

Product note

IS2 Series

Modular metal cabinets for automation and distribution

The range of IS2 cabinets in kits, is a complete offer of metal enclosures which can be placed both side-by-side and back-to-back, designed for making automation switchboards and command and controlgear for complex technological plants. The simplicity and rapidity of mounting the structure allow optimal management of space and warehouses, while the multi-purpose technical solutions, allow its use in all industrial applications. The kit version keeps all the technical, mechanical and electric characteristics of the mounted version. In fact, it is possible to build all the possible configurations, such as switchboards with back plate, switchboards for distribution, for applications with 19" rack frame, PC switchboards up to form 2 segregation and MCC with fixed drawers starting from the kit version as well.



Construction characteristics

These modular enclosures, allow electric switchboards installed on the floor to be made, guaranteeing maximum simplicity and rapidity of mounting and offering numerous customization possibilities based on the wide range of versions and accessories in the catalogue.

The H=100 mm plinth is always mounted on the structure to facilitate handling.

The version with single door covers widths 600-800-1000 mm, while the version with double door is available for W=1000-1200 mm.

The painting done using thermosetting powders, of grey orange peel RAL 7035 colour guarantees optimal results in terms of resistance to atmospheric agents, scratches and fingerprints.

The front door, hinged either on the right or left is fitted with a handle with key lock with four closing pointsable to provide IP65 degree of protection. The version with transparent door is fitted with screen-printed safety glass 4 mm thick which, apart from providing considerable structural rigidity, is pleasant to see and easily fits in with the various surroundings.

All the products in the range comply with the national and international standards in force, in particular with the CEI EN 61439-1 and 2 Standard, and have obtained UL approval. The mechanical impact rating is IK10 for the version with blind door and IK09 for the version with glass door.

Range

The IS2 range is available in the version with blind or transparent door, in the versions with single door or double doors, with internal cable compartments W=200 and 400 mm or external cable compartments

with W=300 mm. The 19" fixed and swing rack frame range is completed with cabinet with single compartments and for apparatus mounted on a DIN rail or on a plate.

Three different heights: 1800, 2000 and 2200 mm, five different depths: 400, 500, 600, 800 and 1000 mm in the following widths: 400, 600, 800, 1000 and 1200 mm are available.

The IS2 series is also available in the mounted versions.

The offer is completed with a series of accessories which go from ventilation, to air conditioning, voltage indicators and busbar systems.

Technical characteristics

Conformity with Standards CEI EN 62208, CEI EN 60439-1, IEC61439-1-2

Degree of protection IP65 (CEI EN 60529) - TYPE 12 (UL Standard)

Mechanical impact rating IK10 blind door
IK09 glass door
(IEC 62262)

Certifications



Type of material metal

Installation site indoor

Fixing method floor

Normal service conditions - ambient temperature from -5 to +40 °C

Atmospheric conditions - relative humidity 50% at 40 °C
90% at 20 °C

For further information, please consult the "General Catalogue. Switchboards for automation" technical catalogue (cod. 1STC804013D0902).

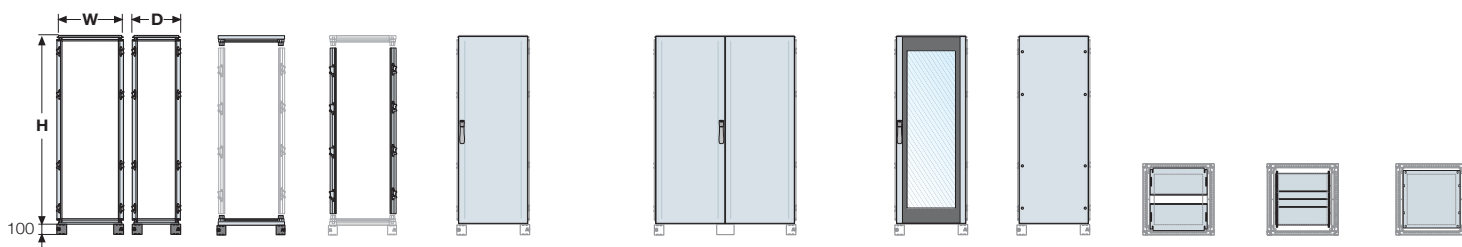
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Selection table

