



Company



Catalogue



ilinox

edigrapharma.it



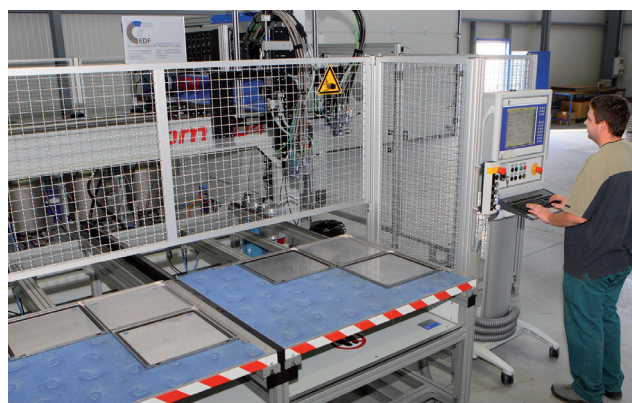
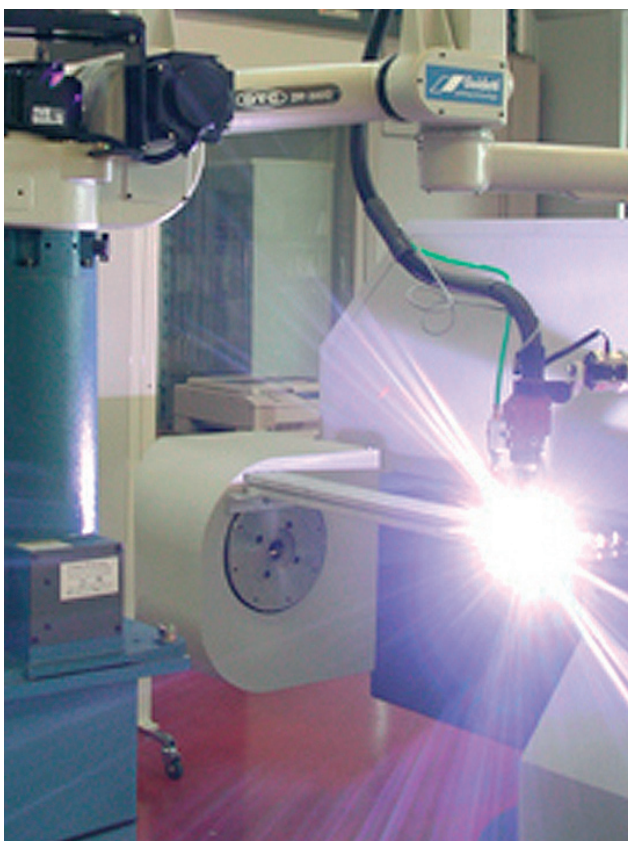
WHO ARE WE

Ilinox srl, established in 1983, is a leading manufacturer of stainless steel metal structural work for the electric sector.





Certified ISO9001 since 1995 by a leading international Body, i.e. the DNV, Ilinox srl has successfully built-up during these years, thanks to highly skilled personnel and the use of state-of-the-art technologies, a highly specialized production and sales structure, aimed at providing customers with first quality reliable services.





OUR PRODUCTS

We have the most comprehensive range available today on the market of stainless steel tight standard containers for electric, electronic, pneumatic and oleodynamic equipment. We have a rich stock of push-button panels, connection boxes, control boxes with hanging systems, compact, modular and computer cabinets. That is how we can assure fast deliveries while keeping constantly high quality standards.



THE ENGINEERING SERVICE

Even though a great number of products have been standardized, we have an engineering structure whose task is not only to study upgrading solutions for our mass production items, but also to provide our customer with valuable back-up service for tailored solutions to their specific problems

OUR SALES STRUCTURE

Our widespread sales network is an outstanding back-up for our customers. Our Sales Department in San Polo is always willing to cope with any technical and commercial requirements. You can reach us directly on the following numbers:

Telefono 0521-813629 r.a.
Telefax 0521-813570
e-mail: sales@ilinox.com

AGENTS FOR ITALY

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e-mail: giusepperivelli1@tin.it

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e-mail: venuti@bigpond.com

TESTS

All our products, before reaching the market, are carefully tested in order to check their holding (protection degree), the continuity of their earthing, and their structural resistance.

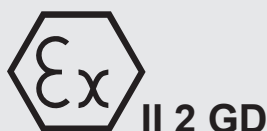


CERTIFICATIONS

Since 1995 Ilinox has been manufacturing under a Det Norske Veritas certified system updated since 2002 to the newly issued Directives ISO9001/2000.



CEI EN



This achievement is regarded more as a start than a finish line: all core products are in fact certified UL (Nema 4-4X and Nema 12). Even the products not covered by this certification undergo stringent tests by authorized bodies.

STAINLESS STEEL – SHORT HISTORICAL OUTLINE AND TECHNICAL CHARACTERISTICS

Stainless steel is a material which has begun to be used in quite recent times: indeed, only in 1912 two patents on austenitic stainless steels were deposited in Germany by the metallurgist Passel from Krupp –concerning the stainless steels containing 18 parts of chromium and 8 parts of nickel.

The following year, in Great Britain, the first industrial casting of martensitic steel with only chromium took place: the resulting products were blades for knives. Later on, steel began to be implemented in combustion engines, but the true diffusion of the use of stainless steel began toward the 20s and also today it is increasingly used in most advanced and particularly “demanding” sectors such as food, pharmaceutical, and petrochemical industries.

Stainless steels are iron-, chromium-, carbon-based alloys plus other elements such as nickel, molybdenum, manganese, silicon, titanium, etc., which make stainless steels particularly resistant to some kinds of corrosion. EN rule 1008 defines as “stainless steels” those iron alloys, which contain a percentage of chromium equal to or higher than 10,5%. The characteristic of great strength is due to the properties of these alloys to passivate in an adequately oxidising environment, such as the air, through the formation of a particular surface pellicle of absorbed oxygen. When these conditions are provided, stainless steel is passivated.

In the light of the above, it is important to highlight that the film of adhesive plastic, which covers the cases and the cabinets produced and supplied by ilinox – whose function is to protect the material during the various work cycles - does not allow steel to carry out the above-mentioned passivation process. Therefore, it is crucial that, after the wiring of cases and cabinets, this film be removed in order to let the air passivate the stainless steel surface. This operation must be carried out 2-3 days before installing the containers in the work environment, particularly if they are installed outdoors.

Abbreviation	X 5 C CrNi 1810	X 2 Cr NiMo 17-12-2
Material n°	1.4301	1.4404
AISI UNS (S.S.A.)	AISI 304	AISI 316L
	C max: 0,07	C max: 0,03
	Cr: 17:19,5	Cr: 16,5:18,5
Composition	Ni: 8:10,5	Ni: 10:13(d)
	Mo: /	Mo: 2:2,5
	Other elements: N<0,11	Other elements: N< 0.11
Mian properties	Good weldability corrosion strength, good moldability	Good weldability, corrosion strength
Typical appliances	Food sectors, dairy	chemical industry, building, building yard, Off-shore
Tensile strenght N/mm2	500/750	550/700
Yield point	220	250
Density	7,9	7,98
Elasticity modulus	200	200
Coeff. of thermal expansion at 20°C	16	16,57
Coeff. of thermal expansion at 100°C	18	18,5
Thermal conductivity at 20°C	15	15
Specific thermal capacity at 20°C	500	500
Electric resistance	0,73	0,73
Magnetization	NO	NO

MECHANICAL AND PHYSICAL PROPERTIES OF MAIN STAINLESS STEELS

Stainless steel features high stiffness. This characteristics, combined with chamfering, cabinet shaping and cold bends permits to obtain enclosures with low thickness hence lighter but sturdy.

An other important physical characteristic of stainless steel is the magnetic property. According to the quality and the different components in the structure, non-magnetizable steels and poorly magnetizable steels can be obtained. Austenitic steels are generally considered non magnetizable: these are the most widely used steels, alloyed with chromium and nickel, with capability for other alloy elements. Ferritic and martensitic steel, in contrast, are deemed lightly magnetic: these are steel whose main element is the chromium plus other additives. The content of carbon is limited to a 0.08% maximum. For better understanding, table 1 lists the characteristics of the most widely used steels.

CORROSION

Steel qualities are mainly considered according to their corrosion strength. Ilinox standard products are usually made of stainless steel 1.4301 (AISI 304) steel. Some products are available from stock also in stainless steel type 14404 (AISI 316L), a material which is used only on customer's request to meet special requirements. Table 2 shows the corrosion strength of steels when they come in contact with various products.

Austenitics at Cr-Ni-Mo of the type 316L

Acetylene (commercial)	●	●	Sodium chloride (not shaken)	●	●
Vinegar	●	●	zinc chloride	●	●
Acetone	●	●	sulphur chloride at boiling temperat.	●	●
Acetic acid	●	●	ether	●	●
Boric acid	●	●	formaldehyde	●	●
Butyric acid	●	●	ammonium phosphate	●	●
Hydrocyanic acid	●	●	sodium phosphate at all concentrations	●	●
Citric acid	●	●	furfuraldehyde 100% at boiling temperat.	●	●
Hydrochloric acid (all concentrations)	●	●	gas of humid chlorine	●	●
Chromic acid	○	○	cokery gas	○	○
Hydrofluoric acid (all concentrations)	○	○	Gelatine	●	●
Phosphoric acid	○	○	glycerol at all concentrations	●	●
Lactic acid	●	●	ethylene glycol	●	●
Acido linoleico	●	●	Glucose	●	●
Malic acid	●	●	Shellac	●	●
Muriatic acid (commercial)	●	●	ammonium hydroxide up to	●	●
Nitric acid up to	○	○	calcium hydroxide up to	●	●
Oleic acid	●	●	magnesium hydroxide up to	●	●
Oxalic acid	●	●	potassium hydroxide up to	●	●
Picric acid (all concentrations)	●	●	sodium hydroxide up to	●	●
Sulphydic acid 100% humid	●	●	calcium hypochlorite	○	○
(sulphur. hydrogen)	●	●	sodium hypochlorite up to	○	○
Sulphurated acid 5% boiling	●	●	milk (fresh or acid)	○	○
Fuming sulphuric acid (oleum)	○	○	Yeast	○	○
Sulphurous acid	●	●	mayonnaise	●	●
Tartaric acid	●	●	Molasses	●	●
Stearic acid	●	●	Mustard	●	●
Soft water	●	●	ammonium nitrate	●	●
Hydrogen dioxide	●	●	sodium nitrate	●	●
Turpentine	●	●	hot and cold mineral oils	●	●
Ethyl alcohol (all concentrations)	●	●	hot and cold vegetal oils	●	●
Methylic alcohol	●	●	hot and cold paraffin	●	●
Melted alluminium	●	●	sodium perborate	●	●
Ammonia 100% (dry)	○	○	hydrogen peroxide	●	●
Acetic anhydride	●	●	sodium peroxide	●	●
Carbon dioxide	●	●	melted lead	●	●
Sulphur dioxide	●	●	Propane	●	●
Aniline	○	○	Soap	●	●
Tanning bath	●	●	sugar syrup at all concentrations	●	●
Chrome plating bath	●	●	whey	●	●
Photographic fixing bath	●	●	sodium silicate up to 100%	●	●
Photographic developing bath	●	●	alluminium sulfate	●	●
Gasoline	●	●	ammonium sulfate	●	●
Hot cold benzol	●	●	ferric sulfate	●	●
Sodium bicarbonate (all concentra-	●	●	ferrous sulfate	●	●
tions)	●	●	magnesium sulfate	●	●
Bier	●	●	nickel sulfate	○	○
Sodium bisulfate	○	○	potassium sulphate	●	●
Carbon bisulphide	○	○	copper sulfate	●	●
Borax 5% hot	●	●	sodium sulfate	●	●
Butane	●	●	zinc sulfate	●	●
Hot coffee	●	●	sodium sulphide	●	●
Salutated chlorine water	●	●	concentrated orange juice	●	●
Camphore	○	○	concentrated lemon juice	●	●
Sodium carbonate 5% up to 65°C	●	●	carbon tetrachloride	○	○
Cold and hot sodium citrate	●	●	sodium tiosulphate 10-60% up to	●	●
Chloroform	●	●	Toluol	●	●
Ammonium chloride	●	●	trichlorethylene 100%	●	●
Ferric chloride	○	○	Varnishes	●	●
Ferrous chloride	○	○	Wine	●	●
Magnesium chloride up to 20%	○	○	Whisky	●	●
Quicksilver chloride	○	○	melted zinc	○	○
Nickel chloride	○	○	melted sulphur	○	○
Potassium chloride	○	○			

- Absence of corrosion in optimum conditions of use in contact with the substances of reference
- Possibility of corrosion where in contact with the substances of reference
- Corrosion in contact with the substances of reference
- Data non found

IP PROTECTION DEGREE

Table 3 shows the protection degree according to IEC rules 70-1 ed. 11/92: the degrees are identified by the acronym IP followed by two digits; the first digit indicates the degree of protection from dust, the second one from liquids. There is an alteration in the application of degrees 7 and 8 as for liquid penetration: as a matter of fact, not always do these degrees imply also suitability for the lower degrees (suitability which is derived from degree IPX4 downwards).

1 st Digit: PENETRATION OF SOLIDS		1 st Digit: PENETRATION OF LIQUIDS	
0	 Not protected	0	 Not protected
1	 Protected against solid bodies whose dim. are greater than 50mm Ø	1	 Protected against vertical fall of water drops
2	 Protected against solid bodies whose dim. are greater than 12mm Ø	2	 Protected against fall of water drops with maximum inclination equal to 15°
3	 Protected against solid bodies whose dim. are greater than 2,5mm Ø	3	 Protected against rain with maximum inclination equal to 60°
4	 Protected against solid bodies whose dim. are greater than 1mm Ø	4	 Protected against sprinkling of water
5	 Protected against dust	5	 Protected against water jets with hurling from all directions
6	 Totally protected against dust	6	 Protected against waves
		7	 Protected against the effects of immersion
		8	 Protected against the effects of extended immersion

index



cabinets _____



computer cabinets _____



lecterns _____



small cabinets _____



**suspension
systems** _____



**push-button
junction boxes** _____



srs system _____



conditioning _____



clamping screws _____



cable gland _____

cabinets

MC	CX	CC
16	30	38

Modular cabinets

MC

Monobloc cabinets

CX

Compact cabinets

CC

Accessories for cabinets





ACCESSORI MC

p. 26/29

ACCESSORIES FOR CABINETS

p. 46/61

• PARTITION BAFFLES



• REAR DOORS



• OVERDOOR PANELS

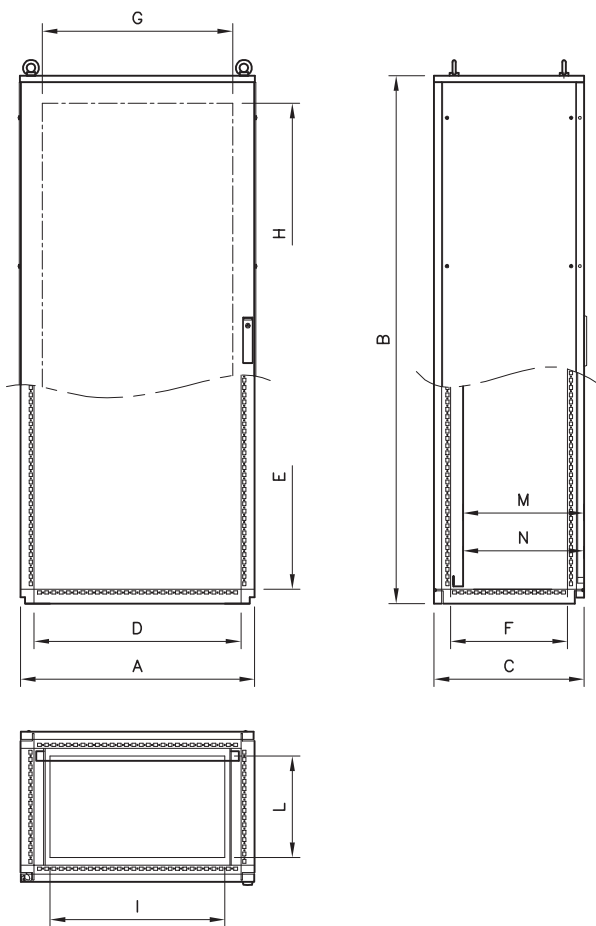


• SKIRTING



MODULAR CABINETS SERIES MC

- Material: s/s EN 1.4301 (AISI 304), finely satin-finished and protected, thickness 15/10 for side and back panels, thickness 20/10 for frame and door
- Frame: heavy-duty structure made from s/s section bars, with drills spaced 25mm for installation of accessories, if required.
- Front door, blind version or with glass (crash-proof 3+3 safety glass), with stiffening S/S frame, drilled, to support equipment and/or secure cableducts and accessories. On request the blind door can also be equipped with partial windows and different materials can be used (polycarbonate or aluminium for silk printing)
- Blind back panel, bolted, with sealing spacers (on request it can be replaced by a hinged door – see “Accessories for MC cabinets”).
- Side panels, removable and bolted, to be ordered separately (see “Accessories for MC cabinets”)
- Twin-comb door lock with outside faceplate of glass-loaded black polyamides, 4-point closing and BT. key. On request it can be replaced by other types of door locks (see “accessories for cabinets”)
- Fairlead plate with 3-part seal
- AISI 316 s/s inner hinges, for 120° opening as per CEI EN 60204-1 recommendations
- Maximum weight the door can stand: 30 kg
- Seal of foamed polyurethane, applied by robotized system
- Inner plate of sendzimir to be ordered separately (see “Accessories for MC cabinets”)
- Pre-arranged for earthing in compliance with the applicable laws force
- Protection degree: IP66 (modules L.1200 IP65)



