof for ventilation or appearance

⚠ *Needs cable I/O blanking plates (pages 69 à 71).*

Part nos.

Depth	A - Solid		B - Cut-out*		C - Raised	
	L.600	L.800	L.600	L.800	L.600	L.800
600	1009936	1009939	1010151	1010154	1009942	1009945
800	1009937	1009940	1010152	1010155	1009943	1009946
1000	1009938	1009941	1010153	1010156	1009944	1009947

⚠ *The ventilation opening must be blanked off: see page 58 and following pages.*
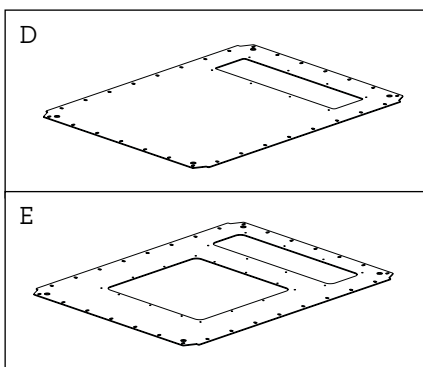
BOTTOM
- Flush-mounted bottom, screwed to its structure, with neoprene gasket.

⚠ *Needs cable I/O blanking plates (pages 69 à 71).*

Part nos.

Depth	D - Solid		E - Cut-out*	
	Width 600	Width 800	Width 600	Width 800
600	1009930	1009933	1010133	1010136
800	1009931	1009934	1010134	1010137
1000	1009932	1009935	1010135	1010138

⚠ *The ventilation opening must be blanked off: see page 58 and following pages.*
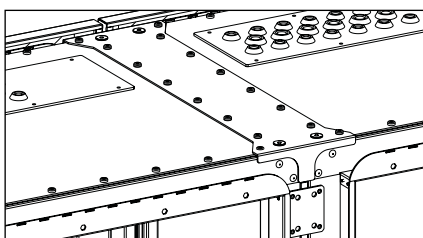
COUPLING KIT
To couple two structures without side panels together.

Part nos.

Depth	Height			
	24 U	38 U	42 U	47 U
600	1010917	1010918	1010919	1010920
800	1010922	1010923	1010924	1010925
1000	1010927	1010928	1010929	1010930

A

B

C

D

E

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.
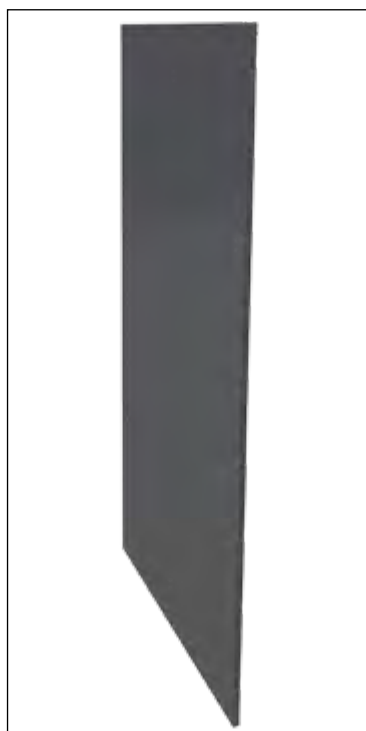
SIDE PANEL
- In painted steel,
- Screwed to the structure,
- Closed cell neoprene foam gaskets,
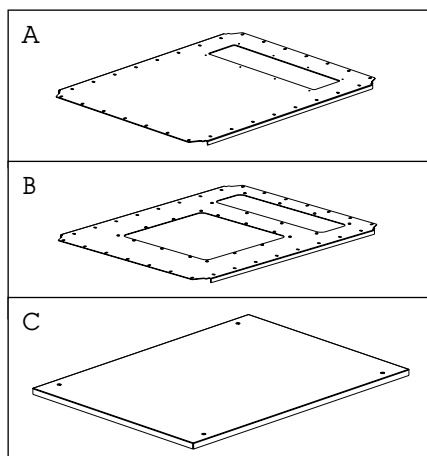- Earthing by 4 mm² braid, Fast-on locking connection.

Part nos.

Depth	Height			
	24 U	38 U	42 U	47 U
600	**1009858**	**1009860**	**1009861**	**1009862**
800	**1009863**	**1009865**	**1009866**	**1009867**
1000	**1009868**	**1009870**	**1009871**	**1009872**

REAR PANEL
Ditto above.

Part nos.

Width	Height			
	24 U	38 U	42 U	47 U
600	**1009873**	**1009875**	**1009876**	**1009877**
800	**1009878**	**1009880**	**1009881**	**1009882**
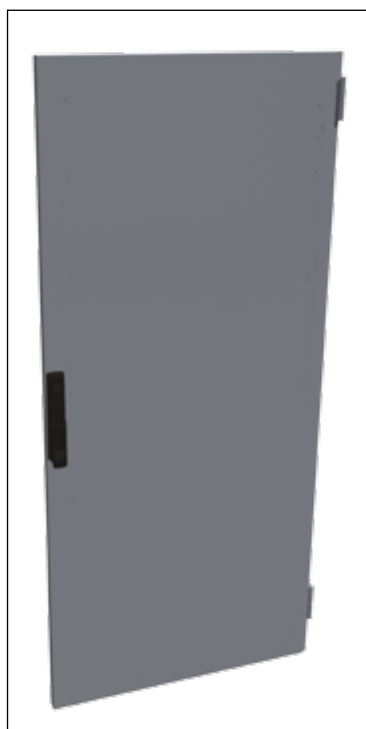
DOORS
- In painted steel,
- Clipped EPDM gaskets with steel frame,
- 4-position closing,
- Reversible door unhingeable without tools,
- ½ European cylinder exchangeable, supplied as standard in 455E
- Earthing by 4 mm² braid, Fast-on locking connection.

Part nos.

Model	Width	Height			
		24 U	38 U	42 U	47 U
Solid door	600	**1009883**	**1009885**	**1009886**	**1009887**
	800	**1009888**	**1009890**	**1009891**	**1009892**
Glazed door	600	**1010932**	**1010933**	**1010934**	**1010935**
	800	1010937	**1010938**	**1010940**	**1010941**
Machined door IP54 + filters	600	1010943	**1010944**	**1010945**	**1010946**
	800	1010948	**1010949**	**1010950**	**1010951**

Machined doors are fitted with a solid panel blanking two cut-outs and two IP54 air filters for ventilation and so that the door can be reversed. See page 77. Please consult us for IP55 filters.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

EMC enclosures

For customised configurations, select the components to create your own cabinet, complying with size constraints and desired protection ratings. Supplement your selection with cable I/O plates, ventilation plates and accessories on page 58 and the following pages.

STRUCTURE
- Galvanised steel Z275 riveted and screwed structure,
- Pre-fitted with crossbars (38 to 47U) deep, four inside uprights as per standards CEA-310E and IEC-60297 and four adjustable feet.

Part nos.

Width	Depth	Height			
		24 U	38 U	42 U	47 U
600	600	**1009793**	**1009795**	**1009796**	**1009797**
	800	**1009798**	**1009800**	**1009801**	**1009802**
	1000	**1009803**	**1009805**	**1009806**	**1009807**
800	600	**1009808**	**1009810**	**1009811**	**1009812**
	800	**1009813**	**1009815**	**1009816**	**1009817**
	1000	**1009818**	**1009820**	**1009821**	**1009822**

ROOFS
- Flush-mounted roof, screwed to its structure, with neoprene gasket.
- Can be supplemented by a raised roof for ventilation or appearance
⚠ *Needs cable I/O blanking plates (pages 69 à 71).*

Part nos.

Depth	A - Solid		B - Cut-out*		C - Raised	
	L.600	L.800	L.600	L.800	L.600	L.800
600	**1009924**	**1009927**	**1010145**	**1010148**	**1009942**	**1009945**
800	**1009925**	**1009928**	**1010146**	**1010149**	**1009943**	**1009946**
1000	**1009926**	**1009929**	**1010147**	**1010150**	**1009944**	**1009947**

⚠ *The ventilation opening must be blanked off: see page 58 and following pages.*
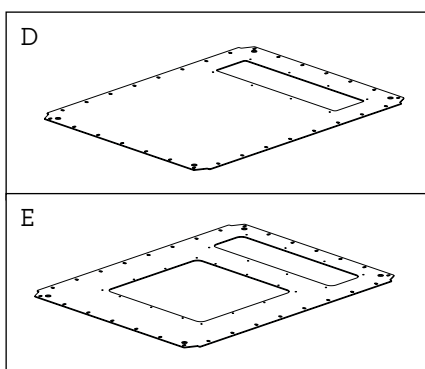
BOTTOM
Flush-mounted bottom, screwed to its structure, with neoprene gasket.
⚠ *Needs cable I/O blanking plates (pages 69 à 71).*

Part nos.

Depth	D - Solid		E - Cut-out*	
	Width 600	Width 800	Width 600	Width 800
600	**1009924**	**1009927**	**1010127**	**1010130**
800	**1009925**	**1009928**	**1010128**	**1010131**
1000	**1009926**	**1009929**	**1010129**	**1010132**

⚠ *The ventilation opening must be blanked off: see page 58 and following pages.*
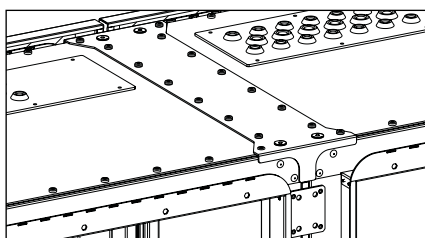
COUPLING KIT
To couple two structures without side panels together.

Part nos.

Depth	Height			
	24 U	38 U	42 U	47 U
600	1010963	1010964	1010965	1010966
800	1010968	1010969	1010970	1010971
1000	1010973	1010974	1010975	1010976

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

SIDE PANEL

- Painted galvanised steel with maskings,
- Clipped EPDM gaskets with steel frame and tin-plated copper-clad steel metal mesh,
- Screwed to the structure at 500 mm intervals,
- Earthing by 4 mm² braid, Fast-on locking connection.

Part nos.

Depth	Height			
	24 U	38 U	42 U	47 U
600	**1009893**	**1009895**	**1009896**	**1009897**
800	**1009898**	**1009900**	**1009774**	**1009902**
1000	**1009903**	**1009905**	**1009906**	**1009907**

REAR PANEL

Ditto above.

Part nos.

Width	Height			
	24 U	38 U	42 U	47 U
600	**1009908**	**1009910**	**1009911**	**1009912**
800	**1009913**	**1009915**	**1009916**	**1009917**

DOORS

- Painted galvanised steel with maskings,
- Clipped EPDM gaskets with steel frame and tin-plated copper-clad steel metal mesh,
- 4-position closing,
- Unhingeable door reversible without tools,
- ½ European cylinder exchangeable, supplied as standard in 455E
- Earthing by 4 mm² braid, Fast-on locking connection.

Part nos.

Model	Width	Height			
		24 U	38 U	42 U	47 U
Solid door	600	**1009848**	**1009850**	**1009851**	**1009852**
	800	**1009853**	**1009855**	**1009856**	**1009857**
EMC machined door + grille	600	1010978	**1010979**	**1010980**	**1010981**
	800	1010983	**1010984**	**1010985**	**1010986**
EMC perforated door	600	1011075	1011076	1011077	1011078
	800	1011079	1011080	1011081	1011082

Glazed door on request.

Machined doors are fitted with a solid panel and a perforated panel for ventilation and so that the door can be reversed. See page 77.

See "Ventilation equipment", on page 58 and next pages, and "Air-conditioning", pages 64/65.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

HF enclosures

For customised configurations, select the components to create your own cabinet, complying with size constraints and desired protection ratings. Supplement your selection with cable I/O plates, ventilation plates and accessories on page 58 and the following pages.

STRUCTURE

- Galvanised steel Z275 riveted and screwed structure,
- Pre-fitted with crossbars (38 to 47U) deep, four inside uprights as per standards CEA-310E and IEC-60297 and four adjustable feet.

Part nos.

Width	Depth	Height			
		24 U	38 U	42 U	47 U
600	600	**1009793**	**1009795**	**1009796**	**1009797**
	800	**1009798**	**1009800**	**1009801**	**1009802**
	1000	**1009803**	**1009805**	**1009806**	**1009807**
800	600	**1009808**	**1009810**	**1009811**	**1009812**
	800	**1009813**	**1009815**	**1009816**	**1009817**
	1000	**1009818**	**1009820**	**1009821**	**1009822**

ROOFS

- Flush-mounted roof, screwed to its structure, with EMC gasket.
- Can be supplemented by a raised roof for ventilation or appearance
⚠ *Needs cable I/O blanking plates (pages 69 à 71).*

Part nos.

Depth	A - Solid		B - Cut-out*		C - Raised**	
	L.600	L.800	L.600	L.800	L.600	L.800
600	**1009918**	**1009921**	**1010139**	**1010142**	**1009942**	**1009945**
800	**1009919**	**1009922**	**1010140**	**1010143**	**1009943**	**1009946**
1000	**1009920**	**1009923**	**1010141**	**1010144**	**1009944**	**1009947**

⚠ *The ventilation opening must be blanked off: see page 58 and following pages.*
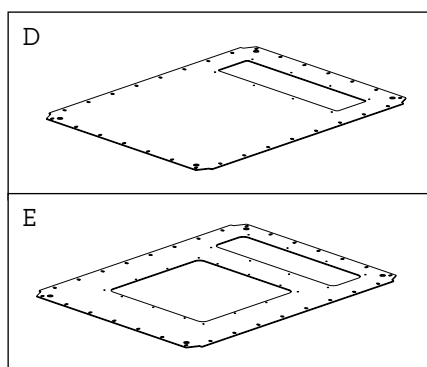
BOTTOM

Flush-mounted bottom, screwed to its structure, with EMC gasket.
⚠ *Needs cable I/O blanking plates (pages 69 à 71).*

Part nos.

Depth	D - Solid		E - Cut-out*	
	Width 600	Width 800	Width 600	Width 800
600	**1009918**	**1009921**	**1010121**	**1010124**
800	**1009919**	**1009922**	**1010122**	**1010125**
1000	**1009920**	**1009923**	**1010123**	**1010126**

⚠ *The ventilation opening must be blanked off: see page 58 and following pages.*
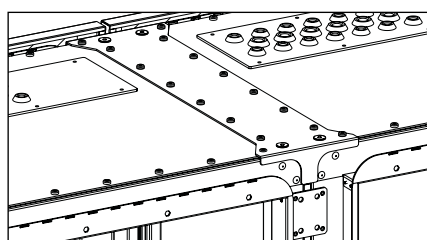
COUPLING KIT

To couple two structures without side panels together.

Part nos.

Depth	Height			
	24 U	38 U	42 U	47 U
600	**1010988**	**1010989**	**1010990**	**1010991**
800	**1010993**	**1010994**	**1010995**	**1010996**
1000	**1010998**	**1010999**	**1011000**	**1011001**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

HF enclosures

SIDE PANEL
- Painted galvanised steel with maskings,
- Clipped EPDM gaskets with steel frame and tin-plated copper-clad steel metal mesh,
- Screwed to the structure at 125 mm intervals,
- Earthing by 4 mm² braid, Fast-on locking connection.

Part nos.

Depth	Height			
	24 U	38 U	42 U	47 U
600	1009823	1009825	1009826	1009827
800	1009828	1009830	1009765	1009832
1000	1009833	1009835	1009836	1009837

REAR PANEL
Ditto above.

Part nos.

Width	Height			
	24 U	38 U	42 U	47 U
600	1009838	1009840	1009841	1009842
800	1009843	1009845	1009846	1009847

DOORS
- Painted galvanised steel with maskings,
- Clipped EPDM gaskets with steel frame and tin-plated copper-clad steel metal mesh,
- 4-position closing,
- Unhingeable door reversible without tools,
- ½ European cylinder exchangeable, supplied as standard in 455E
- Earthing by 4 mm² braid, Fast-on locking connection.

Part nos.
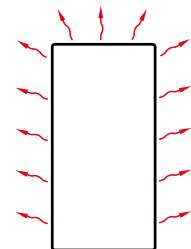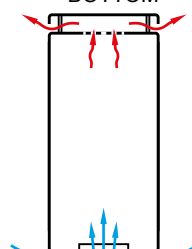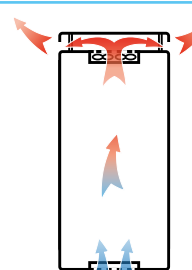
Model	Width	Height			
		24 U	38 U	42 U	47 U
Solid door	600	**1009848**	**1009850**	**1009851**	**1009852**
	800	**1009853**	**1009855**	**1009856**	**1009857**
Honeycomb machined door	600	1011003	1011004	1011005	1011006
	800	1011008	1011009	1011010	1011011
Honeycomb ventilated door	600	1011013	1011014	1011015	1011016
	800	1011018	1011019	1011020	1011021

Machined doors are fitted with a solid panel and a perforated "honeycomb" panel for ventilation and so that the door can be reversed. See page 77.

See "Ventilation equipment", on page 58 and next pages.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Thermal management
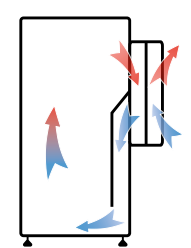
OPTIMALE

The Optimale cabinet offers a wide range of thermal management solutions: cooling for dissipation of a few Watts to several kiloWatts, with or without rise in temperature.
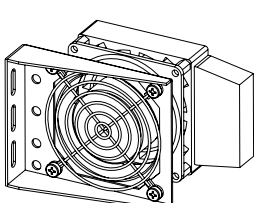
COOLING

100 to 5000 W	**COOLING PASSIVE** COOLING BY: - RADIATION ONLY - NATURAL CONVECTION PAGE 58	Inside temperature **>>** Ambient temperature	SOLID ROOF + BOTTOM IP21 - IP55 - EMC - HF	RAISED ROOF, VENTILATED ROOF + BOTTOM IP21 - EMC - HF IP 54 (DOME)
	VENTILATION ACTIVE FORCED VENTILATION: - IN EXTRACTION - IN OVERPRESSURE PAGE 60	Inside temperature **>** Ambient temperature		IP21 - EMC - HF IP 54 (DOME)

AIR-CONDITIONING

800 to 1900 W *Other power upon request*	**ACTIVE** PAGE 64	Inside temperature **≤** Ambient temperature	AIR-CONDITIONING ON SIDE PANEL IP54 - EMC

HEATING

150 to 600 W	**ACTIVE** PAGE 66	Inside temperature **>** Ambient temperature	HEATING ELEMENT 150 W

Summary of solutions

SOLUTIONS

ROOF + BOTTOM VENTILATED

DOORS PERFORATED HONEYCOMB
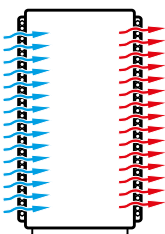
FRONT OR REAR CUT-OUT DOORS, VENTILATED ROOF OR BOTTOM
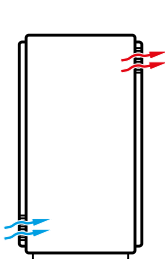
IP20 - EMC - HF

IP21 - EMC
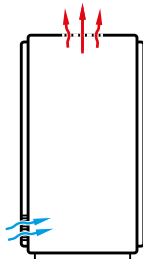
IP21 - IP54 - EMC
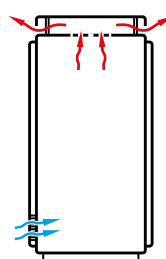
IP20 - EMC - HF

IP 21 - IP 54 (DOME) EMC - HF
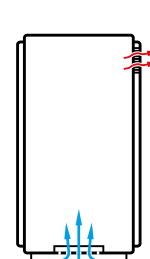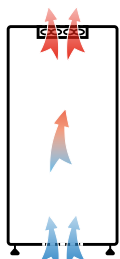
IP21 - IP54 EMC - HF

IP20 - EMC - HF
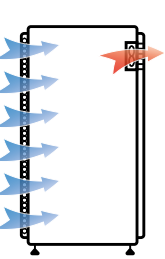
IP21 - EMC
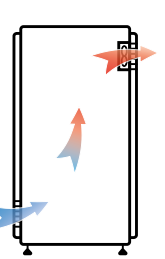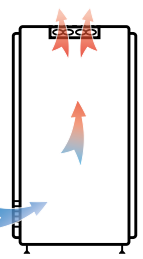
IP21 - IP54 - EMC

IP20 - EMC - HF
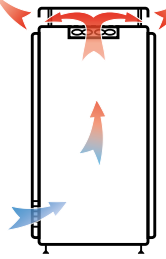
IP 21 - IP 54 (DOME) EMC - HF
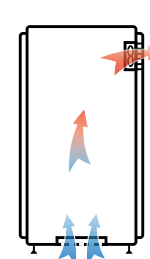
IP21 - IP54 EMC - HF

AIR CONDITIONING UNIT ON DOOR
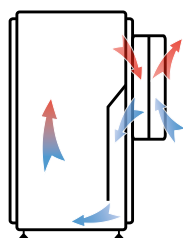
RACKABLE AIR-CONDITIONING UNIT
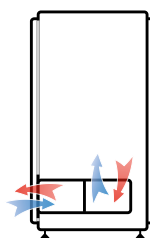
AIR CONDITIONING UNIT ON ROOF
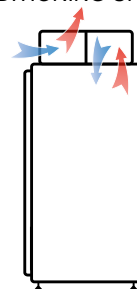
IP54 - EMC

IP54 - EMC

IP54 - EMC

CONTROL

HEATING ELEMENTS 250 W/600 W
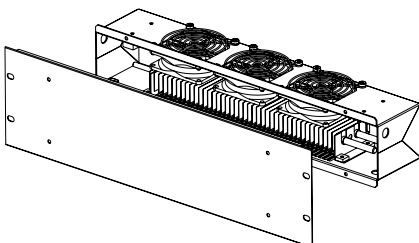
THERMOSTATS
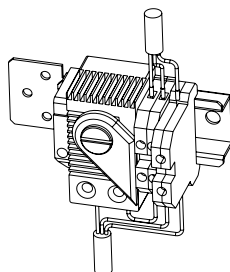
MOISTURE SENSORS

Passive cooling

PASSIVE VENTILATION:

Heat is dissipated by radiation only or by natural convection, in the case of low heat dissipation, or when the equipment can withstand high temperatures. Consult the curve below to estimate the rise in temperature.

Rise in temperature according to the dissipated power

Legend:
- Closed cabinet
- Cabinet IP54 with machined doors and filter G3
- Cabinet IP21 with machined doors
- Cabinet IP31 with machined front door and raised roof

Rise in temperature (y-axis: 0 °C to 60 °C)
Dissipated power (x-axis: 0 W to 3000 W)

Notes:
- For cabinets with machined doors, the rise in temperature corresponds to the difference in temperature between the top of the cabinet and the air intake.
- For closed cabinets, the rise in temperature corresponds to the difference in temperature between the top of the cabinet and the ambient temperature.
Tests conducted with OPTIMALE Structure 42U W600 D800.

1 - BY RADIATION ONLY

The cabinet is fully closed.
The roof or bottom ventilation blanking plates are available for three protection ratings.

Version	IP 40 or EMC	IP 21/31/55	HF
Plate 305 x 315	screw in without gasket	screw in with neoprene gasket	screw in with contact strip
Part no.	**6001034**	**6001035**	**6001036**

For cable passage cut-outs, see page 69.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Passive cooling

2 - BY NATURAL CONVECTION:

This occurs via the ventilation openings:
- 305 x 315 mm in roofs and bottoms
- 223 x 223 mm in doors
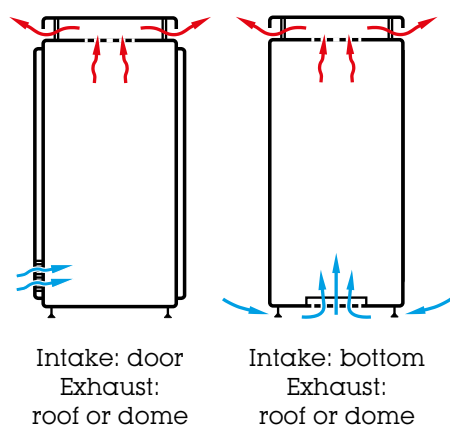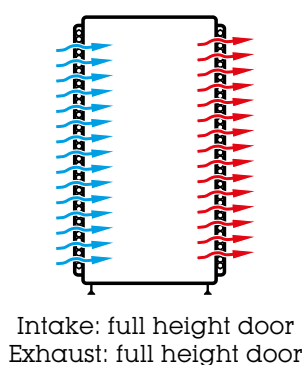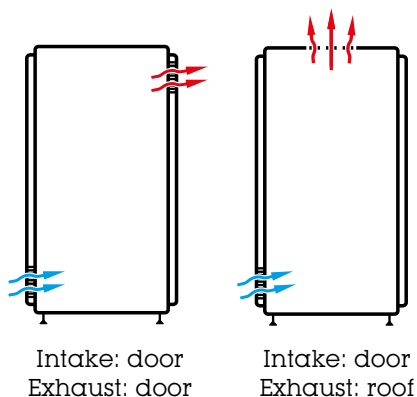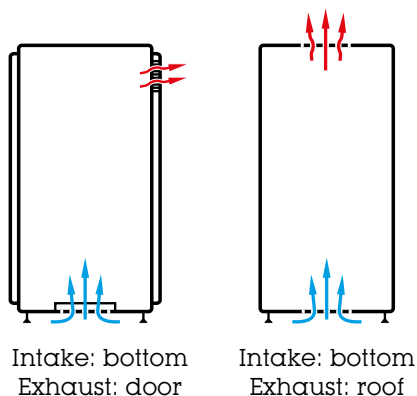
Air intake through bottom:

Perforated roof   Wire mesh   Filter G3   Honeycomb

Version	IP 20	IP 54	EMC	HF
Door outlet	**6001037**	**6001038**	**6001039**	**6001040**
Roof outlet	**6001041**	**6001042***	**6001043**	**6001044**

For an IP 21 roof outlet, see raised roof for ventilation.
* *With dome*

Air intake through machined door

Filter G3   Wire mesh   Spare filter
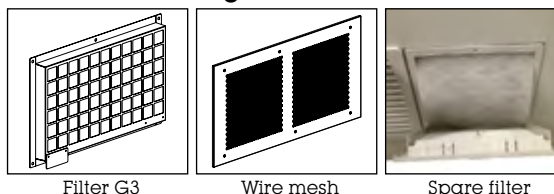
Version	IP 20	IP 54	EMC	HF
Door outlet	**6001045**	**6001046**	**6001047**	**6001048**
Roof outlet	**6001049**	**6001050***	**6001051**	**6001052**

For an IP 21 roof outlet, see raised roof for ventilation.
* *With dome*

Air intake through perforated door
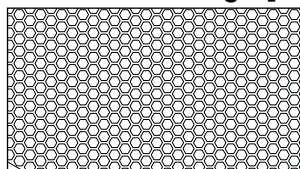
Version	IP 20	IP 54	EMC	HF
Door outlet	**6001053**	**6001054**	**6001055**	**6001056**

For an IP 21 roof outlet, see raised roof for ventilation.

Air exhaust through raised roof or dome
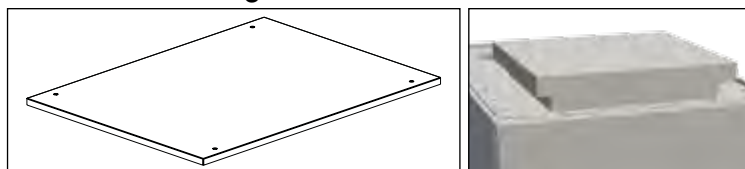
Raised roof for index IPx1, mounted on small 45 mm columns above the roof of the base cabinet

Dome only, for index IPx4

Version	IP 20	IP 54	EMC	HF
Door intake	**6001057**	**6001058**	**6001059**	**6001060**
Bottom intake	**6001061**	**6001062**	**6001063**	**6001064**

Raised roof/dome

Version	P.600	P.800	P.1000
Roof W.600	**1009942**	**1009943**	**1009944**
Roof W.800	**1009945**	**1009946**	**1009947**
Dome	**6000634**		

Intake: bottom **Exhaust: door**

Intake: bottom **Exhaust: roof**

Intake: door **Exhaust: door**

Intake: door **Exhaust: roof**

Intake: full height door **Exhaust: full height door**

Intake: door **Exhaust: roof or dome**

Intake: bottom **Exhaust: roof or dome**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Active ventilation

ACTIVE VENTILATION THROUGH BOTTOMS, ROOFS OR MACHINED DOORS

Active ventilation is necessary when heat dissipation is high or the equipment is temperature-sensitive.

The proposed solutions can ventilate the cabinet vertically, horizontally or can mix air intake and exhaust solutions.
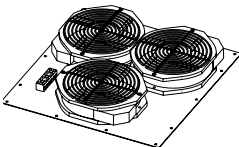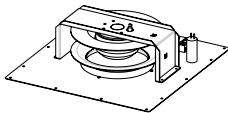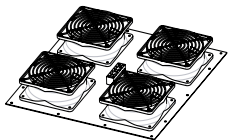
Overpressure solutions protect against dust even when the sealing fails (cable inputs, door not closed properly), but are often cumbersome.

Extraction solutions are normally easier to install.

VENTILATION IN BOTTOM OR ROOF
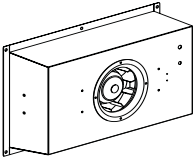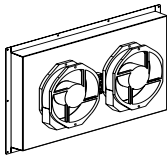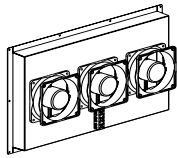
Set of fans, fitted and wired based on the configuration retained:
• Extraction, fixed from outside at top of cabinet
• Overpressure, fixed from inside at bottom of cabinet

Typical actual flow rates (guide values according to the protection)			
	3 Fans 150x172	Radial fan	4 Fans 120x120
IP21	800 m³/h	550 m³/h	450 m³/h
IP54	490 m³/h	450 m³/h	Not recommended
EMC	700 m³/h	500 m³/h	400 m³/h
HF	700 m³/h	500 m³/h	400 m³/h

VENTILATION IN MACHINED DOOR

Set of fans, fitted and wired based on the configuration retained:
• Extraction, fixed at top of door, normally on the rear door
• Overpressure, fixed at bottom of door, normally on the front door

Typical actual flow rates (guide values according to the protection)			
	Radial fan	2 Fans 150x172	3 Fans 120x120
IP21	500 m³/h	480 m³/h	300 m³/h
IP54	460 m³/h	360 m³/h	Not recommended
EMC	450 m³/h	450 m³/h	240 m³/h
HF	450 m³/h	450 m³/h	240 m³/h

COMPLIANT WITH STANDARDS CEI 297 EN 60-950 IEA 310-E · CE · DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Active ventilation

PRECONFIGURATIONS:

AIR INTAKE THROUGH THE BOTTOM, EXHAUST THROUGH THE ROOF
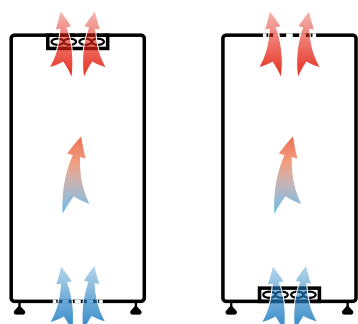
Extraction   Overpressure

The IP21 versions need a raised roof installed (see next page).