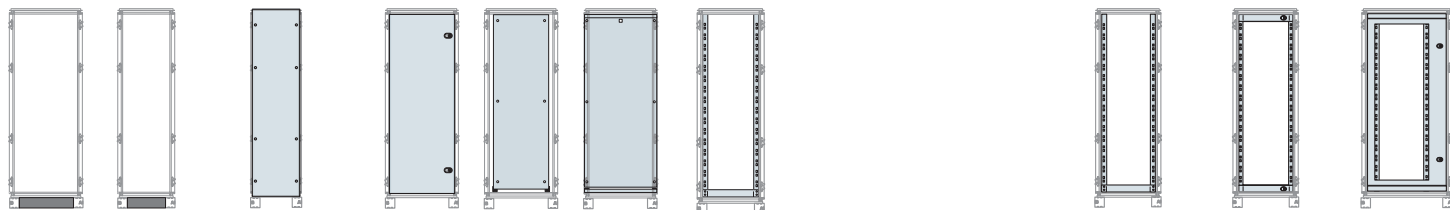


Overall external dimensions			Structure		Front or rear covers				Cable entry flanges		
H ⁽¹⁾ (mm)	W (mm)	D (mm)	Base/ Top/ Plinth	Uprights	Blind door IP65	Blind doors for double door version with overlapping closing ⁽¹⁾	Glass door IP65	Blind panel	Sliding	Fixed	Modular
1800	400	400	EK4040K	EM1800	EC1840K	-	-	EP1840K	EF4040	EF4042	EF4041
	600		EK6040K		EC1860K	-	ET1860K	EP1860K	EF6040	EF6043	EF6041
	800		EK8040K		EC1880K	ED1804SK+ EC1880VC4K	ET1880K	EP1880K	EF8040	EF8042	EF8041
	1000		EK1040K		EC1810K	ED1810SK+ EC1880FC5K	ET1810K	EP1811K	EF1040	EF1042	EF1041
	1200	EK1240K	-		ED1812SK+ EC1880FC6K	-	EP1812K	2xEF6040	2xEF6043	2xEF6041	
	400	500	EK4050K		EC1840K	-	-	EP1840K	EF4050	EF4052	EF4051
	600		EK6050K		EC1860K	-	ET1860K	EP1860K	EF6050	EF6052	EF6051
	800		EK8050K		EC1880K	ED1804SK+ EC1880VC4K	ET1880K	EP1880K	EF8050	EF8052	EF8051
	1000		EK1050K		EC1810K	ED1810SK+ EC1880FC5K	ET1810K	EP1811K	EF1053	EF1052	EF1051
	1200	EK1250K	-		ED1812SK+ EC1880FC6K	-	EP1812K	2xEF6051	2xEF6052	2xEF6051	
	400	600	EK4060K		EC1840K	-	-	EP1840K	EF4060	EF4063	EF4061
	600		EK6060K		EC1860K	-	ET1860K	EP1860K	EF6060	EF6062	EF6061
	800		EK8060K		EC1880K	ED1804SK+ EC1880VC4K	ET1880K	EP1880K	EF8060	EF8062	EF8061
	1000		EK1060K		EC1810K	ED1810SK+ EC1880FC5K	ET1810K	EP1811K	EF1060	EF1062	EF1061
	1200	EK1260K	-		ED1812SK+ EC1880FC6K	-	EP1812K	2xEF6060	2xEF6062	2xEF6061	
	400	800	EK4080K		EC1840K	-	-	EP1840K	EF4080	EF4082	EF4081
	600		EK6080K		EC1860K	-	ET1860K	EP1860K	EF6080	EF6082	EF6081
	800		EK8080K		EC1880K	ED1804SK+ EC1880VC4K	ET1880K	EP1880K	EF8080	EF8082	EF8081
	1000		EK1080K		EC1810K	ED1810SK+ EC1880FC5K	ET1810K	EP1811K	EF1080	EF1082	EF1081
	1200	EK1280K	-		ED1812SK+ EC1880FC6K	-	EP1812K	2xEF6080	2xEF6082	2xEF6081	
	400	1000	EK4010K		EC1840K	-	-	EP1840K	EF4010	EF4012	EF4011
	600		EK6010K		EC1860K	-	ET1860K	EP1860K	EF6010	EF6012	EF6011
	800		EK8010K		EC1880K	ED1804SK+ EC1880VC4K	ET1880K	EP1880K	EF8010	EF8012	EF8011
	1000		EK1010K		EC1810K	ED1810SK+ EC1880FC5K	ET1810K	EP1811K	EF1010	EF1012	EF1011
2000	400	400	EK4040K	EM2000	EC2040K	-	-	EP2041K	EF4040	EF4042	EF4041
	600		EK6040K		EC2060K	-	ET2060K	EP2060K	EF6040	EF6043	EF6041
	800		EK8040K		EC2080K	ED2004SK+ EC2080VC4K	ET2080K	EP2080K	EF8040	EF8042	EF8041
	1000		EK1040K		EC2012K	ED2010SK+ EC2080FC5K	ET2010K	EP2011K	EF1040	EF1042	EF1041
	1200	EK1240K	-		ED2012SK+ EC2080FC6K	-	EP2012K	2xEF6040	2xEF6043	2xEF6041	
	400	500	EK4050K		EC2040K	-	-	EP2041K	EF4050	EF4052	EF4051
	600		EK6050K		EC2060K	-	ET2060K	EP2060K	EF6050	EF6052	EF6051
	800		EK8050K		EC2080K	ED2004SK+ EC2080VC4K	ET2080K	EP2080K	EF8050	EF8052	EF8051
	1000		EK1050K		EC2012K	ED2010SK+ EC2080FC5K	ET2010K	EP2011K	EF1053	EF1052	EF1051
	1200	EK1250K	-		ED2012SK+ EC2080FC6K	-	EP2012K	2xEF6050	2xEF6052	2xEF6051	
	400	600	EK4060K		EC2040K	-	-	EP2041K	EF4060	EF4063	EF4061
	600		EK6060K		EC2060K	-	ET2060K	EP2060K	EF6060	EF6062	EF6061
	800		EK8060K		EC2080K	ED2004SK+ EC2080VC4K	ET2080K	EP2080K	EF8060	EF8062	EF8061
	1000		EK1060K		EC2012K	ED2010SK+ EC2080FC5K	ET2010K	EP2011K	EF1060	EF1062	EF1061
	1200	EK1260K	-		ED2012SK+ EC2080FC6K	-	EP2012K	2xEF6060	2xEF6062	2xEF6061	
	400	800	EK4080K		EC2040K	-	-	EP2041K	EF4080	EF4082	EF4081
	600		EK6080K		EC2060K	-	ET2060K	EP2060K	EF6080	EF6082	EF6081
	800		EK8080K		EC2080K	ED2004SK+ EC2080VC4K	ET2080K	EP2080K	EF8080	EF8082	EF8081
	1000		EK1080K		EC2012K	ED2010SK+ EC2080FC5K	ET2010K	EP2011K	EF1080	EF1082	EF1081
	1200	EK1280K	-		ED2012SK+ EC2080FC6K	-	EP2012K	2xEF6080	2xEF6082	2xEF6081	
	400	1000	EK4010K		EC2040K	-	-	EP2041K	EF4010	EF4012	EF4011
	600		EK6010K		EC2060K	-	ET2060K	EP2060K	EF6010	EF6012	EF6011
	800		EK8010K		EC2080K	ED2004SK+ EC2080VC4K	ET2080K	EP2080K	EF8010	EF8012	EF8011
	1000		EK1010K		EC1812K	ED2010SK+ EC2080FC5K	ET2010K	EP2010K	EF1010	EF1012	EF1011