Blind door version

Tested by
KEMA Quality Italy

IP66

EN 60 529



TYPE
NEMA

4X, 4, 12, 1

Standard UL508A - UL50
Standard 250

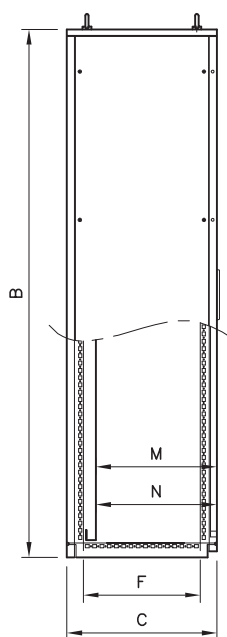
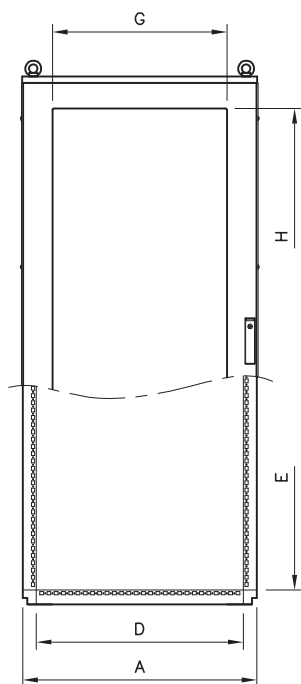


EN 60204-1
89/392/EEC

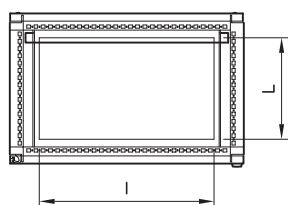
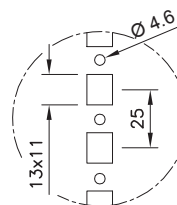
CABINET													OPTIONALS			
				frame inner side			door useful size		cable entry				INNER PLATE			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M**	N**	ITEM. *	X	Y	ITEM.
MC0685	605	1815	515	512	1712	402	455	1630	400	350	456	420	PA0717	497	1692	MC85
MC0686	605	1815	615	512	1712	502	455	1630	400	450	556	520	PA0517	497	1692	MC86
MC0688	605	1815	815	512	1712	702	455	1630	400	650	756	720	PA0517	497	1692	MC88
MC0885	805	1815	515	712	1712	402	655	1630	600	350	456	420	PA0717	697	1692	MC85
MC0886	805	1815	615	712	1712	502	655	1630	600	450	556	520	PA0717	697	1692	MC86
MC0888	805	1815	815	712	1712	702	655	1630	600	650	756	720	PA0717	697	1692	MC88
MC1085	1005	1815	515	912	1712	402	855	1630	800	350	456	420	PA0917	897	1692	MC85
MC1086	1005	1815	615	912	1712	502	855	1630	800	450	556	520	PA0917	897	1692	MC86
MC1088	1005	1815	815	912	1712	702	855	1630	800	650	756	720	PA0917	897	1692	MC88
MC0605	605	2015	515	512	1912	402	455	1830	400	350	456	420	PA0519	497	1892	MC05
MC0606	605	2015	615	512	1912	502	455	1830	400	450	556	520	PA0519	497	1892	MC06
MC0608	605	2015	815	512	1912	702	455	1830	400	650	756	720	PA0519	497	1892	MC08
MC0805	805	2015	515	712	1912	402	655	1830	600	350	456	420	PA0719	697	1892	MC05
MC0806	805	2015	615	712	1912	502	655	1830	600	450	556	520	PA0719	697	1892	MC06
MC0808	805	2015	815	712	1912	702	655	1830	600	650	756	720	PA0719	697	1892	MC08
MC1005	1005	2015	515	912	1912	402	855	1830	800	350	456	420	PA0919	897	1892	MC05
MC1006	1005	2015	615	912	1912	502	855	1830	800	450	556	520	PA0919	897	1892	MC06
MC1008	1005	2015	815	912	1912	702	855	1830	800	650	756	720	PA0919	897	1892	MC08

REMARK: Total width, side panels included: dim: "A" + 9 mm

**M Max. distance between door inside and inner plate, when fixing is by stirrups
**N Max. distance between door inside and inner plate, when fixing is by slides



Door with glass



Tested by
KEMA Quality Italy

IP66

EN 60 529



TYPE
NEMA **4X, 4, 12, 1**

Standard UL508A - UL50
Standard 250



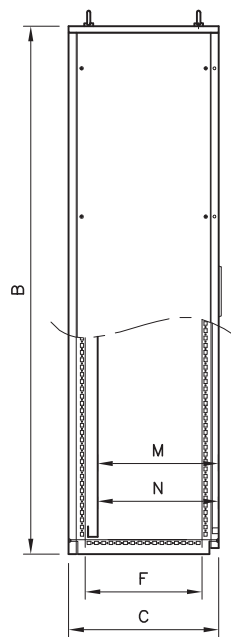
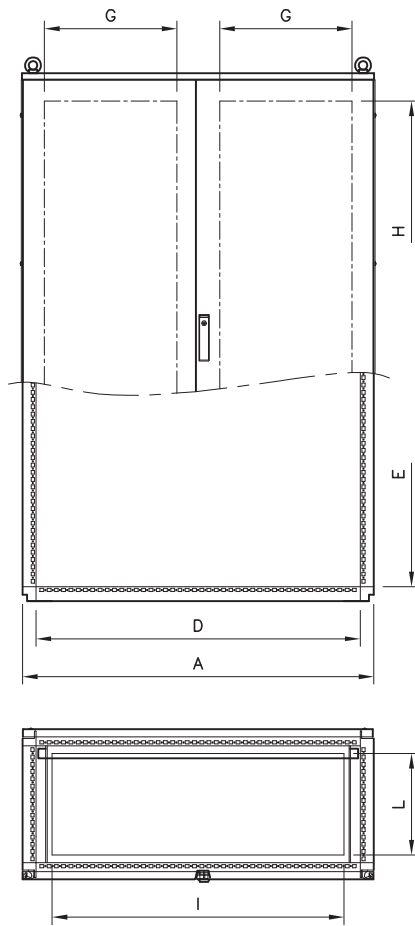
EN 60204-1
89/392/EEC

CABINET													OPTIONALS			
				Frame inner side			Visibile size		cable entry				INNER PLAGE			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M**	N**	ITEM. *	X	Y	ITEM.
MCV0685	605	1815	515	512	1712	402	400	1600	400	350	450	414	PA0517	497	1692	MC85
MCV0686	605	1815	615	512	1712	502	400	1600	400	450	550	514	PA0517	497	1692	MC86
MCV0688	605	1815	815	512	1712	702	400	1600	400	650	750	714	PA0517	497	1692	MC88
MCV0885	805	1815	515	712	1712	402	600	1600	600	350	450	414	PA0717	697	1692	MC85
MCV0886	805	1815	615	712	1712	502	600	1600	600	450	550	514	PA0717	697	1692	MC86
MCV0888	805	1815	815	712	1712	702	600	1600	600	650	750	714	PA0717	697	1692	MC88
MCV1085	1005	1815	515	912	1712	402	800	1600	800	350	450	414	PA0917	897	1692	MC85
MCV1086	1005	1815	615	912	1712	502	800	1600	800	450	550	514	PA0917	897	1692	MC86
MCV1088	1005	1815	815	912	1712	702	800	1600	800	650	750	714	PA0917	897	1692	MC88
MCV0605	605	2015	515	512	1912	402	400	1800	400	350	450	414	PA0519	497	1892	MC05
MCV0606	605	2015	615	512	1912	502	400	1800	400	450	550	514	PA0519	497	1892	MC06
MCV0608	605	2015	815	512	1912	702	400	1800	400	650	750	714	PA0519	497	1892	MC08
MCV0805	805	2015	515	712	1912	402	600	1800	600	350	450	414	PA0719	697	1892	MC05
MCV0806	805	2015	615	712	1912	502	600	1800	600	450	550	514	PA0719	697	1892	MC06
MCV0808	805	2015	815	712	1912	702	600	1800	600	650	750	714	PA0719	697	1892	MC08
MCV1005	1005	2015	515	912	1912	402	800	1800	800	350	450	414	PA0919	897	1892	MC05
MCV1006	1005	2015	615	912	1912	502	800	1800	800	450	550	514	PA0919	897	1892	MC06
MCV1008	1005	2015	815	912	1912	702	800	1800	800	650	750	714	PA0919	897	1892	MC08

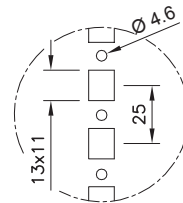
REMARK: Total width side panels included: dim: "A" + 9 mm



**M Max. distance between door inside and inner plate, when fixing is by stirrups
**N Max. distance between door inside and inner plate, when fixing is by slides

* see accessories on page 36



Blind door



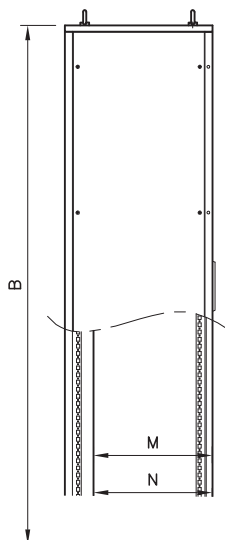
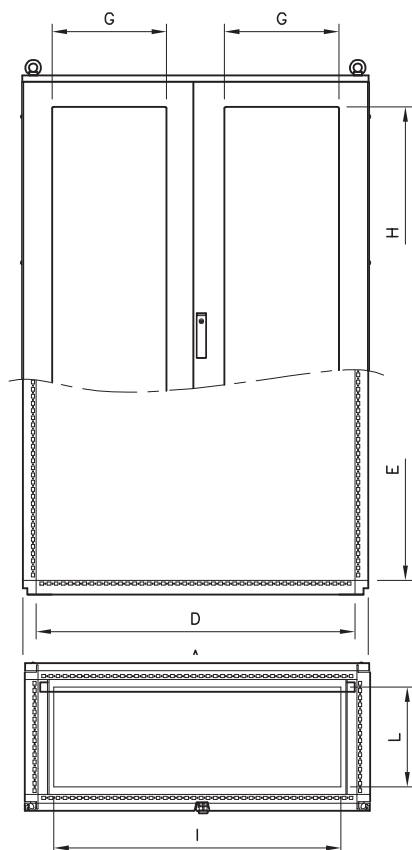
		IP65	EN 60 529
	TYPE NEMA	12, 1	Standard UL508A - UL50 Standard 250
			EN 60204-1 89/392/EEC
			

CABINET													OPTIONS			
				Frame inner size			Door useful size		Cable entry				INNER. PLATES			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M**	N**	ITEM. *	X	Y	ITEM.
MC1285	1208	1815	515	1115	1712	402	455	1630	1004	350	456	420	PA1117	1100	1692	MC85
MC1286	1208	1815	615	1115	1712	502	455	1630	1004	450	556	520	PA1117	1100	1692	MC86
MC1288	1208	1815	815	1115	1712	702	455	1630	1004	650	756	720	PA1117	1100	1692	MC88
MC1205	1208	2015	515	1115	1912	402	455	1830	1004	350	456	420	PA1119	1100	1892	MC05
MC1206	1208	2015	615	1115	1912	502	455	1830	1004	450	556	520	PA1119	1100	1892	MC06
MC1208	1208	2015	815	1115	1912	702	455	1830	1004	650	756	720	PA1119	1100	1892	MC08

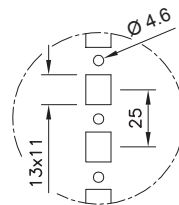
REMARK: Total width side panels included: dim: "A" + 9 mm

**M Max. distance between door inside and inner plate, when fixing is by stirrups
**N Max. distance between door inside and inner plate, when fixing is by slides

* see accessories on page 36



Door with glasss


IP65 EN 60 529

TYPE NEMA
12, 1

Standard UL508A - UL50
Standard 250

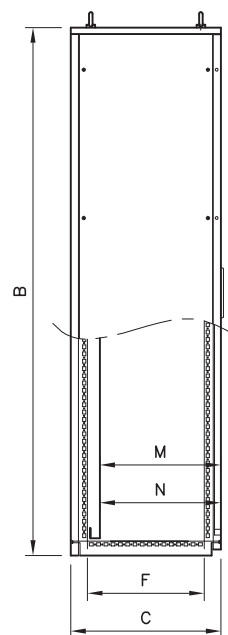
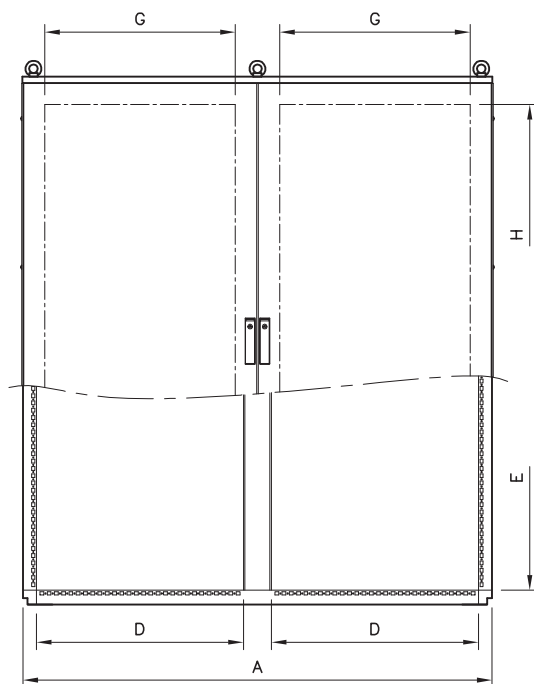
EN 60204-1
89/392/EEC