⚠ *The IP54 versions are fitted with a ventilation dome (cabinet height + 70 mm).*

Ventilation	Type of mounting	Model	Protection			
			IP21*	IP54	EMC	HF
1 radial fan ø190	Extraction	230V AC	6000742	6000760	6000772	6000790
		24V DC	6000743	6000761	6000773	6000791
		48V DC	6000744	6000762	6000774	6000792
	Overpressure	230V AC	6000745	6000763	6000775	6000793
		24V DC	6000746	6000764	6000776	6000794
		48V DC	6000747	6000765	6000777	6000795
4 fans 120x120	Extraction	230V AC	6000748	Not recommended	6000778	6000796
		24V DC	6000749		6000779	6000797
		48V DC	6000750		6000780	6000798
	Overpressure	230V AC	6000751		6000781	6000799
		24V DC	6000752		6000782	6000800
		48V DC	6000753		6000783	6000801
3 fans 150x172	Extraction	230V AC	6000754	6000766	6000784	6000802
		24V DC	6000755	6000767	6000785	6000803
		48V DC	6000756	6000768	6000786	6000804
	Overpressure	230V AC	6000757	6000769	6000787	6000805
		24V DC	6000758	6000770	6000788	6000806
		48V DC	6000759	6000771	6000789	6000807

AIR INTAKE THROUGH THE BOTTOM, EXHAUST THROUGH THE DOOR
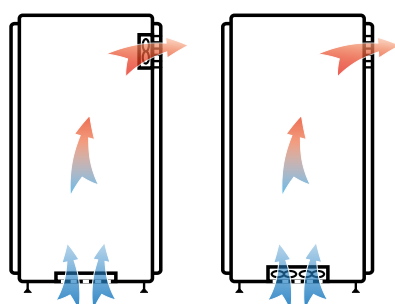
Extraction   Overpressure

Ventilation	Type of mounting	Model	Protection			
			IP21	IP54	EMC	HF
1 radial fan ø190	Extraction	230V AC	6000808	6000826	6000838	6000856
		24V DC	6000809	6000827	6000839	6000857
		48V DC	6000810	6000828	6000840	6000858
	Overpressure	230V AC	6000811	6000829	6000841	6000859
		24V DC	6000812	6000830	6000842	6000860
		48V DC	6000813	6000831	6000843	6000861
Fans 120x120	Extraction (3 fans)	230V AC	6000814	Not recommended	6000844	6000862
		24V DC	6000815		6000845	6000863
		48V DC	6000816		6000846	6000864
	Overpressure (4 fans)	230V AC	6000817		6000847	6000865
		24V DC	6000818		6000848	6000866
		48V DC	6000819		6000849	6000867
Fans 150x172	Extraction (2 fans)	230V AC	6000820	6000832	6000850	6000868
		24V DC	6000821	6000833	6000851	6000869
		48V DC	6000822	6000834	6000852	6000870
	Overpressure (3 fans)	230V AC	6000823	6000835	6000853	6000871
		24V DC	6000824	6000836	6000854	6000872
		48V DC	6000825	6000837	6000855	6000873

AIR INTAKE THROUGH THE DOOR, EXHAUST THROUGH THE ROOF
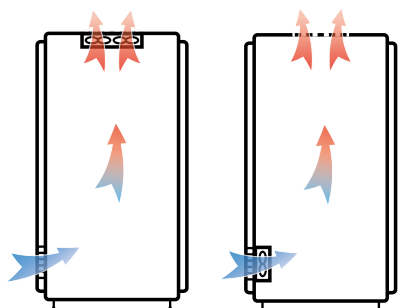
Extraction   Overpressure

The IP21 versions need a raised roof installed (see next page).

⚠ *The IP54 versions are fitted with a ventilation dome (cabinet height + 70 mm).*

Ventilation	Type of mounting	Model	Protection			
			IP21*	IP54	EMC	HF
1 radial fan ø190	Extraction	230V AC	6000874	6000892	6000904	6000922
		24V DC	6000875	6000893	6000905	6000923
		48V DC	6000876	6000894	6000906	6000924
	Overpressure	230V AC	6000877	6000895	6000907	6000925
		24V DC	6000878	6000896	6000908	6000926
		48V DC	6000879	6000897	6000909	6000927
Fans 120x120	Extraction (4 fans)	230V AC	6000880	Not recommended	6000910	6000928
		24V DC	6000881		6000911	6000929
		48V DC	6000882		6000912	6000930
	Overpressure (3 fans)	230V AC	6000883		6000913	6000931
		24V DC	6000884		6000914	6000932
		48V DC	6000885		6000915	6000933
Fans 150x172	Extraction (3 fans)	230V AC	6000886	6000898	6000916	6000934
		24V DC	6000887	6000899	6000917	6000935
		48V DC	6000888	6000900	6000918	6000936
	Overpressure (2 fans)	230V AC	6000889	6000901	6000919	6000937
		24V DC	6000890	6000902	6000920	6000938
		48V DC	6000891	6000903	6000921	6000939

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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Active ventilation

PRECONFIGURATIONS:

AIR INTAKE THROUGH ONE DOOR, EXHAUST THROUGH THE OTHER DOOR
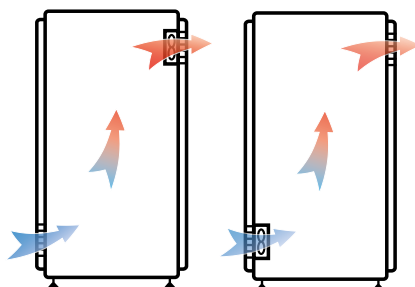
Extraction | Overpressure

Ventilation	Type of mounting	Model	Protection			
			IP21	IP54	EMC	HF
1 radial fan ∅190	Extraction	230V AC	**6000940**	**6000958**	**6000970**	**6000988**
		24V DC	6000941	6000959	6000971	6000989
		48V DC	6000942	6000960	6000972	6000990
	Overpressure	230V AC	**6000943**	**6000961**	**6000973**	**6000991**
		24V DC	6000944	6000962	6000974	6000992
		48V DC	6000945	6000963	6000975	6000993
Fans 120x120	Extraction (3 fans)	230V AC	**6000946**	Not recommended	**6000976**	**6000994**
		24V DC	**6000947**		**6000977**	**6000995**
		48V DC	**6000948**		**6000978**	**6000996**
	Overpressure (3 fans)	230V AC	**6000949**		**6000979**	**6000997**
		24V DC	**6000950**		**6000980**	**6000998**
		48V DC	**6000951**		**6000981**	**6000999**
Fans 150x172	Extraction (2 fans)	230V AC	**6000952**	**6000964**	**6000982**	**6001000**
		24V DC	**6000953**	**6000965**	**6000983**	**6001001**
		48V DC	**6000954**	**6000966**	**6000984**	**6001002**
	Overpressure (2 fans)	230V AC	**6000955**	**6000967**	**6000985**	**6001003**
		24V DC	**6000956**	**6000968**	**6000986**	**6001004**
		48V DC	**6000957**	**6000969**	**6000987**	**6001005**

AIR INTAKE THROUGH FULL HEIGHT DOOR, EXHAUST THROUGH THE OTHER DOOR
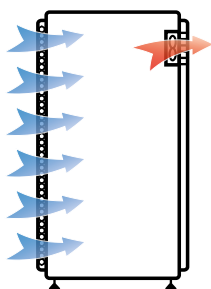
Extraction

Ventilation	Type of mounting	Model	Protection			
			IP21	IP54	EMC	HF
1 radial fan ∅190	Extraction	230V AC	**6001006**	Special order	**6001015**	**6001024**
		24V DC	6001007		6001016	6001025
		48V DC	6001008		6001017	6001026
Fans 120x120	Extraction (3 fans)	230V AC	**6001009**		**6001018**	**6001027**
		24V DC	**6001010**		**6001019**	**6001028**
		48V DC	**6001011**		**6001020**	**6001029**
Fans 150x172	Extraction (2 fans)	230V AC	**6001012**		**6001021**	**6001030**
		24V DC	**6001013**		**6001022**	**6001031**
		48V DC	**6001014**		**6001023**	**6001032**

RAISED ROOF

The raised roof is suitable for all types of IP21, IP54, EMC or HF cabinet. Mounted on small columns above the base cabinet roof, it improves the index IPx1.
⚠ *Not compatible with IP54 air exhausts.*

Depth	Raised roof	
	L.600	L.800
600	**1009942**	**1009945**
800	**1009943**	**1009946**
1000	**1009944**	**1009947**

Extraction | Overpressure | Extraction | Overpressure | Extraction

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

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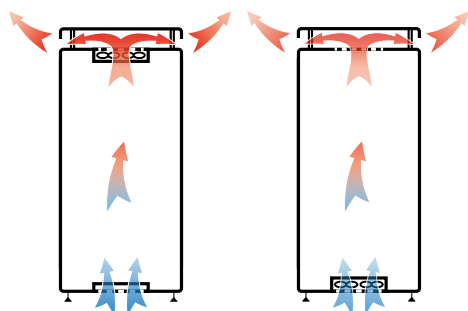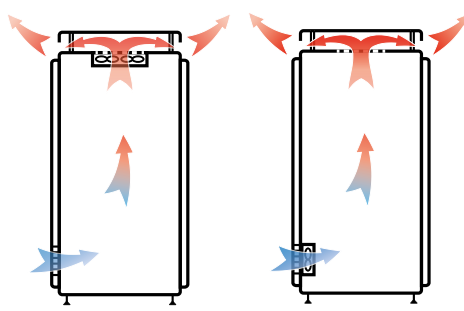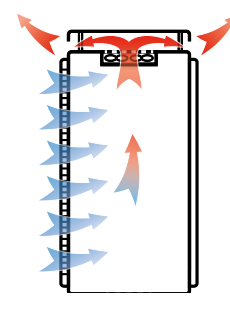
Active ventilation
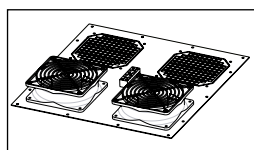
FANS

• Fans for roof or bottom

Set of fans, fitted and wired based on the configuration retained:
- Extraction, fixed from outside at top of cabinet
- Overpressure, fixed from inside at bottom of cabinet
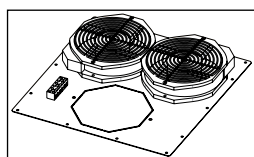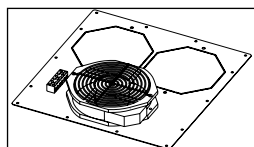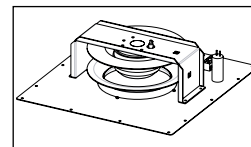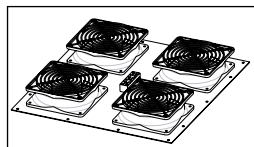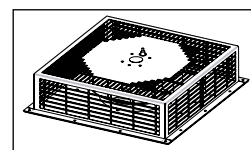
Part nos.

Fan		Model				Guide flow rates in m3/h		
Dimensions	Nbr.	230 VAC	230 VAC low noise	24 VDC	48 VDC	open air	with intake filters	with intake and outlet filters
120 x 120	x 2	**6000392**	**6000614**	**6000616**	**6000623**	300	180	Not recommended
	x 4	**6000393**	**6000615**	**6000617**	**6000624**	600	230	
150 x 172	x 1	**6000394**	-	**6000618**	**6000625**	320	230	
	x 2	**6000395**		**6000619**	**6000626**	620		
	x 3	**6000396**		**6000620**	**6000627**	900		
Radial fan Ø 190	x 1	**6000420**	-	6000621	6000628	500	460	
Radial fan Ø 190*	x 1	**6000421**		6000622	6000629	550	460	

* Radial fan without protective housing, to be used with dome without fail.
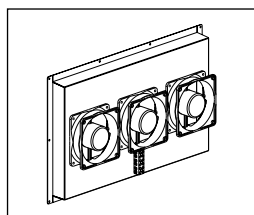
• Fans for machined door

Set of fans, fitted and wired based on the configuration retained:
- Extraction, fixed at top of door, normally on the rear door
- Overpressure, fixed at bottom of door, normally on the front door
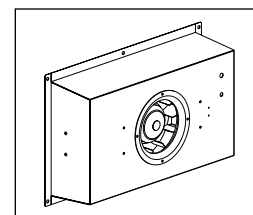
Part nos.

Fan		Model			Guide flow rates in m3/h		
Dimensions	Nbr.	230 VAC	24 VDC	48 VDC	open air	with intake filters	with intake and outlet filters
120 x 120	x 3	**6000635**	**6000638**	**6000641**	450	Not recommended	
150 x 172	x 2	**6000636**	**6000639**	**6000642**	620		
Radial fan Ø 190	x 1	**6000637**	6000640	6000643	550	460	

SPARE FILTERS

For bottom of cabinet. Useful format 305 x 315 mm.

Version IP 20	Perforated roof	**6000630**
Version IP 30/EMC	Wire mesh IP 30	**6000519**
Version IP 54/EMC	Filter G3 + EMC wire mesh	**6000518**
Version HF	Honeycomb	6000631

For cabinet roof. Useful format 305 x 315 mm.

Version IP 20	Perforated roof	**6000630**
Version IP 30/EMC	Wire mesh IP 30	**6000519**
Version IP 50	Filter G3	**6000632**
Version IP 54	Dome + filter G3	**6000633**
Version IP x4	Dome only, for fans	**6000634**

For machined door
For IP 21, EMC and HF protections without filter, the machined doors are already equipped.

Filter G3 kit for IP 21/EMC door	**6000644**
Wire mesh kit IP 30	**6000645**
Filter G3 kit for HF carbon-core honeycomb door	6000647

Spare filter kit for IP 54 door

Set of 2 filters 220 x 220	**6000646**

Available kits

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Air-conditioning

AIR-CONDITIONING UNIT CHARACTERISTICS

The electrical cabinet air-conditioning unit is a simple and efficient method of dealing with cooling problems in control and power cabinets.

Their robustness and autonomous regulation controls the operation of your electrical and electronic components perfectly.

Must be used in cabinet IP 5x. Please consult us about using it in the EMC or HF cabinet.

Standard equipment:
- Hermetically-sealed piston compressor
- Calibrated capillary expansion
- High-efficiency fans fitted with internal protection
- Condenser and copper-clad evaporator aluminium fins
- Aluminium air filter
- Electronic thermostat with digital display and high and low temperature alarms
- Condensate evacuation
- Cabinet sealing gasket supplied
- Bodywork colour grey RAL 7035

Options and variants:
- Different voltages and frequencies from the standard 230 VAC 50 Hz
- Flush-mounted and semi-flush-mounted model
- Different RAL paint from the standard
- Stainless steel cowling
- Anti-corrosion treatment of batteries and pipes
- Heating resistor

SOLUTION OVERVIEW/POWER CHOICES

Width	Depth	Thermal dissipation capacity according to the air-conditioning unit power								
		Temp. 25° inside/35° ambient			Temp. 35° inside/35° ambient			Temp. 35° inside/50° ambient		
		800 W	1500 W	2000 W	800 W	1500 W	2000 W	800 W	1500 W	2000 W
24 U										
L.600	P.600	343 W	853 W	1,201 W				330 W	820 W	1,155 W
	P.800	291 W	796 W	1,144 W				280 W	765 W	1,100 W
	P.1000	229 W	738 W	1,087 W	800 W	1450 W	1900 W	220 W	710 W	1,045 W
L.800	P.600	291 W	796 W	1,144 W				280 W	765 W	1,100 W
	P.800	229 W	736 W	1,084 W				220 W	708 W	1,043 W
	P.1000	166 W	676 W	1,024 W				160 W	650 W	985 W
38 U										
L.600	P.600	218 W	723 W	1,076 W				210 W	695 W	1,035 W
	P.800	140 W	650 W	998 W				135 W	625 W	960 W
	P.1000	68 W	577 W	920 W	800 W	1450 W	1900 W	65 W	555 W	885 W
L.800	P.600	140 W	650 W	998 W				135 W	625 W	960 W
	P.800	80 W	568 W	918 W				60 W	547 W	883 W
	P.1000	--	487 W	837 W				--	468 W	805 W
42 U										
L.600	P.600	182 W	686 W	1,040 W				175 W	660 W	1,000 W
	P.800	99 W	603 W	957 W				95 W	580 W	920 W
	P.1000	21 W	520 W	874 W	800 W	1450 W	1900 W	20 W	500 W	840 W
L.800	P.600	99 W	603 W	957 W				95 W	580 W	920 W
	P.800	40 W	517 W	868 W				--	498 W	835 W
	P.1000	--	432 W	780 W				--	415 W	750 W
47 U										
L.600	P.600	135 W	645 W	998 W				130 W	620 W	960 W
	P.800	47 W	551 W	905 W				45 W	530 W	870 W
	P.1000	--	468 W	811 W	800 W	1450 W	1900 W	--	450 W	780 W
L.800	P.600	47 W	551 W	905 W				45 W	530 W	870 W
	P.800	--	458 W	811 W				--	440 W	780 W
	P.1000	--	364 W	718 W				--	350 W	690 W
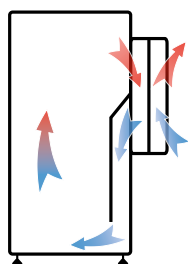
Air-conditioning

AIR CONDITIONING UNIT ON SIDE PANEL

- Cost-saving solution.
- Good vertical air distribution with optional deflector.

Air-conditioning unit + panel part nos.

Ht.	Depth	Power		
		800 W	1500 W	2000 W
24 U	600	6000648	6000660	6000672
	800	**6000652**	**6000664**	**6000676**
	1000	6000656	6000668	6000680
38 U	600	6000649	6000661	6000673
	800	6000653	6000665	6000677
	1000	6000657	6000669	6000681
42 U	600	6000650	6000662	6000674
	800	**6000654**	**6000666**	**6000678**
	1000	**6000658**	**6000670**	**6000682**
47 U	600	6000651	6000663	6000675
	800	6000655	6000667	6000679
	1000	6000659	6000671	6000683

Deflector part nos.

Width or depth	Height		
	38 U	42 U	47 U
600	1011059	1011060	1011061
800	1011062	1011063	1011064
1000	1011065	1011066	1011067

AIR CONDITIONING UNIT ON DOOR

- Direct access to the air-conditioning unit via the front or rear door, for maximum maintainability.
- Good vertical air distribution with optional deflector.
- The standard door is proposed, hinged on the right. Please consult us for doors hinged on the left.

Air-conditioning unit + door part nos.

Ht.	Width	Power		
		800 W	1500 W	2000 W
24 U	600	6000684	6000692	6000700
	800	6000688	6000696	6000704
38 U	600	6000685	6000693	6000701
	800	6000689	6000697	6000705
42 U	600	6000686	6000694	6000702
	800	6000690	6000698	6000706
47 U	600	6000687	6000695	6000703
	800	6000691	6000699	6000707

< **Deflector part nos.** ditto opposite.

19" RACK-MOUNT AIR CONDITIONING

- Does not stick out from the cabinet, but takes up 7U/550 mm deep inside.
- 6U air-conditioning unit + 7U interface parts for machined door IP55.
- 19" uprights set back by 100 mm.

Air-conditioning unit part nos.

Depth	Power 1500 W
800	6000708
1000	6000709
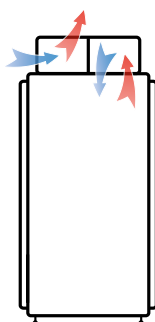
AIR-CONDITIONING ON ROOF

- Cost-saving solution.
- Does not stick out to the side or front/rear

Air-conditioning + roof nos.

Width	Depth	Power		
		1000 W	1450 W	2000 W
600	800	6000710	6000714	-
	1000	6000712	6000716	6000718
800	800	6000711	6000715	-
	1000	6000713	6000717	6000719
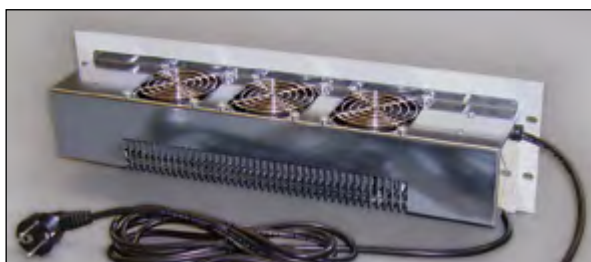
References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Heating

HEATING ELEMENTS

- To keep a cabinet from freezing in unheated premises or to prevent condensation.
- Resistors equipped with fans for improved convection.
- Fixed directly to the outside uprights or inside uprights 19", depending on the model.
- Fitted with a 3 x 1 mm^2 cord, length 2 m with plug.

Part nos.

Heating elements		
80 x 80 x 50/150W	19"/3U/D.85/250W	19"/3U/D.85/600W
6000415	**6000416**	**6000418**

PULSED AIR HEATING ELEMENT

- Pulsed air heating element designed to keep the cabinet from freezing in unheated premises or to prevent condensation.
- The fan circulates the air and maintains a steady temperature.
- The built-in thermostat is used to set the desired temperature.
- Mount onto internal or external uprights.

Composition:
- 1 DIN rail,
- 1 resistance + terminals for power supply.
- 1 cord 3 x 1 mm^2 cord, 2 m long with UTE plug.

Characteristics:
- Supply voltage: AC 220-240 V, 50/60 Hz
- Heating power (50 Hz) for an ambient temperature of +20°C: 550 W
- Heating power (60 Hz) for an ambient temperature of +20°C: 650 W
- Max. start-up current: 13.0 A
- Timed fuse T recommended: 10.0 A
- Air flow rate, free blowing: 45 m^3/h
- Temperature controller adjustment range (hysteresis 7 K (±4 K tolerance)): 0 to +60°C
- Weight: approx. 1.1 kg.

Part no.

Pulsed air heating element	6001033
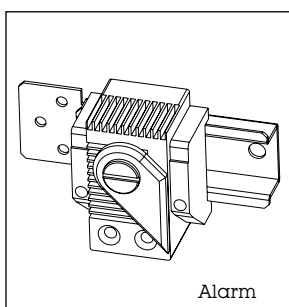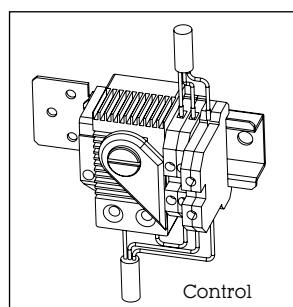
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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Control

Control

Alarm

CONTROL

The control thermostat is used to operate the fans/heating elements as and when necessary. It also saves on power and limits filter clogging.

The alarm thermostat opens the loop when the setpoint is overrun.

A

B

C

D
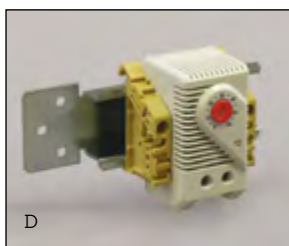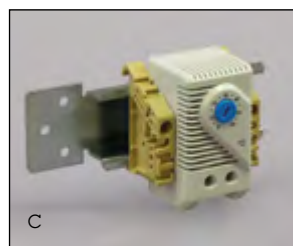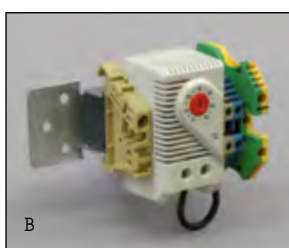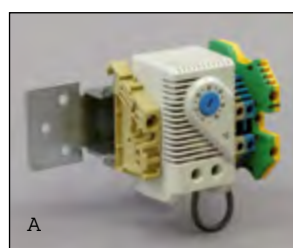
THERMOSTATS

Mount onto internal or external uprights.

Composition:
• 1 DIN rail,
• Thermostat + terminals for power supply, in the case of control thermostats, pre-wired to the contact.
• Capacitance switch 10 A at 250 VAC.

Part nos.

Control thermostat		Alarm thermostat	
A) ventilation	B) heater	C) low temp.*	D) high temp.*
6000388	**6000389**	**6000390**	**6000391**

* Dry contact: the circuit is open if the threshold is exceeded.

Wiring diagram
Heating element
Fan with filter, Air-conditioning unit, Signage
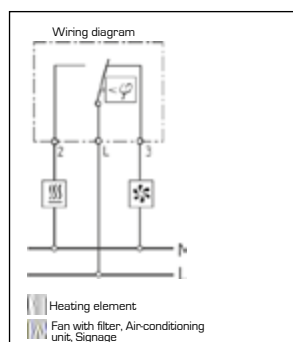
MECHANICAL MOISTURE SENSOR

• The mechanical moisture sensor is used to control the heating or ventilation of the electrical cabinet to keep the air humidity above the dew point.
• This prevents condensation and corrosion of components.
• Adjustment ranges: 35 to 95% RH

Mounts onto inside or outside uprights.

Composition:
• 1 DIN rail,
• 1 Mechanical moisture sensor

Part no.

Mechanical moisture sensor	**6001065**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Outside equipment
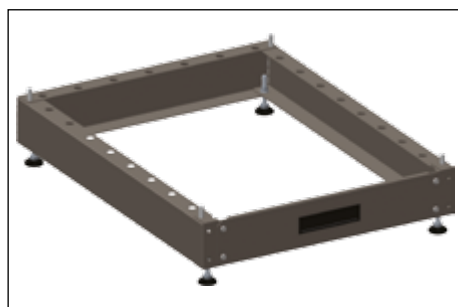
FIXED PLINTH
- Welded, folded steel belt, 100 mm high, with removable front panel.
- The plinth is fitted with 4 crimped nuts M10 that can accommodate the cabinet's adjustable feet for levelling purposes.
- Black paint RAL 9005

Part nos.

Depth	L.600	L.800
600 mm	**1009948**	**1009951**
800 mm	**1009949**	**1009952**
1000 mm	**1009950**	**1009953**
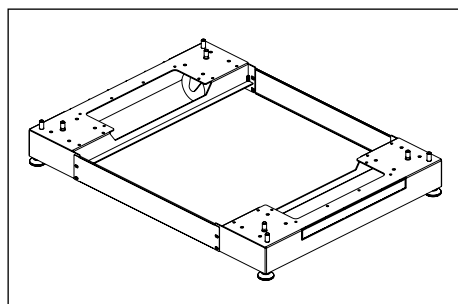
CASTOR PLINTHS
- Required to move cabinets whether or not loaded.
- In steel painted Black RAL 9005.

Plinth with castors and adjustable feet
Plinth designed for moving the cabinet to its use position. Can be fitted with an outside filter drawer.

Part nos.

Load	L.600			L.800		
	P.600	P.800	P.1000	P.600	P.800	P.1000
450 kg	**1010180**	**1010181**	**1010182**	1010183	1010184	1010185
800 kg	1010186	1010187	1010188	1010189	1010190	1010191
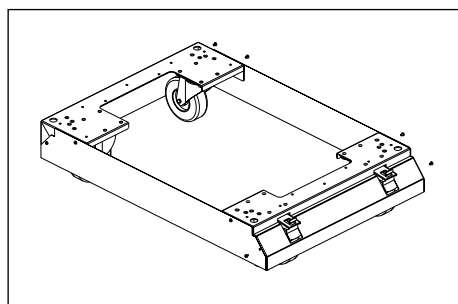
Plinth with castors
Very stable plinth, castors 125 mm in diameter including two with brakes, for cabinets moved frequently.

Part nos.

Load	L.600			L.800		
	P.600	P.800	P.1000	P.600	P.800	P.1000
500 kg	**1009954**	**1009955**	1009956	1009957	1009958	1009959
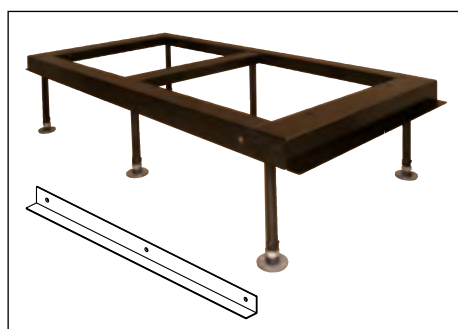
RAISED FLOOR SUPPORT
To install the cabinets on a raised floor.
- Mounting on 4 adjustable feet in D.600 and D.800 and on 6 in D.1000.
- Height adjustment from 260 to 350 mm.
- Permissible static load: 1000 kg
- Front and rear panel support included.
- Kit with 2 side supports, bracket type, to be ordered separately according to depth.

Model	P.600	P.800	P.1000
Seat 600 wide	**1011137**	**1011138**	**1011139**
Support Width 800	**1011140**	**1011141**	**1011142**
2 lateral support kit	**1008317**	**1008318**	**1011143**

FLOOR FIXING KIT
Composition:
- 4 expansion anchors 10/80/140 for direct floor fixing,
- 4 screws CHC M10X80 for fixing to the raised floor support,
- 16 flat washers MU 10 + 8 washers CS MU 10 + 12 nuts HU M10

Part no.

Floor fixing kit	1011058

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Cable passages

CONFIGURATION OF ROOFS AND BOTTOMS DEPENDING ON THE SIZE OF THE CABINET.

The number and size of cable I/O plates change according to the type of roof/bottom and cabinet size.

Plate dimensions and layout as per roof/bottom model

300 x 65
400 x 100
305 x 315

Model solid

L.600   **L.800**

Model ventilated

L.600

P.600   **D.800 D.1000**

L.800

P.600
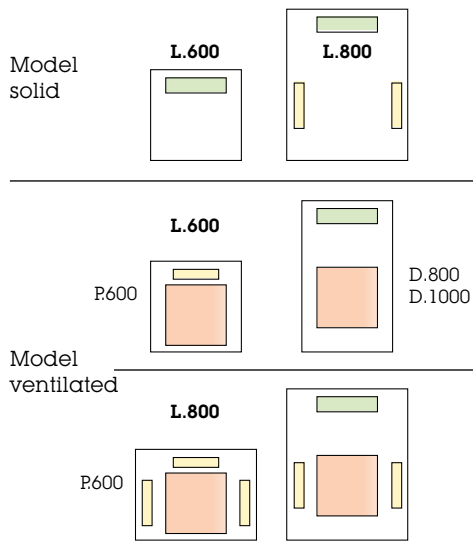
Number of cut-outs as per the cabinet configuration

Type of roof/bottom	Cabinet size		Cable inlet plates		Ventilation
	Width	Depth	300 x 65	400 x 100	305 x 315
Solid	600	600	0	1	-
		800			
		1000			
	800	600	2	1	-
		800			
		1000			
Ventilated	600	600	1	0	1
		800	0	1	1
		1000			
	800	600	3	0	1
		800	2	1	1
		1000			

SOLID PLATES
Delivered with fasteners.

Part nos.

Version	300 x 65	400 x 100	305 x 315
IP 40 or EMC	**1006041**	**1011072**	**1011055**
IP 21/IP 55	**1007193**	**1011073**	**1007196**
HF	**1007651**	**1011074**	**1011056**

BRUSHES
Delivered with fasteners.

Part nos.

Version	300 x 65	400 x 100
Set of 2 brushes	**1006040**	**1010194**

ADJUSTABLE PLATES
With gasket, cable tie-down and aluminium adhesive
Delivered with fasteners.

Part nos.