⁽¹⁾ The useful height is always 100 mm less compared to the external dimensions of the switchboard; for the version with compartments the useful height is 200 mm less.

⁽¹⁾ Double doors also available with intermediate upright or glass doors + internal cable compartment W=200/400 mm.

⁽²⁾ Doors for side closing also available.



Plinth Uprights		Lateral covers	Components for automation			Components for distribution				19" rack frame ⁽⁵⁾		
Front/ rear	Side	Pair of blind panels ⁽²⁾	Counterdoor	Back plates		Uprights for DIN rail	N° vertical modules H=200mm	N° modules DIN per row	Total installable modules	Fixed Centred	Swing	
				Standard ⁽³⁾	Oversized + tracks ⁽⁴⁾						Centred W=600mm	Off-centre W=800mm
ZE4000	ZE4000	EL1840K		EA1841	EA1940	EH1800	8	24	192	EG1800	EG1801K	
ZE6000				EA1860	EA1960							
ZE8000				EA1880	EA1981							
ZE1000				EA1810	EA1910							
2xZE6000	ZE5000	EL1850K		EA1812	EA1912	EH1800	8	24	192	EG1800	EG1801K	
ZE4000				EA1841	EA1940							
ZE6000				EA1860	EA1960							
ZE8000				EA1880	EA1981							
ZE1000	EA1810	EA1910	EH1800	8	24	192	192	288	EG1800	EG1801K		
2xZE6000	EA1812	EA1912										
ZE4000	EA1841	EA1940										
ZE6000	EA1860	EA1960										
ZE8000	EA1880	EA1981	EH1800	8	24	192	192	288	EG1800	EG1801K		
ZE1000	EA1810	EA1910										
2xZE6000	EA1812	EA1912										
ZE4000	EA1841	EA1940										
ZE6000	ZE8000	EL1880K		EA1860	EA1960	EH1800	8	24	192	EG1800	EG1801K	
ZE8000				EA1880	EA1981							
ZE1000				EA1810	EA1910							
2xZE6000				EA1812	EA1912							
ZE4000	ZE1000	EL1810K		EA1841	EA1940	EH1800	8	24	192	EG1800	EG1801K	
ZE6000				EA1860	EA1960							
ZE8000				EA1880	EA1981							
ZE1000				EA1810	EA1910							
ZE4000	ZE4000	EL2040K		EA2040	EA2140	EH2000	9	24	216	EG2000	EG2001K	
ZE6000				EA2060	EA2161							
ZE8000				EA2080	EA2180							
ZE1000				EA2010	EA2110							
2xZE6000	ZE5000	EL2050K		EA2013	EA2112	EH2000	9	24	216	EG2000	EG2001K	
ZE4000				EA2040	EA2140							
ZE6000				EA2060	EA2161							
ZE8000				EA2080	EA2180							
ZE1000	EA2010	EA2110	EH2000	9	24	216	216	324	EG2000	EG2001K		
2xZE6000	EA2013	EA2112										
ZE4000	EA2040	EA2140										
ZE6000	EA2060	EA2161										
ZE8000	EA2080	EA2180	EH2000	9	24	216	216	324	EG2000	EG2001K		
ZE1000	EA2010	EA2110										
2xZE6000	EA2013	EA2112										
ZE4000	EA2040	EA2140										
ZE6000	ZE8000	EL2080K		EA2060	EA2161	EH2000	9	24	216	EG2000	EG2001K	
ZE8000				EA2080	EA2180							
ZE1000				EA2010	EA2110							
2xZE6000				EA2013	EA2112							
ZE4000	ZE1000	EL2012K		EA2040	EA2161	EH2000	9	24	216	EG2000	EG2001K	
ZE6000				EA2060	EA2180							
ZE8000				EA2080	EA2110							
ZE1000				EA2010	EA2112							