CABINET														OPTIONAL			
				Frame inner side			Visibile size		Cable entry		Remarks			INNER PLATES			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L		M**	N**	ITEM. *	X	Y	ITEM.
MCV1285SX	1208	1815	515	1115	1712	402	400	1600	1004	350	left door with glass	450	414	PA1117	1100	1692	MC85
MCV1285DX	1208	1815	515	1115	1712	402	400	1600	1004	350	right door with glass	450	414	PA1117	1100	1692	MC85
MCV1285	1208	1815	515	1115	1712	402	400	1600	1004	350	both doors with glass	450	414	PA1117	1100	1692	MC85
MCV1286SX	1208	1815	615	1115	1712	502	400	1600	1004	450	left door with glass	550	514	PA1117	1100	1692	MC86
MCV1286DX	1208	1815	615	1115	1712	502	400	1600	1004	450	right door with glass	550	514	PA1117	1100	1692	MC86
MCV1286	1208	1815	615	1115	1712	502	400	1600	1004	450	both doors with glass	550	514	PA1117	1100	1692	MC86
MCV1288SX	1208	1815	815	1115	1712	702	400	1600	1004	650	left door with glass	750	714	PA1117	1100	1692	MC88
MCV1288DX	1208	1815	815	1115	1712	702	400	1600	1004	650	right door with glass	750	714	PA1117	1100	1692	MC88
MCV1288	1208	1815	815	1115	1712	702	400	1600	1004	650	both doors with glass	750	714	PA1117	1100	1692	MC88
MCV1205SX	1208	2015	515	1115	1912	402	400	1800	1004	350	left door with glass	450	414	PA1119	1100	1892	MC05
MCV1205DX	1208	2015	515	1115	1912	402	400	1800	1004	350	right door with glass	450	414	PA1119	1100	1892	MC05
MCV1205	1208	2015	515	1115	1912	402	400	1800	1004	350	both doors with glass	450	414	PA1119	1100	1892	MC05
MCV1206SX	1208	2015	615	1115	1912	502	400	1800	1004	450	left door with glass	550	514	PA1119	1100	1892	MC06
MCV1206DX	1208	2015	615	1115	1912	502	400	1800	1004	450	right door with glass	550	514	PA1119	1100	1892	MC06
MCV1206	1208	2015	615	1115	1912	502	400	1800	1004	450	both doors with glass	550	514	PA1119	1100	1892	MC06
MCV1208SX	1208	2015	815	1115	1912	702	400	1800	1004	650	left door with glass	750	714	PA1119	1100	1892	MC08
MCV1208DX	1208	2015	815	1115	1912	702	400	1800	1004	650	right door with glass	750	714	PA1119	1100	1892	MC08
MCV1208	1208	2015	815	1115	1912	702	400	1800	1004	650	both doors with glass	750	714	PA1119	1100	1892	MC08

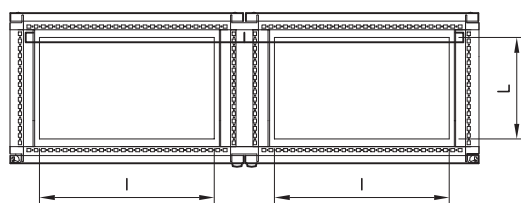
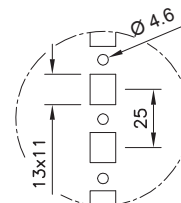
REMARK: Total width side panels included: dim: "A" + 9 mm

**M Distance max entre façade interne de la porte et plaque interne de fixation par étrier
**N Distance max entre interne porte et plaque interne en cas de fixation par glissières

* see accessories on page 36



Blind door



Tested by
KEMA Quality Italy

IP66

EN 60 529

UL[®] US
LISTED

TYPE
NEMA

4X, 4, 12, 1

Standard UL508A - UL50
Standard 250

CE

EN 60204-1
89/392/EEC

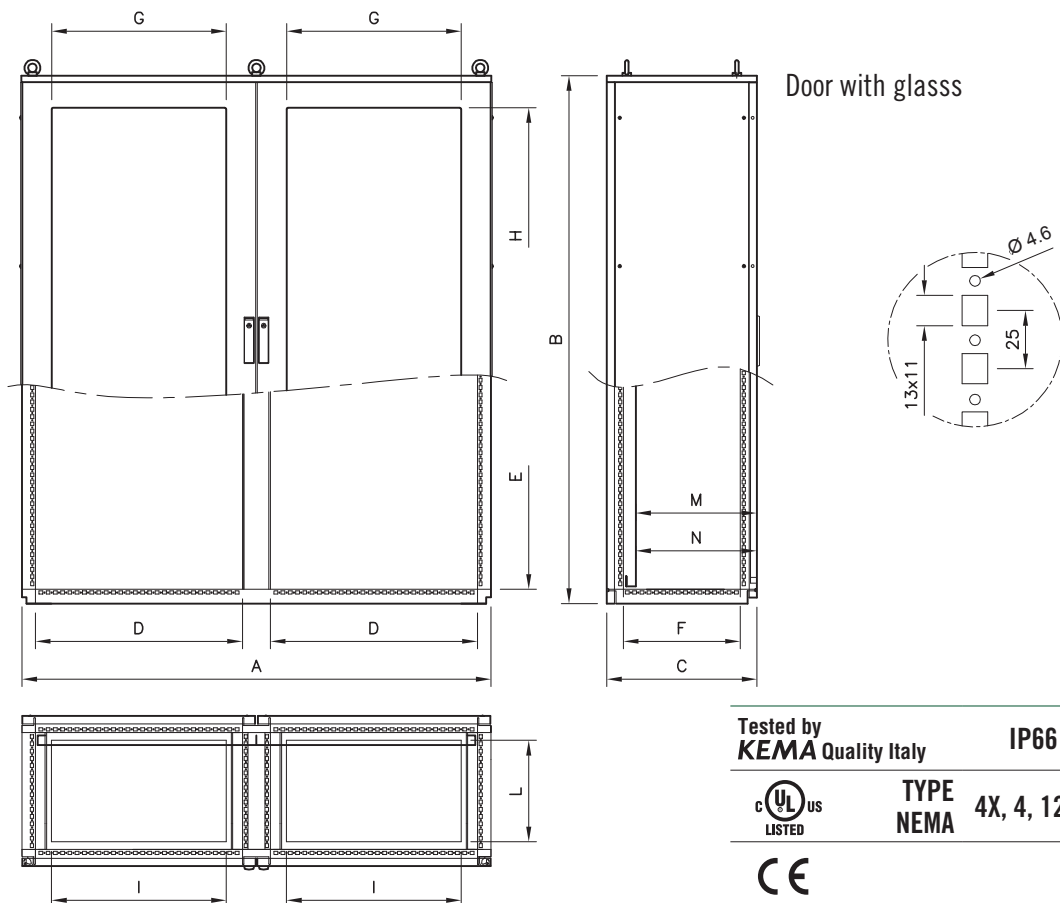
CABINET													OPTIONALS			
			Frame inner side			Door useful size		Cable entry					INNER PLATES			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M**	N**	ITEM.*	X	Y	ITEM.
MC1685	1613	1815	515	712	1712	402	655	1630	600	350	450	414	PA1517	1505	1692	MC85
MC1686	1613	1815	615	712	1712	502	655	1630	600	450	550	514	PA1517	1505	1692	MC86
MC1688	1613	1815	815	712	1712	702	655	1630	600	650	750	714	PA1517	1505	1692	MC88
MC1605	1613	2015	515	712	1912	402	655	1830	600	350	450	414	PA1519	1505	1892	MC05
MC1606	1613	2015	615	712	1912	502	655	1830	600	450	550	514	PA1519	1505	1892	MC06
MC1608	1613	2015	815	712	1912	702	655	1830	600	650	750	714	PA1519	1505	1892	MC08

REMARK: Total width side panels included: dim: "A" + 9 mm

**M Max. distance between door inside and inner plate, when fixing is by stirrups

**N Max. distance between door inside and inner plate, when fixing is by slides

* see accessories on page 36



Tested by
KEMA Quality Italy

IP66

EN 60 529



TYPE
NEMA

4X, 4, 12, 1

Standard UL508A - UL50
Standard 250



EN 60204-1
89/392/EEC

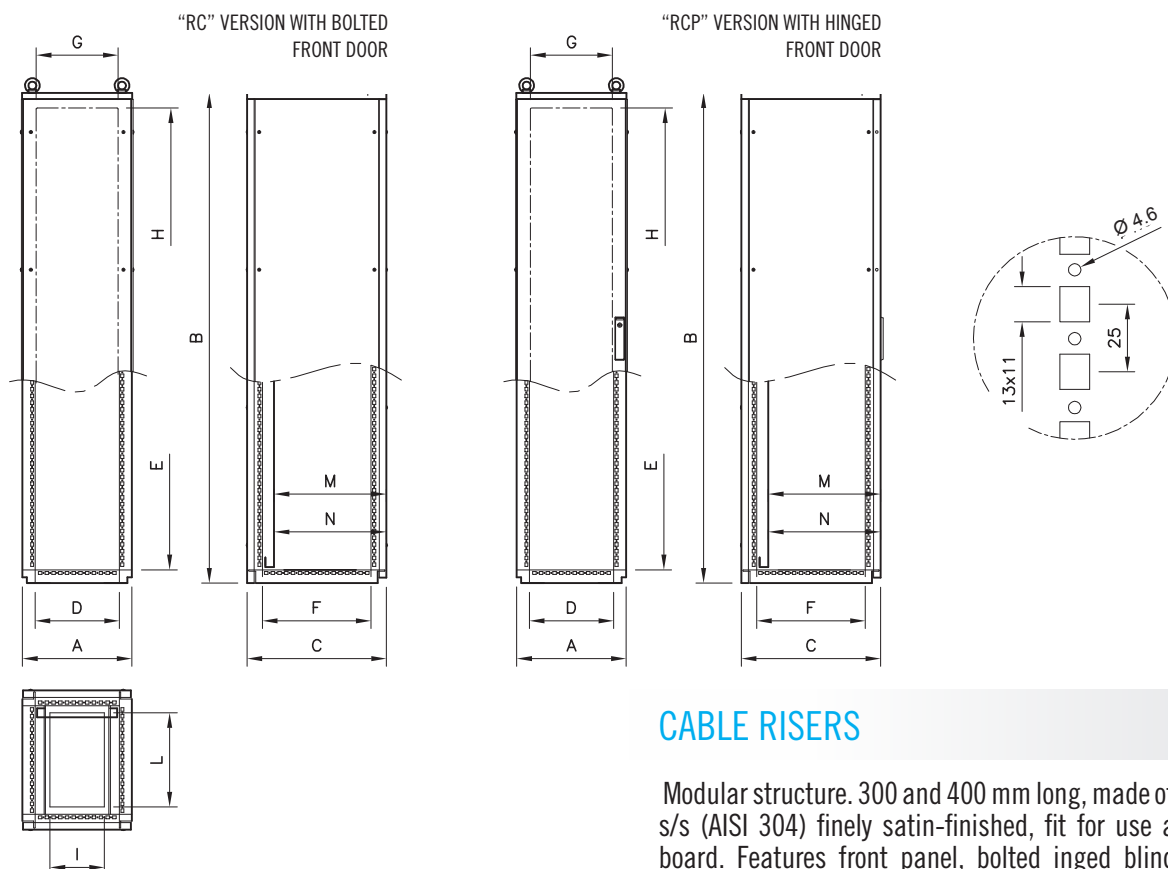
CABINET													OPTIONAL				
				Frame inner side			Visibile size		Cable entry				Remark	INNER PLATES			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M**	N**		ITEM. *	X	Y	ITEM.
MCV1685SX	1613	1815	515	712	1712	402	600	1600	600	350	450	414	left door with glass	PA1517	1505	1697	MC85
MCV1685DX	1613	1815	515	712	1712	402	600	1600	600	350	450	414	right door with glass	PA1517	1505	1697	MC85
MCV1685	1613	1815	515	712	1712	402	600	1600	600	350	450	414	both doors with glass	PA1517	1505	1697	MC85
MCV1686SX	1613	1815	615	712	1712	502	600	1600	600	450	550	514	left door with glass	PA1517	1505	1697	MC86
MCV1686DX	1613	1815	615	712	1712	502	600	1600	600	450	550	514	right door with glass	PA1517	1505	1697	MC86
MCV1686	1613	1815	615	712	1712	502	600	1600	600	450	550	514	both doors with glass	PA1517	1505	1697	MC86
MCV1688SX	1613	1815	815	712	1712	702	600	1600	600	650	750	714	left door with glass	PA1517	1505	1697	MC88
MCV1688DX	1613	1815	815	712	1712	702	600	1600	600	650	750	714	right door with glass	PA1517	1505	1697	MC88
MCV1688	1613	1815	815	712	1712	702	600	1600	600	650	750	714	both doors with glass	PA1517	1505	1697	MC88
MCV1605SX	1613	2015	515	712	1912	402	600	1800	600	350	450	414	left door with glass	PA1519	1505	1897	MC05
MCV1605DX	1613	2015	515	712	1912	402	600	1800	600	350	450	414	right door with glass	PA1519	1505	1897	MC05
MCV1605	1613	2015	515	712	1912	402	600	1800	600	350	450	414	both doors with glass	PA1519	1505	1897	MC05
MCV1606SX	1613	2015	615	712	1912	502	600	1800	600	450	550	514	left door with glass	PA1519	1505	1897	MC06
MCV1606DX	1613	2015	615	712	1912	502	600	1800	600	450	550	514	right door with glass	PA1519	1505	1897	MC06
MCV1606	1613	2015	615	712	1912	502	600	1800	600	450	550	514	both doors with glass	PA1519	1505	1897	MC06
MCV1608SX	1613	2015	815	712	1912	702	600	1800	600	650	750	714	left door with glass	PA1519	1505	1897	MC08
MCV1608DX	1613	2015	815	712	1912	702	600	1800	600	650	750	714	right door with glass	PA1519	1505	1897	MC08
MCV1608	1613	2015	815	712	1912	702	600	1800	600	650	750	714	both doors with glass	PA1519	1505	1897	MC08

REMARK: Total width side panels included: dim: "A" + 9 mm

**M Distance max entre face interne de la porte et plaque interne de fixation par étrier

**N Distance max entre interne porte et plaque interne en cas de fixation par glissières

* see accessories on page 36

Tested by
KEMA Quality Italy

IP66

EN 60 529

TYPE
NEMA 4X, 4, 12, 1Standard UL508A - UL50
Standard 250EN 60204-1
89/392/EEC

CABLE RISERS

Modular structure. 300 and 400 mm long, made of EN 1.4301 s/s (AISI 304) finely satin-finished, fit for use as terminal board. Features front panel, bolted inged blind door and back panel bolted and removable to guarantee accessibility on both sides. Prearranged to receive standard side panels, partition baffles and plinths h.100 and 200 mm. Available in 3 different depths and two heights, to match perfectly all types of modular cabinets. Protection degree: IP66.