Version	300 x 65	400 x 100
IP 54	**1011070**	**1011071**
EMC	**1011068**	**1011069**

⚠️ *The adjustable EMC plates are recommended for the penetration of copper wires in EMC cabinets.*
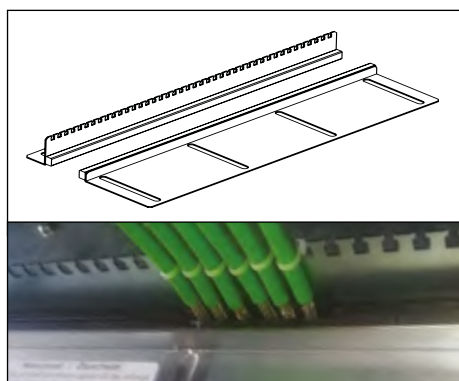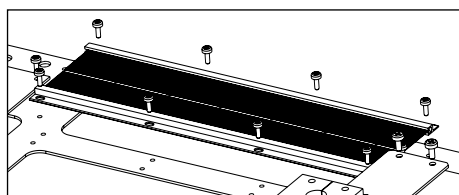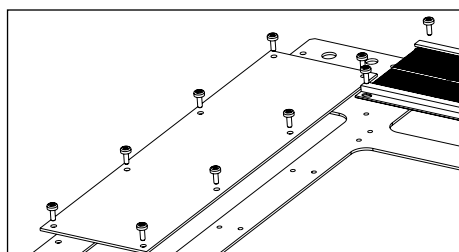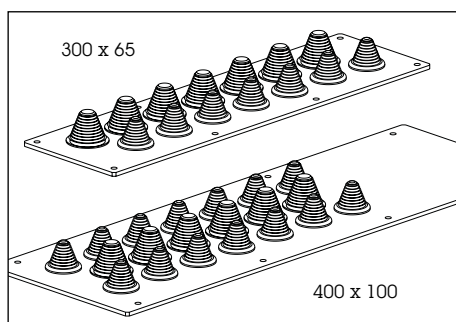
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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Cable passages

300 x 65

400 x 100

MACHINED PLATE WITH STAGED MEMBRANE GROMMET, IP 55

3 mm plate, anti-corrosion treated, with fitted grommets. Delivered with fasteners.

Part nos.

Model	300 x 65	400 x 100
Plate	**1011049**	**1011050**
Capacity	7 x Ø 5 to 17 7 x Ø 10 to 20	14 x Ø 5 to 17 6 x Ø 10 to 22 + reserve 100 x 120
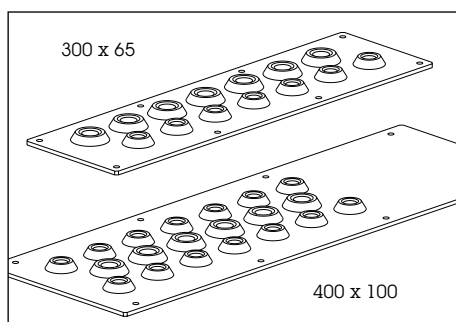
300 x 65

400 x 100

MACHINED PLATE WITH PLIOFIX GROMMET, IP 65

3 mm plate, anti-corrosion treated, with fitted grommets. Delivered with fasteners.

Part nos.

Model	300 x 65	400 x 100
Plate	**1011051**	**1011052**
Capacity	7 x Ø 4 to 11 7 x Ø 4 to 13	14 x Ø 4 to 11 6 x Ø 4 to 13 + reserve 100 x 120
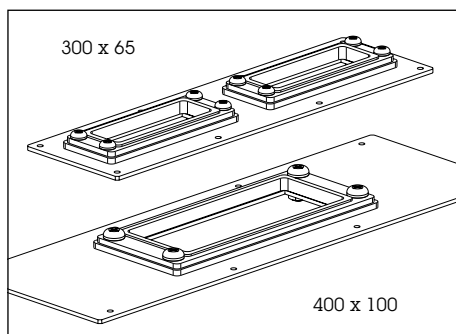
300 x 65

400 x 100

MACHINED PLATE FOR FL GROMMET, IP 65

3 mm plate, anti-corrosion treated, with FL frames fitted according to version. Delivered with fasteners.

Part nos.

Model	300 x 65	400 x 100
Plate	**1011053**	**1011054**
Capacity	2 frames FL13	1 frame FL21

FL13: working
3 areas 34 x 34 mm.

34 x 34	34 x 34	34 x 34
68 x 34		34 x 34

FL21: working
5 areas 34 x 68 mm.

34 x 68	34 x 68	34 x 68	34 x 68	34 x 68
68 x 68		34 x 68	34 x 68	34 x 68
68 x 68		68 x 68		34 x 68

FL grommet
to be ordered separately as per table below.

Part nos.

Dimensions	Capacity/Ø in mm	Gland	FL grommet
68 x 68	2 x Ø 8-17 2 x Ø 5-10	M25 M16	**B122929**
	9 x Ø 7-14		**B122930**
68 x 34	2 x Ø 8-17		**B122931**
	2 x Ø 6-13	M20	**B122932**
	10 x Ø 4-10		**B122933**
34 x 34	1 x Ø 6-13	M20	**B122935**
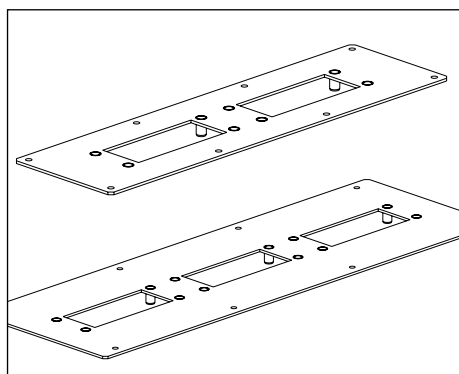
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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Cable passages

MACHINED PLATE WITH KDL FOR PRE-TERMINATED CABLES, IP 54

Galvanised steel plate with 34 x 85 mm cut-outs, for KDL 16-2 or 16-4.
Check that your connectors can pass through the cut-out.
Delivered with fasteners.

Part nos.

Model	300 x 65	400 x 100
Plate	1006044	1011092
Capacity	2 KDL	3 KDL

To be ordered separately:

KDL

Model	Part no.
KDL 16-2	B018805
KDL 16-4	B018537
Blanking plate	1006059

KDL gaskets (bag of 10 gaskets).

Cable Ø	KDL 16-4	Cable Ø	KDL 16-2
Solid	1006086	Solid	1006087
3-4 mm	1006060	16-17 mm	1006073
4-5 mm	1006061	17-18 mm	1006074
5-6 mm	1006062	18-19 mm	1006075
6-7 mm	1006063	19-20 mm	1006076
7-8 mm	1006064	20-21 mm	1006077
8-9 mm	1006065	21-22 mm	1006078
9-10 mm	1006066	22-23 mm	1006079
10-11 mm	1006067	23-24 mm	1006080
11-12 mm	1006068	24-25 mm	1006081
12-13 mm	1006069	25-26 mm	1006082
13-14 mm	1006070	26-27 mm	1006083
14-15 mm	1006071	27-28 mm	1006084
15-16 mm	1006072	28-29 mm	1006085

CABLE PASSAGE WITH HF WAVEGUIDE

• Machined galvanised steel plate Ø 50, to be equipped.
• Brass waveguide, 120 mm long, inside Ø 40 mm, outside 50 mm.
• Brass 90° elbow waveguide, 60 mm long, inside Ø 40 mm, outside 50 mm.
The plate can accommodate glands M50.
Delivered with fasteners.

Part nos.

Model	A - 300 x 65	B - 400 x 100
Machined plate	1011093	1011094
Capacity	3 x Ø 50 + reserve	5 x Ø 50 + reserve

Part nos.

C - Blanking kit for waveguide position	1011095
D - Straight waveguide inside Ø 40mm, W.120 mm + 2 nuts	1011096
E- 90° elbow waveguide inside Ø 40mm, W.60 + 2 nuts	1011499

⚠️ *Waveguides are recommended for the penetration of fibre optic cables in EMC or HF cabinets.*

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

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Inside equipment

INSIDE UPRIGHTS (ADDITIONAL) 19"

- Z275 Galvanised steel uprights.
- These uprights should be positioned outside 19" area and are depth-adjustable at 25 mm increments.

Part nos.

Height	24 U	38 U	42 U	47 U
Pair	**1011119**	**1011120**	**1011121**	**1011122**
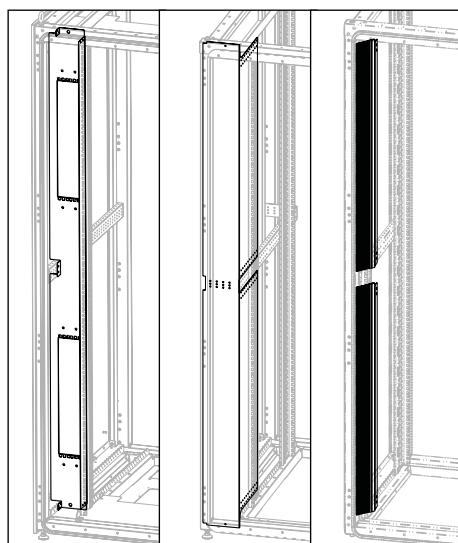
VERTICAL SEALING KIT OUTSIDE 19" AREA

- To blank off the side air passages in an 800-wide cabinet, with or without openings for cable passages,
- The open model can be fitted with brushes, blanking plates (2 cut-outs 2U x 19") or cable guide rings
- In painted steel, delivered per unit, with fasteners,
- Also exists for the W.600 cabinet, set of brushes between inside upright and side panel.

Part nos.

Bezel	24 U	38 U	42 U	47 U
W.800 open	1011097	1011098	1011099	1011100
W.800 solid	1011101	**1011102**	**1011103**	**1011104**
W.600 brushes	1011115	1011116	1011117	1011118

Part nos.

Brushes for cut-out 2U x 19"	**1011106**
Blanking plate for cable cut-out opening 2U x 19"	**1011105**
Kit with 4 cable guide rings for bezel	**1011272**
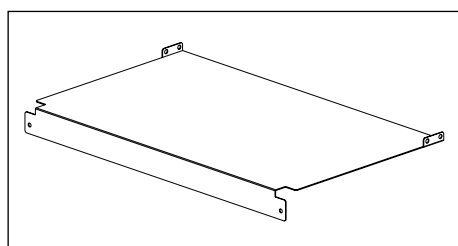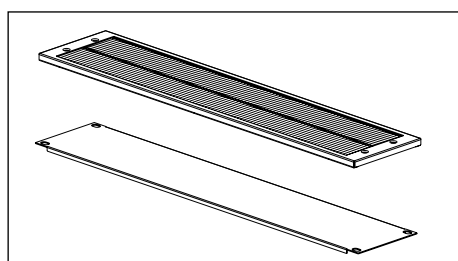
HORIZONTAL SEALING KIT

Beyond a 100 mm setback of 19" uprights, the horizontal blanking plates seal the air flow at the top and bottom of the cabinet. Delivered with fasteners.

Part nos.

	L.600	L.800
Set of two horizontal sealing plates	**1011113**	**1011114**
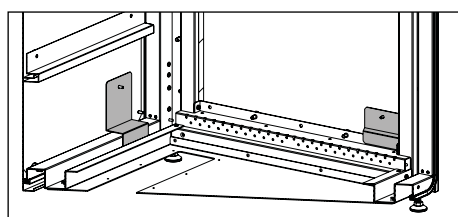
PANEL LOCKING KIT

The kit comprises 2 galvanised steel brackets that can lock out the panel from inside the cabinet.
It is supplied with fasteners for fixing to the rack and explanatory fitting instructions.

Part nos.

	For side panel	For rear panel
Lock-out kit	1011243	1011244

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

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Inside equipment
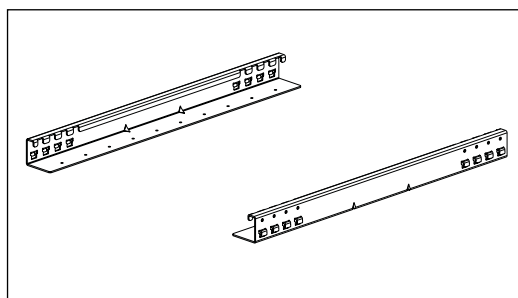
QUICK HOOK-ON RUNNERS

- Adapt to all types of OPTIMALE cabinet D.600, 800 and 1000 fitted with two pairs of inside uprights,
- Can be fitted every ½ unit,
- Permissible load: 60 kg/pair.

Material: galvanised steel
Delivery: 1 pair + fasteners for locking into position.

Part nos.

Distance between front and rear uprights	Support 0	Support -2
390 to 540 mm	1010341	1010313
540 to 690 mm	1010340	1010312
690 to 840 mm	1010342	1010311
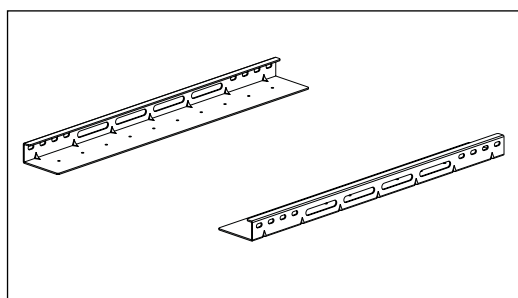
ADJUSTABLE RUNNERS

- Dimensions: 1 U,
- Accessible from the side for easy adjustment and perfect alignment of baskets by eccentrics (± 2.5 mm).
- Permissible load: 60 kg/pair.

Part nos.

Distance between front and rear uprights	Support 0 to 5 mm
390 to 540 mm	1010317
540 to 690 mm	1010318
690 to 840 mm	1010319
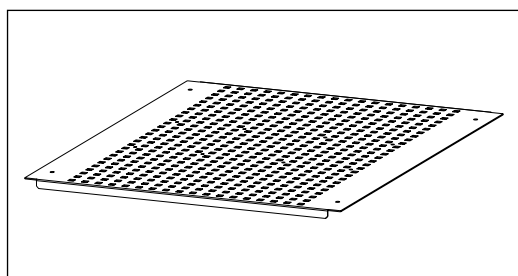
FIXED SHELVES

Characteristics:
- Positioned every 1/2 unit,
- Permissible load: 50 kg
- Stackable every unit,
- Painted steel shelves
- Delivery 1 part + pair of runners + fasteners.

Part nos.

Depth	Distance between front and rear uprights	Quick fit	Adjustable fitting
385	390 to 540 mm	**1011129**	**1011132**
535	540 to 690 mm	**1011130**	**1011133**
685	690 to 840 mm	**1011131**	**1011134**
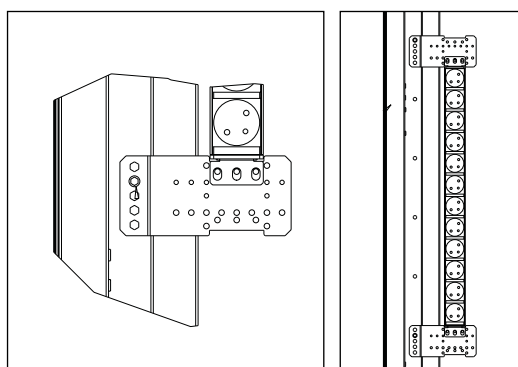
BRACKET FOR VERTICAL MOUNTING OF SOCKET BOXES

Bracket for vertical mounting of socket boxes.
Fits onto the Cabinet's external uprights.
Allows the vertical fitting of 1 Zero U PDU.
Material: galvanised steel.
Delivery: set of 2 brackets + Cabinet fastenings.
Fully compatible with panels 6000038, 6000039, 6000040 and 6000356 on page 126.
Please consult us for the other models.

Set of 2 fixing brackets	**1011111**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Equipment:

DOOR CONTACT SWITCH

To monitor a door's open or closed status, or to control a lighting system.

Contact switch kit:
- 1 contact switch with 2 isolated switches 1 NO + 1 NC
- Fixing parts for OPTIMALE cabinet + fasteners
- Assembly drawing

Part no.

Door contact switch kit	**1011109**

STRIPLIGHT 1U 19"

Composition:
- 1 LED panel T5 4W 320 Lumens 4000 K neutral white with On/Off switch.
- Fixing parts 1U 19" + fixing fasteners M6 for square cut-out 8.4 mm and 9.5 mm.
- 1 power cord 230V

Part nos.

Panel + cable 1.50 m + 2P mains plug	**1010255**
Spare panel	**B118624**

Wiring kit:
1 contact switch-striplight connecting lead

Part no.

Contact switch-striplight connecting lead	**6000720**
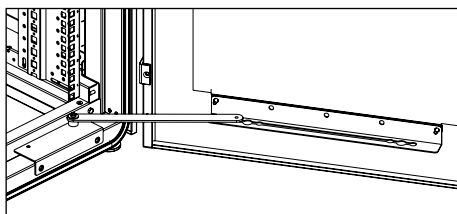
DOOR STOP KIT

White zinc-plated steel torque link.
Stoppage at 90° and 120°.

Part no.

Door stop kit	**1010365**
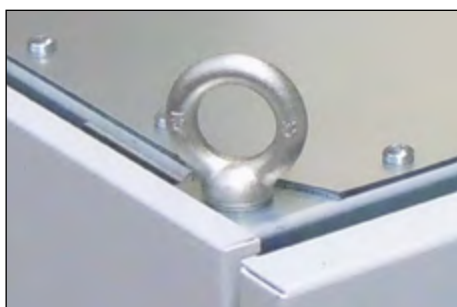
EYEBOLTS

Kit of four zinc-plated eyebolts, fitting to the M10 nuts on the roof.
- **Minor load:** Load capacity per eyebolt 250 kg, i.e. 430 kg loaded cabinet with slings 60° off horizontal.
- **Normal load:** Load capacity per eyebolt 750 kg, i.e. cabinet with 800 kg load.

Part nos.

	Minor load	Normal load
Kit with 4 eyebolts	**1007807**	**1011057**

Our other accessories

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

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Swivel frame structure

SWIVEL FRAME STRUCTURE

General characteristics:

As an addition to the fixed IP, EMC or HF structures, ATOS has developed a structure version that incorporates a swivel frame compliant with the 19" standard.

The rear equipment wiring area can be reached from the front of the cabinet with this solution.

A handle makes it easy to open the frame to its maximum opening angle of 120°, whilst maintaining 20 to 50 mm distance as per configuration (see drawings and dimensions, "X" values) between the front face of equipment and the cabinet structure.

The full product can be proposed based on IP21, IP54 or EMC as required.

Technical characteristics:

The swivel frame is in 2 mm-thick galvanised steel assembled with rivets, ensuring a permitted load of 200 kg.

The 19" equipment must meet standards EIA 310-3, IEC 60297 and DIN 41494 standard 19", with a maximum depth of 420 mm. It is mandatory to fix equipment to the frame.

The side cover has two openings 75 x 110 mm fitted with solid removable plates, thereby simplifying the machining of components to be installed.

Components mounted on a machined plate are 55 m deep at most.

Composition:

- 1 riveted and screwed structure in galvanised steel Z275, pre-fitted with depthwise crossbars and four adjustable feet.
- 1 fixed closing panel mounted on the rear section.
- 1 floor fixing kit
- 1 riveted and screwed swivel frame in galvanised steel Z275 fitted with 2 crossbars and 2 inside uprights as per standards CEA-310E and IEC-60297.

Structure working height	Swivel frame working height	IP structures		EMC structures		Permitted load
		W800 x D600	W800 x D800	W800 x D600	W800 x D800	
38 U	36 U	1011259	1011260	1011265	1011266	
42 U	40 U	**1011261**	**1011262**	**1011267**	**1011268**	200 kg
47 U	45 U	1011263	1011264	1011269	1011270	

Please contact us for a HF structure.

To finalise your swivel frame cabinet, select your components (roof, bottom, coupling kit, side panels and front doors) in line with dimensional constraints and protection ratings sought (see previous pages).

Supplement your selection with cable I/O plates, ventilation plates and accessories on page 58 and the following pages.

The drawings and dimensions for the swivel frame structure can be found on the next page.

⚠ The cabinet structure must WITHOUT FAIL be fixed to the floor. A wall support is strongly advisable.

Wall fixing kit	1011271

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Drawings and dimensions

SECTION A-A

RAISED ROOF DEPTH

45.5

RAISED ROOF WIDTH

A

Overall HEIGHT

Working height

B   B

RAISED ROOF overall HEIGHT

A

P1   P2   P3
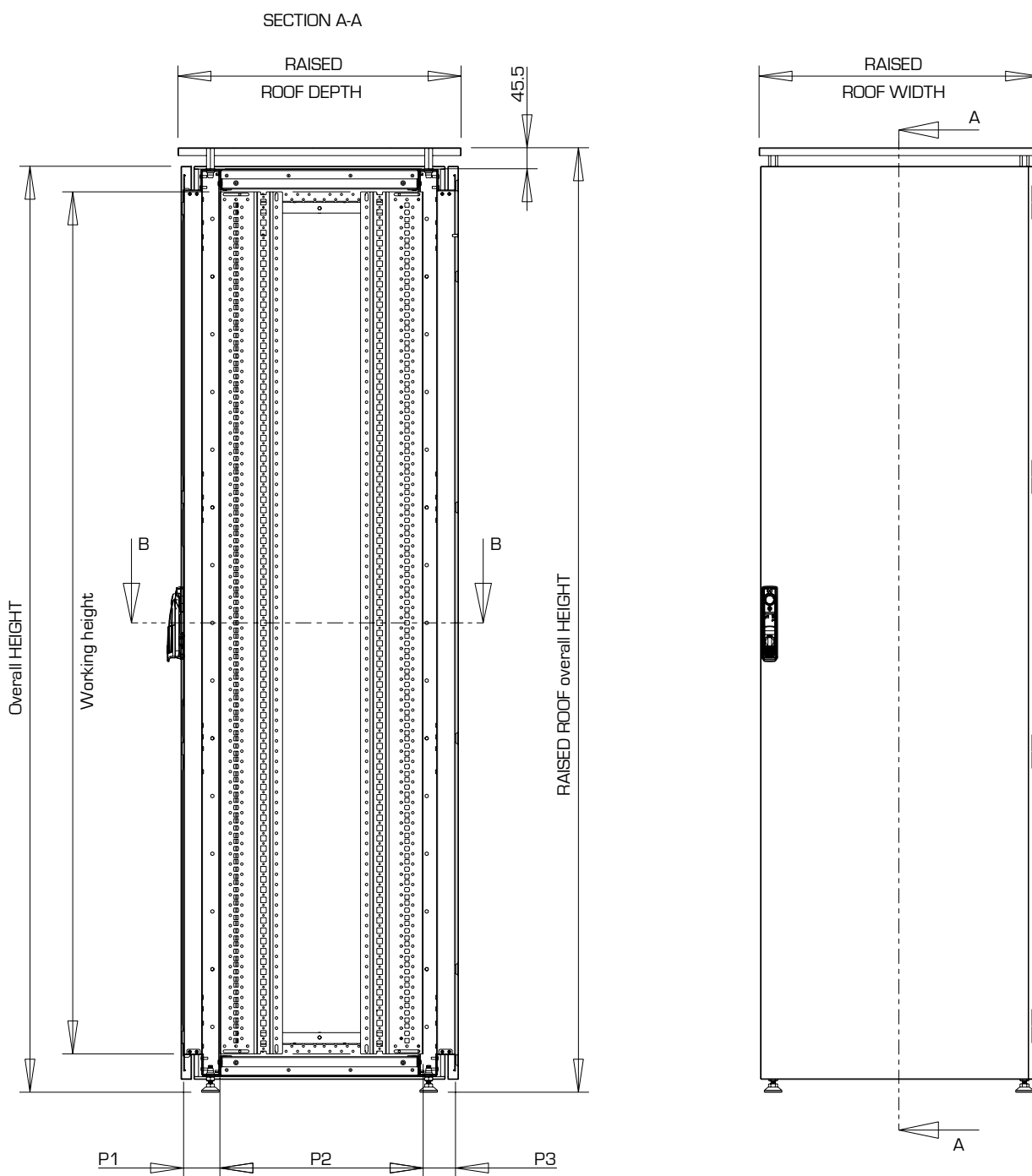
POSITION OF INSIDE CABINET UPRIGHTS - standard mounting			
Cabinet depth	Set back of front upright D1	Distance between uprights D2	Set back of rear upright D3
600	75 mm	440 mm	75 mm
800	100 mm	590 mm	100 mm
1000	100 mm	690 mm	200 mm

The position of front and rear uprights can be adjusted in 20 mm increments or continuously.

Inside height	Overall cabinet height	Overall height with roof
24 U	1203 mm	1243 mm
38 U	1825 mm	1865 mm
42 U	2003 mm	2043 mm
47 U	2225 mm	2265 mm

Drawings and dimensions

371

417

71

Overall DIMENSION

CABINET DEPTH

CABINET WIDTH
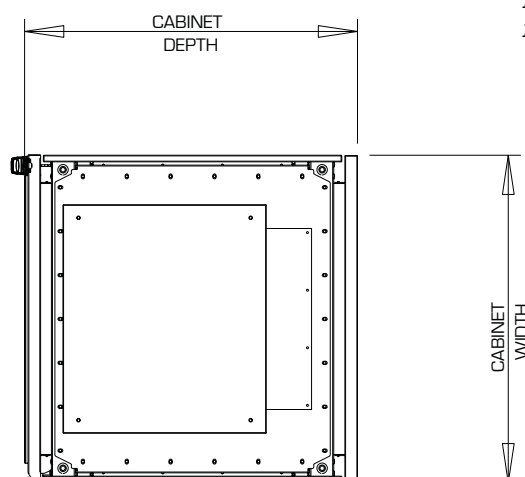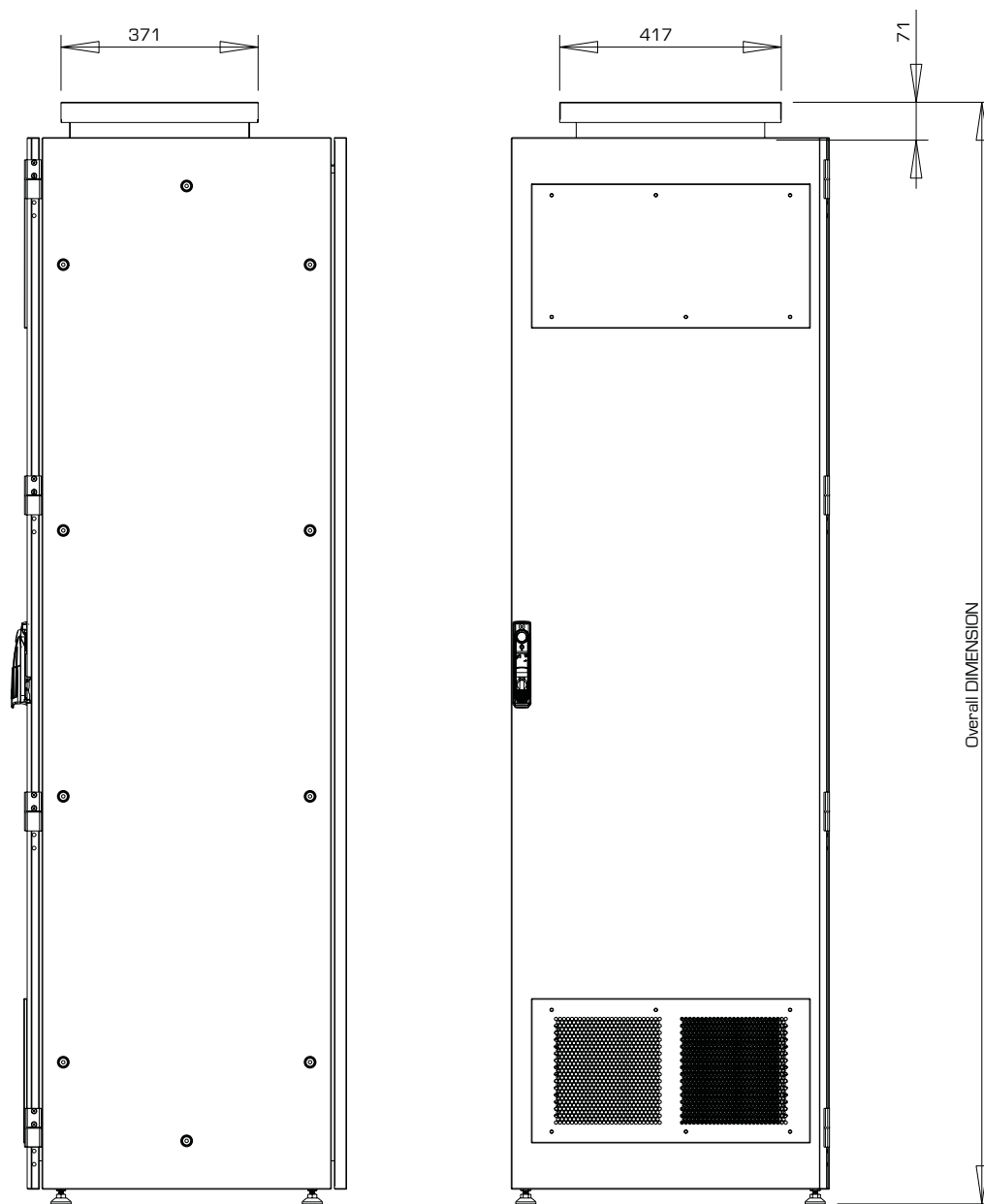
By default, the machined doors are mounted:

- **at the front,** with the perforated panel or the filter at the bottom,
- **at the rear,** with the perforated panel or the filter at the top.