⁽³⁾ Standard plate joining Kit: EA1800 (H=1800 mm); EA2000 (H=2000 mm). Possibility of lateral insertion with tracks.

⁽⁴⁾ EA2113 oversized plate joining Kit H=1800/2000 mm.

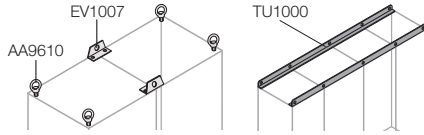
⁽⁵⁾ In the case of structures with internal cable compartment, select the correct rack frame which takes into account the 200/400 mm of cable compartment.

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Accessories

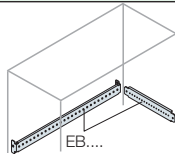
Brackets and lifting eyebolts



Code	Description
AA9610	N°4 M12 lifting eyebolts
EV1007	N°2 lifting reinforcements
TU1000	Pair of lifting beams for side-by-side switchboards

Crosspieces

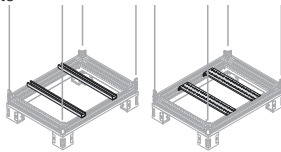
Multi-purpose crosspieces made of 20/10 thick galvanized sheet.



Code	Description	Dimensions mm (D)
H=48mm* H=100mm		
EB0400	EB0440 N°2 front/side crosspieces for accessories	400
EB0500	EB0550 N°2 front/side crosspieces for accessories	500
EB0600	EB0660 N°2 front/side crosspieces for accessories	600
EB0800	EB0880 N°2 front/side crosspieces for accessories	800
EB1000	EB1010 N°2 front/side crosspieces for accessories	1000
EB1200	EB1020 N°2 front/side crosspieces for accessories	1200

* Can also be used for mounting the partial back plate

⁽¹⁾ For structures W=1600 mm order 2 kits.

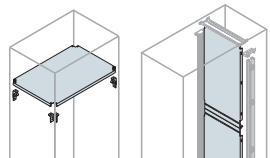


Crosspieces for transformers/heavy accessories

Code	Description	Dimensions mm (D)
30/10mm 20/10mm		
EB4100	N°2 crosspieces mounted depthwise	400
EB5100	N°2 crosspieces mounted depthwise	500
EB6102	N°2 crosspieces mounted depthwise	600
EB8102	N°2 crosspieces mounted depthwise	800
EB1102	N°2 crosspieces mounted depthwise	1000

Dividing panels

Horizontal



Width (mm)	Description	Depth (mm)
400 600 800 1000		
EE4041 EE6041 EE8041 EE1041	Fixed horizontal dividing panel	400
EE4051 EE6051 EE8051 EE1051	Fixed horizontal dividing panel	500
EE6061 EE8061 EE1061	Fixed horizontal dividing panel	600
EE8081 EE1081	Fixed horizontal dividing panel	800
EE1011	Fixed horizontal dividing panel	1000

Vertical

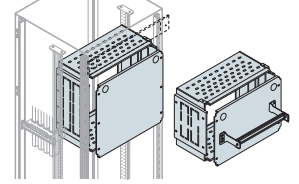
Depth (mm)	Description	Height (mm)
400 500 600 800 1000		
EE1841 EE1851 EE1861 EE1881 EE1811	Vertical dividing panel	1800
EE2041 EE2051 EE2061 EE2081 EE2011	Vertical dividing panel	2000

Various accessories

Code	Description
TA7100	Door position device
TA5510	Door anti-reclosing device

Configuration with compartments

Cubicle for compartments



H [mm]	W [mm]		Description
	600	800	
200	EH2066	EH2086	Cubicle with DIN rail, adjustable depthwise
	EH2060		Cubicle with withdrawable mounting plate
300	EH3060	EH3080	Cubicle with withdrawable mounting plate
400	EH4063	EH4080	Cubicle with withdrawable mounting plate
500	EH5060	EH5080	Cubicle with withdrawable mounting plate
600	EH6060	EH6080	Cubicle with withdrawable mounting plate
800	EH8060	EH8080	Cubicle with withdrawable mounting plate
1000	EH1060	EH1080	Cubicle with withdrawable mounting plate