CABINET													OPTIONAL			
				Frame inner size			Door useful size		Cable entry				INNER PLATES			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M**	N**	ITEM. *	X	Y	ITEM.
RC0385	305	1815	515	212	1712	402	203	1706	100	350	450	414	PA0217	197	1692	MC85
RC0386	305	1815	615	212	1712	502	203	1706	100	450	550	514	PA0217	197	1692	MC86
RC0388	305	1815	815	212	1712	702	203	1706	100	650	750	714	PA0217	197	1692	MC88
RC0305	305	2015	515	212	1912	402	203	1906	100	350	450	414	PA0219	197	1892	MC05
RC0306	305	2015	615	212	1912	502	203	1906	100	450	550	514	PA0219	197	1892	MC06
RC0308	305	2015	815	212	1912	702	203	1906	100	650	750	714	PA0219	197	1892	MC08
RC0485	405	1815	515	312	1712	402	303	1706	200	350	450	414	PA0317	297	1692	MC85
RC0486	405	1815	615	312	1712	502	303	1706	200	450	550	514	PA0317	297	1692	MC86
RC0488	405	1815	815	312	1712	702	303	1706	200	650	750	714	PA0317	297	1692	MC88
RC0405	405	2015	515	312	1912	402	303	1906	200	350	450	414	PA0319	297	1892	MC05
RC0406	405	2015	615	312	1912	502	303	1906	200	450	550	514	PA0319	297	1892	MC06
RC0408	405	2015	815	312	1912	702	303	1906	200	650	750	714	PA0319	297	1892	MC08
RCP0385	305	1815	515	212	1712	402	203	1706	100	350	450	414	PA0217	197	1692	MC85
RCP0386	305	1815	615	212	1712	502	203	1706	100	450	550	514	PA0217	197	1692	MC86
RCP0388	305	1815	815	212	1712	702	203	1706	100	650	750	714	PA0217	197	1692	MC88
RCP0305	305	2015	515	212	1912	402	203	1906	100	350	450	414	PA0219	197	1892	MC05
RCP0306	305	2015	615	212	1912	502	203	1906	100	450	550	514	PA0219	197	1892	MC06
RCP0308	305	2015	815	212	1912	702	203	1906	100	650	750	714	PA0219	197	1892	MC08
RCP0485	405	1815	515	312	1712	402	303	1706	200	350	450	414	PA0317	297	1692	MC85
RCP0486	405	1815	615	312	1712	502	303	1706	200	450	550	514	PA0317	297	1692	MC86
RCP0488	405	1815	815	312	1712	702	303	1706	200	650	750	714	PA0317	297	1692	MC88
RCP0405	405	2015	515	312	1912	402	303	1906	200	350	450	414	PA0319	297	1892	MC05
RCP0406	405	2015	615	312	1912	502	303	1906	200	450	550	514	PA0319	297	1892	MC06
RCP0408	405	2015	815	312	1912	702	303	1906	200	650	750	714	PA0319	297	1892	MC08

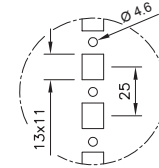
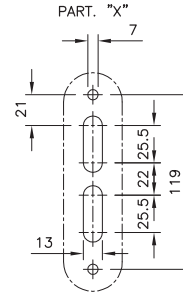
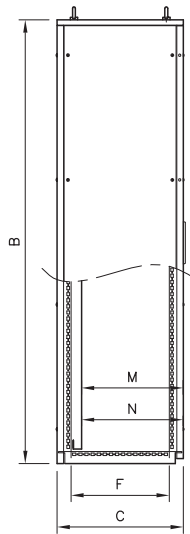
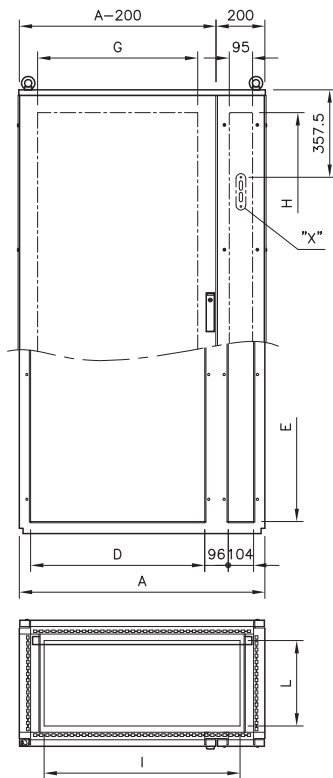
REMARK: Total width side panels included: dim: "A" + 9 mm

**M Max. distance between door inside and inner plate, when fixing is by stirrups
 **N Max. distance between door inside and inner plate, when fixing is by slides



MODULAR CABINET FOR DISCONNECTOR LOCK - MC.200F

Modular cabinets series MC can be ordered, up to width 1200, with a partial front door and a bolted front panel w200 mm, fixed with screws, with off-centre fixed upright. This version is suitable when a disconnector block has to be installed. The bolted front panel is pre-drilled



Tested by
KEMA Quality Italy

IP66

EN 60 529



TYPE
NEMA 4X, 4, 12, 1

Standard UL508A - UL50
Standard 250



EN 60204-1
89/392/EEC

CABINET												OPTIONALS				
ITEM.	A	B	C	Frame inner size			Door useful size		Cable entry		M**	N**	INNER PLATES			SIDE PANELS
				D	E	F	G	H	I	L			ITEM. *	X	Y	
MC0685.200F	605	1815	515	312	1712	402	255	1630	400	350	456	420	PA0517	497	1692	MC85
MC0686.200F	605	1815	615	312	1712	502	255	1630	400	450	556	520	PA0517	497	1692	MC86
MC0688.200F	605	1815	815	312	1712	702	255	1630	400	650	756	720	PA0517	497	1692	MC88
MC0885.200F	805	1815	515	512	1712	402	455	1630	600	350	456	420	PA0717	697	1692	MC85
MC0886.200F	805	1815	615	512	1712	502	455	1630	600	450	556	520	PA0717	697	1692	MC86
MC0888.200F	805	1815	815	512	1712	702	455	1630	600	650	756	720	PA0717	697	1692	MC88
MC1085.200F	1005	1815	515	712	1712	402	655	1630	800	350	456	420	PA0917	897	1692	MC85
MC1086.200F	1005	1815	615	712	1712	502	655	1630	800	450	556	520	PA0917	897	1692	MC86
MC1088.200F	1005	1815	815	712	1712	702	655	1630	800	650	756	720	PA0917	897	1692	MC88
MC1285.200F	1208	1815	515	915	1712	402	855	1630	1004	350	456	420	PA1117	1100	1692	MC85
MC1286.200F	1208	1815	615	915	1712	502	855	1630	1004	450	556	520	PA1117	1100	1692	MC86
MC1288.200F	1208	1815	815	915	1712	702	855	1630	1004	650	756	720	PA1117	1100	1692	MC88
MC0605.200F	605	2015	515	312	1912	402	255	1830	400	350	456	420	PA0519	497	1892	MC05
MC0606.200F	605	2015	615	312	1912	502	255	1830	400	450	556	520	PA0519	497	1892	MC06
MC0608.200F	605	2015	815	312	1912	702	255	1830	400	650	756	720	PA0519	497	1892	MC08
MC0805.200F	805	2015	515	512	1912	402	455	1830	600	350	456	420	PA0719	697	1892	MC05
MC0806.200F	805	2015	615	512	1912	502	455	1830	600	450	556	520	PA0719	697	1892	MC06
MC0808.200F	805	2015	815	512	1912	702	455	1830	600	650	756	720	PA0719	697	1892	MC08
MC1005.200F	1005	2015	515	712	1912	402	655	1830	800	350	456	420	PA0919	897	1892	MC05
MC1006.200F	1005	2015	615	712	1912	502	655	1830	800	450	556	520	PA0919	897	1892	MC06
MC1008.200F	1005	2015	815	712	1912	702	655	1830	800	650	756	720	PA0919	897	1892	MC08
MC1205.200F	1208	2015	515	915	1912	402	855	1830	1004	350	456	420	PA1119	1100	1892	MC05
MC1206.200F	1208	2015	615	915	1912	502	855	1830	1004	450	556	520	PA1119	1100	1892	MC06
MC1208.200F	1208	2015	815	915	1912	702	855	1830	1004	650	756	720	PA1119	1100	1892	MC08

REMARK: Total width side panels included: dim: "A" + 9 mm

**M Max. distance between door inside and inner plate, when fixing is by stirrups
 **N Max. distance between door inside and inner plate, when fixing is by slide
 Cabinets W 1200 can be certified NEMA12



PAIR OF SIDE PANELS

Made of stainless steel EN 1.4301 (AISI 304) s/s finely satin-finished and protected, thickn. 15/10, for direct installation outside the module or for the multi-module unit, securing them to the frame from the outside by means of no. 8 caphead s/s screws.

ITEM.	DIMENSIONS		FOR CABINETS				
	L	H					
MC85	460	1790	MC-MCV0685	MC-MCV0885	MC-MCV1085	MC-MCV1285	MC-MCV1685
MC86	560	1790	MC-MCV0686	MC-MCV0886	MC-MCV1086	MC-MCV1286	MC-MCV1686
MC88	760	1790	MC-MCV0688	MC-MCV0888	MC-MCV1088	MC-MCV1288	MC-MCV1688
MC05	460	1990	MC-MCV0605	MC-MCV0805	MC-MCV1005	MC-MCV1205	MC-MCV1605
MC06	560	1990	MC-MCV0606	MC-MCV0806	MC-MCV1006	MC-MCV1206	MC-MCV1606
MC08	760	1990	MC-MCV0608	MC-MCV0808	MC-MCV1008	MC-MCV1208	MC-MCV1608



SAFETY BRACKETS FOR INNER PLATE

Kit consisting of no. 4 shaped squares (2 upper and 2 lower ones), working as safety lock to prevent the stresses arising in transit from releasing the plate from its rest. They permit quick coupling of the plate and keeping it in vertical position, to prevent tilting during assembling.

- **MKS** - 1 kit of squares

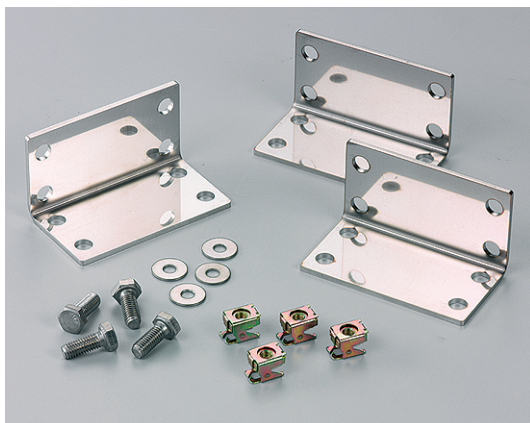
REMARK: not usable with slides



MODULE COUPLING KIT

Essential to couple several modules in a battery, it includes the pre-cut basket obtained from closet cell foamed material, the screws and the special nuts for easy assembling.

- **MK18** - for cabinets H 1.800
- **MK20** - for cabinets H 2.000



STIFFENING KIT

It consists of no. 4 s/s angle bars, obtained by s/s sheet shaping, with the relevant bolts and screws. For application inside the frame, close to the uprights of two coupled frames for improved stiffness and sturdiness of the structure. Their use is always recommended, particularly when batteries of several pre-assembled and coupled modules are to be transported, and/or when the weight contained in the modules exceeds 200 kg.

- **MKI** - stiffening kit



BACK DOORS

Made of AISI 304 stainless steel, thickness 20/10, finely satin-finished and protected, they feature alike the front doors and can be assembled, on request, in replacement of the bolted back panels included in the standard version.

ITEM.	PIECES	FOR CABINETS
PP0618	1	MC-MCV0685-MC-MCV0686-MC-MCV0688
PP0818	1	MC-MCV0885-MC-MCV0886-MC-MCV0888
PP1018	1	MC-MCV1085-MC-MCV1086-MC-MCV1088
PP1218	1+1	MC-MCV1285-MC-MCV1286-MC-MCV1288
PP1618	2	MC-MCV1685-MC-MCV1686-MC-MCV1688
PP0620	1	MC-MCV0605-MC-MCV0606-MC-MCV0608
PP0820	1	MC-MCV0805-MC-MCV0806-MC-MCV0808
PP1020	1	MC-MCV1005-MC-MCV1006-MC-MCV1008
PP1220	1+1	MC-MCV1205-MC-MCV1206-MC-MCV1208
PP1620	2	MC-MCV1605-MC-MCV1606-MC-MCV1608



PARTITION Baffles

Panel made of sendzimir sheet EN 10142 thickness 25/10, for installation between two modules to maintain a gap between them. Available in two versions: protection degree IP20 and protection degree IP65; on request it can be drilled to allow cable passage between two modules and for the connectors.

REMARK: the partition baffle excludes the use of the plate in-between

ITEM.	PROTECTION DEGREE	FOR CABINETS
ST285	IP20	MC-MCV0685 MC-MCV0885 MC-MCV1085 MC-MCV1285 MC-MCV1685
ST286	IP20	MC-MCV0686 MC-MCV0886 MC-MCV1086 MC-MCV1286 MC-MCV1686
ST288	IP20	MC-MCV0688 MC-MCV0888 MC-MCV1088 MC-MCV1288 MC-MCV1688
ST205	IP20	MC-MCV0605 MC-MCV0805 MC-MCV1005 MC-MCV1205 MC-MCV1605
ST206	IP20	MC-MCV0606 MC-MCV0806 MC-MCV1006 MC-MCV1206 MC-MCV1606
ST208	IP20	MC-MCV0608 MC-MCV0808 MC-MCV1008 MC-MCV1208 MC-MCV1608
ST685	IP65	MC-MCV0685 MC-MCV0885 MC-MCV1085 MC-MCV1285 MC-MCV1685
ST686	IP65	MC-MCV0686 MC-MCV0886 MC-MCV1086 MC-MCV1286 MC-MCV1686
ST688	IP65	MC-MCV0688 MC-MCV0888 MC-MCV1088 MC-MCV1288 MC-MCV1688
ST605	IP65	MC-MCV0605 MC-MCV0805 MC-MCV1005 MC-MCV1205 MC-MCV1605
ST606	IP65	MC-MCV0606 MC-MCV0806 MC-MCV1006 MC-MCV1206 MC-MCV1606
ST608	IP65	MC-MCV0608 MC-MCV0808 MC-MCV1008 MC-MCV1208 MC-MCV1608



SECTION BARS SYSTEM

used to make, easily and quickly, bearing structures for equipment and instruments accommodated inside the control board; pre-drilled with 25 mm pitch.



DEPTH CROSSPIECES WITH FRONT FIXING :

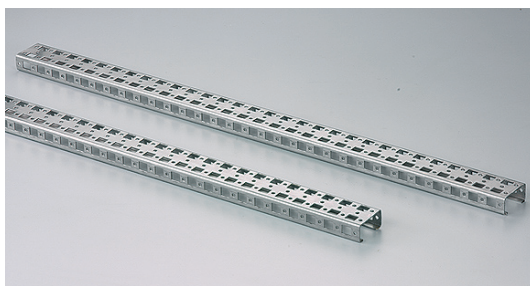
Section 23x50mm.

Available for all depth of cabinets, they are delivered complete with screws and fixing stirrup. Can be used to secure cables, fix bars or as bridging connection between front and rear uprights.

Ideal to secure and adjust the depth of DIN supports.

- **PRF255** - for depth. 500 - couple
- **PRF256** - for depth. 600 - couple
- **PRF258** - for depth. 800 - couple

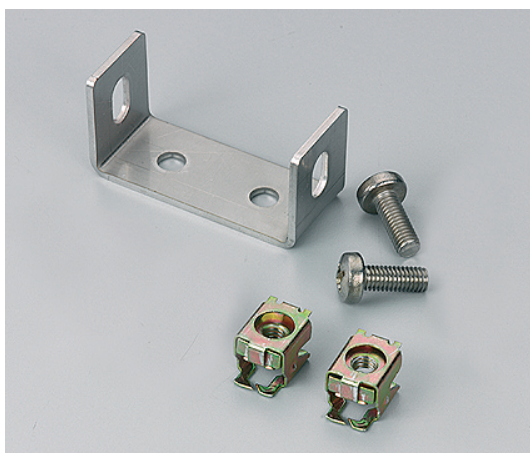
REMARK: essential for "UL" certification



STRUCTURAL SECTION 50x25 BY THE METER

Available in 2m bars cut to size to make sturdy crosspieces or posts. A special stirrup must be requested to fix it. (code SRPF50)

- **PRF502M** - 2m bar



STIRRUP FOR STRUCTURAL SECTIONS 50x25

Square to secure the sections previously cut to size. Shape and sizes have been designed so that the holes next to the uprights can be used.

- **SPRF50** - Pack of 10 pcs.



ACCESSORIES CX

p. 36/37

ACCESSORIES FOR CABINET

p. 46/61

• MULTIPLE FAIRLEAD PLATE



• PARTITION BAFFLE



• SLIDE GUIDES



• SKIRTING



SELF-STANDING CABINETS WITH REMOVABLE SIDE PANELS SERIES CX

- Material: EN 1.4301 (AISI 304) s/s, finely satin-finished and protected. Thickness: 20/10 for the door and 15/10 for cabinet and side panes
- Front door, blind or with glass (crashproof 3+3 security glass), with stiffening drilled s/s frame to support equipment and/or secure cableducts and accessories,
On request blind door can also be equipped with partial windows and different materials can be used (polycarbonate or alluminium for silk printing)
- No rear access and no removable top panel: top panel and rear part are obtained from a single sheet.
- Removable side panes, bolted, to be ordered separately
- Twin-lock with outside faceplate made of glass-loaded black polyamide, 4 point-closing, and BT key. On request can be replaced by other types of door locks (see accessories for cabinets).
- One fairlead plate with 1-piece seal (3 part seals on demand)
- AISI 316 s/s inner hinges, for 120° opening as per CEI EN 60204-1 recommendations
- Max weight the door can stand: 30 kg
- Seal of foamed polyurethane, applied by robotized system
- Inner plate of sendzimir to be ordered separately (see accessories for cabinets)
- Pre-arranged for earthing in compliance with the applicable laws force
- Protection degree: IP66 (modules L.1200 IP65).