These panels are removable and can be inverted should the door opening direction change

Working height	Overall cabinet height
24 U	1269 mm
38 U	1892 mm
42 U	2069 mm
47 U	2292 mm

Drawings and dimensions

CABINET DEPTH

CABINET WIDTH

Overall WIDTH

AIR-CONDITIONING UNIT DEPTH

AIR-CONDITIONING UNIT WIDTH

AIR-CONDITIONING UNIT HEIGHT

Overall HEIGHT
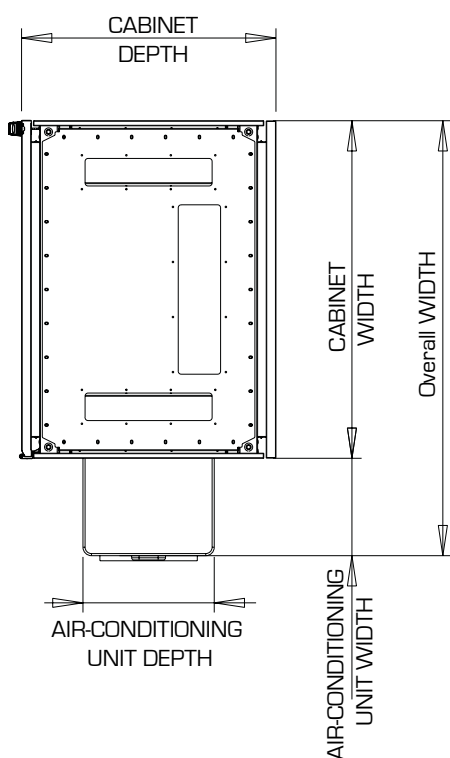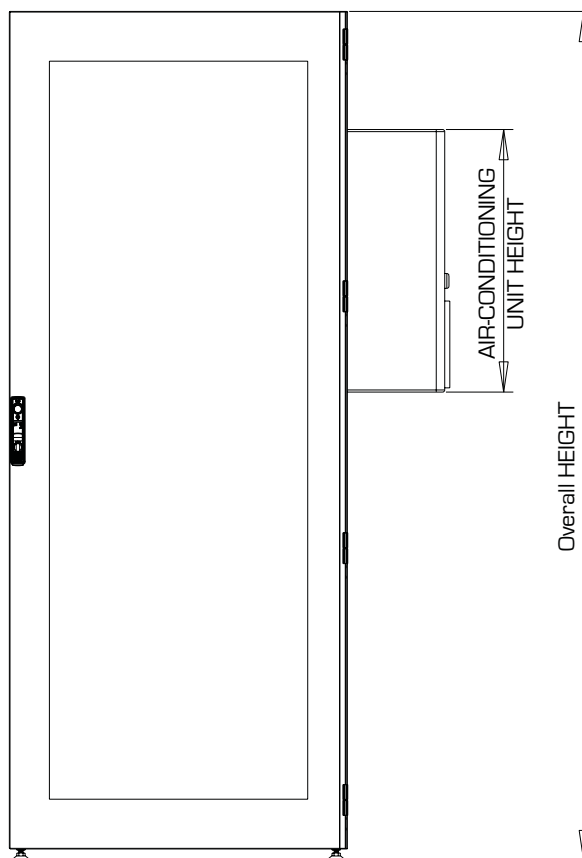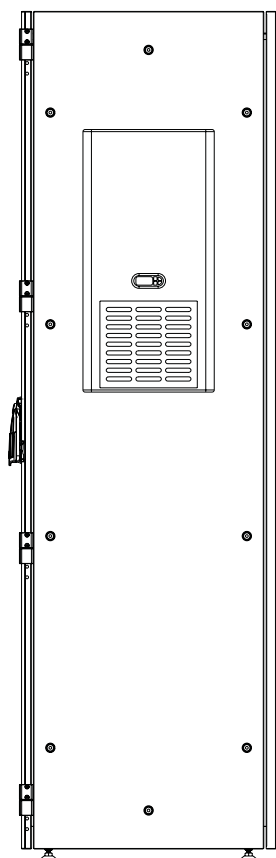
AIR-CONDITIONING UNIT CHARACTERISTICS					
Power		800W	1500W	2000W	
Power supply		230-1-50/60			V-Hz
Intensity	Rated	3.1/3.2	4.5/4.9	6.5/6.7	A
	Start-up	16/16.5	25/26	36/37	A
Line protection		6	8	10	A
Coolant		R134a			
Air flow rate		327/400	570/620		m³/h
Sound level		68	70		dB(A)
Weight		30	50		kg
Min.-max. ambient temperature		20-55			°C
Dimensions	Height	620	1000		mm
	Depth	310	400		mm
	Width	230	255		mm

Overall cabinet width/depth with air-conditioning unit				
	600	830	855	mm
	800	1030	1055	mm
	1000	1230	1255	mm

Drawings and dimensions

AIR-CONDITIONING UNIT DEPTH

AIR-CONDITIONING UNIT WIDTH

AIR-CONDITIONING UNIT HEIGHT

Overall DIMENSION

CABINET WIDTH

CABINET DEPTH
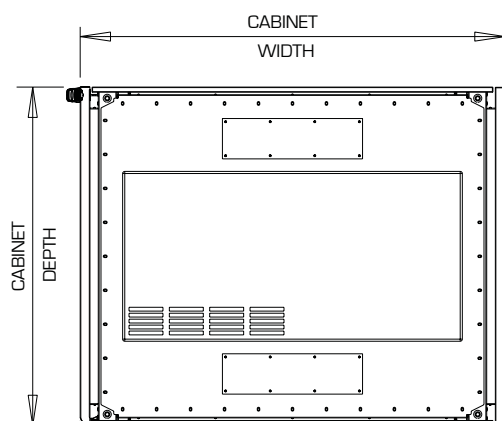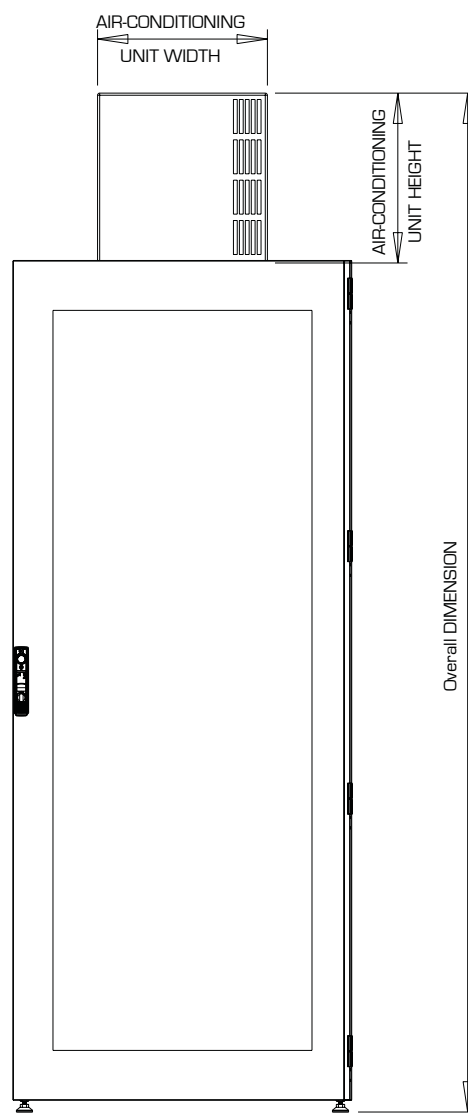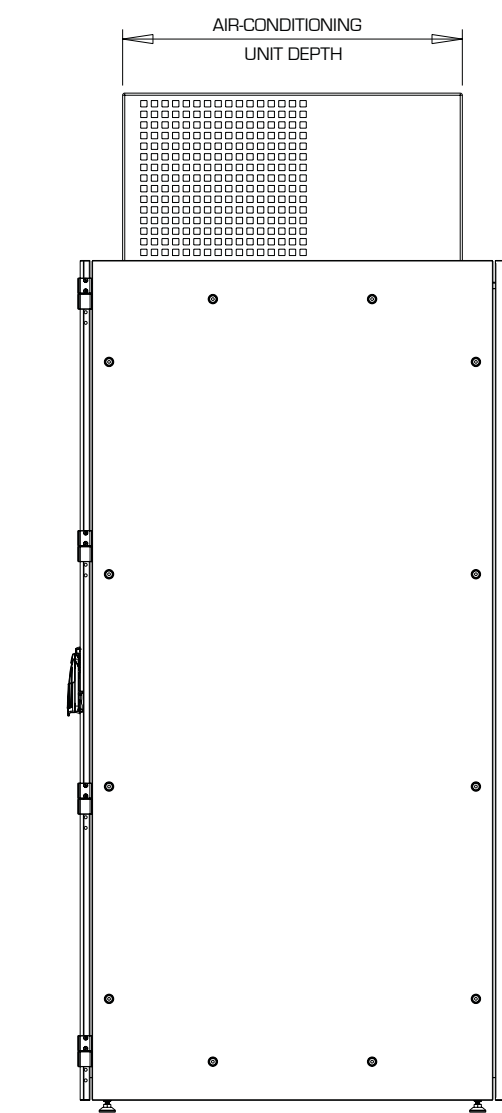
AIR-CONDITIONING UNIT CHARACTERISTICS				
Power	1000W	1450W	2000W	
Power supply	230-1-50/60			V-Hz
Intensity	Rated	2.9/3.5	4/4.8	5/6.1	A
	Start-up	11.6/12.7	16.2/16.4	23.7/24.2	A
Line protection	6	6	8	A
Coolant	R134a			
Sound level	70	70	65	dB(A)
Weight	37	41	54	kg
Min.-max. ambient temperature	20-55			°C
Dimensions	Height	300		400	mm
	Depth	600		800	mm
	Width	400			mm

Overall cabinet height with air-condition-ing unit	24 U	1497	1597	mm
	38 U	2119	2219	mm
	42 U	2297	2397	mm
	47 U	2519	2619	mm

Drawings and dimensions

SECTION A-A

A

DEFLECTOR HEIGHT = 7U

AIR-CONDITIONING UNIT HEIGHT = 6U

B

B

AIR-CONDITIONING

UNIT DEPTH = 550

A

SECTION B-B

CABINET DEPTH

CABINET WIDTH

POSITION UPRIGHTS

INTER = 285 mm
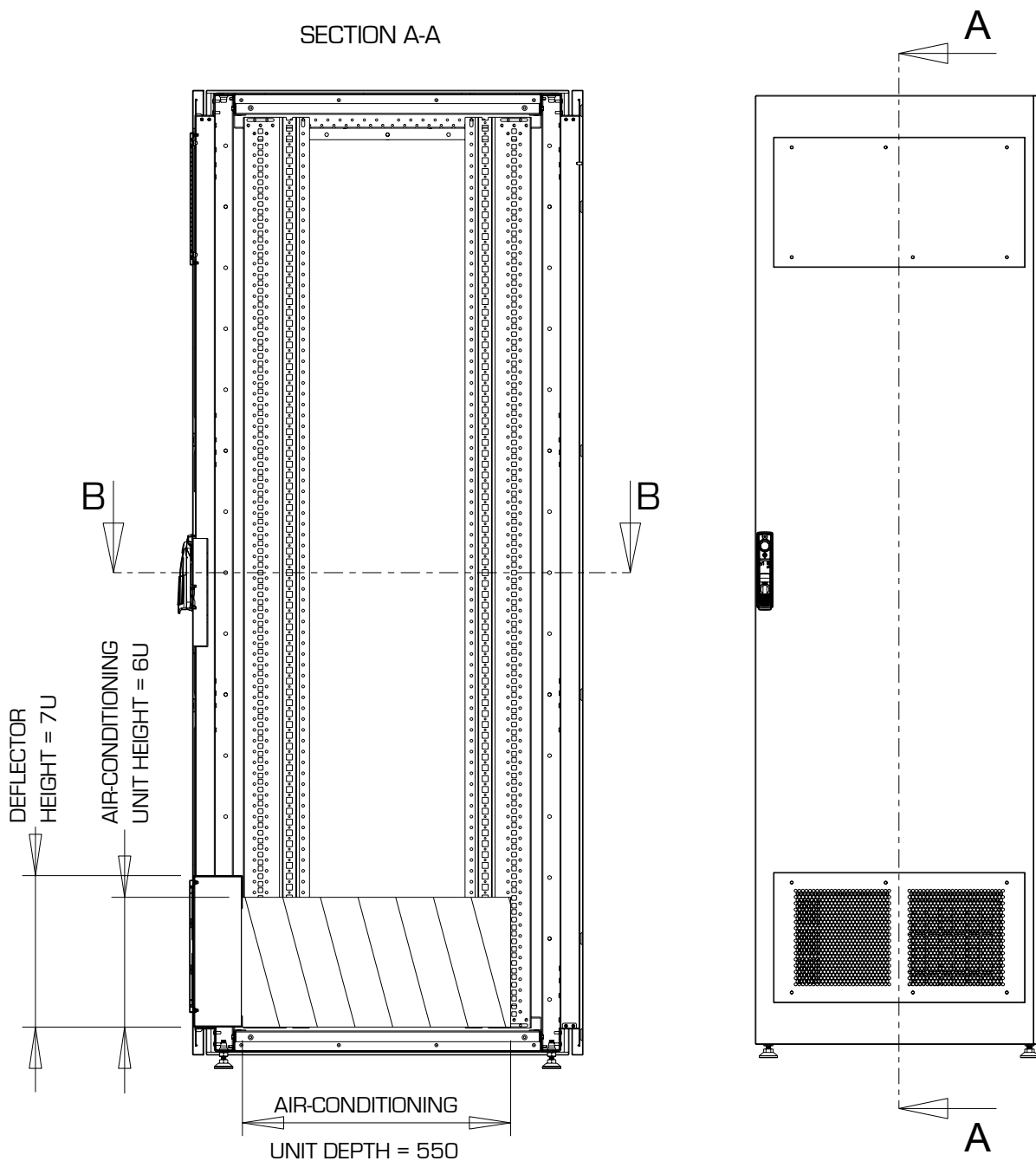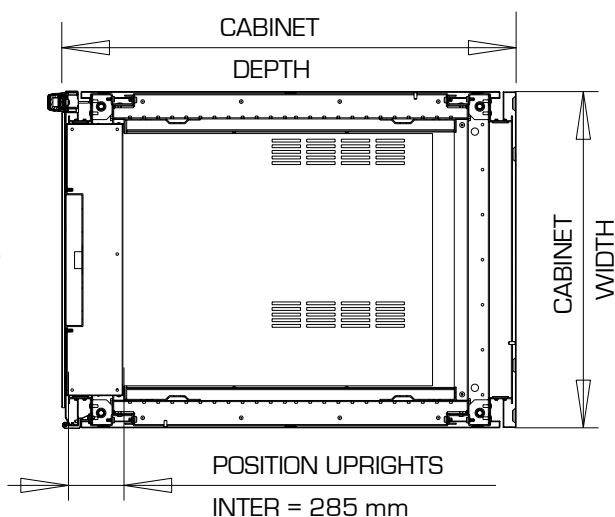
AIR-CONDITIONING UNIT CHARACTERISTICS			
Power		1500W	
Power supply		230-1-50/60	V-Hz
Intensity	Rated	4/4.8	A
	Start-up	16.2/16.4	A
Line protection		6	A
Coolant		R134a	
Sound level		67	dB(A)
Weight		38	kg
Min.-max. ambient temperature		20-55	°C
Dimensions	Height	266	mm
	Width	483	mm
	Depth	550	mm

Overall DIMENSION

CABINET DEPTH

CABINET WIDTH
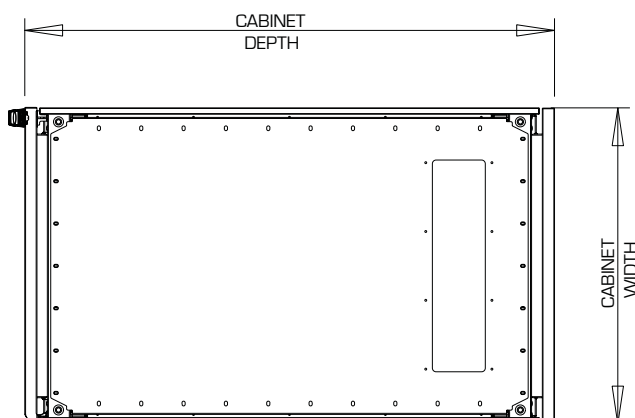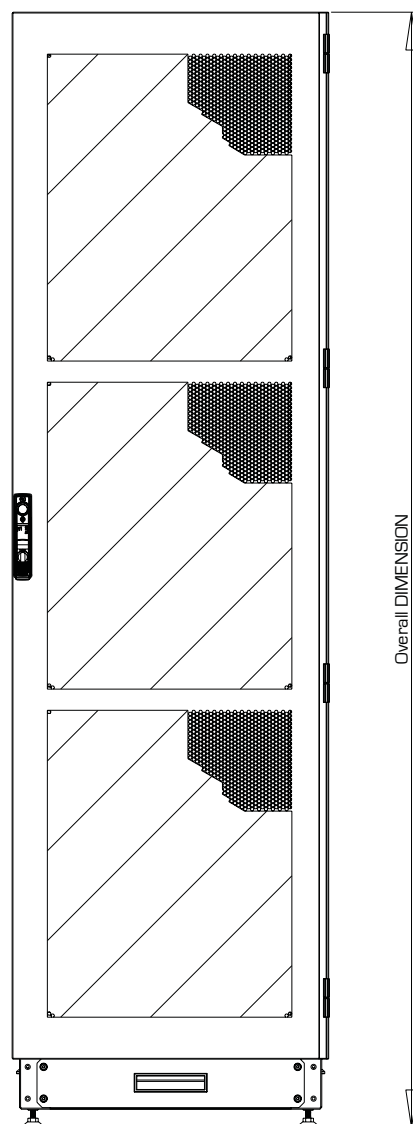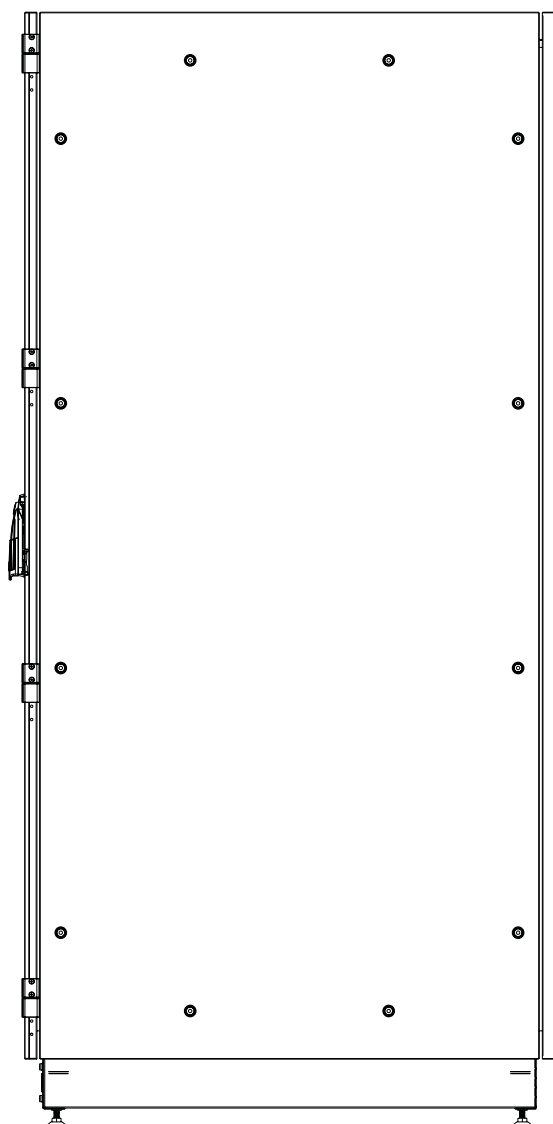
HEIGHT OF CABINETS WITH PLINTH			
Overall height	Fixed plinth	Plinth with castors + adjustable feet	Plinth with castors Ø 125 mm
24 U	1303 mm	1278 mm	1333 mm
38 U	1925 mm	1900 mm	1955 mm
42 U	2103 mm	2078 mm	2133 mm
47 U	2325 mm	2300 mm	2355 mm

Drawings and dimensions

B

789.6

solid removable plates

SECTION B-B

Swivel frame working height: B

Inside height cabinet: A

Overall height: C

C

C

309

309

II

II

B

453.5

144

50

(420)

X

49.8

690

49.8

Floor fixing: 655

4 holes ⌀ 11

75

SECTION C-C

420 Max.

Floor fixing distance between centres: D

Overall depth: E

159

448

120°

X
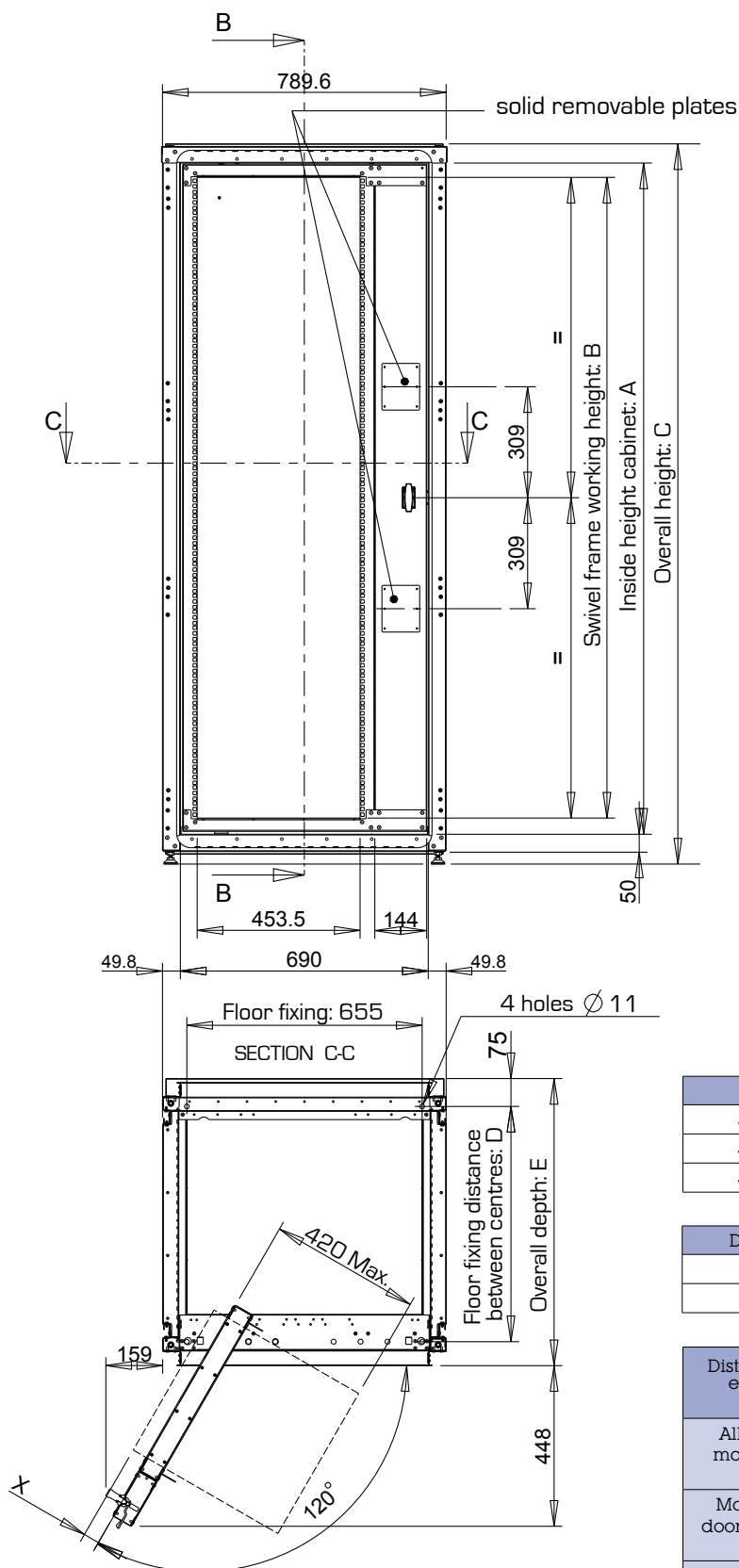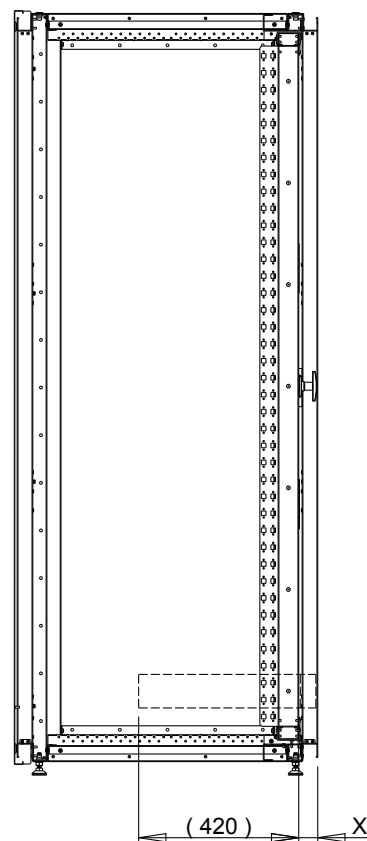
A	B	C
38 U	36 U	1825 mm
42 U	40 U	2003 mm
47 U	45 U	2225 mm

Depth	D	E
600	455 mm	596 mm
800	655 mm	796 mm

Distance between the front equipment panel and the structure	X
All types of doors except machined and ventilated honeycomb	50 mm
Machined honeycombed door (only in the bottom and top 5U)	20 mm
Full-height ventilated honeycomb door	20 mm

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Specific arrangements

We can adapt our standard range to your special projects upon request,
or carry out full studies based on the specific features of your specifications.

HF cabinet
with smaller rear door

HF cabinet
with smaller side panel

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Notes

IP 55 case range

Presentation

INDOOR CASE IP 55

The IP55 sealed case is designed especially to meet the need for electrical installation solutions requiring good sealing protection.

The case is offered in painted steel for indoor applications but can also be produced in painted aluminium or stainless steel upon request for more severe outdoor environmental requirements.

The case on offer for Outdoor applications is single skin with natural convection or optional ventilation kit to limit the temperature rise in the case if the equipment dissipates high power (double skin version, available upon request).

- The outside enclosure and the door are in steel protected by textured, satin-finish polyester epoxy paint RAL 7035 (index IK10).
- Anti-graffiti varnish is offered as an option.
- The inside mechanics are in galvanised steel.
- The cases are fitted with two 19" inside uprights (compliant with standards CEA-310E and IEC-60297) machined in 9.5 mm squares with identification and numbering of U profiles to facilitate integration.
- Possibility of adding two additional uprights.

Composition:

- 1 welded enclosure,
- 1 front door fitted with a bonded sealing gasket and with 2 x 1/4 turn buttons with key lock 455E
- 2 19" inside uprights
- 1 cable I/O plate fitted with 6 membrane grommets.

Uniformly distributed permissible weight (cdg/270 front)				
6 U	9 U	12 U	15 U	18 U
48 kg	72 kg	96 kg	120 kg	144 kg

Part nos.

Height	Depth	Case with front door		
		solid IP 55	glass IP 55	ventilated* IP 54
6 U	400	**4001388**	**4001418**	**4001428**
9 U		**4001389**	**4001419**	**4001429**
		4001390	**4001420**	**4001430**
12 U	500	**4001391**	**4001421**	**4001431**
15 U		**4001392**	**4001422**	**4001432**
	600	**4001393**	**4001423**	**4001433**
18 U		**4001394**	**4001424**	**4001434**

* Ventilated by natural convection Fan can be added, see page 88.

By default, the case is fitted with the cable I/O plate below and the front door with right opening (see drawing page 91).

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Components

CASE ENCLOSURE

The case enclosure is fully welded, thereby ensuring excellent mechanical strength. The enclosure is welded in our LASER WELDING ROBOT that guarantees excellent sealing quality and a long life.

Reversible enclosure so that cables can enter via the bottom or top of the case.
The rear partition of the case (ref. D) has 4 pressed sections with Ø 10.5 mm holes for fixing the case directly to the wall (4 mm detachment).

It is designed in such a way that the returns on the enclosure sides (ref. A) provided an interface for fixing equipment in 19" format.
The case bottom or roof (ref. C) is fitted with a cut-out to allow a cable I/O on 1 independent plate 100 x 400 mm.

The cable I/O plate is in 3 mm-thick aluminium with anti-corrosion coating.
The base of the case has a machined plate fitted with 6 membrane grommets.

19" INTERNAL UPRIGHTS
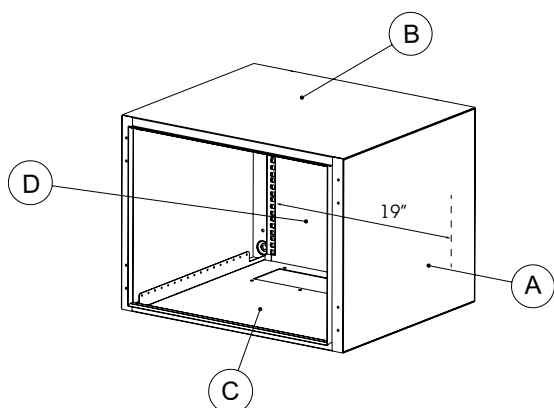
Height	Pair of uprights
6 U	**4001412**
9 U	**4001413**
12 U	**4001414**
15 U	**4001415**
18 U	**4001416**

The case is delivered pre-fitted with 2 inside uprights as per standards CEA-310E and IEC-60297.
Uprights in galvanised steel thickness 20/10th, adjustable depthwise every 25 mm.
Option: 2 additional uprights.
Position of uprights, see drawing page 91.

SOLID DOOR IP55

- The solid door (index IK10) is made of steel, thickness 15/10th and painted in RAL 7035 (machining on door, please ask your sales rep.).
- It has a closed cell neoprene leaktight seal glued inside the door that guarantees the requested IP protection rating.
- The door is fitted by default with a right-hand opening, but this can be changed quickly on site (in operation) without dismantling or replacing hinges and the 1/4 turn closing system.
- The door is fitted with invisible hinges and can therefore be opened 120°. It is supplied with earthing stud + 6 mm² braid.

GLASS DOOR IP55

- Of similar design to the solid door, the sight glass created in the painted steel is fitted with 4 mm-thick safety glass (index IK08).
- The glass door means that equipment can be seen without problem
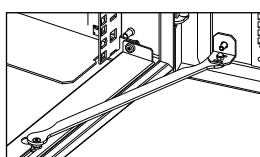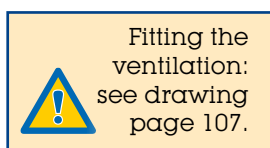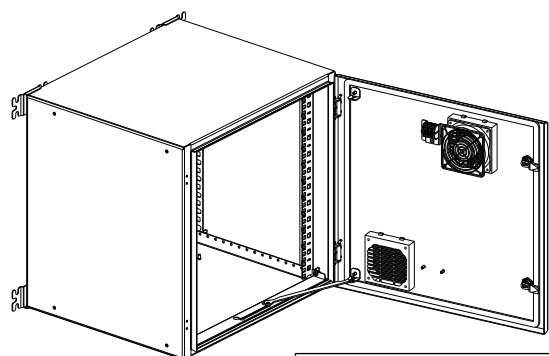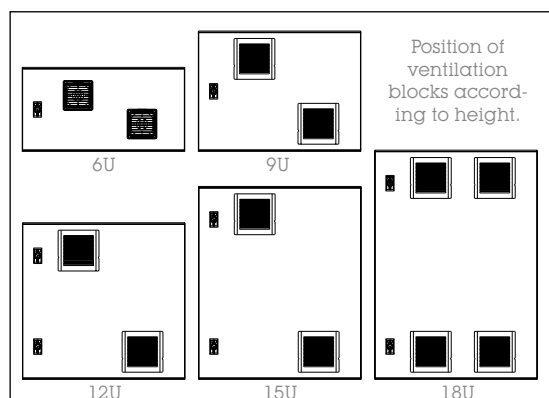
Components

Position of ventilation blocks according to height.

6U 9U 12U 15U 18U

VENTILATED DOOR IP54

The ventilated door is made of steel thickness 15/10th painted in RAL 7035, fitted with 2 or 4 G3 filters at the top and bottom. It ensures **natural convection** of the air flow.

Basic equipment for the ventilated doors comprises:
• In 6U, 2 blocks 80 x 80 mm with G3 filter.
• In 9U, 12U and 15U, 2 blocks 120 x 120 mm with G3 filter.
• In 18U, 4 blocks 120 x 120 mm with G3 filter.

DOOR OPTIONS:

DOOR FAN

Installing fans will limit the rise in temperature in the case. The fans can be positioned at the top or bottom of the door depending on the configuration adopted (to be stated when ordering).
• In extraction, fixed at door top (default mounting)
• In overpressure, fixed at door bottom.
Fan dimensions:
• Fan 80x80 for the door of the 6U case.
• Fan 120x120 for the doors of the 9 to 18U cases.
See description and part no. on page 138.

ATOS has a full set of forced ventilation cooling systems (supply voltage, power to be dissipated, Δt air based on the ambient temperature, etc.): please ask us.

CONNECTION TERMINAL BOARD

Essential for fan connection.
Is fixed inside the door.
Composition: - 1 metal support
               - 4 mm² terminal board
               - Fixing fasteners.

Connection terminal board	**4001601**

SPARE FILTER

Filtering capacity: 88%. Quality class of filtering cartridges as per DIN EN 779: G 3.

Pack of 5 spare filters for block 80x80	**B119688**
Pack of 5 spare filters for block 120x120	**B119689**

DOOR STOP

White zinc-plated steel torque link.
Automatic stop at 100°.

Door stop	**4001601**

CLOSURE

Basic door equipment comprises a butterfly button with key lock. Various closing solutions are proposed upon request: 7 or 8 mm square, triangle, double bars, slot, etc.