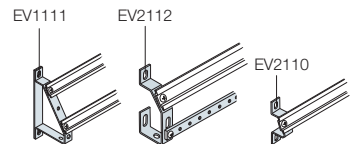
Panels for compartments

H [mm]	W [mm]		Description
	600	800	
100	EH6010K ⁽¹⁾	EH8010K ⁽¹⁾	N°2 compensation panels
		EH2087K	Front panel 29 DIN mod.
		EH7262K	Panel N°2 instruments 72x72 mm
200		EH7282K	Panel N°2 instruments 72x72 mm
		EH7284K	Panel N°4 instruments 72x72 mm
		EH2067K	Front panel 18 DIN mod.
300	EH3061K	EH3081K	Blind front panel
400	EH4061K	EH4081K	Blind front panel
500	EH5061K	EH5081K	Blind front panel
600	EH6061K	EH6083K	Blind front panel
800	EH8062K	EH8081K	Blind front panel
1000	EH1061K	EH1081K	Blind front panel

⁽¹⁾ Finishing items to be fixed at the two ends of the structure.

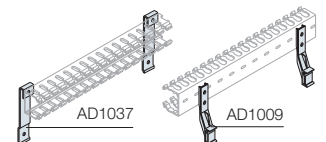
Supports for terminal boxes and earthing busbars

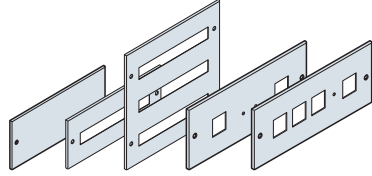
Code	Description
EV2110	N°10 angled supports 1 row of terminals
EV1111	N°10 angled supports double row of terminals
EV2112	N°10 angled supports 1 row of terminals + earth



Supports for horizontal wiring duct

Code	Description
AD1009	N°4 plastic supports for horizontal wiring duct
AD1037	N°4 metal supports for horizontal wiring duct (only for EH0018-EH0029)



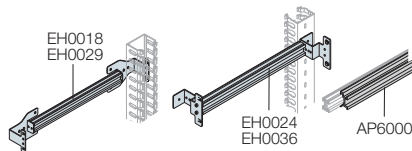


Panels for apparatus

Code		Dimensions mm (HxW)					
Blind	Modular				Instrument holder 72x72mm		
	18 mod.	29 mod.	24 mod.	36 mod.	2 holes	4 holes	
EH0562K							50x600
EH1062K							100x600
EH1562K	EH1518K		EH1524K				150x600
EH2062K	EH2018K		EH2024K		EH2272K	EH2472K	200x600
EH3063K	EH3018K*		EH6025K**				300x600
EH4062K							400x600
EH5062K							500x600
EH6062K	EH6018K**						600x600
EH0582K							50x800
EH1082K							100x800
EH1582K		EH1529K		EH1536K			150x800
EH2082K		EH2029K		EH2036K	EH3272K	EH3472K	200x800
EH3082K		EH3029K*					300x800
EH4082K							400x800
EH5082K							500x800
EH6082K		EH6029K**		EH6036K**			600x800
EH1889	N°10 hinges for panels						

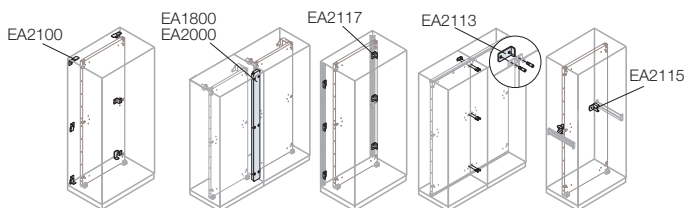
* Off-centre

** N° 3 DIN rows



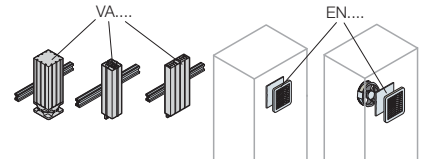
DIN rail Kit

Code	Description	Dimensions mm (W)
EH0018	DIN rail and fixing supports (18 mod. DIN)	600
EH0029	DIN rail and fixing supports (29 mod. DIN)	800
EH0024	DIN rail and fixing supports (24 mod. DIN)	600
EH0036	DIN rail and fixing supports (36 mod. DIN)	800
AP6000	Depth adapter for Tmax XT1-XT2-XT3	600



Accessories for mounting plate

Code	Description
EA2100	Kit for recessing standard mounting plate
EA2113	Oversized plate joining Kit
EA1800	Standard plate joining Kit H=1800 mm
EA2000	Standard plate joining Kit H=2000 mm
EA2117	N°6 intermediate reinforcements for fixing standard mounting plate
EA2115	Kit for fixing standard mounting plate in the middle



Ventilation

Heaters for IP20 electric switchboards

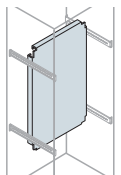
Code	Description	Dimensions mm (HxWxD)
VA7930	Anti-condensation heater 30W, 110-240 Vac-dc	115x42x42
VA7950	Anti-condensation heater 50W, 110-240 Vac-dc	165x42x42
VA7975	Anti-condensation heater 75W, 110-240 Vac-dc	210x42x42
VA7910	Anti-condensation heater 100W, 110-240 Vac-dc	165x42x48
VA7915	Anti-condensation heater 150W, 110-240 Vac-dc	130x82x48
VA8300	Anti-condensation heater with fan 30W, 230 Vac-dc	140x82x95