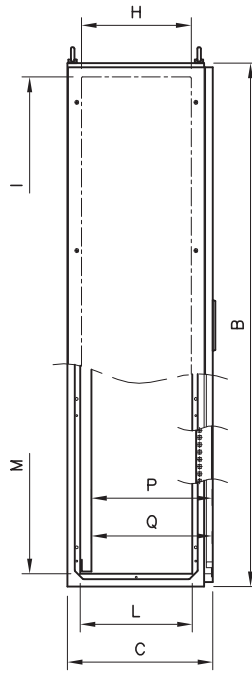
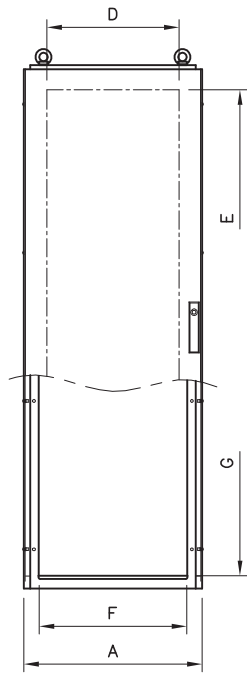
Underwriters
Laboratories

IP66

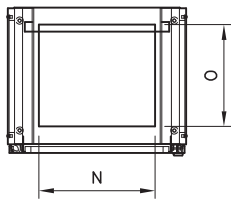
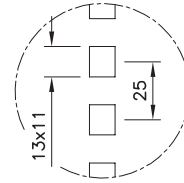


TYPE
NEMA **4X**

cabinets **CX**



Blind door



Underwriters
Laboratories

IP66

EN 60 529



TYPE
NEMA

4X, 4, 12, 1

Standard UL508A - UL50
Standard 250

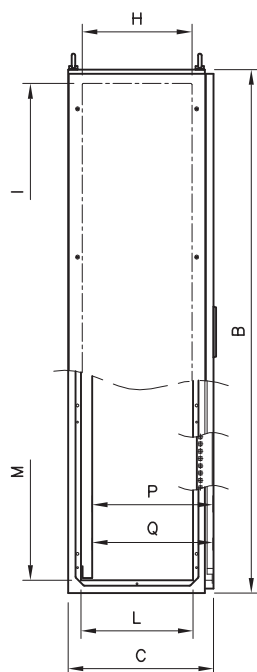
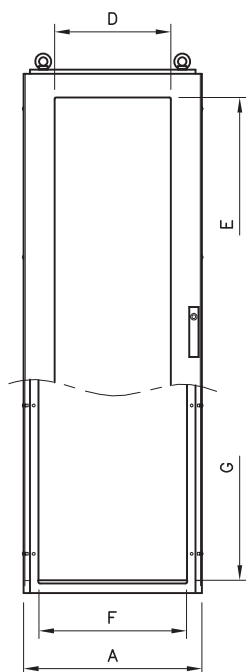


EN 60204-1
89/392/EEC

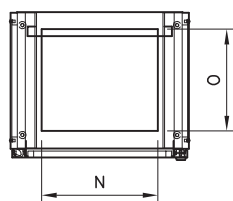
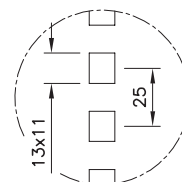
CABINET																OPTIONALS			
Out. sizes				door useful size		front entry		panel useful size		Side entry		cable entry				INNER PLATE			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M	N	O	P**	Q**	ITEM.*	X	Y	ITEM.
CX0685	614	500	1800	455	1630	508	1712	377	1704	385	1712	385	350	440	415	PA0517	497	1692	CX85
CX0686	614	1800	600	455	1630	508	1712	477	1704	485	1712	385	450	540	515	PA0517	497	1692	CX86
CX0885	814	1800	500	655	1630	708	1712	377	1704	385	1712	585	350	440	415	PA0717	697	1692	CX85
CX0886	814	1800	600	655	1630	708	1712	477	1704	485	1712	585	450	540	515	PA0717	697	1692	CX86
CX1085	1014	1800	500	855	1630	908	1712	377	1704	385	1712	785	350	440	415	PA0917	897	1692	CX85
CX1086	1014	1800	600	855	1630	908	1712	477	1704	485	1712	785	450	540	515	PA0917	897	1692	CX86
CX0605	614	2000	500	455	1830	508	1912	377	1904	385	1912	385	350	440	415	PA0519	497	1892	CX05
CX0606	614	2000	600	455	1830	508	1912	477	1904	485	1912	385	450	540	515	PA0519	497	1892	CX06
CX0805	814	2000	500	655	1830	708	1912	377	1904	385	1912	585	350	440	415	PA0719	697	1892	CX05
CX0806	814	2000	600	655	1830	708	1912	477	1904	485	1912	585	450	540	515	PA0719	697	1892	CX06
CX1005	1014	2000	500	855	1830	908	1912	377	1904	385	1912	785	350	440	415	PA0919	897	1892	CX05
CX1006	1014	2000	600	855	1830	908	1912	477	1904	485	1912	785	450	540	515	PA0919	897	1892	CX06

REMARK: Total width side panels included: dim: "A" + 9 mm

*P Max. distance between door inside and inner plate, when fixing is by stirrups
*Q Max. distance between door inside and inner plate, when fixing is by slides



door with glass


Underwriters
Laboratories

IP66

EN 60 529


TYPE
NEMA **4X, 12, 1, 4**

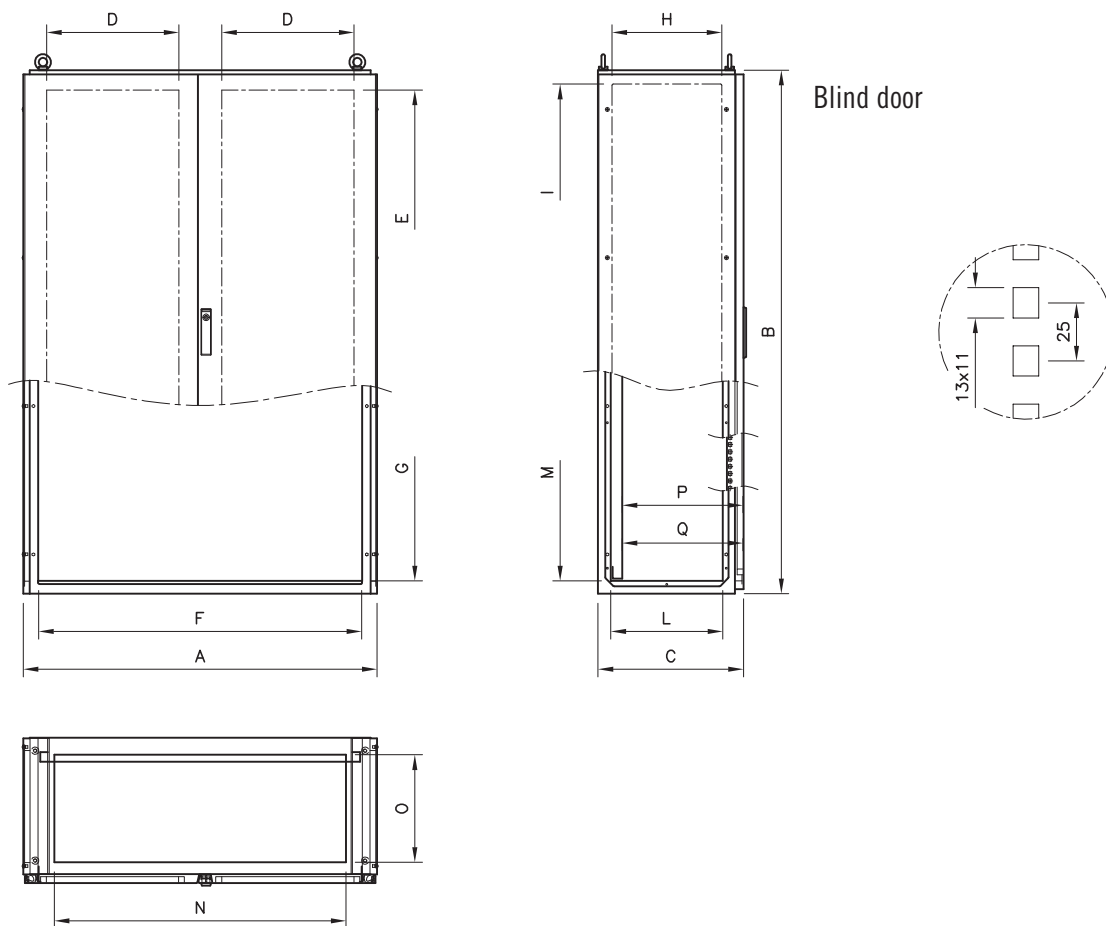
Standard UL508A - UL50
Standard 250

EN 60-204-1
89/392/EEC



CABINET																OPTIONALS			
Out. sizes				Visible size		front entry		panel useful size		side entry		cable entry				INNER PLATE			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M	N	O	P**	Q**	ITEM.*	X	Y	ITEM.
CXV0685	614	1800	500	400	1600	508	1712	377	1704	385	1712	385	350	435	410	PA0517	497	1692	CX85
CXV0686	614	1800	600	400	1600	508	1712	477	1704	485	1712	385	450	535	510	PA0517	497	1692	CX86
CXV0885	814	1800	500	600	1600	708	1712	377	1704	385	1712	585	350	435	410	PA0717	697	1692	CX85
CXV0886	814	1800	600	600	1600	708	1712	477	1704	485	1712	585	450	535	510	PA0717	697	1692	CX86
CXV1085	1014	1800	500	800	1600	908	1712	377	1704	385	1712	785	350	435	410	PA0917	897	1692	CX85
CXV1086	1014	1800	600	800	1600	908	1712	477	1704	485	1712	785	450	535	510	PA0917	897	1692	CX86
CXV0605	614	2000	500	400	1800	508	1912	377	1904	385	1912	385	350	435	410	PA0519	497	1892	CX05
CXV0606	614	2000	600	400	1800	508	1912	477	1904	485	1912	385	450	535	510	PA0519	497	1892	CX06
CXV0805	814	2000	500	600	1800	708	1912	377	1904	385	1912	585	350	435	410	PA0719	697	1892	CX05
CXV0806	814	2000	600	600	1800	708	1912	477	1904	485	1912	585	450	535	510	PA0719	697	1892	CX06
CXV1005	1014	2000	500	800	1800	908	1912	377	1904	385	1912	785	350	435	410	PA0919	897	1892	CX05
CXV1006	1014	2000	600	800	1800	908	1912	477	1904	485	1912	785	450	535	510	PA0919	897	1892	CX06

* see accessories on page 36

*P Max. distance between door inside and inner plate, when fixing is by stirrups
*Q Max. distance between door inside and inner plate, when fixing is by slides



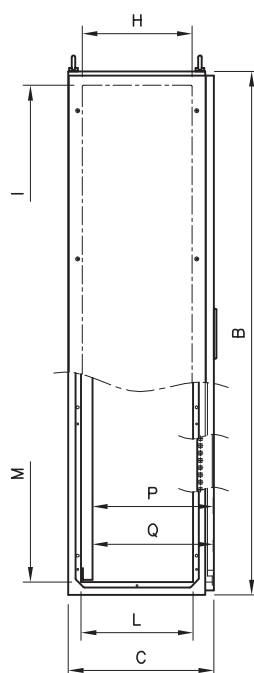
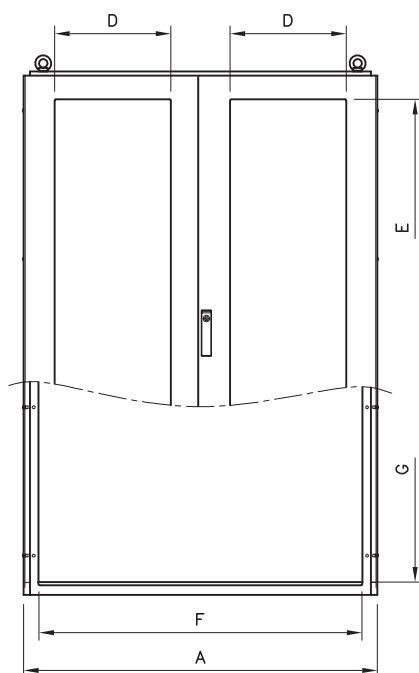
Blind door

		IP65	EN 60 529
	TYPE NEMA	12, 1	Standard UL508A - UL50 Standard 250
			EN 60204-1 89/392/EEC

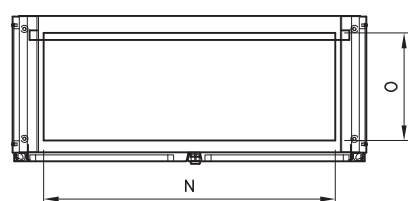
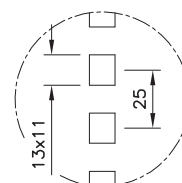
CABINET																OPTIONALS			
Out.sizes				door useful size		front entry		panel useful size		side entry		cable entry				INNER PLATE			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M	N	O	P**	Q**	ITEM.*	X	Y	ITEM.
CX1285	1217	1800	500	455	1630	1111	1712	377	1704	385	1712	988	350	440	415	PA1117	1100	1682	CX85
CX1286	1217	1800	600	455	1630	1111	1712	477	1704	485	1712	988	450	540	515	PA1117	1100	1682	CX86
CX1205	1217	2000	500	455	1830	1111	1912	377	1904	385	1912	988	350	440	415	PA1119	1100	1892	CX05
CX1206	1217	2000	600	455	1830	1111	1912	477	1904	485	1912	988	450	540	515	PA1119	1100	1892	CX06

*P Max. distance between door inside and inner plate, when fixing is by stirrups
*Q Max. distance between door inside and inner plate, when fixing is by slides

* voir accessoires page 36



Door with glass


IP65 EN 60 529

TYPE NEMA
12, 1

Standard UL508A - UL50
Standard 250

EN 60204-1
89/392/EEC

CABINET																OPTIONALS				
Out. sizes				Visible size		front entry		panel useful size		side entry		cable entry				Notes	INNER PLATE			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M	N	O	P**	Q**		ITEM.*	X	Y	ITEM.
CXV1285SX	1217	1800	500	400	1600	1111	1712	377	1704	385	1712	988	350	435	410	left door with glass	PA1117	1100	1692	CX85
CXV1286DX	1217	1800	600	400	1600	1111	1712	477	1704	485	1712	988	450	535	510	right door with glass	PA1117	1100	1692	CX86
CXV1285	1217	1800	500	400	1600	1111	1712	377	1704	385	1712	988	350	435	410	both doors with glass	PA1117	1100	1692	CX85
CXV1286SX	1217	1800	600	400	1600	1111	1712	477	1704	485	1712	988	450	535	510	left door with glass	PA1117	1100	1692	CX86
CXV1285DX	1217	1800	500	400	1600	1111	1712	377	1704	385	1712	988	350	435	410	right door with glass	PA1117	1100	1692	CX85
CXV1286	1217	1800	600	400	1600	1111	1712	477	1704	485	1712	988	450	535	510	both doors with glass	PA1117	1100	1692	CX86
CXV1205SX	1217	2000	500	400	1800	1111	1912	377	1904	385	1912	988	350	435	410	left door with glass	PA1119	1100	1892	CX05
CXV1206DX	1217	2000	600	400	1800	1111	1912	477	1904	485	1912	988	450	535	510	right door with glass	PA1119	1100	1892	CX06
CXV1205	1217	2000	500	400	1800	1111	1912	377	1904	385	1912	988	350	435	410	both doors with glass	PA1119	1100	1892	CX05
CXV1206SX	1217	2000	600	400	1800	1111	1912	477	1904	485	1912	988	450	535	510	left door with glass	PA1119	1100	1892	CX06
CXV1205DX	1217	2000	500	400	1800	1111	1912	377	1904	385	1912	988	350	435	410	right door with glass	PA1119	1100	1892	CX05
CXV1206	1217	2000	600	400	1800	1111	1912	477	1904	485	1912	988	450	535	510	both doors with glass	PA1119	1100	1892	CX06