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Options

MACHINED PLATES WITH CABLE INLETS

VENTILATED PLATE WITH GROMMETS AND FILTER BLOCKS 80X80, IP 54

Anti-corrosion treated aluminium plate, 3 mm thick, fitted with:
- 6 membrane grommets (4 x Ø 5 to 17 and 2 x Ø 10 to 22)
- 2 blocks 80 x 80 mm with G3 filter.

Option:
2 fans 230 VAC 80x80 + connection terminal board.

Ventilated plate WITHOUT fans	**4001603**
Ventilated plate WITH fans	**4001604**

A ventilated plate can only be installed in cases fitted with a ventilated door.

MACHINED PLATE WITH STAGED MEMBRANE GROMMET, IP 55

3 mm plate, anti-corrosion treated, with fitted grommets. Delivered with fasteners.

Model	Capacity	Part no.
400 x 100	14 x Ø 5 to 17+ 6 x Ø 10 to 22 + reserve 100 x 120	**1011050**

MACHINED PLATE WITH PLIOFIX GROMMET, IP 65

3 mm plate, anti-corrosion treated, with fitted grommets. Delivered with fasteners.

Model	Capacity	Part no.
400 x 100	14 x Ø 4 to 11+ 6 x Ø 4 to 13 + reserve 100 x 120	**1011052**
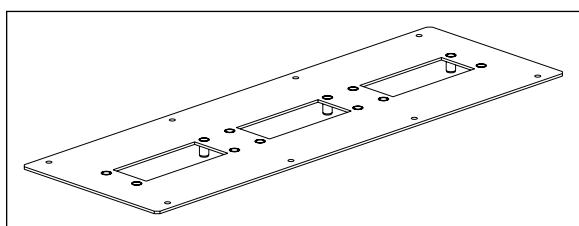
MACHINED PLATE WITH KDL FOR PRE-TERMINATED CABLES, IP 54

Galvanised steel plate with 34 x 85 mm cut-outs, for KDL 16-2 or 16-4. Check that your connectors can pass through the cut-out. Delivered with fasteners.

Model	Capacity	Part no.
400 x 100	3 KDL cut-outs	1011092

to be ordered separately:

KDL

Model	Part no.
KDL 16-2	B018805
KDL 16-4	B018537
Blanking plate	1006059

KDL gaskets (bag of 10 gaskets).

Cable Ø	KDL 16-4	Cable Ø	KDL 16-2
Solid	1006086	Solid	1006087
3-4 mm	1006060	16-17 mm	1006073
4-5 mm	1006061	17-18 mm	1006074
5-6 mm	1006062	18-19 mm	1006075
6-7 mm	1006063	19-20 mm	1006076
7-8 mm	1006064	20-21 mm	1006077
8-9 mm	1006065	21-22 mm	1006078
9-10 mm	1006066	22-23 mm	1006079
10-11 mm	1006067	23-24 mm	1006080
11-12 mm	1006068	24-25 mm	1006081
12-13 mm	1006069	25-26 mm	1006082
13-14 mm	1006070	26-27 mm	1006083
14-15 mm	1006071	27-28 mm	1006084
15-16 mm	1006072	28-29 mm	1006085

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Options

CASE BOTTOM PLATE

Galvanised steel plate format 19"
full height.
Available in solid or perforated version.

Height	plain	Perforated
6 U	**4001435**	**4001445**
9 U	**4001436**	**4001446**
12 U	**4001437**	**4001447**
15 U	**4001438**	**4001448**
18 U	**4001439**	**4001449**

WALL BRACKET

Pack of 4 wall flanges for outside fixing.

Possibility of mounting "vertically or laterally".
Flange in stainless steel + fixing nut on case.
Delivered in kit form.
Wall fixing fasteners not supplied.

Wall bracket	**4001440**

CABLE GUIDE RING

The ring clips directly onto the case bottom plate
or DIN rail.
• Material: Polyamide 6.6
• Colour: Black
• Fire resistance: V2 UL94
• Working dimensions: 28 x 35 mm

Pack of 10 rings	**4001471**

AUTOMATIC HOOK-ON RUNNER

Hooks onto the front uprights.

Hook-on runner	**4001450**

Our other accessories

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Drawings and dimensions

OPTION:
uprights
(additional)

Setback of front uprights:
Solid or glass door: 75 mm
Ventilated door + fans: 100 mm

644
599
22,5
22,5
22,5
43
30
H1
H1
H1 (hors-tout)
H2
30
543
22,5

P1
P2
7
21,5
COUPE B-B
P3
25
71,5

44,75
100
99,5
400
99,5
73,5
452
599
73,5

4 staged membrane grom-
mets Ø 5 to 17.

2 staged membrane grom-
mets Ø 10 to 22.
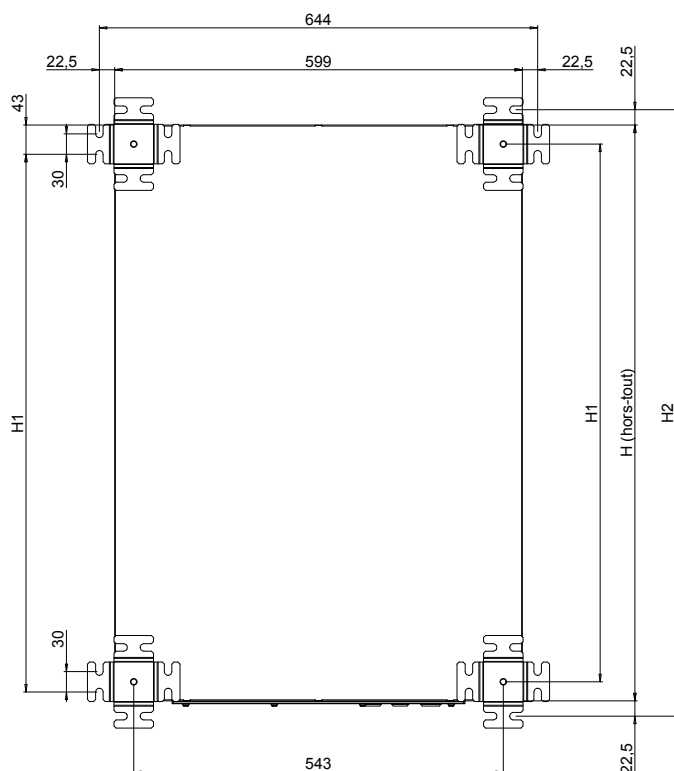
Working height	H (overall)	H1	H2
6 U	313 mm	257 mm	358 mm
9 U	446 mm	390 mm	491 mm
12 U	579 mm	523 mm	624 mm
15 U	713 mm	657 mm	758 mm
18 U	846 mm	790 mm	891 mm

Depth	D1 (overall)	P2	D3 (usable)	
			TO*	B *
400 mm	437.5 mm	409 mm	334 mm	309 mm
500 mm	537.5 mm	509 mm	434 mm	409 mm
600 mm	637.5 mm	609 mm	534 mm	509 mm

*A: with solid or glazed door. B: with ventilated door.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

OUTDOOR Cabinet and Case range

NEW!

OUTDOOR Cabinet

OUTDOOR case

OUTDOOR wall case

Cabinet presentation

GENERAL CHARACTERISTICS

The ATOS cabinet in the OUTDOOR range is designed specifically to withstand the most severe environmental requirements. The Cabinet provides full protection against very bad weather (rain and snow) through its high IP55 sealing level and its machined diamond-shaped roof.

The cabinets are available in single or double skin versions.

The double skin technology protects against the sun's rays and allows the outside walls to be changed around in the event of vandalism or an accident.

An optional ventilation kit is available to limit temperature rises in the cabinet if the equipment dissipates a great deal of power.
The front door is fitted with a multi-point closing mechanical handle for added protection against vandalism.
• IK resistance level to mechanical shocks (EN 62262) = IK10.
• Full metal flush-mounted handle.

The outside enclosure, door and roof are aluminium protected by pure polyester powder paint RAL 7035.
Anti-graffiti varnish is offered as an option.
The inside mechanics are in galvanised steel. The cabinets are fitted with four 19" inside uprights (compliant with standards CEA-310E and IEC-60297) machined in 9.5 mm squares with identification and numbering of U profiles to facilitate integration.

The optional plinth is in stainless steel 304L with smooth, pure polyester paint RAL 7035 to combat corrosion. The stainless steel ensures maximum durability even if the paint is damaged during installation.

RESISTANCE TO CORROSION

Resistance to corrosion complies with standard ISO 12944-6, corrosiveness C4, HIGH durability.

Optional anti-graffiti varnish or a second coat of powder can achieve class C5-M or C5-I, always in HIGH durability (> 15 years). This resistance has been confirmed by salt mist tests of 960 hours (C4) and 1920 hours (C5-M).

SCOPE

Energy, Rail, Fibre optics,
Videosurveillance networks, Telecommunications.

TECHNICAL CHARACTERISTICS

The cabinet comprises an outside aluminium structure painted in RAL 7035. It is fitted with with reinforced crossbars in galvanised steel. These support the four 19" inside uprights (adjustable to 25 mm intervals) and also ensure the rigidity of the case when being lifted or fixed to the ground in the event of shocks or vibrations.

Permissible load: 300kg.
• Tested for vibrations as per standard EN 60068-2-6 (0.5 mm from 5 to 22 Hz, 0.5 g from 22 to 150 Hz).
• Shock-tested as per standard EN 60068-2-27 (10g11ms vertical).

The roof has diamond-shaped machining to allow for water runoff, with over-roof in double skin version.

Cabinet presentation

The cabinet has two doors (front and rear) with multi-point closing lock rod and linkage in stainless steel 304L.

The front door is fitted with an IP55 air intake filter with G4 efficiency. **The rear door must be supplemented by an air exhaust filter or by a set of fans + filter (see Options).**
By default, the doors have a right-hand opening but are available with left-hand opening upon request.

Retractable Zamak handle with interchangeable 1/2 cylinder + lock shield.

Option: Different 1/2 cylinder (standard key 455th)

Cables can pass through two independent plates on the bottom. The cable I/O plates are in 3 mm-thick aluminium with anti-corrosion coating.

In standard version, the case is fitted with:
• 1 full plate mounted on the front.
• 1 machined plate mounted on the rear with pre-installed grommets.
Staged membrane grommets 14 x Ø 5 to 17,
6 x Ø 10 to 22 + reserve 100 x 120.

DIMENSIONS

NB: Clarifications on the dimensions indicated in the table below:
• Overall height = Outside case height without eyebolts or plinth.
• Working height = the area available for 19″ equipment plug-ins.
• Upright height = corresponds to the working height of the 19″ inside upright.
The first units (1U) at the top and bottom of the upright cannot be used for plug-in equipment but remain available for 19″ panels.

Height			Width		Depths available in stock		
Usable	PDU support	Overall	Single skin	Double skin	500 mm	600 mm	700 mm
9 U	11 U	622 mm	600 mm	650 mm	▲	▲	▲
18 U	20 U	1022 mm			●	●	●
24 U	26 U	1289 mm			▲	●	●
31 U	33 U	1600 mm			▲	▲	●

● *in stock.* ▲ *to order.*

Composition:
• 1 painted aluminium outside enclosure.
• 1 painted aluminium shade screen for the double skin version.
• 2 painted aluminium front/rear doors with inside lining on double skin version.
• 4 19″ inside uprights with depthwise crossbars.
• 1 bottom with two cable I/O plates.
• 1 diamond-shaped roof with over-roof in double skin version.

A rear panel version is also available.
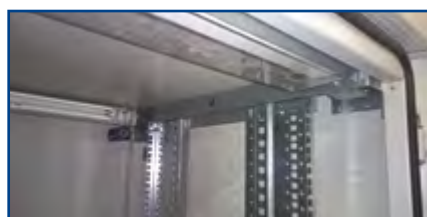
Height	Depth	Single skin	Double skin
9 U / 11 U	P.500	4001365	4001366
	P.600	4001384	4001385
18 U / 20 U	P.500	**4001367**	**4001368**
	P.600	**4001386**	**4001387**
	P.700	**4001369**	**4001370**
24 U / 26 U	P.600	**4001371**	**4001372**
	P.700	**4001373**	**4001374**
31 U / 33 U	P.700	**4001375**	**4001376**

CEI 297
EN 60-950
IEA 310-E
COMPLIANT WITH STANDARDS

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Atos
OUTDOOR

Cabinet options
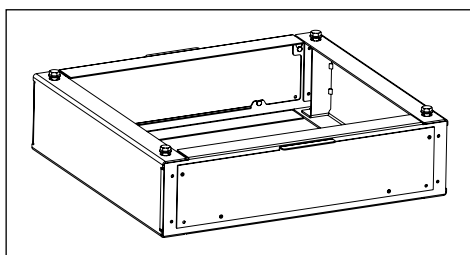
PLINTHS

Stainless steel 304L plinth with pure, smooth polyester paint RAL 7035. It is available in 2 versions:
- "Open" version made up of two stringers positioned laterally below the case
- "Closed" version made up of a belt with tamperproof closing plates (front and rear). Plinth height: 150 mm.

Depth	Open	Closed
500 mm	4001377	4001378
600 mm	4001379	4001380
700 mm	4001381	4001382

EYEBOLTS

Kit comprising four stainless steel eyebolts M10 x 28.
Extremely strong (Max. working load 700 kg).

Eyebolt kit	**4001320**

DOOR CONTACT SWITCH

For open/closed door contact, automatic lighting or alarm sent to supervision unit.
- 1 position switch (O+C bipolar snap-action contact).
- 1 connection cable.
- 1 fixing fasteners kit.

Door contact switch	**4001305**

LIGHTING

- 1 LED striplight T5 4W 320 Lumens 4000 K
- 1 fixing part + fasteners.

Striplight	4001304
Contact switch-striplight connecting lead	**6000720**

VENTILATION

To limit the temperature rise in the case by adding fan(s) IP55 to rear door.
- 1 fan 150 x 172, voltage 230 VAC, flow rate: 100 m³/h or 2 fans 150 x 172, voltage 230 VAC, flow rate: 200 m³/h
- 1 ventilation control thermostat kit.
- 1 fixing and electrical connection kit.
Requires circuit breaker for protection.

IP54 or 24 VDC version on request.

Version	For model 9U		For models 18 to 31U	
	1 fan	2 fans	1 fan	2 fans
Single skin	6000733	6000734	**6000591**	**6000593**
Double skin	6000736	6000737	**6000738**	**6000730**

COMPLIANT WITH STANDARDS
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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Cabinet options

AIR EXHAUST FILTER

Filter G4 to be fitted on rear door for natural convection in the event of very low heat dissipation.

Version	For model 9U	For models 18 to 31U
Single skin	4001597	**4001327**
Double skin	4001599	**4001587**

HEATING

To keep a case from freezing or to prevent condensation.
Resistors equipped with fans for improved convection.
Fit directly onto the 19" internal uprights.
Fitted with a 3 x 1 mm^2 cord, length 2 m with plug.

Requires circuit breaker for protection.

Model	Figure	Power	Part no.
80 x 80 x 50	A	150 W	6000415
19"/3U/D.85	B	250 W	6000416
19"/3U/D.85	B	600 W	6000418
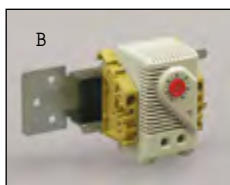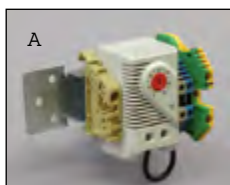
THERMOSTATS

Mount onto internal uprights.
• 1 DIN rail,
• Thermostat + terminals for power supply.
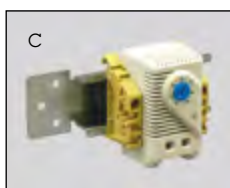
Model	Figure	Part no.
Element control thermostat	A	6000389
High temperature alarm thermostat	B	6000391
Low temperature alarm thermostat	C	6000390

POWER BOARD

For the connection and protection of equipment.
• 1 power board.
• 1 circuit breaker 6 A for heating and ventilation.
• 1 circuit breaker 16 A 30 mA.
• 3 connection terminals 16 mm^2.

Power board	6000721

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Cabinet drawings and dimensions

SECTION B-B

50

P2

Double skin overall heights = H3

Single skin overall height = H2

Working height = H0

19" upright height = H1

P1

123.5

P

SECTION C-C

113

100

400

100

113

19"

Single skin width 600

Double skin width 650
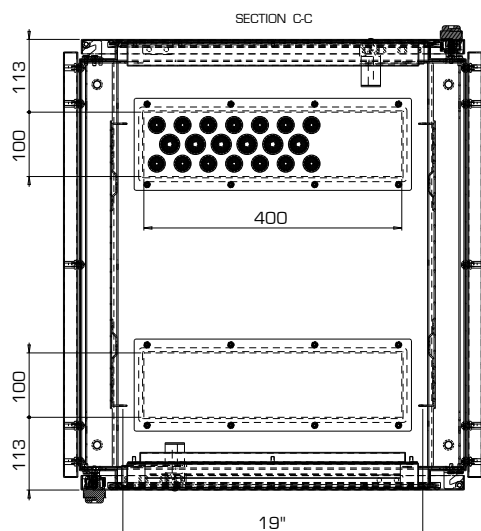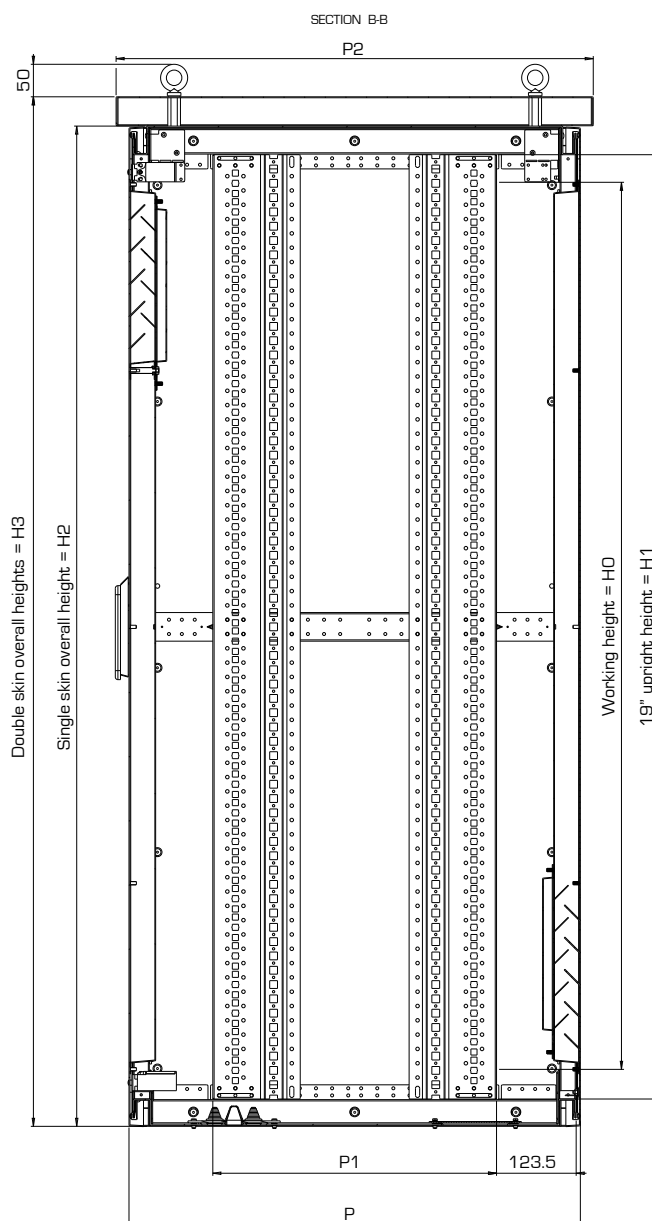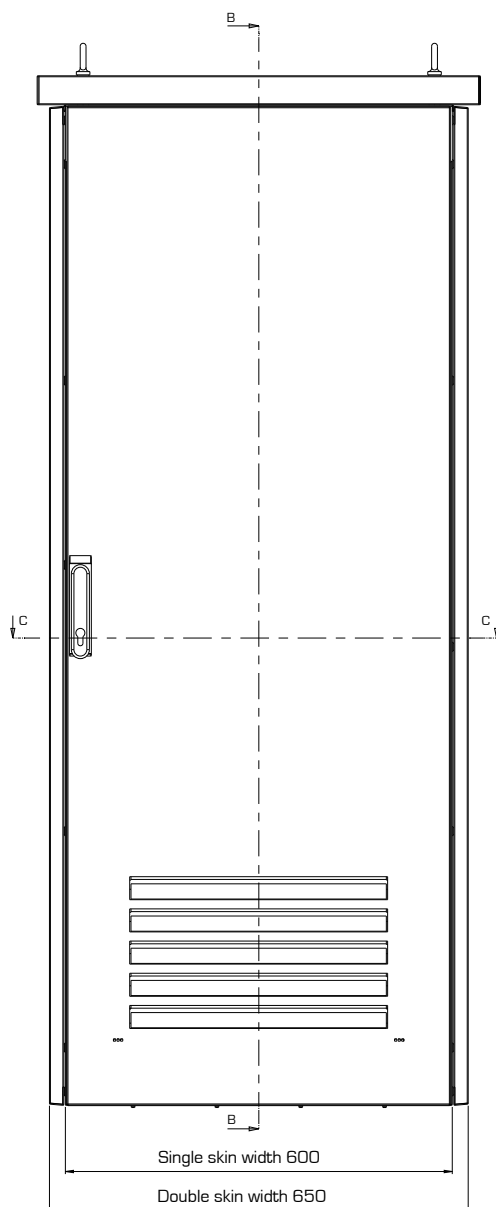
Working height	Inside upright height	Single skin overall height	Double skin overall height
H	H1	H2	H3
9 U	11 U	576	622
18 U	20 U	976	1022
24 U	26 U	1243	1289
31 U	33 U	1554	1600

Depth	D1 Distance between uprights	D2 Depth on roof
500 mm	240 mm	540 mm
600 mm	340 mm	640 mm
700 mm	440 mm	740 mm

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Case 27U presentation

The OUTDOOR case is designed specifically to withstand the most severe environmental requirements.

Its double skin technology protects against the sun's rays.

The front door is fitted with a multi-point closing system to protect against vandalism.

The outside enclosure, door and roof are aluminium with polyester powder paint. The steel plinth is treated with Korroprimer before a coat of smooth polyester paint RAL 7035 to combat aggressive weather conditions (snow, wind, rain, etc.).

CHARACTERISTICS

Dimensions
- Overall height: 1605 mm (including 200 mm plinth)
- Working height 19" area: 27 U
- Overall width: 700 mm.
- Overall depth: 600 mm.
- Working depth 19" area: 440 mm
- Protection rating: IP 54 (front door IP 53)
- Weight when empty: 68 kg (including 10 kg plinth)

Material and treatment
Linings and internal parts in galvanised steel.
Front door in aluminium, painted with smooth polyester powder RAL 7035, fitted with an air intake filter.
Steel plinth, Korroprimer treatment + smooth powder paint RAL 7035.

I/O cables via case bottom:
The case is pre-fitted with glands for on-site connections.

On the left:
3 glands PG36, for cable Ø 18 to 32
3 glands PG29, for cable Ø 15 to 25
2 glands PG16, for cable Ø 9.5 to 15
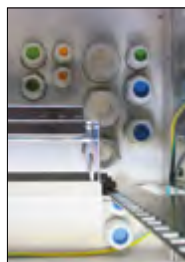
On the right:
3 glands PG29, for EDF cable Ø 15 to 25
4 glands PG21, for cable Ø 13 to 19
3 glands PG16, for cable Ø 9.5 to 15
2 glands PG11, for cable Ø 5 to 10

Closure
Retractable handle with 1/2 cylinder 455E.
Option: Different 1/2 cylinder

Basic case 27U	4904435

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Case 27U Options

HEATING

To keep a case from freezing or to prevent condensation. Element fitted with a fan for better convection.
Composition:
- 1 element 600 W.
- 1 fan 120 x 120, voltage 220 V, flow rate 108 m³/h
- 1 element ambience thermostat kit
- 1 fixing and electrical connection kit.

⚠ Requires circuit breaker for protection

Heating 600 W option	6903037

VENTILATION

To cool the case in periods of extreme heat.
Composition:
- 1 fan 150 x 172, voltage 230 V, flow rate 200 m³/h
- 1 ventilation ambience thermostat kit
- 1 fixing and electrical connection kit.

⚠ Requires circuit breaker for protection

Ventilation option	6903040

POWER BOARD

For the connection and protection of equipment.
Composition:
- 1 power board.
- 1 circuit breaker 6 A for heating and ventilation
- 1 circuit breaker 16 A 30 mA
- 3 connection terminals 25 mm²

Power board option	6903043

DOOR CONTACT:

For open/closed door contact or to send alarm to supervision unit.
Composition:
- 1 position switch ("O+C bipolar snap-action contact)
- 1 connection cable.
- 1 fixing fasteners kit.

Door contact option	6903044
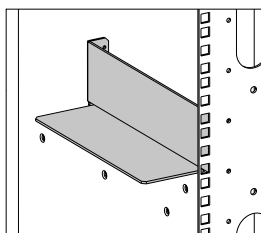
RUNNERS

Composition:
1 pair front fixing runners

Runner option	4904437

Our other accessories

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Drawings and dimensions case 27U

COUPE C-C

601

700

1405,7

A ← C

444,5

527,2

A ← C

2 PG 16

3 PG16

4 PG21

3 PG29

2 PG36

3 PG29

2 PG11

CE

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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

WALL case presentation

Single skin

Double skin

By default, the case is fitted with the cable I/O plate below and the front door with right opening (see drawing page 107).

CHARACTERISTICS

The IP55 OUTDOOR sealed case is designed especially to meet the need for electrical installation solutions requiring good protection from the most severe environmental demands (sun, snow, rain, etc.).

The case is available in single or double skin version.

The double skin technology protects against the sun's rays and allows the outside walls to be changed around (WITHOUT TOOLS) in the event of vandalism or an accident.

The outside enclosure and the door are in aluminium protected by pure polyester powder paint RAL 7035 (index IK10).
Anti-graffiti varnish is offered as an option.
The inside mechanics are in galvanised steel.
The cases are fitted with two 19" inside uprights (compliant with standards CEA-310E and IEC-60297) machined in 9.5 mm squares with identification and numbering of U profiles to facilitate integration.
Possibility of adding two additional uprights.

Composition:
- 1 welded aluminium enclosure,
- 1 solid or ventilated front door fitted with a bonded sealing gasket and with 2 x 1/4 turn buttons with key lock 455E.

Various closing solutions are proposed upon request.
7 or 8 mm square, triangle, double bars, slot, etc.
- 2 19" inside uprights
- 1 cable I/O plate fitted with 6 membrane grommets mounted on the bottom of the case.

For double skin version cases (see shade screen kit page 100) :
- 1 front door lining
- 2 painted aluminium side shade screens.
- 1 painted aluminium roof shade screen.

Resistance to corrosion:
Resistance to corrosion complies with standard ISO 12944-6, corrosiveness C4, HIGH durability.

Part nos. single skin case (shade screen see page 100).

Height	Depth	Solid door case	Ventilated door case*
9 U	400	4001502	4001512
		4001503	4001513
12 U	500	4001504	4001514
15 U		4001505	4001515
	600	4001506	4001516
18 U		4001507	4001517

* Ventilated by natural convection Fan can be added, see page 107.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

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IEA 310-E
COMPLIANT WITH STANDARDS

CE

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Doos for WALL case

SOLID DOOR IP55

- The solid door (index IK10) is made of steel, thickness 15/10th and painted in RAL 7035 (machining on door, please ask your sales rep.).

- It has a closed cell neoprene leaktight seal glued inside the door that guarantees the requested IP protection rating.

- The door is fitted by default with a right-hand opening, but this can be changed quickly on site (in operation) without dismantling or replacing hinges and the 1/4 turn closing system.

- The door is fitted with invisible hinges and can therefore be opened 120°. It is supplied with earthing stud + 6 mm² braid.

VENTILATED DOOR IP54

The ventilated door is made of steel thickness 15/10th painted in RAL 7035, fitted with 2 or 4 G3 filters at the top and bottom. It ensures **natural convection** of the air flow.

Basic equipment for the ventilated doors comprises:
- In 9U, 12U and 15U, 2 blocks 120 x 120 mm with G3 filter.
- In 18U, 4 blocks 120 x 120 mm with G3 filter.
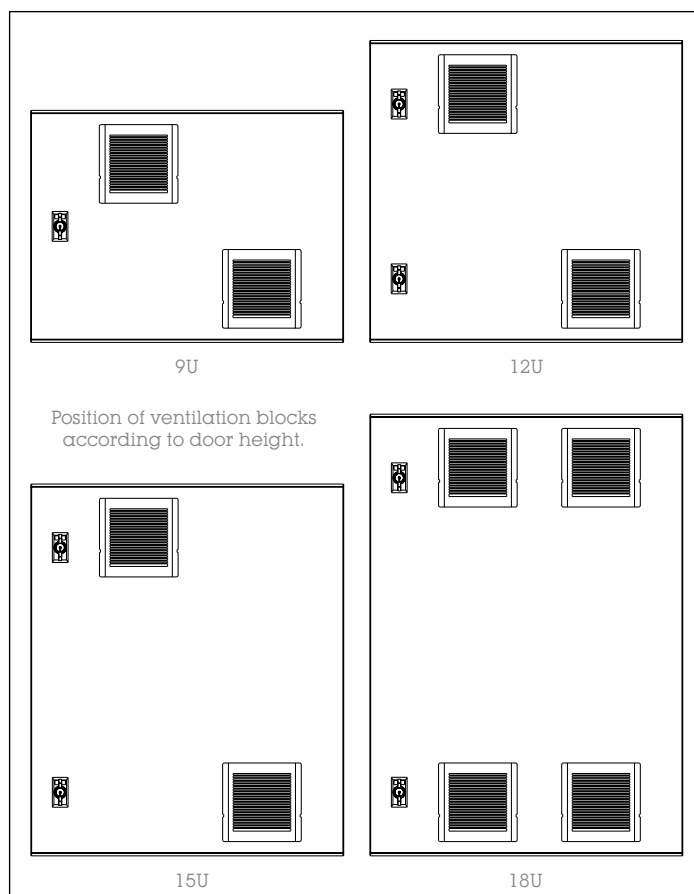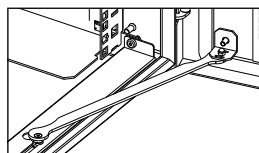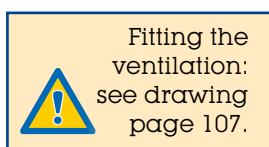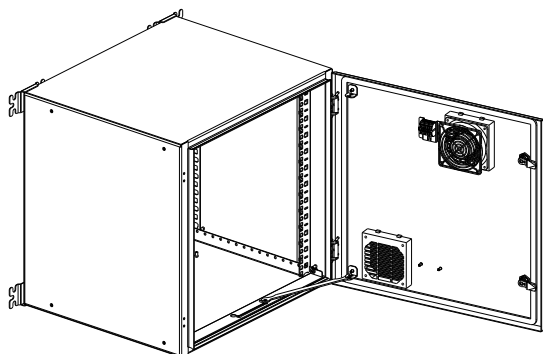
9U	12U

Position of ventilation blocks according to door height.

15U	18U

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Doors for WALL case

DOOR OPTIONS:

DOOR FAN

Installing fans will limit the rise in temperature in the case.

The fans can be positioned at the top or bottom of the door depending on the configuration adopted. (To be stated when ordering)
- In extraction, fixed at door top. (Default mounting)
- In overpressure, fixed at door bottom.