Natural aeration Kit (IP21 without filter, IP54 with filter)

Code	Description	Dimensions mm (WxL)
EN0105K	Grille+air passage filter Kit	105x105
EN0150K	Grille+air passage filter Kit	150x150
EN0204K	Grille+air passage filter Kit	204x204
EN0250K	Grille+air passage filter Kit	250x250
EN0325K	Grille+air passage filter Kit	325x325

Forced ventilation Kit 230Vac IP54

Code	Description	Consumption [W]	Capacity [m2/h]
EN1105K	Ventilation Kit 105x105 mm (WxL)	10	23
EN1150K	Ventilation Kit 150x150 mm (WxL)	20	57
EN1204K	Ventilation Kit 204x204mm (WxL)	23	120
EN1250K	Ventilation Kit 250x250mm (WxL)	59	240
EN2325K	Ventilation Kit 325x325mm (WxL)	59/72	520/580



Partial back plates

Galvanized back plates thickness 25/10, fixed on crosspieces H=48 mm

Code		Description	Dimensions mm (H)
W=600mm	W=800mm		
EA2062	EA2081	Partial back plate	200
EA3061	EA3081	Partial back plate	300
EA4061	EA4081	Partial back plate	400
EA5061	EA5081	Partial back plate	500
EA6061	EA6081	Partial back plate	600
EA8061	EA8081	Partial back plate	800
EA1061	EA1081	Partial back plate	1000

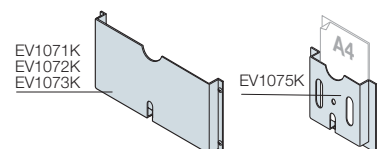
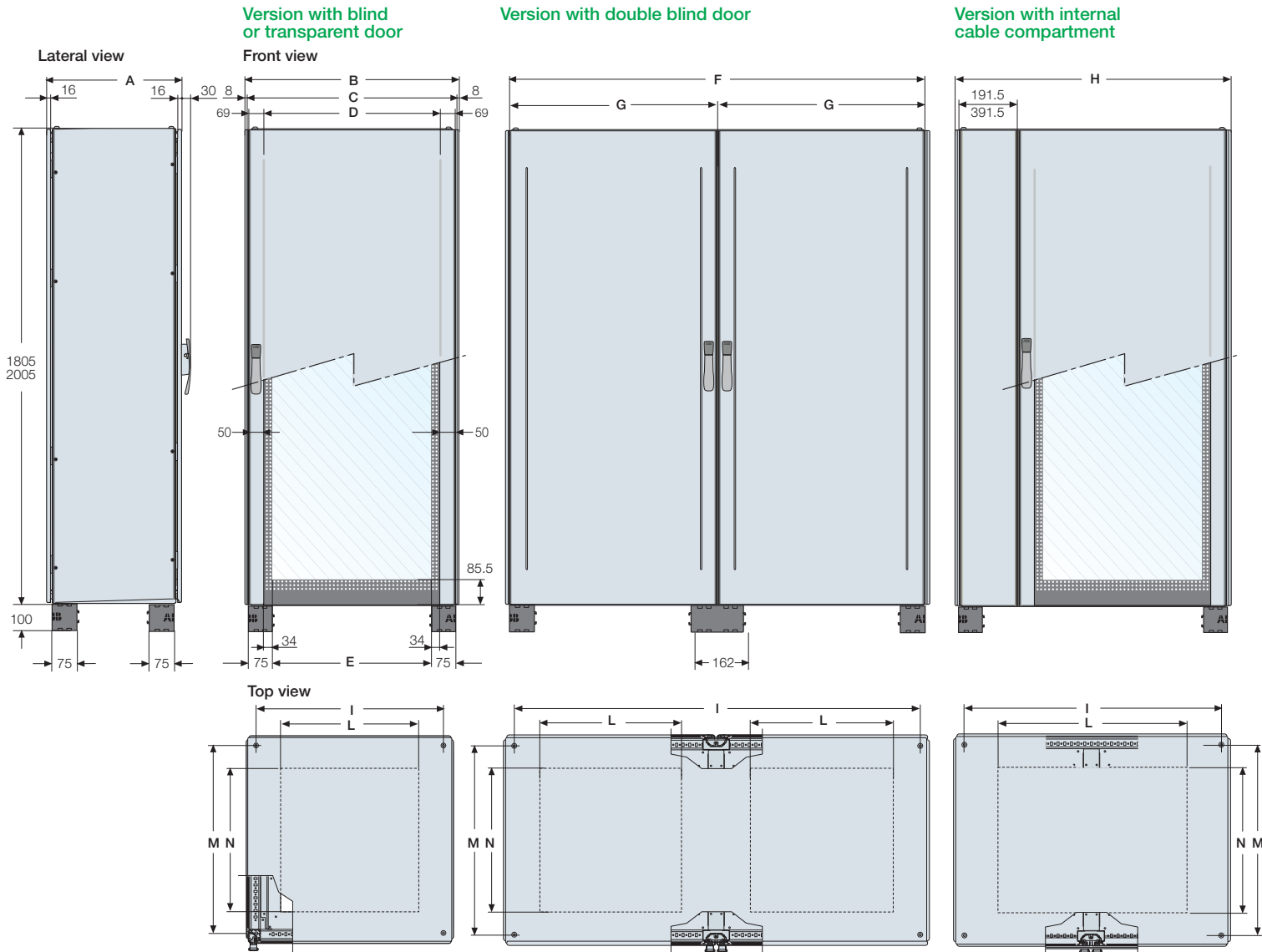