*P Max. distance between door inside and inner plate, when fixing is by stirrups
*Q Max. distance between door inside and inner plate, when fixing is by slides

* see accessories on page 36



Underwriters
Laboratories

IP66



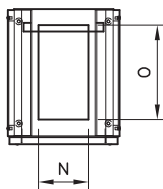
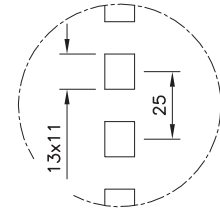
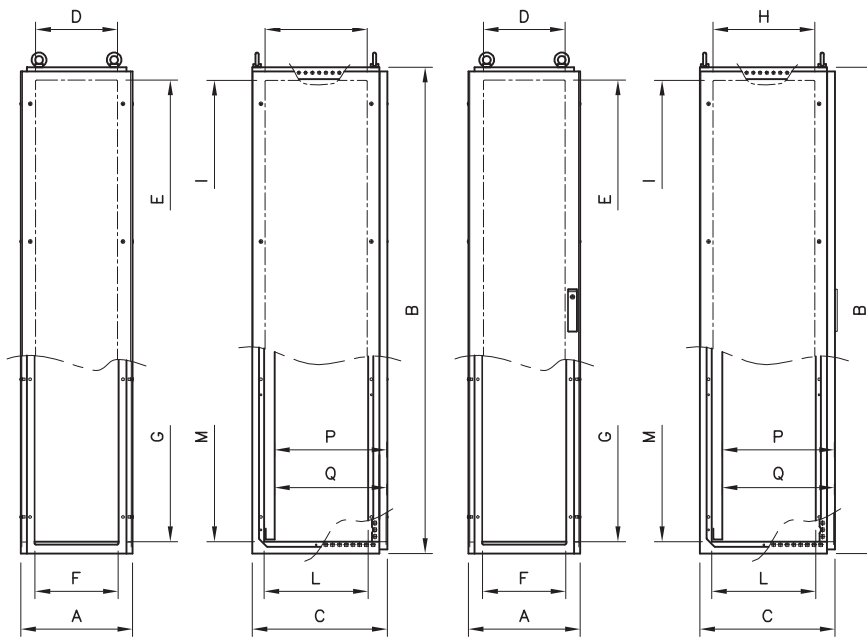
TYPE
NEMA 4X

on demand

cabinets
CX

"RX" VERSION WITH BOLTED
FRONT PANEL

"RXP" VERSION WITH HINGED
FRONT DOOR



Underwriters
Laboratories

IP66

EN 60 529



TYPE
NEMA 4X, 12, 1, 4

Standard UL508A - UL50
Standard 250



EN 60-204-1
89/392/EEC

CABLE RISERS

Modular, 300 and 400 mm long, made of EN 1.4301 s/s (AISI 304) finely satin-finished, fit for use as terminal board. Feature front panel bolted and removable or hinged blind door. Back side and top not accessible. Prearranged to receive standard side panels, partition baffles and plinths h.100 and 200 mm. Available in 2 different depths and two heights, to match perfectly all types of monobloc cabinets. Protection degree: IP66

CABINET																OPTIONALS			
				inner usefu		space front		panel useful size		side entry		cable entry				INNER PLATE			SIDE PANELS
ITEM.	A	B	C	D	E	F	G	H	I	L	M	N	O	P**	Q**	ITEM.*	X	Y	ITEM.
RX0385	314	1800	500	203	1706	385	1712	377	1704	385	1712	85	350	440	415	PA0217	197	1692	CX85
RX0386	314	1800	600	203	1706	485	1712	477	1704	485	1712	85	450	540	515	PA0217	197	1692	CX86
RX0305	314	2000	500	203	1906	385	1912	377	1904	385	1912	85	350	440	415	PA0219	197	1892	CX05
RX0306	314	2000	600	203	1906	485	1912	477	1904	485	1912	85	450	540	515	PA0219	197	1892	CX06
RX0485	414	1800	500	303	1706	385	1712	377	1704	385	1712	185	350	440	415	PA0317	297	1692	CX85
RX0486	414	1800	600	303	1706	485	1712	477	1704	485	1712	185	450	540	515	PA0317	297	1692	CX86
RX0405	414	2000	500	303	1906	385	1912	377	1904	385	1912	185	350	440	415	PA0319	297	1892	CX05
RX0406	414	2000	600	303	1906	485	1912	477	1904	485	1912	185	450	540	515	PA0319	297	1892	CX06
RXP0385	314	1800	500	203	1706	385	1712	377	1704	385	1712	85	350	440	415	PA0217	197	1692	CX85
RXP0386	314	1800	600	203	1706	485	1712	477	1704	485	1712	85	450	540	515	PA0217	197	1692	CX86
RXP0305	314	2000	500	203	1906	385	1912	377	1904	385	1912	85	350	440	415	PA0219	197	1892	CX05
RXP0306	314	2000	600	203	1906	485	1912	477	1904	485	1912	85	450	540	515	PA0219	197	1892	CX06
RXP0485	414	1800	500	303	1706	385	1712	377	1704	385	1712	185	350	440	415	PA0317	297	1692	CX85
RXP0486	414	1800	600	303	1706	485	1712	477	1704	485	1712	185	450	540	515	PA0317	297	1692	CX86
RXP0405	414	2000	500	303	1906	385	1912	377	1904	385	1912	185	350	440	415	PA0319	297	1892	CX05
RXP0406	414	2000	600	303	1906	485	1912	477	1904	485	1912	185	450	540	515	PA0319	297	1892	CX06

*P Max. distance between door inside and inner plate, when fixing is by stirrups
*Q Max. distance between door inside and inner plate, when fixing is by slides



PAIR OF SIDE PANELS

Made of stainless steel EN 1.4301 (AISI 304) s/s finely satin-finished and protected, thickn. 15/10, for direct installation outside the module or the multi-module unit, securing them to the frame from the outside by 8 oval-headed s/s screws.

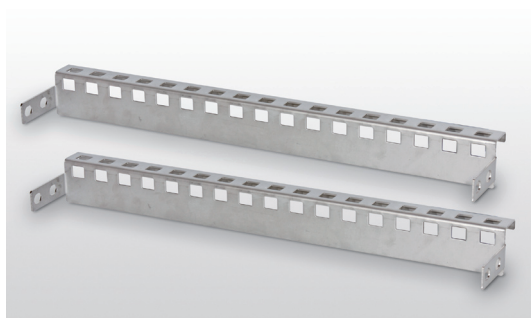
ITEM.	DIMENSIONS		FOR CABINETS
	L	H	
CX85	467,5	1785	CX-CXV0685 CX-CXV0885-CX CXV1085 CX-CXV1285
CX86	567,5	1785	CX-CXV0686 CX-CXV0886-CX CXV1086 CX-CXV1286
CX05	467,5	1985	CX-CXV0605 CX-CXV0805-CX CXV1005 CX-CXV1205
CX06	567,5	1985	CX-CXV0606 CX-CXV0806-CX CXV1006 CX-CXV1206



MULTIPLE FAIRLEAD PLATES

The standard fairlead plates of CX cabinets, in a single piece, can be replaced by 3-piece multiple fairlead plates. The multiple fairlead plates PCX are essential when sash-type fairlead plates are used.

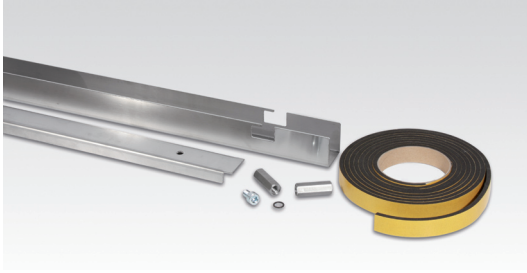
PCX0605	Kit of multiple fairlead plates for	CX0685 CX0605
PCX0606	Kit of multiple fairlead plates for	CX0686 CX0606
PCX0805	Kit of multiple fairlead plates for	CX0885 CX0805
PCX0806	Kit of multiple fairlead plates for	CX0886 CX0806
PCX1005	Kit of multiple fairlead plates for	CX1085 CX1005
PCX1006	Kit of multiple fairlead plates for	CX1086 CX1006
PCX1205	Kit of multiple fairlead plates for	CX1285 CX1205
PCX1206	Kit of multiple fairlead plates for	CX1285 CX1206



ADJUSTABLE UPPER CROSS PIECE

Section 26X42mm. Available for all depths of cabinets, they are delivered complete with clamp screws. Can be used to secure lamps, fix cables and are indispensable for fixing the interlocks.

- **TRS06** - or depth. 600
- **TRS08** - or depth. 800
- **TRS10** - or depth. 1000
- **TRS12** - or depth. 1200



KIT FOR MODULE COUPLING

Essential to couple several modules in a battery, it includes the closed cell foamed seal, the screws and the special nuts for easy assembling.

- **CK185** - for cabinets H. 1800 P. 500
- **CK186** - for cabinets H. 1800 P. 600
- **CK205** - for cabinets H. 2000 P. 500
- **CK206** - for cabinets H. 2000 P. 600

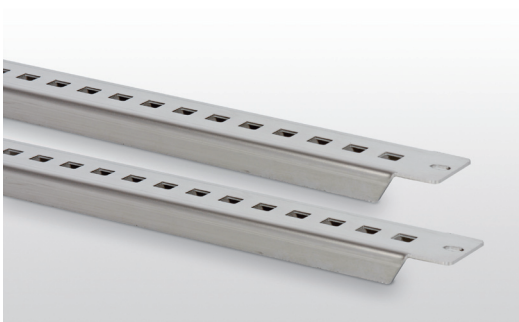


PARTITION BAFFLES

Panel made of sendzimir sheet EN 10142 thickness 25/10, for installation between two modules in order to create a gap between them. Available in two versions: protection degree IP20 and protection degree IP65; on request it can be drilled for cable passage between two modules and for connectors.

REMARK: the partition baffle excludes the intermediate plate

ITEM.	protection degree	POUR ARMOIRES
STCX285	IP20	CX-CXV0685 CX-CXV0885 CX-CXV1085 CX-CXV1285 CX-CXV1685
STCX286	IP20	CX-CXV0686 CX-CXV0886 CX-CXV1086 CX-CXV1286 CX-CXV1686
STCX288	IP20	CX-CXV0688 CX-CXV0888 CX-CXV1088 CX-CXV1288 CX-CXV1688
STCX205	IP20	CX-CXV0605 CX-CXV0805 CX-CXV1005 CX-CXV1205 CX-CXV1605
STCX206	IP20	CX-CXV0606 CX-CXV0806 CX-CXV1006 CX-CXV1206 CX-CXV1606
STCX208	IP20	CX-CXV0608 CX-CXV0808 CX-CXV1008 CX-CXV1208 CX-CXV1608
STCX685	IP65	CX-CXV0685 CX-CXV0885 CX-CXV1085 CX-CXV1285 CX-CXV1685
STCX686	IP65	CX-CXV0686 CX-CXV0886 CX-CXV1086 CX-CXV1286 CX-CXV1686
STCX688	IP65	CX-CXV0688 CX-CXV0888 CX-CXV1088 CX-CXV1288 CX-CXV1688
STCX605	IP65	CX-CXV0605 CX-CXV0805 CX-CXV1005 CX-CXV1205 CX-CXV1605
STCX606	IP65	CX-CXV0606 CX-CXV0806 CX-CXV1006 CX-CXV1206 CX-CXV1606
STCX608	IP65	CX-CXV0608 CX-CXV0808 CX-CXV1008 CX-CXV1208 CX-CXV1608



DEPTH CROSSPIECES WITH SIDE FIXING

Section 22x50mm.

Available for all depth of cabinets, they are delivered complete with screws and fixing stirrup. Can be used to secure cables, fixing vertical section bars. Ideal to secure and adjust the depth of DIN supports

- **PRF255CX** - for depth. 500 - couple
- **PRF256CX** - for depth. 600 - couple

REMARK: essential for "UL" certification



ACCESSORIES CC

p. 38

• SYSTEMS FOR MODULAR SWITCHES



ACCESSORIES FOR CABINETS

p. 45/61

• OVER-DOOR PANEL



• REAR DOORS



COMPACT CABINETS SERIES CC

- Material: EN 1.4301 (AISI 304) s/s, finely satin-finished and protected, thickness 15/10 for the cabinet, thickness 20/10 for the door
- Envelope obtained from a single sheet, with no rear access; top panel removable for cable easy entry from above and/or for the installation of conditioning systems. Multi-bend shaping of the envelope front edge.
- Front door blind or with glass (crash-proof 3+3 security glass) with stiffening s/s inner frame.
On request the blind door can also be equipped with partial windows and different material can be used (polycarbonate or aluminium for silk printing)
- Fairlead plate with 2-piece seal
- Twin-lock with outside faceplate made of glass-loaded black polyamide, 4-point closing and B.T. key. On request it can be replaced by different lock (see accessories for cabinets)
- AISI 316 s/s inner hinges, for 120° opening as per CEI EN 60204-1 recommendations
- Maximum load the door can stand: 30 KG
- Hoisting eyebolt M12
- Sealing joint of foamed polyurethane
- Inner plate made of sendzimir, to be ordered separately (see "accessories for CC CABINETS")
- Pre-arranged for earthing in compliance with the applicable regulations in force
- Protection degree: IP65 in compliance with CEI EN 60529 (IP65 for 2-door cabinets)
- The cabinets can be made from other types of s/s and with sizes and patterns to suit specific requirements.