Fan dimensions 120 x 120 mm.
See description and part no. on page 138.

ATOS has a full set of forced ventilation cooling systems (supply voltage, power to be dissipated, Δt air based on the ambient temperature, etc.): please ask us.

Fitting the ventilation: see drawing page 107.

CONNECTION TERMINAL BOARD

Essential for fan connection.
Is fixed inside the door.
Composition: - 1 metal support
                - 4 mm^2 terminal board
                - Fixing fasteners.

Connection terminal board	4001601

SPARE FILTER

Filtering capacity: 88%. Quality class of filtering cartridges as per DIN EN 779: G 3.

Pack of 5 spare filters for block 120x120	B119689

DOOR STOP

White zinc-plated steel torque link.
Automatic stop at 100°.

Door stop	4001602

CLOSURE

Basic door equipment comprises a butterfly button with key lock. Various closing solutions are proposed upon request: 7 or 8 mm square, triangle, double bars, slot, etc.

COMPLIANT WITH STANDARDS
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EN 60-950
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CE

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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

WALL case equipment

SHADE SCREEN KIT FOR SINGLE SKIN CASE

Shade screen kits can adapt without additional machining to single skin cases.
Quick and simple to install, the side walls and roof are mounted from the outside of the case without tools.
The kit comprises a machined shade screen, providing natural air convection to ensure protection from the sun's rays.

The kit comprises:
- 1 roof shade screen in aluminium 15/10th painted in RAL 7035.

The shade screen is tilted on the rear of the case to protect it from extremely bad weather (rain and snow).
- 2 side shade screens in aluminium 15/10th painted in RAL 7035.

The side shade screen has keyholes for quick installation and change around.
- 1 solid or ventilated door shade screen in aluminium 15/10th painted in RAL 7035.

The ventilated door shade screen is fitted with an air deflector to manage incoming/exhaust air flows smoothly.

The shade screen kit is proposed fitted to the single skin case or in kit form for on-site installation.
To be stated when ordering, add "KIT" after the part no. (Example: 4001522 KIT)

Solid door / Ventilated door

Height	Depth	Solid door	Ventilated door
9 U	400	4001492	4001522
		4001493	4001523
12 U	500	4001494	4001524
15 U		4001495	4001525
	600	4001496	4001526
18 U		4001497	4001527

VENTILATED PLATE WITH GROMMETS AND FILTER BLOCKS 80X80, IP 54

Anti-corrosion treated aluminium plate, 3 mm thick, fitted with:
- 6 membrane grommets (4 x Ø 5 to 17 and 2 x Ø 10 to 22)
- 2 blocks 80 x 80 mm with G3 filter.

Option:
2 fans 230 VAC 80x80 + connection terminal board.

Ventilated plate WITHOUT fans	**4001603**
Ventilated plate WITH fans	**4001604**

A ventilated plate can only be installed in cases fitted with a ventilated door.

MACHINED PLATE WITH STAGED MEMBRANE GROMMET, IP 55

3 mm plate, anti-corrosion treated, with fitted grommets. Delivered with fasteners.

Model	Capacity	Part no.
400 x 100	14 x Ø 5 to 17 + 6 x Ø 10 to 22 + reserve 100 x 120	1011050

Other plates, see page 89.

WALL case equipment

HEATING ELEMENTS

- To keep a cabinet from freezing in unheated premises or to prevent condensation.
- Resistors equipped with fans for improved convection.
- Fixed directly to the outside uprights or inside uprights 19", depending on the model.
- Fitted with a 3 x 1 mm^2 cord, length 2 m with plug.

Heating elements	19"/3U/D.85/250W	19"/3U/D.85/600W
	6000416	6000418
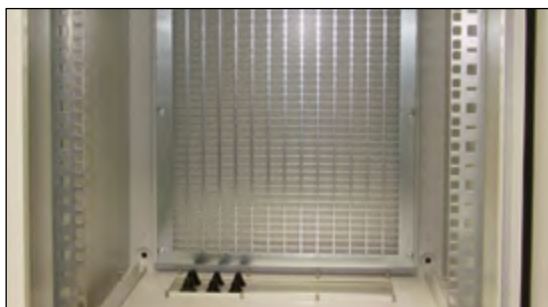
CASE BOTTOM PLATE

Galvanised steel plate format 19" full height.
Available in solid or perforated version.

Height	plain	Perforated
6 U	4001435	4001445
9 U	4001436	4001446
12 U	4001437	4001447
15 U	4001438	4001448
18 U	4001439	4001449

CABLE GUIDE RING

The ring clips directly onto the case bottom plate or DIN rail.
- Material: Polyamide 6.6
- Colour: Black
- Fire resistance: V2 UL94
- Working dimensions: 28 x 35 mm

Pack of 10 rings	**4001471**
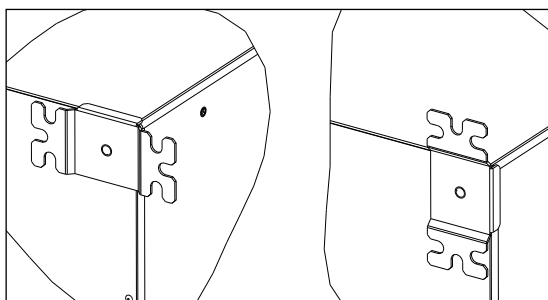
WALL BRACKET

Pack of 4 wall flanges for outside fixing.
Possibility of mounting "vertically or laterally".
Flange in stainless steel + fixing nut on case.
Delivered in kit form.
Wall fixing fasteners not supplied.

Wall bracket	**4001440**

AUTOMATIC HOOK-ON RUNNER

Hooks onto the front uprights.

Hook-on runner	**4001450**

Additional accessories, see page 127.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Drawings and dimensions WALL case

OPTION:
uprights
(additional)

Setback of front uprights:
Solid or glass door: 75 mm
Ventilated door + fans: 100 mm

SINGLE SKIN OVERALL DEPTH = P1
SUN VISOR: 22
P2
22
7
SUN VISOR: 45
P3
H1
25
72
30

644
22.5
43
30
H1
H (overall)
H2
543
22.5

40.5 100
99.5
73.5
400
452
SINGLE SKIN WIDTH 600
DOUBLE SKIN WIDTH 650
73.5
99.5

4 staged membrane grommets Ø 5 to 17.

2 staged membrane grommets Ø 10 to 22.
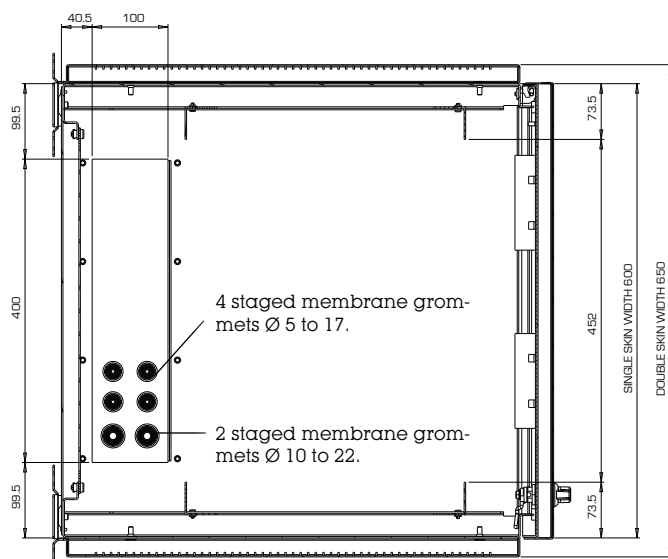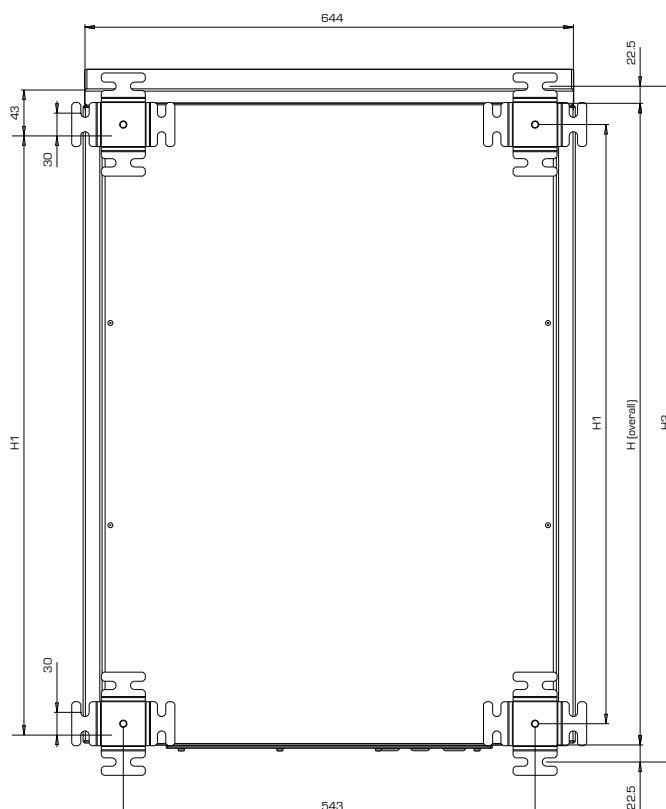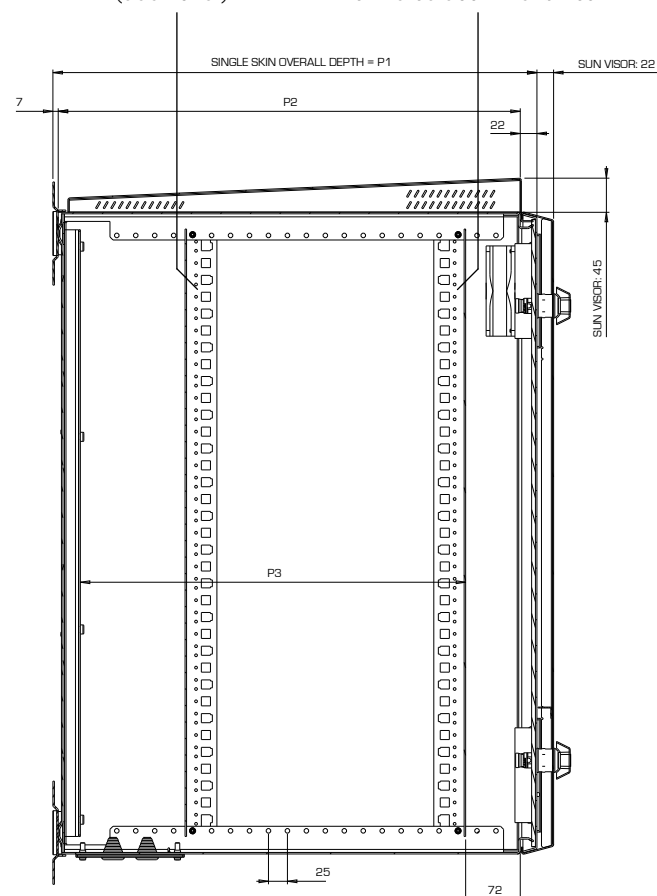
Working height	H (overall)	H1	H2
9 U	446 mm	390 mm	491 mm
12 U	579 mm	523 mm	624 mm
15 U	713 mm	657 mm	758 mm
18 U	846 mm	790 mm	891 mm

Depth	D1 (overall)	P2	D3 (usable)	
			TO*	B *
400 mm	437.5 mm	409 mm	334 mm	309 mm
500 mm	537.5 mm	509 mm	434 mm	409 mm
600 mm	637.5 mm	609 mm	534 mm	509 mm

*A: with solid or glazed door. B: with ventilated door.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Notes

Amplitude cabinet-case

Table case

Amplitude cabinet-case

CASE-CABINET WITHOUT DOOR

Composition:
- 2 sides in 12/10th steel.
- 4 crosspieces in 15/10th steel.
- 4 19" inside uprights in 15/10th steel, adjustable in 15 mm increments.
- 1 removable perforated bottom in 10/10th steel.
- 1 removable solid roof in 10/10th steel.
- 1 removable perforated rear panel in 12/10th steel.
- 1 set of side bezels.
- 4 black natural rubber feet.

Finish:
- Roof, bottom and bezels in colour RAL 7036.
- Sides, rear panel and door in colour RAL 7035.

Case Depth 500:

Height	Without door
6U	**4000383**
9U	**4000387**
12U	**4000391**

Other depths on request.

Dimensions:

Height	Working height	Total height
6U	268.70 mm	361.70 mm
9U	402.05 mm	495.05 mm
12U	535.40 mm	628.40 mm

Depth	PU: Working depth		Ventilation depth
	without door	with door	
500	475 mm	445 mm	282 mm

Drawing dimensions: 532, 484, VENTILATION = 393.5, 453, 465, 484
DEPTH, WORKING DEPTH WITHOUT DOOR, VENTILATION DEPTH, WORKING DEPTH WITH DOOR
WITHOUT DOOR, WITH DOOR
H = TOTAL HEIGHT, Hu = WORKING HEIGHT

COMPLIANT WITH STANDARDS
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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Amplitude cabinet-case

CASE-CABINET SIGHT GLASS DOOR

Composition:
- 2 sides in 12/10th steel.
- 4 crosspieces in 15/10th steel.
- 4 19" inside uprights in 15/10th steel, adjustable in 15 mm increments.
- 1 removable perforated bottom in 10/10th steel.
- 1 removable solid roof in 10/10th steel.
- 1 removable perforated rear panel in 12/10th steel.
- 1 door with lightly-smoked safety glass inspection window,
- 4 black natural rubber feet.

Finish:
- Roof, bottom and bezels in colour RAL 7036.
- Sides, rear panel and door in colour RAL 7035.

Case Depth 500:

Height	Glass door
6U	**4000397**
9U	**4000401**
12U	**4000405**

Other depths on request.
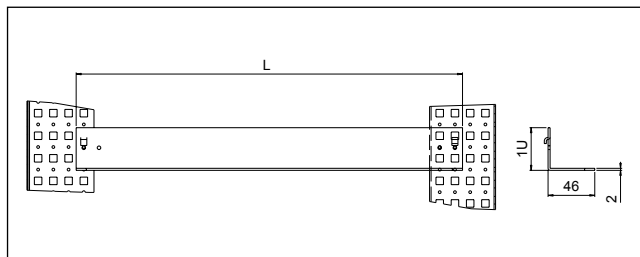
HOOK-ON RUNNERS

For wall cases D.500, choose the runners for case D.400.
Material: White zinc-plated 15/10th steel.
Delivery: 2 parts + safety fasteners..

Depth	P.300	P.400	P.500	P.600
Dimension W	180.5	280.5	380.5	480.5
Runners	**4000425**	**4000426**	**4000427**	**4000428**

M6 FASTENERS

Characteristics: - Nickle-brass screws.
- Black ABS washer.
- RAPID cage nut M6.
Packaging: 25 + 25 + 25.

M6 fasteners	4000475

Our other accessories

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

GAMME AMPLITUDE

OPTIMA II

Optima II case

Optima II fixed case

OPTIMA II CASE
FIXED MODEL

Fixed or swivel wall case, door with inspection window, available in five heights and two depths to match the volume of your networks

Fixed model
- Totally reversible by turning it over,
- Wall fixing by slotted holes,
- Supplied fully assembled with drilling template for wall mounting.

Characteristics:
- Width: 600 mm
- Heights: 6, 9, 12, 15 and 18 U
- Depths: 400 and 500 mm in fixed version
- Weight: see table
- Permissible load: 40 kg

Working height	Overall height	Glass door		Solid door	
		P.400	P.500	P.400	P.500
6U	347	**4000995**	**4001000**	**4001566**	**4001571**
9U	480	**4000996**	**4001001**	**4001567**	**4001572**
12U	613	**4000997**	**4001002**	**4001568**	**4001573**
15U	747	**4000998**	**4001003**	**4001569**	**4001574**
18U	880	**4000999**	**4001004**	**4001570**	**4001575**
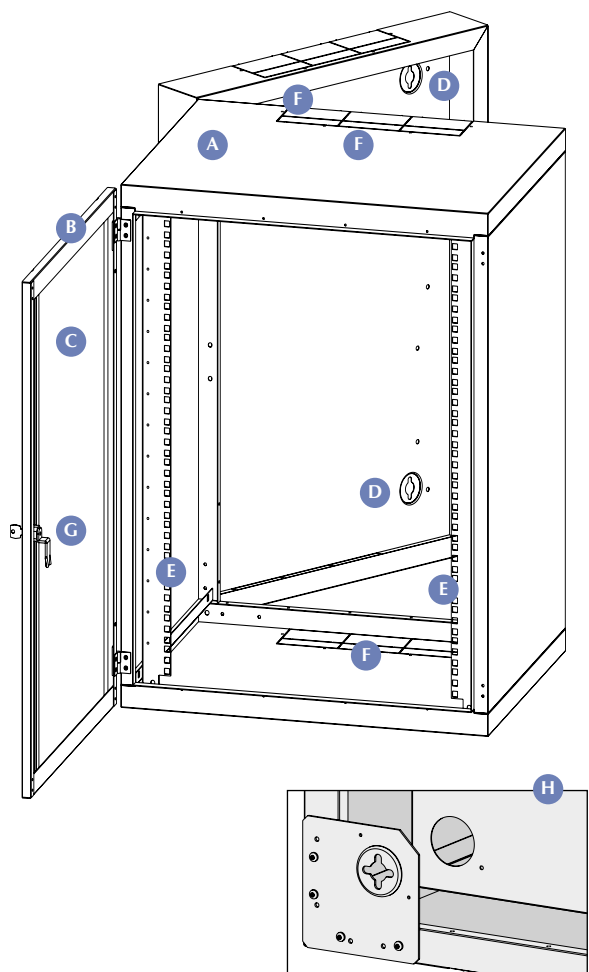
Composition:

A 1 steel casing painted light grey RAL 7035, in fixed version (2 in swivel version)

B 2 horizontal door trim strips, dark grey RAL 7015

C 1 reversible sight glass door with clear safety glass

D 4 slotted holes for wall fixing

E 2 depth-adjustable 19" uprights at 30 mm increments

F 2 cable I/O pre-cut-out areas (4 in swivel version)

G 1 key lock 455E

H Optional rear panel for fixed model.

REAR PANEL KIT
The fixed case can be fitted with a rear panel if necessary.

Height	6U	9U	12U	15U	18U
Part no.	**4001030**	**4001031**	**4001032**	**4001033**	**4001034**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

COMPLIANT WITH STANDARDS
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CE

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Optima II swivel case

OPTIMA II CASE
SWIVEL MODEL

The opening in the swivel section gives direct access to the rear of equipment for optimised cable management.

Swivel model
- Totally reversible by turning it over,
- Swivel model casing can be removed easily
- Wall fixing by slotted holes,
- Supplied fully assembled with drilling template for wall mounting.

Characteristics:
- Width: 600 mm
- Heights: 6, 9, 12, 15 and 18 U
- Depths: 500 (100+400) and 600 (100+500) mm
- Weight: see table
- Permitted load: 2.5 kg/U

Working height	Overall height	Glass door		Solid door	
		D.100+400*	D.100+500*	D.100+400*	D.100+500*
6U	347	**4001014**	**4001019**	**4001576**	**4001581**
9U	480	**4001015**	**4001020**	**4001577**	**4001582**
12U	613	**4001016**	**4001021**	**4001578**	**4001583**
15U	747	**4001017**	**4001022**	**4001579**	**4001584**
18U	880	**4001018**	**4001023**	**4001580**	**4001585**

Fixed wall casing section = D.100, swivel case section = D.400 or D.500.

ACCESSORIES
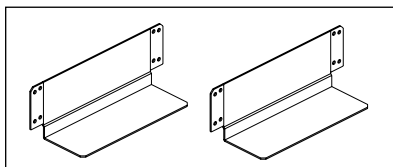
CHASSIS SUPPORT
Set of 2 steel brackets to support the 19" plug-in units.

Chassis support	**4000611**
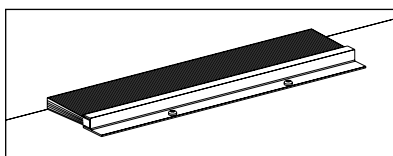
CABLE I/O BRUSH
Used on cable passage - reduces air and dust input

Cable inlet brush	**4000636**
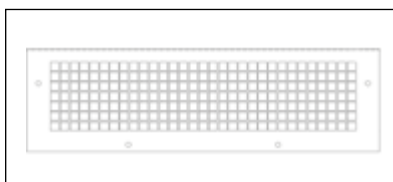
IP 20 GRILLE
For IP20 natural or forced convection.
Is fitted in the cable passage pre-cut-out.
Airflow 1.3 dm^2 (ventilated area 286 x 64 mm).

IP 20 grille	**4000651**
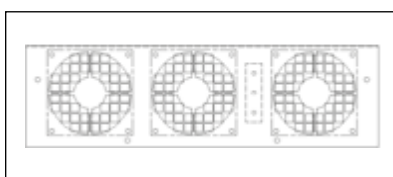
FORCED VENTILATION PLATE
Plate fitted with 3 fans 220 V, 80 x 80 x 25 mm, wired to terminal board with power cord and plug.
Total flow rate: 70 m^3/h. Noise level: 30 dB.

IP 20 plate	**4000652**

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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

OPTIMA II RANGE

OPTIMA II

Atlas chassis

Atlas presentation

Components

19" cabinet mounting

Accessories

Presentation

The ATLAS chassis are manufactured by ATOS and designed specially to incorporate non-standard components:
• batteries, power supplies, measuring units, etc.

ATLAS can withstand heavy loads:
• Zinc-plated steel chassis,
• Front panel in 4 mm thick aluminium,
• Runners with high load capacity.

Its design makes it highly modular:
• Possible height adjustments of the front panel,
• Multiple positions of the bottom or rear panel,
• Possibility of fitting runners and locking system

CHARACTERISTICS

• Chassis compliant with standards EIA 310-3, IEC 60297 and DIN 41494 standard 19",
• Inside width: 425 mm.
• Heights available from 2 to 12 U.
• Depths: 360, 460 and 563 mm
• Permissible load: 40 kg.
• Supplied in kit form.

CUSTOMISATION:

To embellish your integration, ATOS could customise your front face, rear face or any other component: do not hesitate to ask.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Presentation
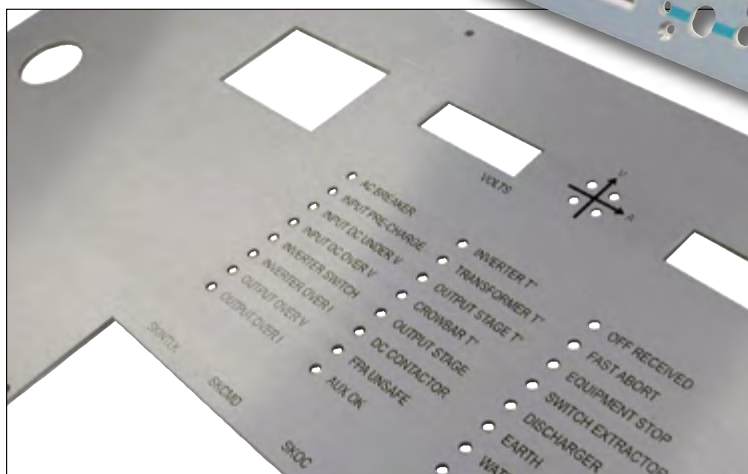
COMPOSITION:

1 1 raw front face protected by a film or colourless oxidised brushed finish
  - Front face BRO+OAI, non-conducting treatment,
  - ask us for all other finishes.
  - Vertical brushing direction (horizontal as option)

2 2 perforated end shields in white zinc-plated steel over full height.

3 2 colourless, oxidised aluminium handles.

4 1 solid bottom in white zinc-plated steel.

5 1 rear panel in white zinc-plated steel.

  Pack of fasteners.

Solid or perforated cover as option

Version with latches
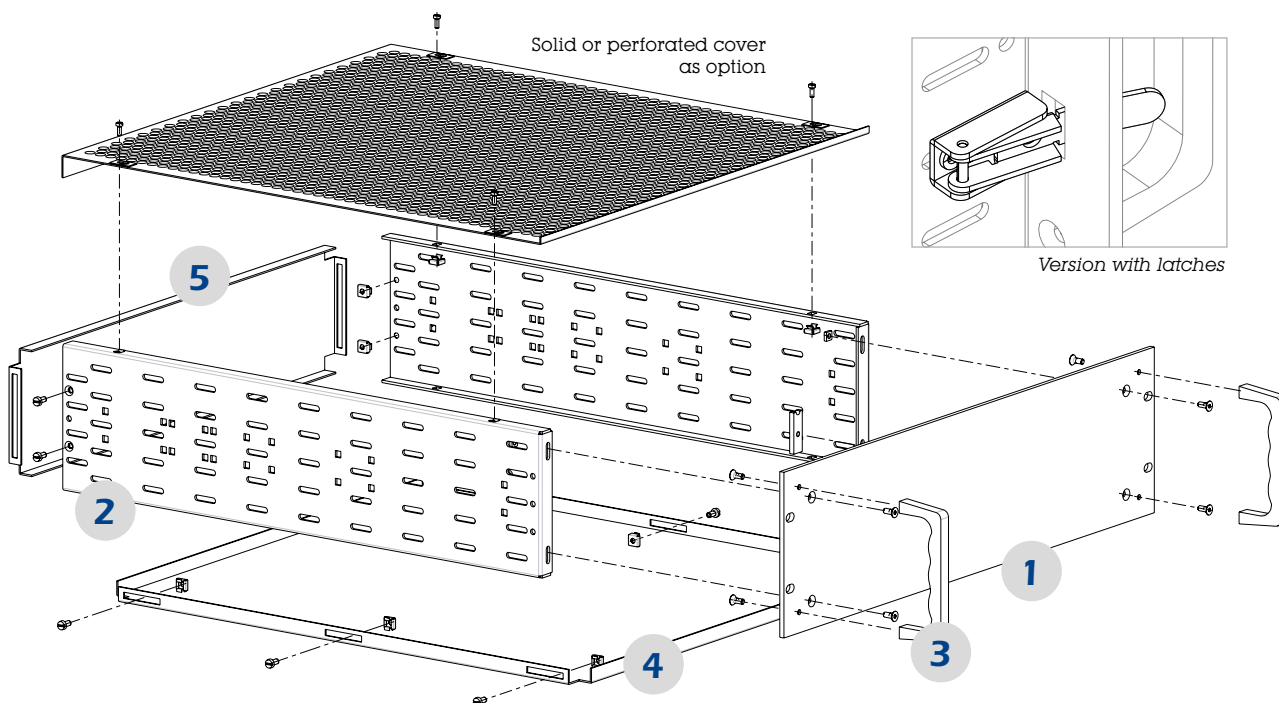
INDUSTRIALISATION:

To rationalise the series production run, do not hesitate to consult us for the study of an Atlas single-body with built-in or separate rear face.

Similarly, zinc-plated steel can be changed to stainless steel, aluminium or galvanised steel.