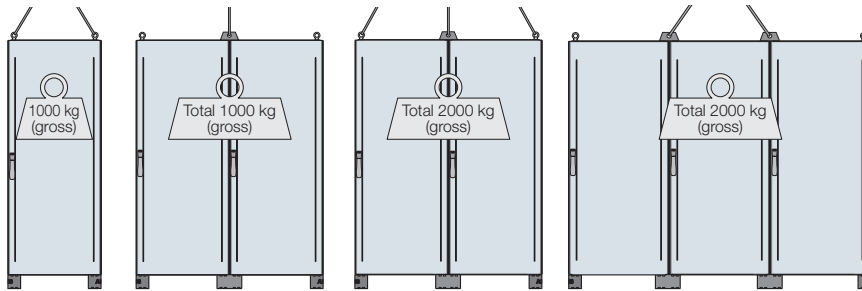
Diagram pockets RAL 7035

Code	Description
EV1071K	Metal diagram pockets for door W=600 mm
EV1072K	Metal diagram pockets for door W=800 mm
EV1073K	Metal diagram pockets for door W=1000 mm
EV1075K	Plastic diagram pockets for A4

Overall dimensions

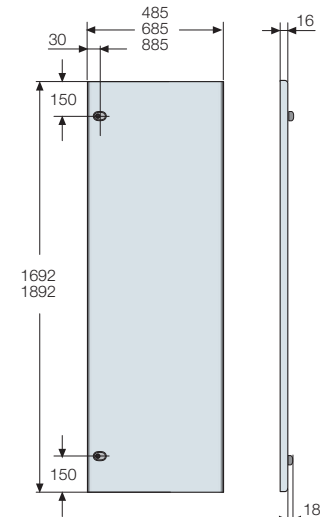


Maximum capacities



Number of columns	1	2	2	3
Weight of single column (Kg)	1000	500	1000	500/1000
Total weight of column (Kg)	1000	1000	2000	2000
Joining Kit	-	EV0002	EV0002	EV0002
	-	EV0003	EV0003	EV0003
	-	EV1030	EV1030	EV1030
Lifting kit	AA9610	EV1007	AA9610 + EV1007	EV1007
N° a 1 tie rods used	4	2	6	4