Underwriters
Laboratories

IP66

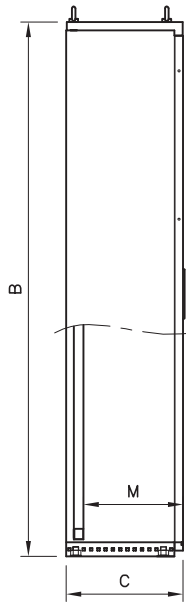
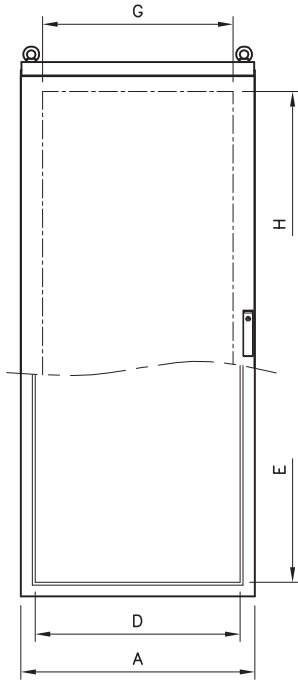


TYPE
NEMA

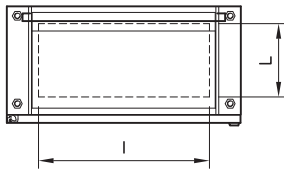
4X

on demand

cabinets
CC



Blind door



Underwriters
Laboratories

IP66

EN 60 529



TYPE
NEMA

4X, 12, 1, 4

Standard UL508A - UL50
Standard 250

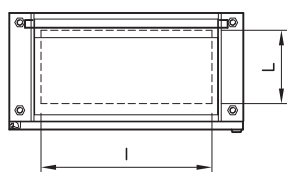
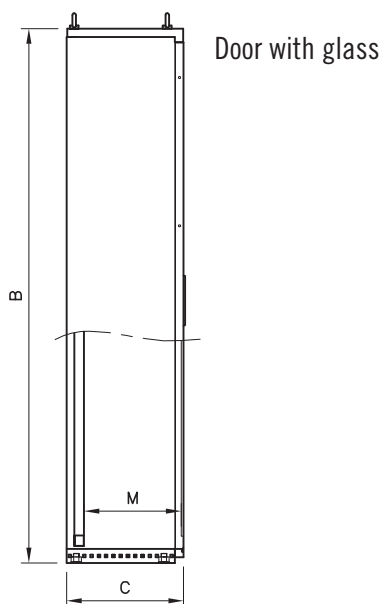
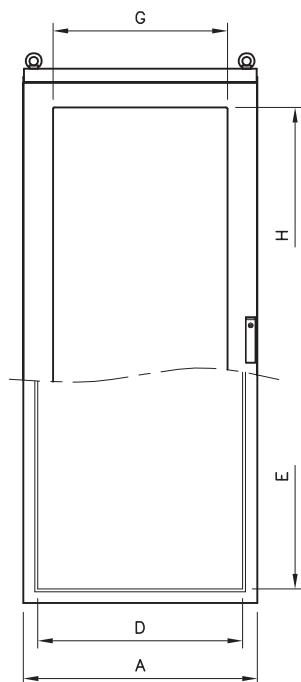


EN 60-204-1
89/392/EEC

CABINET											OPTIONALS		
				Frame inner side		Door useful size		Cable entry			INNER PLATES		
ITEM.	A	B	C	D	E	G	H	I	L	M**	ITEM.*	X	Y
CC818	805	1840	400	705	1712	655	1630	590	250	340	PA0717	697	1692
CC1018	1005	1840	400	905	1712	855	1630	790	250	340	PA0917	897	1692

REMARK: **M Distance between inside and inner plate

* see accessories on page 36


Underwriters
Laboratories

IP66

EN 60 529


TYPE
NEMA

4X, 12, 1, 4

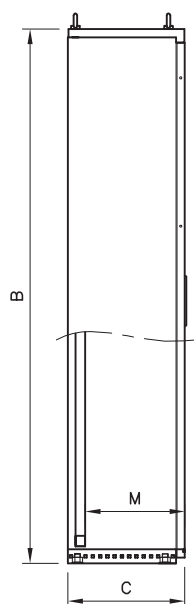
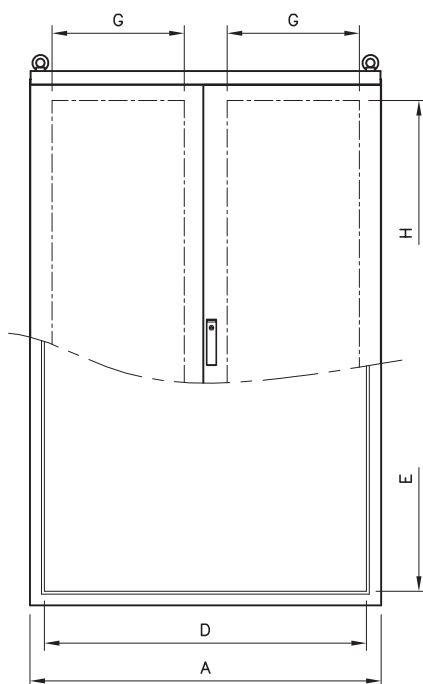
Standard UL508A - UL50
Standard 250

EN 60-204-1
89/392/EEC

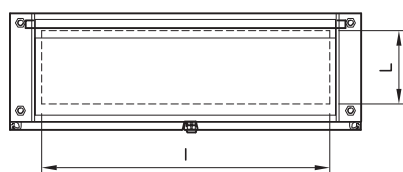
CABINET											OPTIONALS		
				Frame inner size		Visible size		Cable entry			INNER PLATES		
ITEM.	A	B	C	D	E	G	H	I	L	M**	ITEM.*	X	Y
CCV818	805	1840	400	705	1712	600	1600	590	250	335	PA0717	697	1692
CCV1018	1005	1840	400	905	1712	800	1600	790	250	335	PA0917	897	1692



REMARK: **M Max. distance between inside and inner plate

* voir accessoires page 36



Blind door

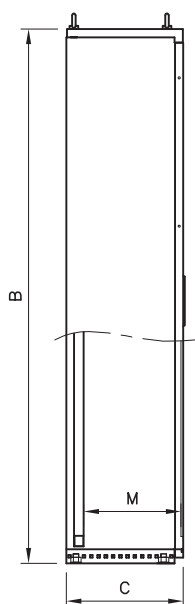
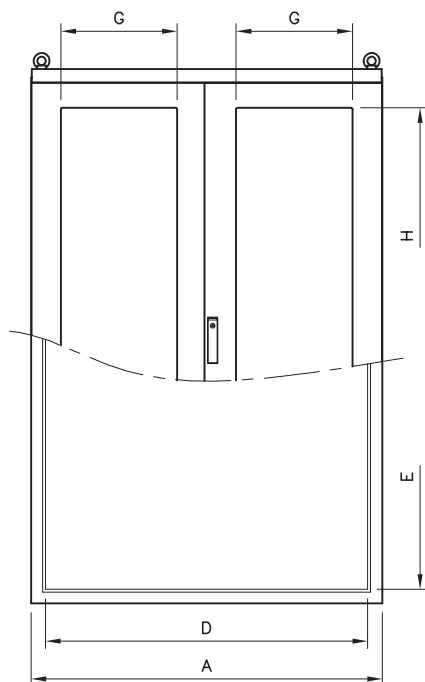


		IP65	EN 60 529
	TYPE NEMA	12, 1	Standard UL508A - UL50 Standard 250
			EN 60204-1 89/392/EEC

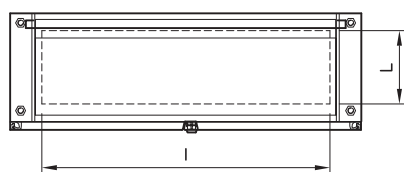
CABINET											OPTIONALS		
				Frame inner side		Door useful size		Cable entry			INNER PLATES		
ART.	A	B	C	D	E	G	H	I	L	M**	ART.*	X	Y
CC1216	1208	1640	400	1108	1512	455	1430	990	250	340	PA1115	1100	1492
CC1218	1208	1840	400	1108	1712	455	1630	990	250	340	PA1117	1100	1692



REMARK: **M Max. distance between inside and inner plate

* Voir accessoires page 36



Door with glass

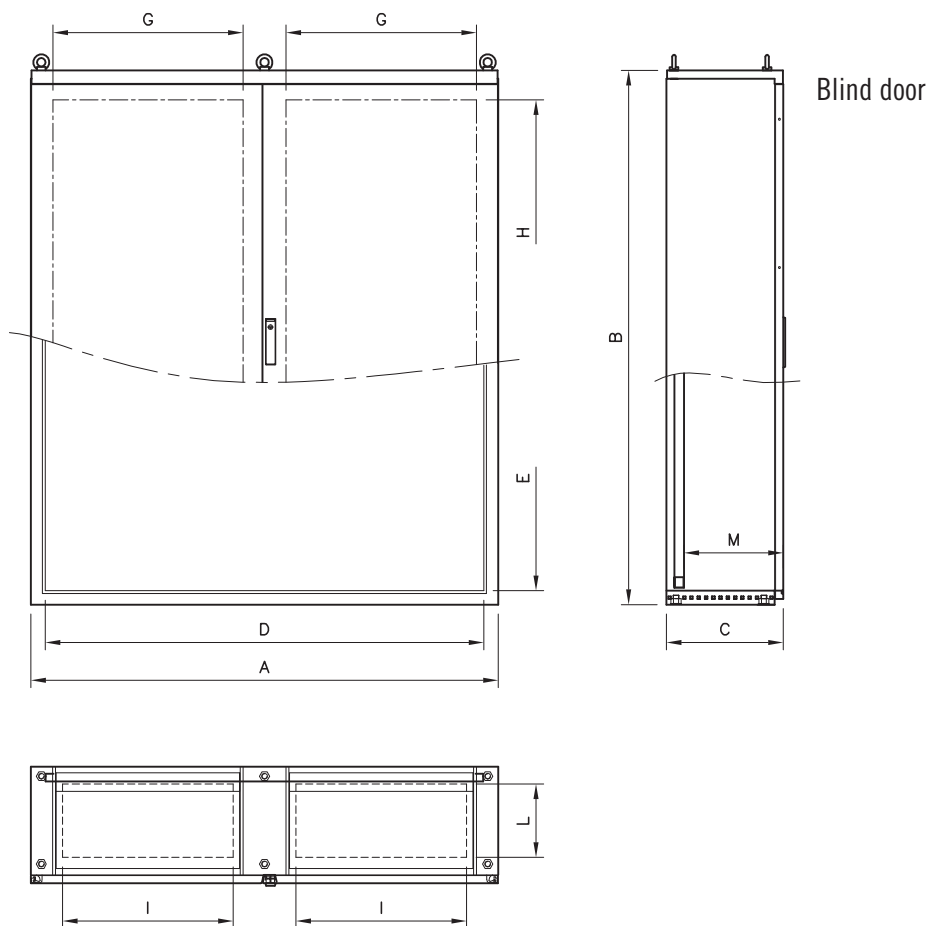


		IP65	EN 60 529
	TYPE NEMA	12, 1	Standard UL508A - UL50 Standard 250
		EN 60204-1 89/392/EEC	

CABINET											OPTIONALS			
				Frame inner size		Visibile size		Cable entry			Remark	INNER PLATE		
ITEM.	A	B	C	D	E	G	H	I	L	M**		ITEM.*	X	Y
CCV1216SX	1208	1640	400	1108	1512	400	1400	990	250	335	left door with glass	PA1115	1100	1492
CCV1216DX	1208	1640	400	1108	1512	400	1400	990	250	335	right door with glass	PA1115	1100	1492
CCV1216	1208	1640	400	1108	1512	400	1400	990	250	335	both doors with glass	PA1115	1100	1492
CCV1218SX	1208	1840	400	1108	1712	400	1600	990	250	335	left door with glass	PA1117	1100	1692
CCV1218DX	1208	1840	400	1108	1712	400	1600	990	250	335	right door with glass	PA1117	1100	1692
CCV1218	1208	1840	400	1108	1712	400	1600	990	250	335	both doors with glass	PA1117	1100	1692

REMARK: **M Max. distance between inside and inner plate

* see accessories on page 36



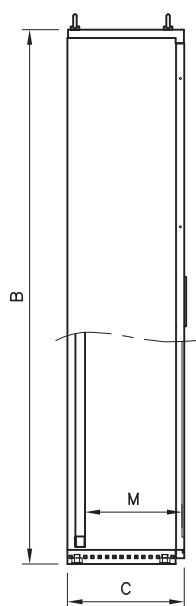
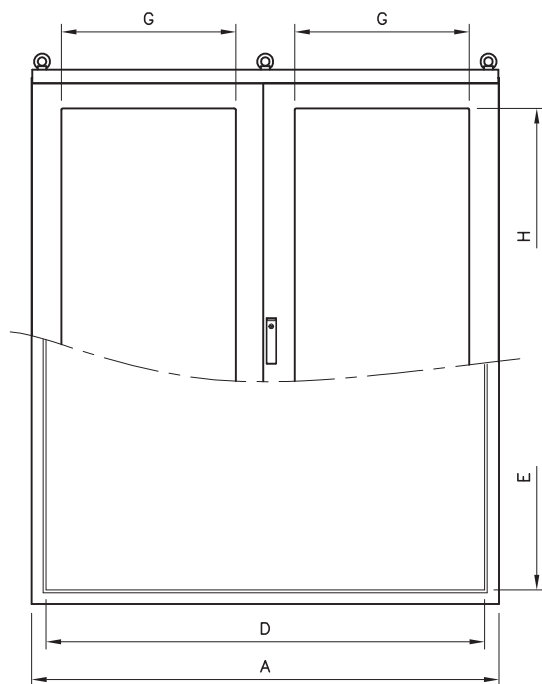
Blind door

	IP65	EN 60 529
UL LISTED	TYPE NEMA 12, 1	Standard UL508A - UL50 Standard 250
CE		EN 60204-1 89/392/EEC

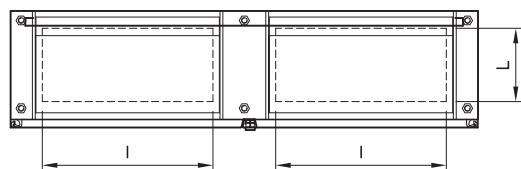
CABINET											OPTIONALS		
				Frame inner side		Door useful size		Cable entry			INNER PLATE		
ITEM.	A	B	C	D	E	G	H	I	L	M**	ITEM.*	X	Y
CC1616	1608	1640	400	1508	1512	655	1430	590	250	340	PA1515	1505	1492
CC1618	1608	1840	400	1508	1712	655	1630	590	250	340	PA1517	1505	1692



NOTE: **M Distance max entre interne et plaque interne

* voir accessoires page 36



Door with glass



		IP65	EN 60 529
	TYPE NEMA	12, 1	Standard UL508A - UL50 Standard 250
			EN 60204-1 89/392/EEC

CABINET											OPTIONALS			
				Frame inner size		Visibile size		Cable entry			Remark	INNER PLATE		
ITEM.	A	B	C	D	E	G	H	I	L	M**		ITEM.*	X	Y
CCV1616SX	1608	1640	400	1508	1512	600	1400	590	250	335	left door with glass	PA1515	1505	1492
CCV1616DX	1608	1640	400	1508	1512	600	1400	590	250	335	right door with glass	PA1515	1505	1492
CCV1616	1608	1640	400	1508	1512	600	1400	590	250	335	both doors with glass	PA1515	1505	1492
CCV1618SX	1608	1840	400	1508	1712	600	1600	590	250	335	left door with glass	PA1517	1505	1692
CCV1618DX	1608	1840	400	1508	1712	600	1600	590	250	335	right door with glass	PA1517	1505	1692
CCV1618	1608	1840	400	1508	1712	600	1600	590	250	335	right door with glass	PA1517	1505	1692

REMARK: **M Max. distance between inside and inner plate

* see accessories on page 36



IP20

SYSTEMS FOR MODULAR SWITCHES

The modular cabinets series CC can be equipped to accommodate modular switches.

The matching frame must be requested for this purpose, as it permits wiring even outside the cabinet:

- **TC0616**: for CC1216 no. 2 frames
- **TC0618**: for CC1218 no. 2 frames
- **TC0816**: for CC1616 no. 2 frames
- **TC0818**: for CC0818 no. 1 frames **CC1618** no. 2 frames
- **TC1018**: for CC1018

The useful height of the panel housing compartment is 1.400 mm. for cabinet having nominal height 1.600 mm. and 1.600 mm. for cabinets having nominal height 1.800 mm. The gap between the panels and the front door can be 100mm or 70mm

REMARK: a pair of side uprights must always be used (see table below)

When installing a frame in any cabinet L.1200 a removable central upright must always be used:

FOR CABINETS L 1200	CODE OF CENTRAL UPRIGHT
CC H 1600	MCC16
CC H 1800	MCC18

FOR CABINETS L 1200	CODE OF SIDE UPRIGHT
CC H 1600	MLCC16
CC H 1800	MLCC18



ELECTROCONDUCTIVE GASKET

emc®

The electroconductive basket is required to shield the electric or magnetic field.

The elasticity of the gasket is obtained using various foamed materials: silicone, neoprene or epdm depending on the conditions of use.