COMPLIANT WITH STANDARDS
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EN 60-950
IEA 310-E

CE

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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Presentation
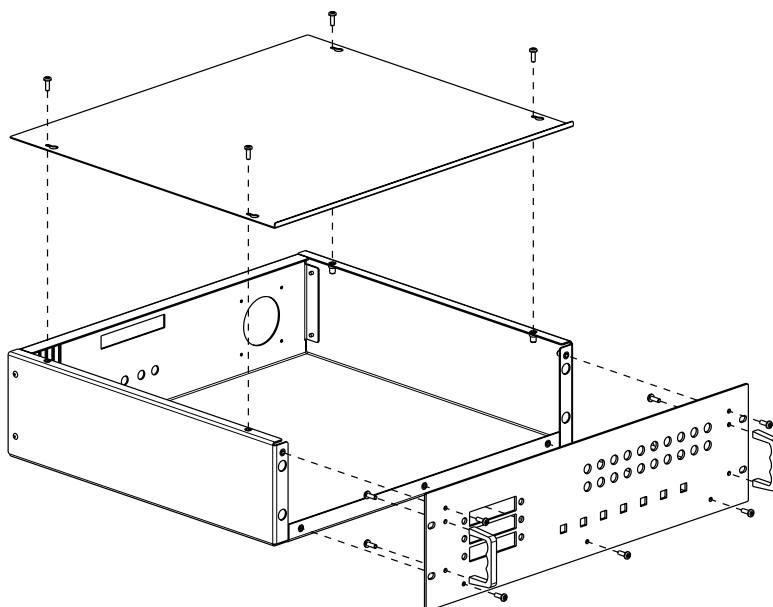
SIZES:

Model shown: standard chassis 3U 460 deep
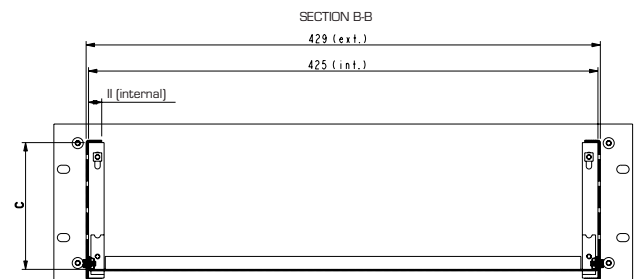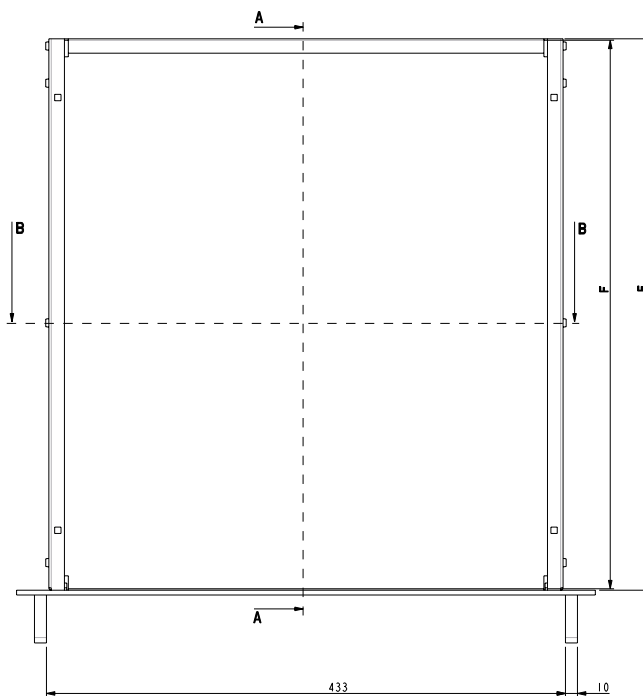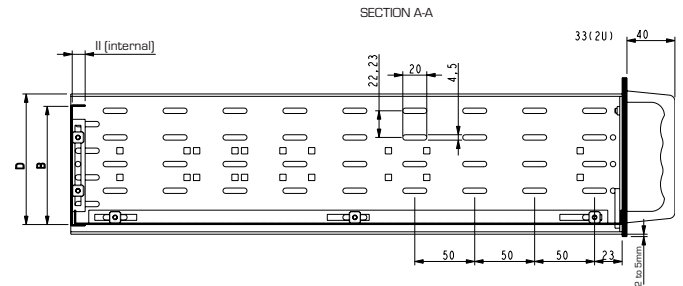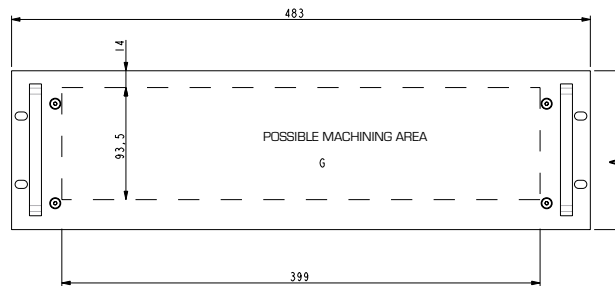
Depths

E (outside)	F (usable)
360	355
460	455
563	558

Dimensions

Height	A	B (usable)	C (usable)	D (usable) without cover	D (usable) with cover	G (possible machining area)
2U	88.0	54	61	73 - 76	63	49.0
3U	132.5	99	106	118 - 121²	108	93.5
4U	177.0	143	150	162 - 165	152	138.0
5U	221.5	188	195	207 - 210	197	182.5
6U	266.0	232	239	251 - 254	241	227.0
7U	310.5	277	284	296 - 299	286	271.5
8U	355.0	321	328	340 - 343	330	316.0
9U	399.5	366	373	385 - 388	375	360.5
10U	444.0	410	417	429 - 432	419	405.0
11U	488.5	455	462	474 - 477	464	449.5
12U	533.0	499	506	518 - 521	508	494.0

NB:
Where the bottom is mounted upside down with respect to the diagram
above, dimensions C and D must be reduced by 11 mm.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Chassis

CHASSIS WITH HANDLES, MODEL WITH SOLID BOTTOM

Models are available according to several criteria:

- with solid or perforated bottom
- with or without latches
- with oxidised, brushed front face (or raw for models without latches), to be stated when ordering.
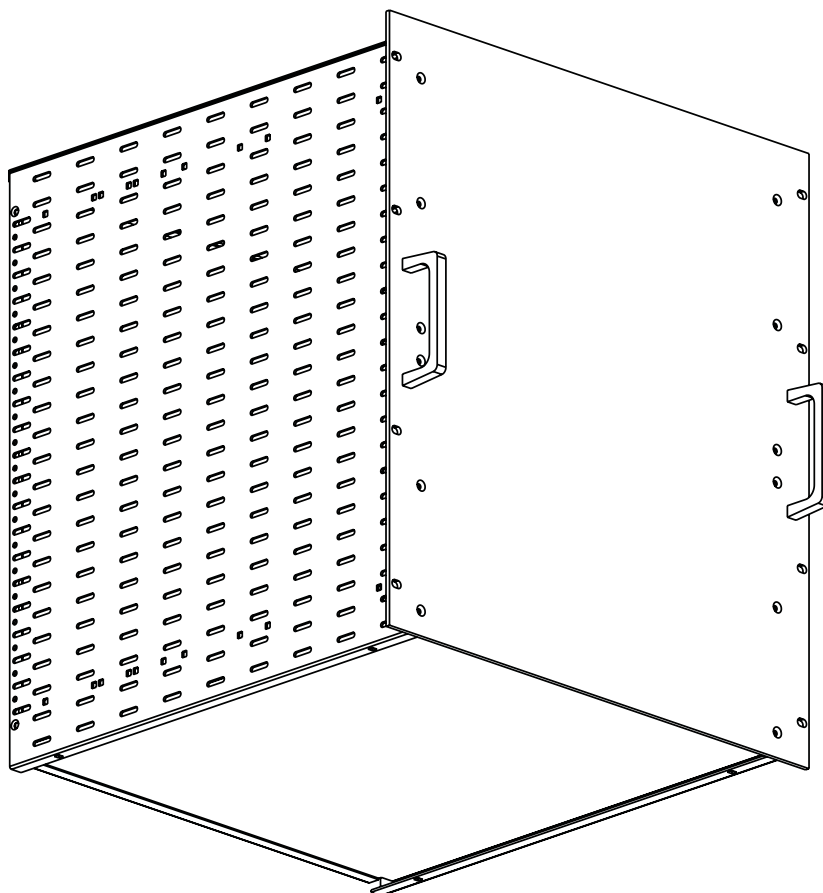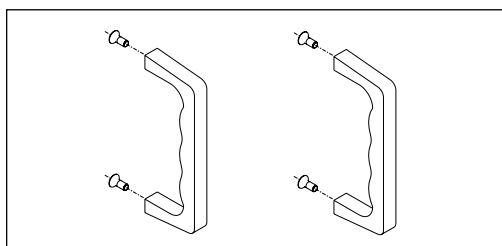
Version without latches

Height	Depth		
	360 mm	460 mm	563 mm
2 U	**2000520**	**2000526**	-
3 U	**2000521**	**2000527**	**2000532**
4 U	**2000522**	**2000528**	**2000533**
5 U	**2000523**	**2000529**	**2000534**
6 U	**2000524**	**2000530**	**2000535**
7 U	**2000684**	**2000690**	**2000696**
8 U	**2000685**	2000691	2000697
9 U	**2000686**	2000692	2000698
10 U	**2000687**	2000693	2000699
11 U	**2000688**	2000694	2000700
12 U	**2000689**	2000695	2000701

Version with latches

Height	Depth		
	360 mm	460 mm	563 mm
2 U	**2000566***	**2000572***	-
3 U	**2000567**	**2000573**	**2000578**
4 U	**2000568**	**2000574**	**2000579**
5 U	**2000569**	**2000575**	**2000580**
6 U	**2000570**	**2000576**	**2000581**
7 U	**2000134**	**2000135**	**2000136**
8 U	**2000137**	2000138	2000139
9 U	**2000140**	2000141	2000142
10 U	**2000143**	2000144	2000145
11 U	**2000146**	2000147	2000148
12 U	**2000149**	2000150	2000151

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Chassis

CHASSIS WITH HANDLES, MODEL WITH PERFORATED BOTTOM

Models are available according to several criteria:

- with solid or perforated bottom
- with or without latches
- with oxidised, brushed front face (or raw for models without latches), to be stated when ordering.
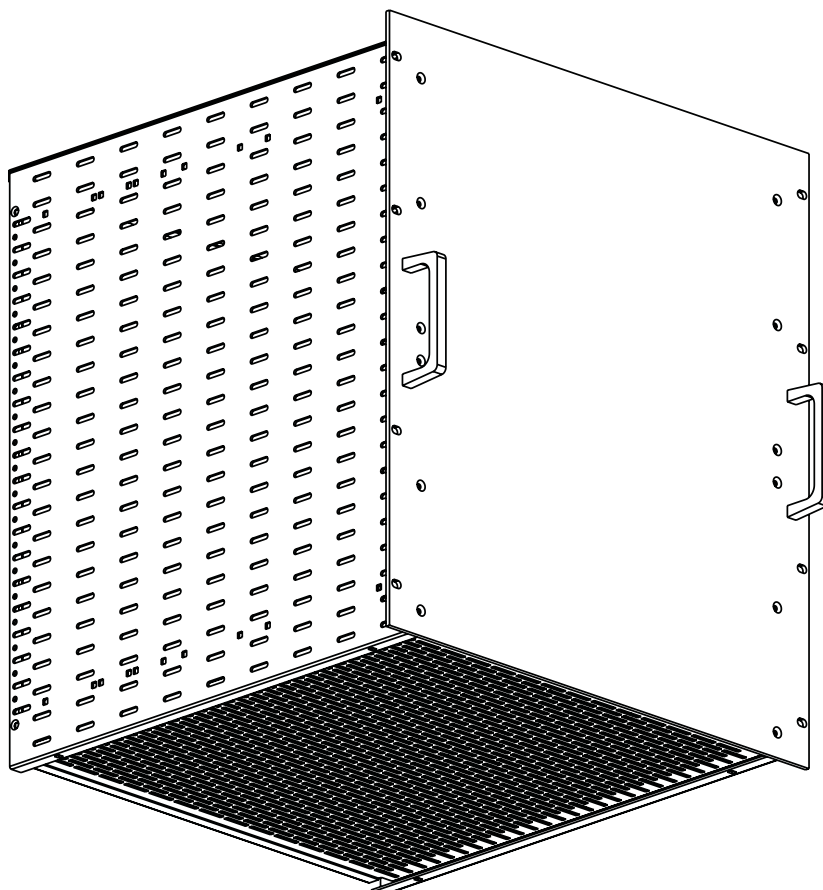
Version without latches

Height	Depth		
	360 mm	460 mm	563 mm
2 U	**2000614**	**2000615**	-
3 U	**2000616**	**2000617**	**2000618**
4 U	**2000619**	**2000620**	**2000621**
5 U	**2000622**	**2000623**	**2000624**
6 U	**2000625**	**2000626**	**2000627**
7 U	2000152	2000153	2000154
8 U	2000155	2000156	2000157
9 U	2000158	2000159	2000160
10 U	2000161	2000162	2000163
11 U	2000164	2000165	2000166
12 U	2000167	2000168	2000169

Version with latches

Height	Depth		
	360 mm	460 mm	563 mm
2 U	**2000670***	**2000675***	-
3 U	**2000671**	**2000676**	**2000680**
4 U	**2000672**	**2000677**	**2000681**
5 U	**2000673**	**2000678**	**2000682**
6 U	**2000674**	**2000679**	**2000683**
7 U	2000170	2000171	2000172
8 U	2000173	2000174	2000175
9 U	2000176	2000177	2000178
10 U	2000179	2000180	2000181
11 U	2000182	2000183	2000184
12 U	2000185	2000186	2000187

* Chassis 2 U with latches are delivered without handles.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Components

HANDLES

Composition:
2 colourless+ oxidised aluminium parts + fasteners

Height	2 U	3 U
Part nos.	**2000607**	**2000608**
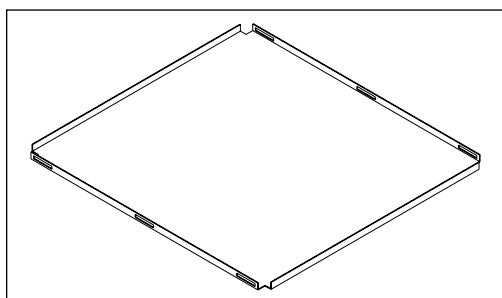
SOLID BOTTOM

Composition:
1 bottom white zinc-plated steel 12/10th + fasteners.

Depth	360 mm	460 mm	563 mm
Part nos.	**2000610**	**2000611**	**2000612**
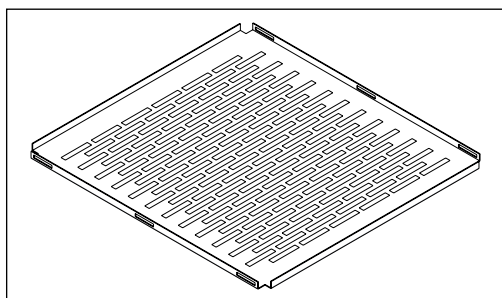
PERFORATED BOTTOM

Characteristics:
- Easy to fit components
- Supplements the ventilation.
Composition:
1 bottom white zinc-plated perforated steel 12/10th + fasteners.

Depth	360 mm	460 mm	563 mm
Part nos.	**2000548**	**2000549**	**2000550**
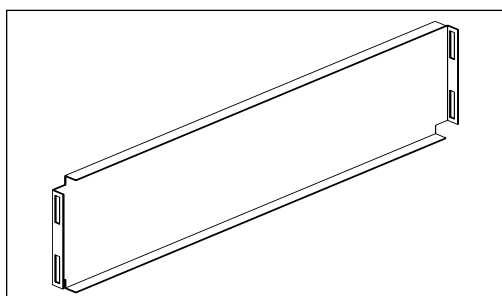
REAR PANEL

Composition:
1 panel white zinc-plated steel 12/10th + fasteners.

Part nos.	2 U	3 U	4 U	5 U	6 U
	2000601	**2000602**	**2000603**	**2000604**	**2000605**
7 U	8 U	9 U	10 U	11 U	12 U
2000709	**2000710**	**2000711**	**2000712**	**2000713**	**2000714**
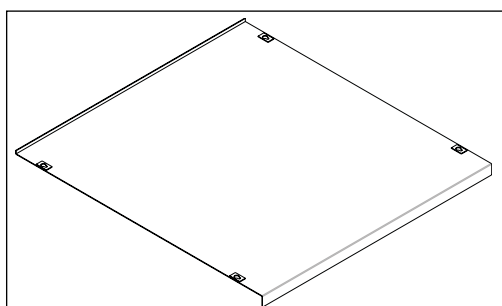
SOLID COVER

Composition:
1 solid cover white zinc-plated steel 10/10th + fasteners.

Depth	360 mm	460 mm	563 mm
Part nos.	**2000188**	**2000189**	**2000190**
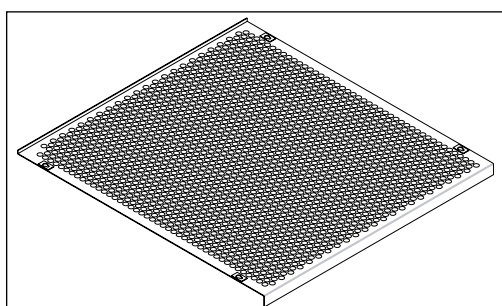
PERFORATED COVER

Characteristics:
Protects and allows ventilation (up to 60% ventilation).
Composition:
- 1 perforated cover white zinc-plated steel 10/10th.
- 4 screws M3 + 4 cage nuts M3.

Depth	360 mm	460 mm	563 mm
Part nos.	**2000537**	**2000538**	**2000539**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

19" cabinet mounting

RUNNER KIT

Telescopic runners with 3 arms, lockable, unpluggable without mechanical intervention.
Mounting on chassis end shields with cage nuts M4.

Composition:
- 2 runners with ball bearings.
- 2 or 4 adaptors depending on cabinet:

Universel 19" (Fig. A)
- 4 adaptors for mounting on 19" uprights (front and rear)

Adjustable (Fig. B1)
- 2 adaptors for ATOS cabinet; the chassis is height-adjustable using eccentrics (± 2.5 mm).

Quick (Fig. B2)
- 2 hook-on adaptors for ATOS cabinet.
- Fasteners.

Length	350 mm	450 mm	550 mm	650 mm
Stroke	400	500	600	700
Load	44 kg	54 kg	60 kg	64 kg

Universel 19" runners			
Cabinet D.600	**2000634**	**2000635**	**2000636**	**2000637°**
Cabinet D.800	-	-	**2000644**	**2000645**

Optimale runners			
Adjustable	**2000191**	**2000192**	**2000193**	**2000194**
Quick	**2000195**	**2000196**	**2000197**	**2000198**

Evolution/Basic runners			
Adjustable	**2000651**	**2000557**	**2000652**	**2000653***
Quick	**2000655**	**2000656**	**2000657**	**2000658***

° This mounting causes the runners to protrude at the rear of the cabinet
* Cannot be fitted to cabinet 600 deep.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Accessories
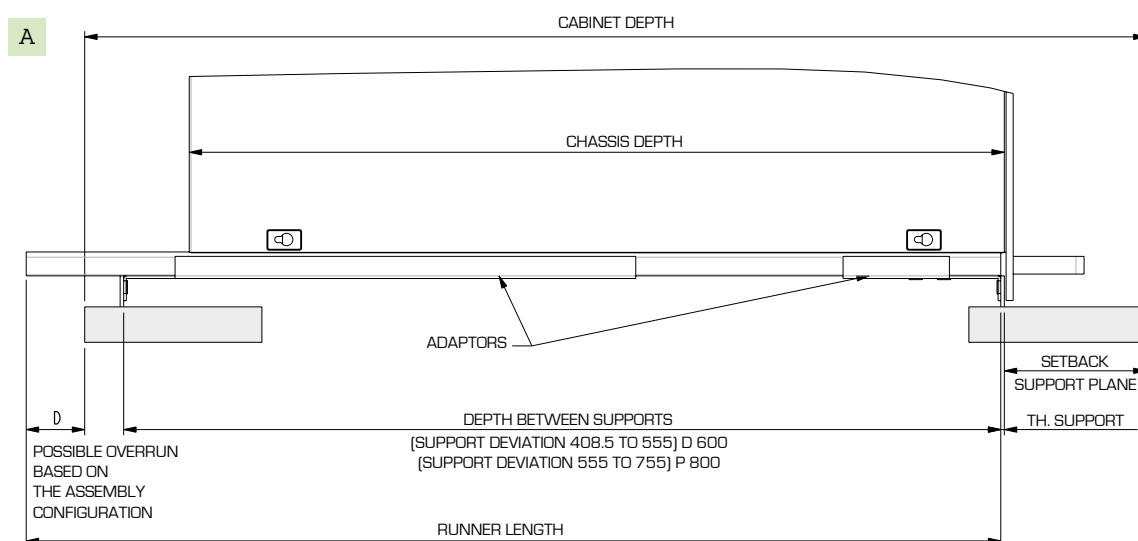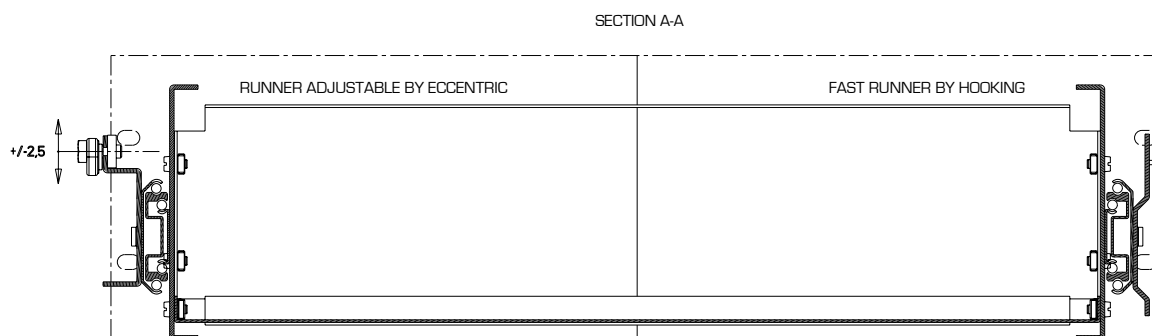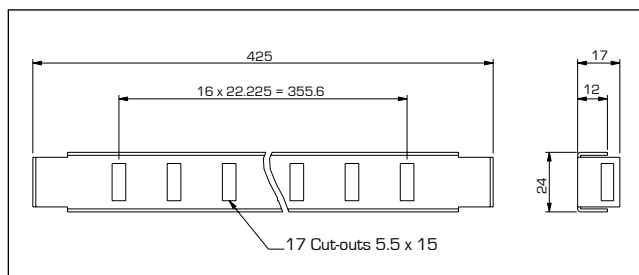
SPACER

Characteristics:
- For mounting between end shields.
- Used for cable passage and fixing.

Composition:
- 1 spacer white , zinc-plated steel 12/10th.
- 2 screws M4.
- 2 cage nuts M4.

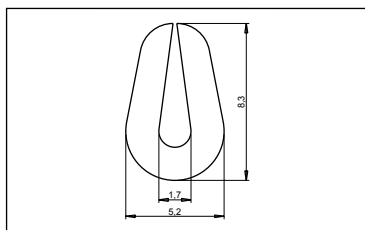| Spacer	**2000541**
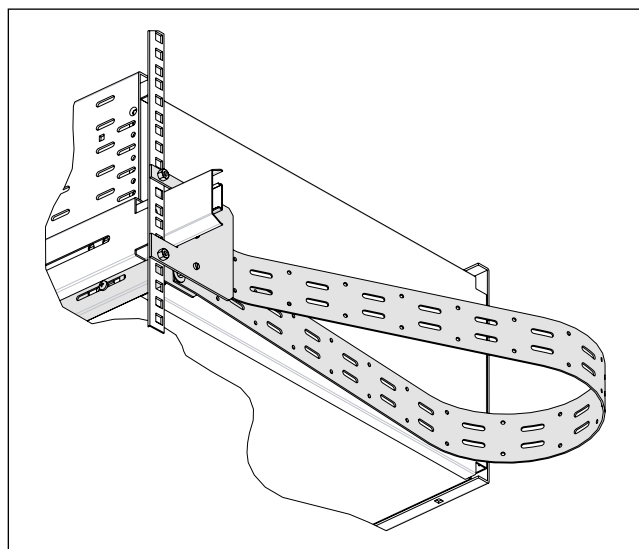
CABLE GUIDE

Mounting:
- On the cabinet, with 19" 2U support supplied.
- On the chassis, bracket allowing 0 to 50 mm distance between the cable guide and rear face.

Composition:
- 1 flexible support 46 mm high.
- 2 fixing parts.
- Fasteners.

Cable guide	**2000669**

RUBBER PROFILE REF. 1033
To protect metal sheet edges, max. thickness 15/10th (bottom and rear) after machining. Sold by the metre.

Rubber profile	**B100504**

EARTHING BRAID

Green/yellow braid 6 mm^2, fastening screws + nuts M5 + fast-on

Earthing braid	**1011217**

Our other accessories

COMPLIANT WITH STANDARDS
CEI 297
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CE

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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Notes

Universal accessories

Fixed
1/2U

TRAYS

Fixed or telescopic trays allow non 19" format hardware to be fitted.

The perforated models permit rigid fixing of equipment that is strongly advisable on the telescopic models.

The perforations over the entire tray surface ensure perfect airflow circulation.

There are different versions available:
• Solid or perforated
• Fixed or telescopic
• 4- or 2-point fixing
• Height ½U, 1U, 2U.
• Colour: RAL 7035 grey or RAL 9005 black.
• Permissible load: 10 to 80 kg.

Fixed
1U

Telescopic
1U

Solid 2U
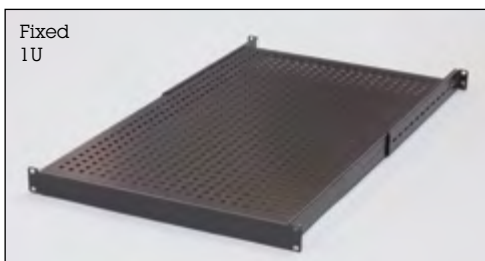
Perforated 1U

Fixed Shelves with 4-point fixing (front/rear) with fixing fasteners.

| Model	Ht.	Permitted load	Depth	Distance between 19" fixings	Colour (RAL)	Part no.
Perfo-rated	½ U	40 kg	440 mm	400 to 750 mm	7035	1008108
					9005	1208108
			640 mm	600 to 850 mm	7035	1008109
					9005	1208109
	1 U	80 kg	740 mm	700 to 850 mm	7035	1008414
					9005	1208414
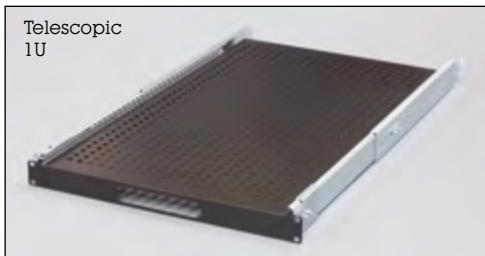
Telescopic Shelves with 4-point fixing (front/rear) with fixing fasteners.

Model	Ht.	Permitted load	Depth	Distance between 19" fixings	Colour (RAL)	Part no.
Perfo-rated	1 U	50 kg	450 mm	460 to 630 mm	7035	1008508
					9005	1208508
			640 mm	610 to 760 mm	7035	1008509
					9005	1208509
		80 kg	740 mm	700 to 850 mm	7035	1008478
					9005	1208478
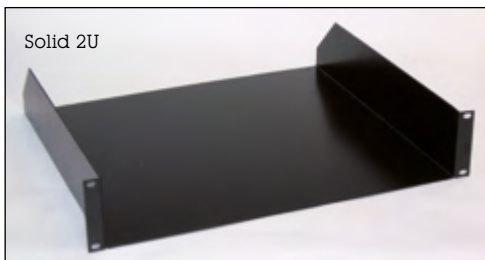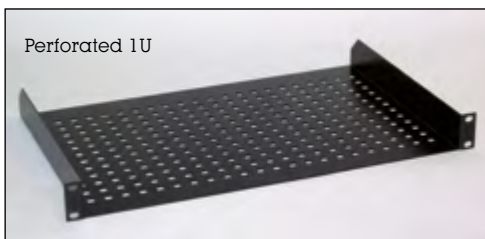
2-point fixing Shelves (front) without fasteners*.

Model	Ht.	Permitted load	Depth	Colour (RAL)	Part no.
Solid	1 U		290 mm	7035	A113052
				9005	A123052
	2 U			7035	A111801
				9005	A121801
			400 mm	7035	A111802
				9005	A121802
Perfo-rated	1 U	10 kg	230 mm	7035	A112026
				9005	A122026
			290 mm	7035	A113051
				9005	A123051
	2 U			7035	A113053
				9005	A123053
			400 mm	7035	A113054
				9005	A123054

The 2-point-fixing shelves are supplied without fasteners. See p. 135.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Universal accessories

TELESCOPIC LAPTOP TRAY

The telescopic trays are specifically designed to hold laptop PCs or any other non 19" format hardware.
- 2-point fastening to the front of the tray.
- The 400 mm deep 2U plate is fitted with a 400 mm wide and 350 mm deep telescopic tray.
- Telescopic slide allows the tray to pull out by 290 mm.
- Made of painted steel.
- Permissible load: 10kg

RAL 7035 grey	1004003	RAL 9005 black	1204003

KEYBOARD AND MOUSE TRAY

Keyboard and mouse trays are designed to hold a keyboard and a mouse.
- 4-point fastening to the front and rear of the plate.
- 1U plate fitted with a mouse tray sliding sideways.
- Telescopic slide allows the tray to pull out by 330 mm.
- Made of painted steel.
Depth according to model.

Distance between 19" fastenings	Grey RAL 7035	RAL 9005 black
439 to 599 mm	1003335	1203335
599 to 759 mm	1006554	1206554

19" FIXED HOOK-ON RUNNERS
FOR CUTTING ⊡ 9.5

The universal hanging fixed rails are used to fit 19" hardware.
- Quick hanging to 9.5 mm square cut-outs on the rear uprights and screwed by cage nut to the front uprights.
- Distance between 19" fastenings: 400 to 800 mm.
- Made from galvanised steel.
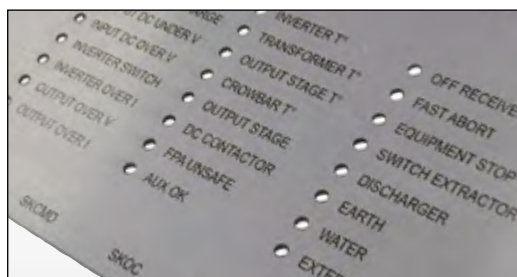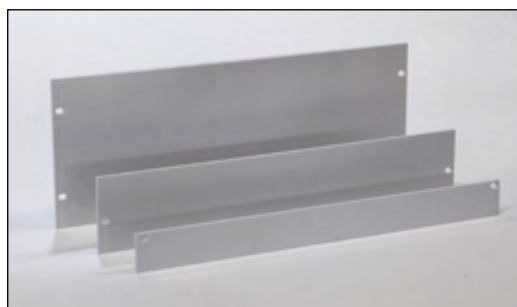- Delivered in kit form.
- Permissible load: 50 kg
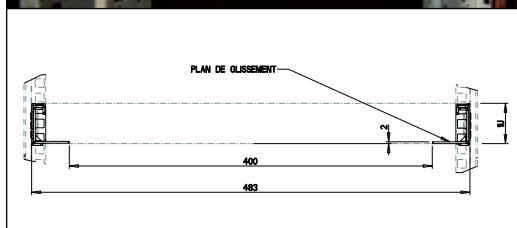
19" quick-hanging rails, 400 to 600 mm	1009666
19" quick-hanging rails, 600 to 800 mm	1009703

FIXING FOR RUNNER KIT
⊡ 9.5 CUT-OUT

Plate + M5 screws. Pack of 20	1006249

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

SCREW-IN SOLID FRONT BLANKING PANELS

As per DIN 41 494 standard. Provided without fastenings (see page 135).

Aluminium front panel:
- Material: Aluminium, thickness 4 mm.
- Finishings: - Natural, protected by a plastic film,
 - Brushed, with clear anodising.

To be specified in addition to the reference.

Steel front panel painted RAL 9005 Black or RAL 7035 Grey:
- Material: Steel.
- Finish: Smooth epoxy-polyester powder.

Hght.	aluminium	grey steel 7035	
1 U	**A110789**	**A112074**	**A122074**
1.5 U	-	**A112075**	**A122075**
2 U	**A110790**	**A112076**	**A122076**
3 U	**A110791**	**A410196**	**A420196**
4 U	**A110792**	**A410197**	**A420197**
5 U	**A110793**	**A410198**	**A420198**
6 U	**A110794**	**A410199**	**A420199**
7 U	**A110795**		
8 U	**A110796**		
9 U	**A110797**	-	-
10 U	**A110798**		
11 U	**A110799**		
12 U	**A110800**		

Other finishings and customisations (machining, screen printing, etc.) available, contact us.
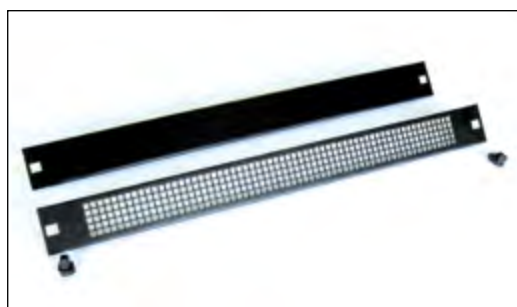
CLIP-ON ▢ 9.5 FRONT BLANKING PANELS

- Material: Steel.
- Finish: RAL 9005 Black paint
- Supplied with "Push / 1/4 turn" quick-release fixing.

1U perforated	1U solid	2U solid	3U solid	6U solid
1008585	**1008581**	**1008582**	**1008583**	**1008584**

19" CLIP-ON FRONT PANEL 1U

- Quick-release fixing 19" front panel without fasteners
- Fastening and positioning onto 9.5 mm squares.
- Unclipped by pressing the fastening tabs.
- Material: Black ABS, fire classification UL94-V0.

Each	Pack of 10	Pack of 20	Pack of 50
B117216	**1009761**	**1009762**	**1009763**

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EN 60-950
IEA 310-E
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CE

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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Universal accessories

CLIP-ON ⌷ 9.5 BREAK-OFF FRONT PANEL BLANKING PLATES.

3, 7 OR 21U BOARDS

- Material: Class M1 honeycomb polypropylene
- Finish: Black or printed with a "server" pattern.
- Front panels supplied with "Push / 1/4 turn" quick-release fixings (4 in 3U, 6 in 7U and 10 in 21U).

Additional "Push/¼ turn" quick-release fixings on page 135.

| Break-off board	3U	7U	21U
19" printed front panel	**1009674**	**1009676**	**1009659**
19" black front panel	**1009675**	**1009677**	**1009660**
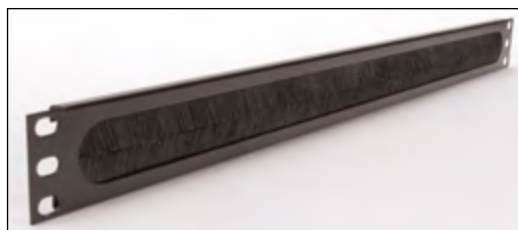
FRONT CABLE THROUGH DUCTING PANELS AND FRONT CABLE MANAGEMENT PANELS

- Material: Steel.
- Finish: RAL 7035 Grey or RAL 9005 Black paint.
- Provided without fastenings (see fastenings page 135).