Internal counterdoor



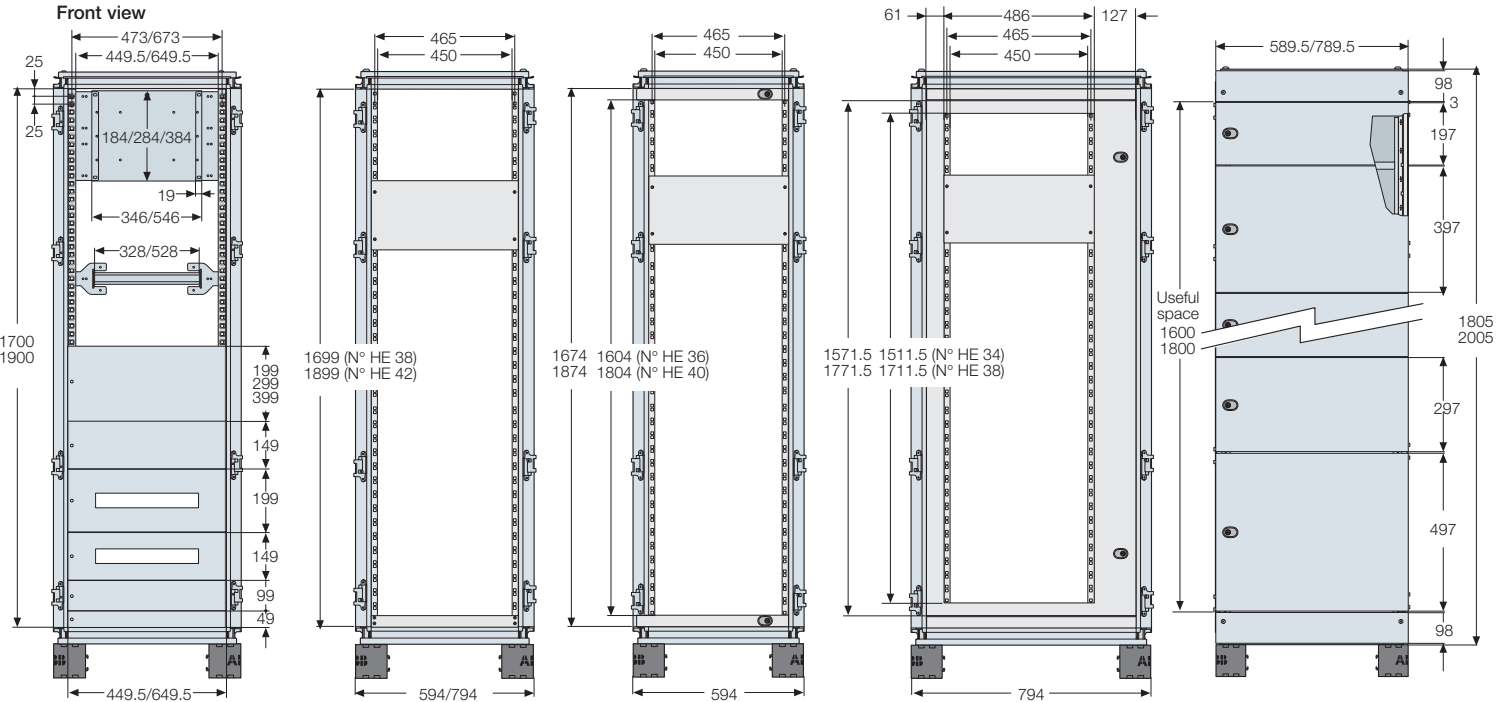
Version for modular apparatus

19" rack version
Fixed centred frame

Swing centred frame
W=600mm

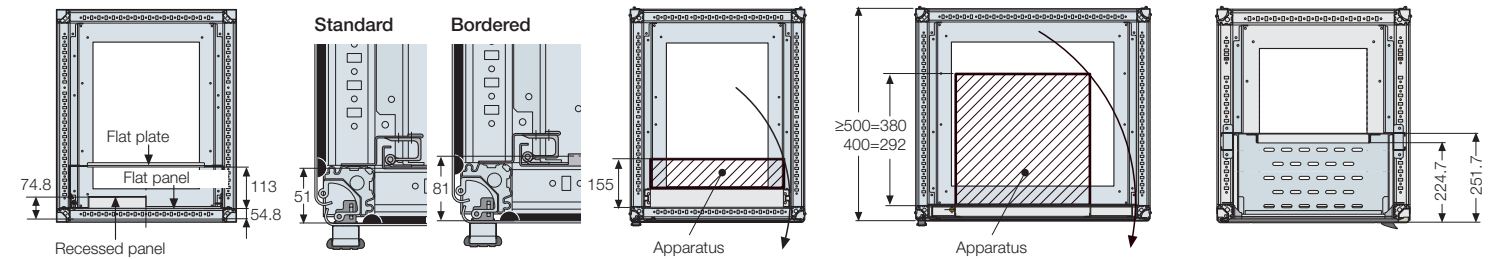
Swing frame W=800 mm

Version with compartments



Top view

Internal counterdoors
Standard Bordered

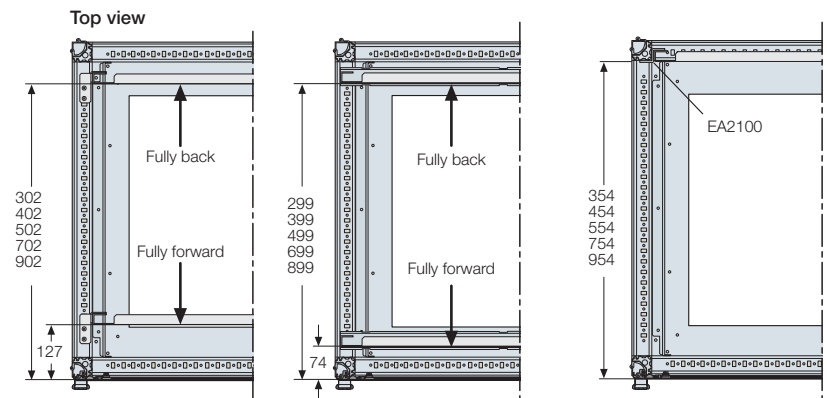


A	B	C	D	E	F	G	H	I	L	M	N
410										332	162
510										432	262
610	410	394	292					332	142	532	362
810										732	562
1010										932	762
410										332	162
510										432	262
610	610	594	492	422				532	342	532	362
810										732	562
1010										932	762
410										332	162
510										432	262
610	810	794	692	622			810	732	542	532	362
810										732	562
1010										932	762
410										332	162
510										432	262
610	1010	994	892	822	1010	394	1010	932	742	532	362
810										732	562
1010										932	762
410										332	162
510										432	262
610					1210	594	1210	1132	942	532	362
810										732	562
1010										932	762
410										332	162
510										432	262
620					1610	794		1532	1342	532	362
810										732	562

Standard plate position

Oversized plate position

Kit for recessing standard mounting plate



Contact us

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