Grommets

Height	Opening	No brushes	With brushes	
		RAL 7035 grey		**RAL 9005 black**
1 U	27 x 438	**1002962**	**1002960**	**1202960**
2 U	60 x 438	**1002963**	**1002961**	**1202961**
2 U/ 2 parts	60 x 438	**1002998**	**1002964**	-
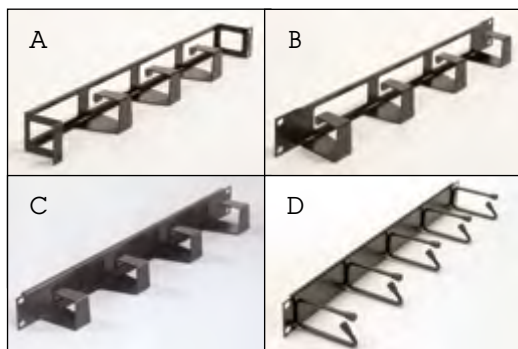
1U cable guide

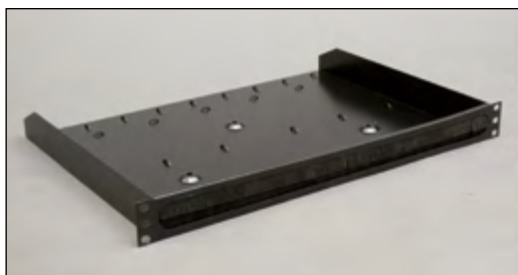| Model	RAL 7035 grey	RAL 9005 black
A - 3 folded rings 37 x 57 working, Setback 50	**A114342**	**A124342**
A - 4 folded rings 37 x 57* working, no Setback	**A114229**	**A124229**
C - 4 folded rings 37 x 57* working, no Setback + brushes	**A115495**	**A125495**
D - 5 wire rings 30 x 60* working	**A112298**	**A122298**

FRONT FACE WITH CLIP-ON CABLE GUIDE RINGS

- Screw-in front face compliant with standards DIN 41 494.
- Material: Steel.
- Finish: RAL 7035 Grey or RAL 9005 Black paint.
- Delivered pre-equipped with clip-on cable guide rings.

Fixing fasteners not supplied, see page 135.

Model	RAL 7035 grey	RAL 9005 black
Front face 1U 5 rings 82 x 36	**1011439**	**1011469**
Front face 2U 10 rings 82 x 36	**1011440**	**1011470**
Front face 2U 5 rings 80 x 87	**1011441**	**1011471**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

CABLE STORAGE FRONT PANEL

- To manage cord slack
- 1U front panel with brushes, RAL 9005 black painted steel.
- Rear plate, D.400 mm with cavities for anchoring cable ties.
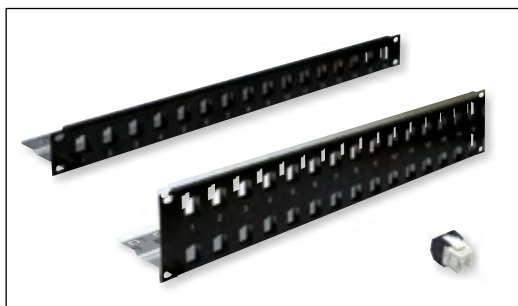
Supplied without fasteners (see page 135).

Cord storage front panel	1207127
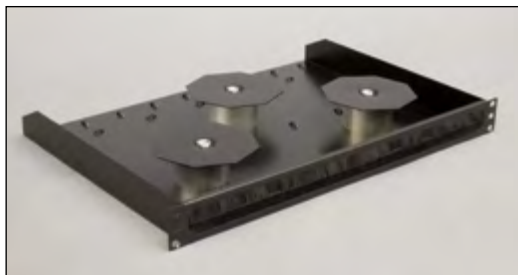
FIBRE STORAGE FRONT PANEL

- To manage fibre slack
- 19" 1U front panel with brushes, RAL 9005 black painted steel.
- Rear panel D.400 mm with three spools for fibre stowage.

Supplied without fasteners (see page 135).

| Fibre storage front panel	1207128

PATCH PANELS

Unfitted panel
- RAL 9005 black painted steel double-wall panel.
- Fitted with a fold-back to hold cables.
- All are designed to receive Keystone connectors (compatible with 3M Telecommunications).

Fitted panel
Same models as above, supplied with RJ45 connectors (not fitted).

Unfitted	
1U / 16 ports	**A610086**
1U / 24 ports	**A610087**
2U / 32 ports	**A610088**
2U / 48 ports	**A610089**

Equipped	RJ45 K5E Cat.5			RJ45 K6 Cat.6		
	9 pts shielded STP	9 pts non-shielded STP	8 pts UTP	9 pts shielded STP	9 pts non-shielded STP	8 pts UTP
1U / 16 ports	6000461	6000462	6000463	6000473	6000474	6000475
1U / 24 ports	6000464	6000465	6000466	6000476	6000477	6000478
2U / 32 ports	6000467	6000468	6000469	6000479	6000480	6000481
2U / 48 ports	6000470	6000471	6000472	6000482	6000483	6000484
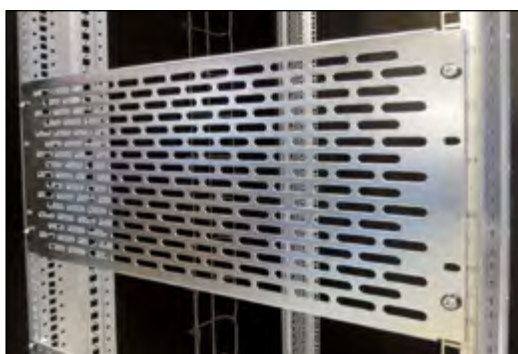
WIRING PLATE

Fastens as a front panel in 19".
The 8.4 x 30 oblongs are used to fix the equipment (see fasteners page 135).

Composition: 1 steel screen 2 mm thick, zinc-plated, white.
Delivery: 1 item

Height	6 U	9 U
19" wiring plate	**A410675**	**A410674**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Universal accessories

19" CABLE CLIPS

Composition:
1 single part for 19" fitting in galvanised steel.
See fasteners page 135.

1U cable tie with oblongs	**A111880**
2U cable tie with prints for collars	**1008826**

CABLE GUIDE RING

Mounts onto inside or outside uprights.
Composition:
1 ring + 2 flanges + M4 and M5 screws.

Steel wire ring, working passage 80 x 100 mm	**1009563**
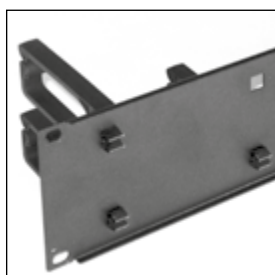
CLIP-ON CABLE GUIDE RING FOR CUT-OUT ⧄ 9.5

Clip-on ring in 9.5 mm square cut-outs
• Section 1U: 82 x 36 x 12
• Section 2U: 80 x 87 x 15
Is mounted on depthwise crossbars, wiring plate, inside uprights, etc.

Model	Pack of 10	Pack of 50	Pack of 100
1U	**1011433**	**1011435**	**1011437**
2U	**1011434**	**1011436**	**1011438**

TRUNKING

• PVC perforated trunkings with slide slopes and cover.
• Fixed directly to the uprights or using a set of 4 brackets.
• Composition: 1 trunking + fasteners

Part nos.

Standard trunkings		Zero halogen trunkings	
W30 x H42 x 2 m long	**1006090**	W30 x H60	**1011107**
W60 x H42 x 2 m long	**1006091**	W60 x H60	**1011108**
		W80 x H60	**1011110**
Set of four fixing brackets + fasteners			**1011111**

STEEL WIRE CABLE TRAYS

Delivered in pairs, except 3 m lengths (unit).

Part nos.

Dim.	24U (x2)	38U (x2)	42U (x2)	47U (x2)	3 m (x1)
100 x 30	**1006642**	**1011135**	**1003177**	**1008320**	**B018166**
200 x 30	-	-	**1008876**	**1009371**	**B017598**
300 x 30	-	-	**1009260**	**1009261**	**B018175**
200 x 54	**1006645**	**1011136**	**1003178**	**1008322**	**B016781**
300 x 54	-	-	**1009707**	**1009708**	**B017217**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

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3U PANEL, 19"
SUPPORTS FOR DIN MOUNTING CASES

Supplied without fasteners (see page 135).

| Model	Grey	Black
A - 3U panel, alone, 422 mm cut-out	A113304	A123304
A + B - 19" 3U support, 2 brackets, DIN rail, panel	1006333	1206333
A + C - 19" 3U support, single-piece, DIN rail, panel	1006334	1206334

DIN RAILS

Symmetrical DIN rails 35 x 15 mm in white zinc-plated steel.
2 profile models:
- 85 mm long, ideal for terminal board, thermostat, etc.
  Is fitted to inside or outside uprights with the fasteners supplied.
- 19" long, without fasteners (see page 135).

19" DIN rail	A112082
DIN rail 85 mm long	1003200
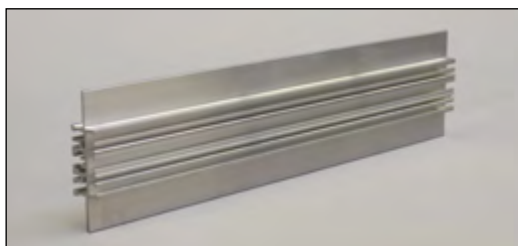
MAIN DISTRIBUTION FRAME COMPONENTS

HPUL profiles
Fastened:
- vertically to the internal uprights,
- as a main distribution frame, vertically with supports shown below,
- horizontally on 19" support

Composition: 1 profile cut to length + fastenings.

Height: 8U (355 mm) 22 module capacity	1003343
Height: 22U (975 mm) 60 modules capacity	1003344

Profile supports
For mounting HPUL or Europe profiles.

Set of 2 parts + fastenings for 19" assembly, with 145 mm recoil	1003047

## STRIPLIGHT 1U 19"

Composition:
- 1 LED panel T5 4W 320 Lumens 4000 K neutral white with On/Off switch.
- Fixing parts 1U 19" + fixing fasteners M6 for square cut-out 8.4 mm and 9.5 mm.
- 1 power cord 230V

Panel + cable 1.50 m + 2P mains plug	1010255
Spare panel	B118624

Wiring kit:
1 contact switch-striplight connecting lead

| Contact switch-striplight connecting lead	6000720

Universal accessories
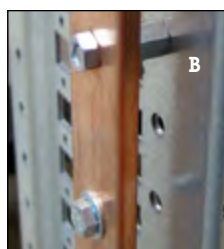
EARTHING BUS KITS

- Are fitted in 19" or vertically, depending on model.
- Delivery: 1 massive copper earthing bus + cabinet fixing + earth connection fasteners.

Part nos.

A - 19" assembly, 18 tappings M5				1005697

Vertical fitting	Ht./ Length	Section	Drill holes	Part no.
B - On spacers	40U/1800	25 x 5 mm	20 x M5/2U	1008796
C - On insulators	40U/1810	20 x 5 mm	40 x M6/1U	1009704
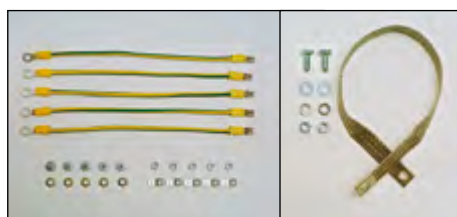
EARTHING KITS

Valid for cabinet or extension with or without doors.

6 mm2 braids for rack trim	
Pack of 5 green/yellow braids, 330 mm long, screws + nuts M5	1002566
Pack of 3 green/yellow braids, 330 mm long, screws + nuts M5 + fast-on	1006591
Pack of 5 green/yellow braids, 250 mm long, screws + nuts M5 + fast-on	1005696
General grounding kit, 25 mm2, length 500 mm	
1 flat braid + M8 fastenings	1005699

EARTHING TERMINAL BOARD

Earthing terminal board 6 x 35 mm, to be screwed to the cabinet frame.
Use in the context of standard NFC 15-100.

Terminal board	1008810

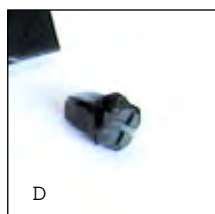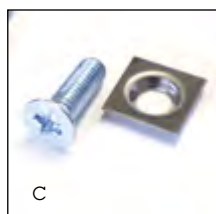## FRONT PANEL FASTENERS ⌀ 9.5 MM

Composition:
- Screw M6 + washer + nut.

Earth bonding nut

Model	Quantity	Part nos.
A - Cage nut, quick-fit, front	Pack of 50	1008615
B - Cage nut, rear	Pack of 50	1006228
C - Fixing for runner kit + screw M5	Pack of 20	1006249

QUICK RELEASE FIXING
PUSH-QUARTER TURN ⌀ 9.5 MM

Plastic fastener for front panels

D - Quick release fixing	Pack of 10	1009702

FRONT PANEL FASTENERS ⌀ 8.4 MM

Composition:
- Nickel-plated screws M6, print depending on model,
- Black or earth ABS washer, depending on model,
- RAPID cage nut M6.

Models	Split head		Cross head	
	Pack of 20	Pack of 50	Pack of 20	Pack of 50
E - Standard	1006098	1002562	1003394	1003097
F - For earth	1006099	1002867	1006100	1003098

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Universal accessories

PDU FOR MOUNTING HORIZONTAL 19"

Composition:
- 1 unit with 10/16 A 2 P+T sockets (see table below),
- 1.5 m or 2.5 m cord (3 x 1.5 mm^2) depending on model,
- 1 plug,
- Fasteners,
- Rack mounting fasteners.

Characteristics	Height	Material	Part no.
6 sockets	73 mm	plastic	**6000010**
6 sockets	1 U	aluminium	**6000386**
6 sockets + 16A circuit-breaker	1 U	aluminium	**6000368**
6 sockets + residual current circuit breaker 16 A 30 mA	1 U	aluminium	**6000376**
8 sockets with foolproofing	1.5 U	aluminium	**6000387**
8 sockets + Illuminated rocker switch	1 U	aluminium	**6000367**
8 sockets + Indicator light	1.5 U	aluminium	**6000427**
9 sockets	1 U	aluminium	**6000366**

STRIP FOR VERTICAL MOUNTING

Composition:
- 1 unit with 10/16 A 2 P+T sockets (see table below),
- 1.5 m or 2.5 m cord (3 x 1.5 mm^2) depending on model,
- 1 plug,
- Fasteners,
- Rack mounting fasteners.

Characteristics	cord	Material	Part no.
6 sockets	1.5 m	plastic	**6000037**
6 sockets + 16A circuit-breaker	2.5 m	plastic	**6000355**
12 sockets	2.5 m	aluminium	**6000038**
6 sockets	1.5 m	aluminium	**6000723**
6 sockets + 16A circuit-breaker	2.5 m	aluminium	**6000724**
6 sockets + residual current circuit breaker 16 A 30 mA		aluminium	**6000725**
8 sockets with foolproofing	2 m	aluminium	**6000726**
8 sockets + Illuminated rocker switch		aluminium	**6000727**
8 sockets + Indicator light	2 m	aluminium	**6000728**
9 sockets		aluminium	**6000729**
12 sockets + 16A circuit-breaker	1.5 m	aluminium	**6000356**
18 sockets	2.5 m	aluminium	**6000039**
24 sockets	2.5 m	aluminium	**6000040**

NB:
All these strips can be supplied with additional functions: switches, indicator lights, protective mechanisms, surge protectors, phone closing relays, RJ45 sockets, sub-D, etc. CONTACT US FOR DETAILS.

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References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Universal accessories

6000535

PDU IEC 320 UNITS WITH CIRCUIT BREAKER

Function:
- Power distribution units with outlets on jacks IEC 320 10 A (C13) or 16 A (C19)
- The Atos PDU range offers numerous possibilities:
- Direct supply to server sockets from the electrical installation, or by secondary units connected to primary units.
- Connection via socket IEC 309 (the mobile socket to be wired is supplied), by bare cable or on terminal board.
- Departure thermal protection, per group of sockets, according to model.
- All models are compatible with vertical mounting ("Zero U" mounting).

Characteristics:
- Very rigid galvanised steel cases.
- Distribution by welded bus or screw-in splitters.
- Very flexible industrial H07 RNF cables.

Composition:

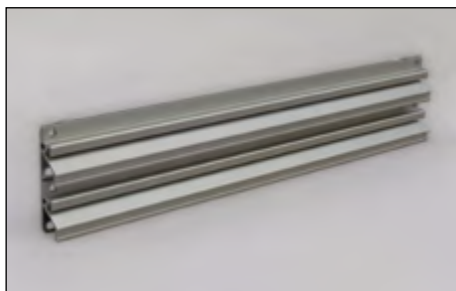| Part no.	Name	Dimensions	Capacity	Connection			Outlets					
				Plug C20	2.5 m cable + plug IEC309 32 A	Front terminal board	16A circuit breaker	10A circuit breaker	Socket C19	Socket C13	Socket 2 x C13	Socket 3 x C13
6000533	PDU 2x16A - 2xPlug C20 - 2x6C13 - Circuit breaker	19" 1U L.434 P.70	2x16A	2	-	-	-	4	-	-	-	4
6000534	PDU 16A - Plug C20 - 12C13 Circuit breaker	19" 1U L.434 P.110	16A	1	-	-	-	4	-	-	-	4
6000535	PDU 32A 309 2.5m - 12C13 - Circuit breaker	19" 1U L.434 P.110	32A	-	4 mm²	-	-	4	-	-	-	4
6000536	PDU 32A 309 2.5m - 8C13+2C19 - Circuit breaker	19" 1U L.434 P.110	32A	-	4 mm²	-	2	4	2	-	4	-
6000537	PDU 32A 309 2.5m - 2C13+4C19 - Circuit breaker	19" 1U L.434 P.110	32A	-	4 mm²	-	4	2	4	2	-	-
6000538	PDU 50A Terminal board - 2C13+4C19 - Circuit breaker	19" 1U L.434 P.110	50A	-	-	1	4	2	4	2	-	-
6000539	PDU-TRI 3x32A - 309 2.5m - 6C19 - Circuit breaker	19" 1U L.444 P.110	3x32A	-	4 mm²	-	6	-	6	-	-	-

6000557

PDU IEC 320 UNITS WITHOUT CIRCUIT BREAKER

Shallow models.
Same functions and characteristics as the units above.

Composition:

Part no.	Name	Appearance	Dimensions	Capacity	Connection			Outlets			
					4 m cable + unsheathed stripped	Cable + plug IEC320 16A	2.5 m cable + UTE plug, 2P+T	16A circuit breaker	10A circuit breaker	Socket C19	Socket C13
6000557	PDU 16A UTE 3m - 9C13	Black	19" 1U L.440 P.45	16A	-	-	1	-	-	-	9
6000558	PDU 16A C20 3m - 9C13	Black	19" 1U L.440 P.45	16A	-	1	-	-	-	-	9
6000559	PDU 16A C20 1m - 9C13	Black	19" 1U L.440 P.45	16A	-	1	-	-	-	-	9
6000540	PDU 20A 3G2.5 4m - 8C13	Grey	19" 1U L.434 P.51	20A	2.5 mm²	-	-	-	-	-	8
6000551	PDU 30A 3G4 4 mm - 8C13 - Display	Grey	19" 1U L.434 P.51	30A	4mm²	-	-	-	-	-	8
6000541	PDU 30A 3G4 4 mm - 8C13	Grey	19" 1U L.434 P.51	30A	4mm²	-	-	-	-	-	8
6000549	PDU 32A 3G4 4 mm - 4C19	Grey	19" 1U L.434 P.56	32A	4mm²	-	-	-	-	4	-
6000550	PDU 32A 3G4 4 mm - 4C19 - Display	Grey	19" 1U L.434 P.56	32A	4mm²	-	-	-	-	4	-

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Universal accessories

VENTILATION LOUVRES WITH 19″ FILTER
Composition:
- 2, 3 or 4 x 1U ventilation louvres,
- 1 interchangeable filter comprised of a filtering medium on galvanised steel wire frame,
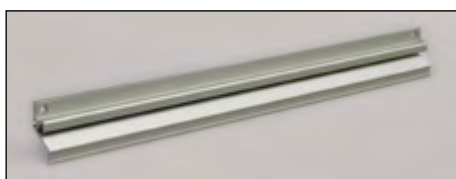- 4, 6 or 8 self-tapping screws to fit the filter to the louvres.

Material: Aluminium profile + filtering medium (Viledon medium).

Finish: Clear anodised.
Filter: Colour: white.
Delivery: Pre-assembled + fitted to rack.

Height	2 U	3 U	4 U
Louvre	**6000043**	**6000360**	**6000044**
Filter	**A610025**	**A610026**	**A610027**

VENTILATION SHUTTER 1U 19″
Material: Aluminium profile
Finish: Clear anodised.
Delivery: Pre-assembled + fitted to rack.
NB: Passage section = 1 dm^2.
For N x U louvres without filter, order this part no. N times.

19″ 1U ventilation louvre	**6000042**
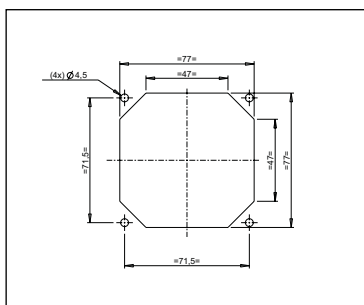
AXIAL FANS

Are fixed to the various chassis components.
Plan for machining of each component according to the fan chosen.
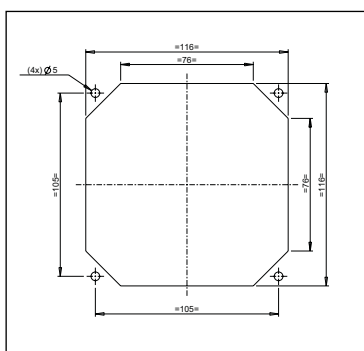
Characteristics	Small	Standard	Low noise	48 VDC
Dimensions	80 x 80 x 25	120 x 120 x 38 mm		
Voltage	230 VAC	230 VAC	230 VAC	48 VDC
Power	16 W	21 W	7.5 W	10 W
Free air flow	36 m^3/h	160 m^3/h	115 m^3/h	180 m^3/h
Noise level	32 dBA	45 dBA	32 dBA	43 dBA
1 fan	**B106592**	**B104053**	**B106398**	**B104740**
1 fan + fastenings + cords	**0000037**	**0000038**	**0000040**	**0000041**
Fitted/wired 2-fan assembly		**6000382**	**6000545**	**6000546**
Fitted, wired 4-fan assembly		**6000377**	**6000547**	**6000548**
Fitted, wired 6-fan assembly		**6000583**	**6000584**	**6000585**
Fitted, wired 9-fan assembly		**6000586**	**6000587**	**6000588**
2-fan kit + protective cover		**6000443**		
4-fan kit + protective cover		**6000444**		
6-fan kit + protective cover		**6000445**		

FINGER GUARD
Fastens directly onto the fan
Composition:
1 zinc-plated steel screen + fastenings.

Model	Part no.
Small 80 x 80 mm	**6000722**
Standard 120 x 120 mm	**6000033**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Universal accessories
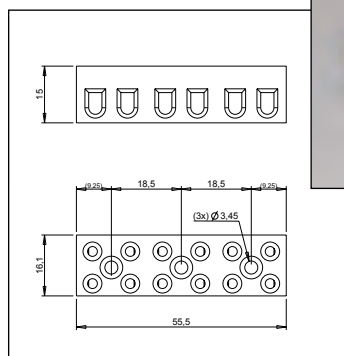
TERMINAL BOARD

For fan connection.
Is fixed to the various chassis components
(plan for machining on solid bottom).
Composition: 1 terminal board + fasteners.
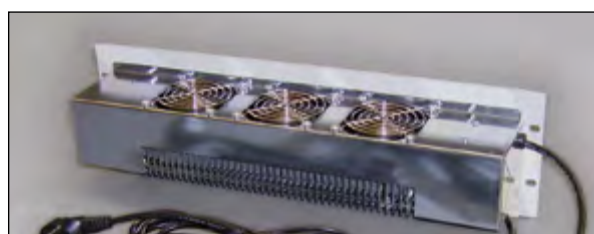
Part no.	0000039

POLYCARBONATE WIRING PROTECTION COVER

Protects the wiring on the terminal board.
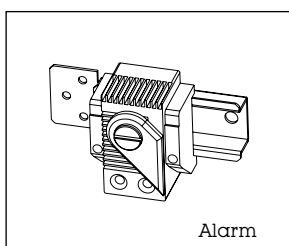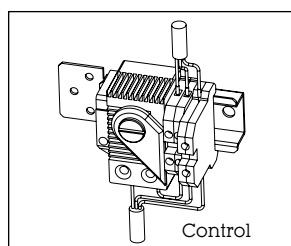For compliance with standard NFC 15-100
Composition: 1 cover + fastenings.

Part no.	6000433

HEATING ELEMENTS

- To keep a cabinet from freezing in unheated premises or to prevent condensation.
- Resistors equipped with fans for improved convection.
- Fixed directly to the outside uprights or inside uprights 19", depending on the model.
- Fitted with a 3 x 1 mm^2 cord, length 2 m with plug.

Heating elements		
80 x 80 x 50/150W	19"/3U/D.85/250W	19"/3U/D.85/600W
6000415	6000416	6000418

CONTROL

The control thermostat is used to operate the fans/heating elements as and when necessary. It also saves on power and limits filter clogging.
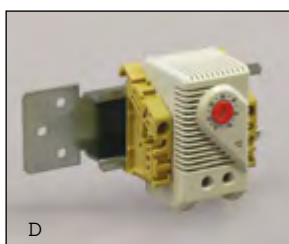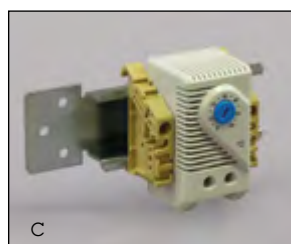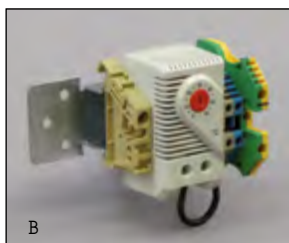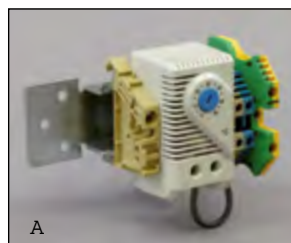
The alarm thermostat opens the loop when the setpoint is overrun.

Control

Alarm

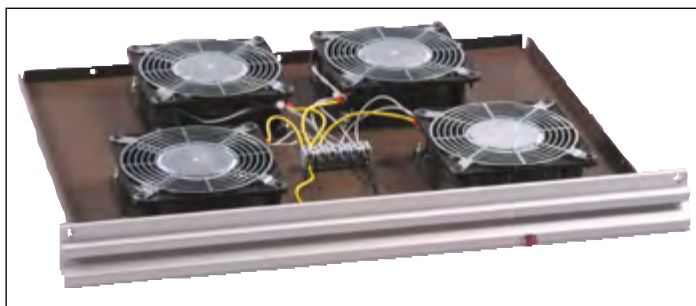## THERMOSTATS

Mount onto internal or external uprights.

Composition:
- 1 DIN rail,
- Thermostat + terminals for power supply, in the case of control thermostats, pre-wired to the contact.
- Capacitance switch 10 A at 250 VAC.

A

B

C

D

Control thermostat		Alarm thermostat	
A- ventilation	B- heater	C- low temp.*	D- high temp.*
6000388	6000389	6000390	6000391

* Dry contact: the circuit is open if the threshold is exceeded.

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Universal accessories

FAN TRAYS

Characteristics:
- 19" - 1U assembly,
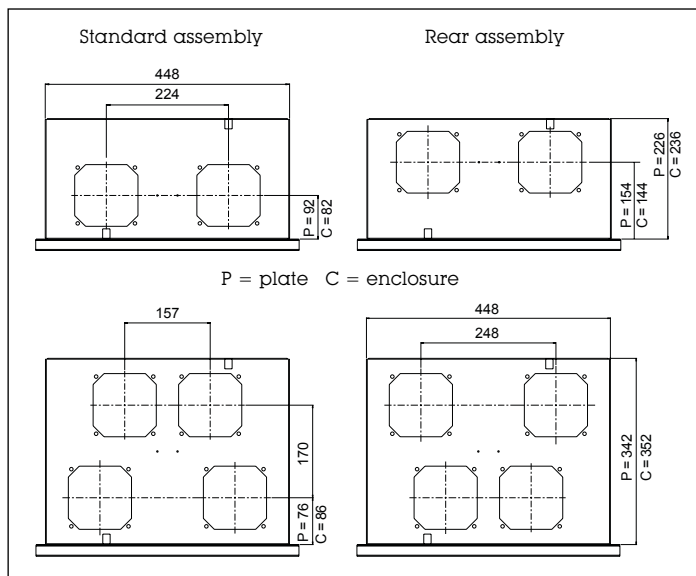- Fully wired,
- Fitted onto simple or adjustable rails.

Versions:
- 1 x 15/10^{ths} painted steel shelf,
- 2 or 4 axial fans with cords,
- 1 clear anodised aluminium profile,
- 1 on/off indicator light,
- 1 connection terminal board,
- 1 cord 2 m (3 x 1 mm^2) + plug,
- 4 or 8 finger guards.

Delivery:
Fully assembled.
Standard or rear assembly, to be specified when ordering.

Standard assembly / Rear assembly

P = plate   C = enclosure

Tray	2 fans	4 fans
Air flow	300 m^3/hour	600 m^3/hour
Depth	226 mm	342 mm
Finger guards	4	8
Part no.	**6000027**	**6000028**

FAN ENCLOSURES

Characteristics:
- 19" - 2U assembly,
- Fully wired,
- No-removal interchangeable filter,
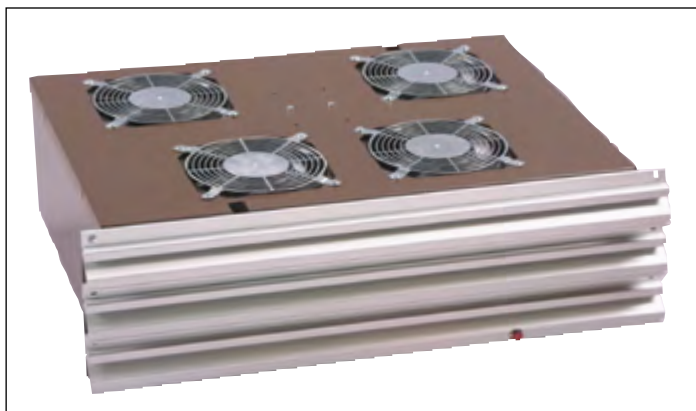- Fitted onto simple or adjustable rails.
- Front air intake.

Versions:
- 1 x 15/10^{ths} painted steel enclosure,
- 1 plate, 2 or 4 fans,
- 2 colourless anodised aluminium profiles,
- 1 on/off indicator light,
- 1 filter on galvanised steel wire frame,
- 2 or 4 finger guards.

Delivery:
- Fully assembled.
- Standard or rear assembly, to be specified when ordering.

Assembly note: *Supply is provided for standard assembly. When using rear fitting, spell this out on your order.*

Shell	2 fans/2U	4 fans/3U
Air flow	300 m^3/hour	600 m^3/hour
Depth	236 mm	352 mm
Part no.	**6000029**	**6000030**

Spare filter (unit)	**A610025**	**A610026**

COMPLIANT WITH STANDARDS
CEI 297
EN 60-950
IEA 310-E

CE

DESIGN & PRODUCTION IN FRANCE

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

![Atos logo]

Universal accessories

DOCUMENT HOLDER

- Impact-resistant plastic
- DIN A4 format
- Self-adhesive (can be fastened using M6 screws).

Part no.

Document holder	**B014949**

References in bold type: available immediately. Normal type: ask your salesperson for lead times.

Notes

Atos

The Art of enclosing electronics