- **GCE**

accessories for cabinets



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INNER DOORS
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WORK PLANES
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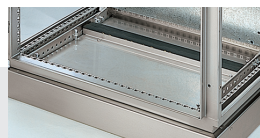
WORK TABLETOPS
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INNER PLATES PA TYPE
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INNER PLATES PS TYPE
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VERTICAL SLASH TYPE CLOSURE PLATES
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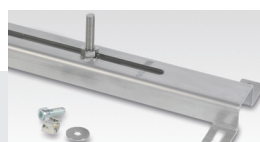
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INTERMEDIATE PLATE
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DOOR CROSSPIECES
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BEARING SECTION BARS
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HOISTING EYEBOLTS
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PANELS
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SKIRTING
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SYSTEMS FOR MODULAR SWITCHES
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5,5 SELF-TAPPING SCREWS
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LOCKING-PROOF DEVICE
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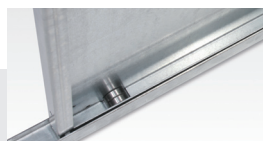
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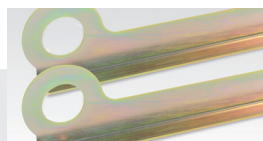
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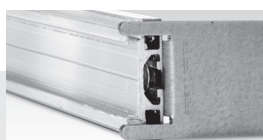
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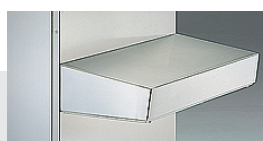
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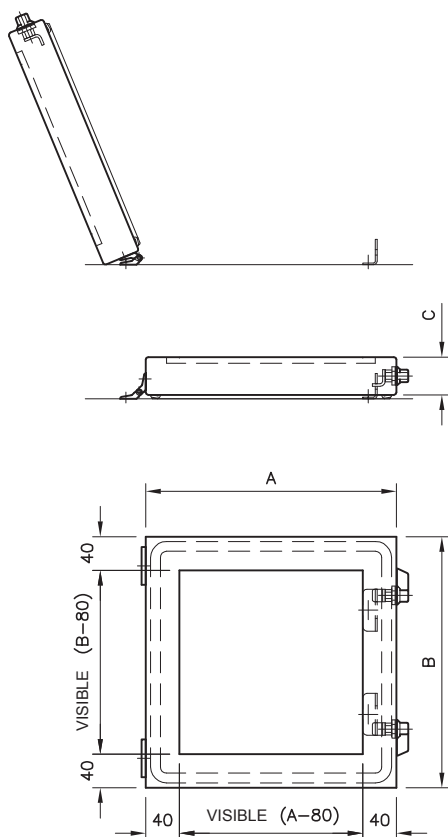
ADJUSTABLE FEET
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FIXED LECTERNS
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ELECTROCONDUCTIVE GASKET
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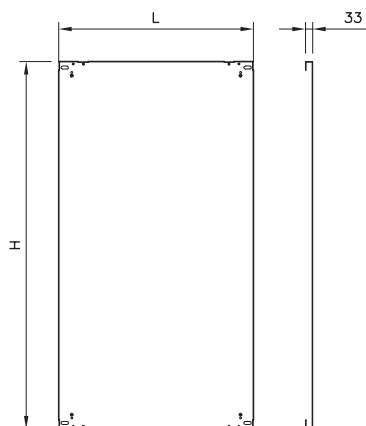
OVERDOORS

Realized in stainless steel X5 CrNi 18/10 EN 1.4301 (AISI 304) finely satin-finished, with 3+3 layer shatterproof glass, are suitable when instrumentations applied on the external door have to be protected. Complete with wing-nut lock, galvanized, black, with Yale type key and build-in seal, 180° opening. Protection degree IP65.

REMARK: when set on width exceeding the width of the over-door panel, the max. opening is 90°.

ITEM.	A	B	C
SV33/45	300	300	45
SV34/45	300	450	45
SV36/45	300	600	45
SV43/45	450	300	45
SV44/45	450	450	45
SV46/45	450	600	45
SV64/45	600	450	45
SV66/45	600	600	45
SV67/45	600	750	45
SV68/45	600	800	45
SV69/45	600	900	45
SV612/45	600	1200	45
SV77/45	750	750	45
SV710/45	750	1000	45
SV86/45	800	600	45
SV812/45	800	1200	45
SV106/45	1000	750	45

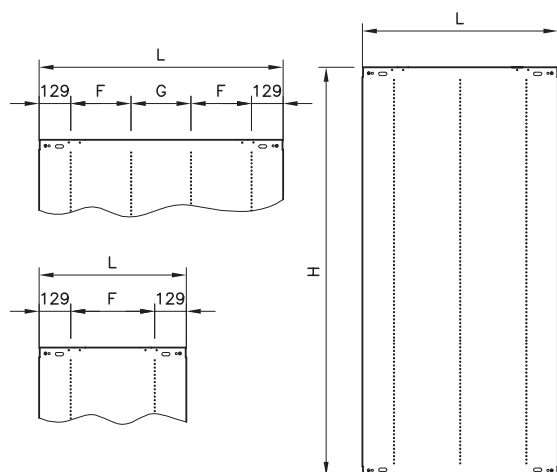
ITEM.	A	B	C
SV33/75	300	300	75
SV34/75	300	450	75
SV36/75	300	600	75
SV43/75	450	300	75
SV44/75	450	450	75
SV46/75	450	600	75
SV64/75	600	450	75
SV66/75	600	600	75
SV67/75	600	750	75
SV68/75	600	800	75
SV69/75	600	900	75
SV612/75	600	1200	75
SV77/75	750	750	75
SV710/75	750	1000	75
SV86/75	800	600	75
SV812/75	800	1200	75
SV106/75	1000	750	75



INNER PLATE TYPE PA

Realized in galvanized sheet sendzimir EN 10142, bent on all sides for maximum stiffness; supplied in assembling kit, adjustable over the whole depth of the cabinet.

ITEM.	SIZES		FOR CABINETS SERIE MC-CX-CC	
	X	Y		
PA0517	497	1692	L.600	H.1800
PA0717	697	1692	L.800	H.1800
PA1115	1100	1492	L.1200	H.1600
PA1117	1100	1692	L.1200	H.1800
PA1515	1500	1492	L.1600	H.1600
PA1517	1505	1692	L.1600	H.1800
PA0519	497	1892	L.600	H.2000
PA0719	697	1892	L.800	H.2000
PA0919	897	1892	L.1000	H.2000
PA1119	1100	1892	L.1200	H.2000
PA1519	1505	1892	L.1600	H.2000



INNER PLATES TYPE PS

Realized in galvanized sheet sendzimir EN 10142, designed to allow the use of all the cabinet width. The use of these plates set in battery does not require an intermediate place since they can be connected directly one to the other.

REMARK: 2 plates PS0817 or PS0819 are required depending on the height are required for cabinets L.1600.

ITEM.	L	H	F	G	FOR CABINET
PS0617	608	1692	350	/	MC0685 - MC0686 - MC0688 - CX0685 - CX0686
PS0619	608	1892	350	/	MC0605 - MC0606 - MC0608 - CX0605 - CX0606
PS0817	808	1692	275	/	MC0885 - MC0886 - MC0888 - CX0885 - CX0886
PS0819	808	1892	275	/	MC0805 - MC0806 - MC0808 - CX0805 - CX0806
PS1017	1008	1692	250	250	MC1085 - MC1086 - MC1088 - CX1085 - CX1086
PS1019	1008	1892	250	250	MC1005 - MC1006 - MC1008 - CX1005 - CX1006
PS1217	1211	1692	325	300	MC1285 - MC1286 - MC1288 - CX1285 - CX1286
PS1219	1211	1892	325	300	MC1205 - MC1206 - MC1208 - CX1205 - CX1206

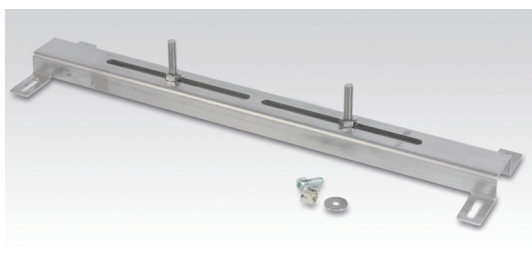


INTERMEDIATE PLATE

Designed to be assembled and disassembled even with pre-assembled and wired inner plates. Made of sendzimir EN 10142, it comes complete with all assembling accessories, in particular 2 stiffening flat bars that form with the inner plates a stiff single assembling plane. When this plate is used, it will not be possible to set the plate far back but only in front of the rear uprights.

- **PA0117** - intermediate plate for cabinets h.1800
- **PA0119** - intermediate plate for cabinets h.2000

REMARK: the intermediate plate exclude the use of the partition baffles



SUPPORT SECTION BARS

System of section bars, suitable to support heavy instrumentations (i.e. transformers). Supplied in assembling kit of 2 pcs, they are drilled to allow ample adjusting.

- **ST0600** - for modular cabinets MC L.600
- **ST0800** - for modular cabinets MC L.800 et L.1600 (*)
- **ST1000** - for modular cabinets MC L.1000
- **ST1200** - for modular cabinets MC L.1200

(*) **REMARK:** for cabinets MC 1600 it is necessary to require nr. 2 items ST0800. Just for MC-CX



ADJUSTABLE FEET

Cylindrical foot perfectly cleanable in AISI 304 s/s

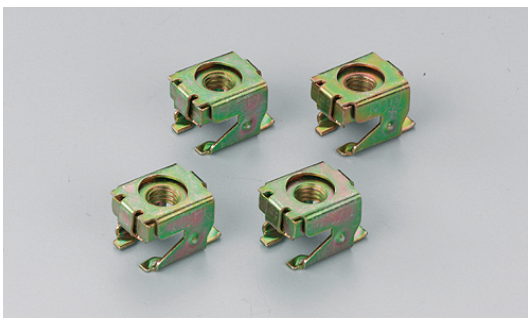
- **SA2000**: adjustable from 125 à 165 mm
- **SA2200**: adjustable from 165 à 205 mm

SKIRTING



Simple and sturdy execution, they are made of EN 1.4301 s/s (AISI 304) carefully satin-finished and protected. Prearranged for side and back cable entry (or front) and for application of feet, where the need be ; the bottom is open to the ground: on request, they can be delivered with panels for bottom closing that can be used also as cable supports. Protection degree is IP20 with bottom pannel in place. Can be delivered either in assembling kit or pre-assembled, complete with the necessary kit for securing to the ground. Available in 100 and 200 mm height.

ITEM.	Height mm	For cabinets CC-CX-MC	Bottom closing panel
ZA03105	100	L.300-P.500	P0305
ZA03205	200	L.300-P.500	P0305
ZA03106	100	L.300-P.600	P0306
ZA03206	200	L.300-P.600	P0306
ZA03108	100	L.300-P.800	P0308
ZA03208	200	L.300-P.800	P0308
ZA04105	100	L.400-P.500	P0405
ZA04205	200	L.400-P.500	P0405
ZA04106	100	L.400-P.600	P0406
ZA04206	200	L.400-P.600	P0406
ZA04108	100	L.400-P.800	P0408
ZA04208	200	L.400-P.800	P0408
ZA06105	100	L.600-P.500	P0605
ZA06205	200	L.600-P.500	P0605
ZA06106	100	L.600-P.600	P0606
ZA06206	200	L.600-P.600	P0606
ZA06108	100	L.600-P.800	P0608
ZA06208	200	L.600-P.800	P0608
ZA08105	100	L.800-P.500	P0805
ZA08205	200	L.800-P.500	P0805
ZA08106	100	L.800-P.600	P0806
ZA08206	200	L.800-P.600	P0806
ZA08108	100	L.800-P.800	P0808
ZA08208	200	L.800-P.800	P0808
ZA10105	100	L.1000-P.500	P1005
ZA10205	200	L.1000-P.500	P1005
ZA10106	100	L.1000-P.600	P1006
ZA10206	200	L.1000-P.600	P1006
ZA10108	100	L.1000-P.800	P1008
ZA10208	200	L.1000-P.800	P1008
ZA12105	100	L.1200-P.500	P1205
ZA12205	200	L.1200-P.500	P1205
ZA12106	100	L.1200-P.600	P1206
ZA12206	200	L.1200-P.600	P1206
ZA12108	100	L.1200-P.800	P1208
ZA12208	200	L.1200-P.800	P1208
ZA16105	100	L.1600-P.500	P1605
ZA16205	200	L.1600-P.500	P1605
ZA16106	100	L.1600-P.600	P1606
ZA16206	200	L.1600-P.600	P1606
ZA16108	100	L.1600-P.800	P1608
ZA16208	200	L.1600-P.800	P1608



CAGE NUTS

Cage nuts for front insertion, available with threading M6 and M8, particularly sturdy and simple to install.

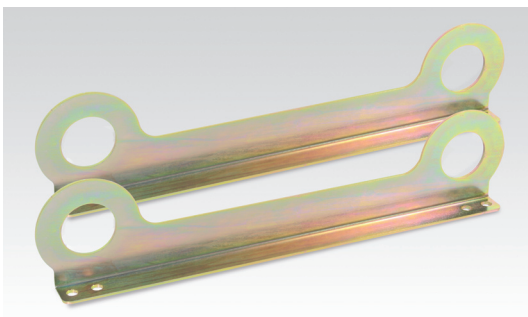
- **DGIFM6** - pack of 50 pcs M6
- **DGIFM8** - pack of 50 pcs M8



SELF-THREADING SCREWS 5.5

Particularly recommended to secure equipment in the drills Ø 4.6 arranged for the purpose on the frame and on the section bars.

- **VA05** - pack of 50 pcs



HOISTING STIRRUPS

Realized in zinc-coated sheet, they are recommended when coupled and pre-wired modules of considerable weight have to be hoisted, they can be used alone or combined with the hoisting bars and are available in kits of 2 and 3 pieces.

Max load hoisting stirrup can lift 600 Kg/m.

ITEM.	FOR CABINETS WIDTH	DEPTH	KIT
SZ025	600-800-1000-1200	500	2PZ
SZ026	600-800-1000-1200	600	2PZ
SZ028	600-800-1000-1200	800	2PZ
SZ035	1600	500	3PZ
SZ036	1600	600	3PZ
SZ038	1600	800	3PZ



HOISTING BARS

To be combined with the hoisting stirrups to handle coupled modules of fairly heavy weight. They are realized in galvanized pipe diam. 60.3. Hoisting can be done by special sliding hoisting points that permit to properly balance the weight even if unbalanced. They are supplied in pair, by the meter, complete with two hoisting points each bar.

- **BSA01**

REMARK: just for MC-CX cabinets



INNER DOORS

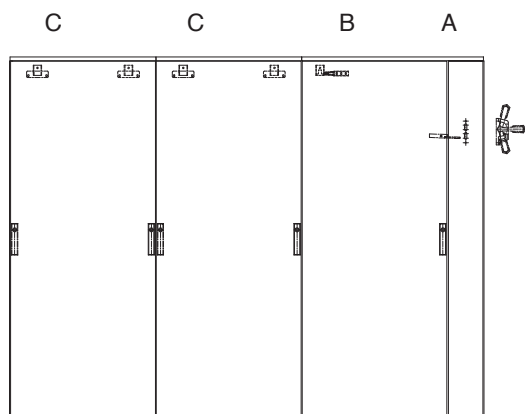
Manufactured in EN 1.4301 (AISI 304) s/s, finely satin-finished and protected, thickness 20/10, it is delivered in assembling kit and is used to install equipment inside the cabinets. The gap between the inner door and the door can be adjusted to two depth of 65 or 110 mm. The inner door can be right- or left-hinged. It can stand instruments up to a maximum weight of 30 Kg. Protection degree IP20 (IP54 on demand). Drillings can be made to order. For cabinets w 1200 the special upright, item kit CP1800 (for h.1800) or kit CP2000 (for h.2000) must be ordered.

SINGLE ITEM.	SIZES		FOR CABINET SERIES	
	A	B		
CP0616	490	1491	L.600	H.1600
CP0618	490	1691	L.600	H.1800
CP0620	490	1891	L.600	H.2000
CP0816	690	1691	L.800	H.1600
CP0818	690	1691	L.800	H.1800
CP0820	690	1891	L.800	H.2000
CP1018	890	1691	L.1000	H.1800
CP1020	890	1891	L.1000	H.2000

When an inner door is assembled on any cabinet L.1200 a removable central upright must always be used:

FOR CABINETS L 1200	UPRIGHT REQUIRED
MC H 1800	MMC18
MC H 2000	MMC20
CX H 1800	MCX18
CX H 2000	MCX20
CC H 1600	MCC16
CC H 1800	MCC18

Also, for cabinets series CC two uprights code MLCC16 (for H.1600) or MLCC18 (for cabinets H.1800) are required



INTERLOCKS

Mechanical system that allows to establish a priority of opening of the doors for cabinets assembled in battery, it is available in three types: disconnecting switch interlock, primary interlock and secondary interlock. They have to be ordered and applied as shown on the drawing.

A) Disconnecter interlock CODE MKP.IS (Bolted panel)

B) Primary interlock CODE MKP.PR (Door with lock on the panel side or towards the cabinet outside – interlock opposite to the lock)

C) Secondary interlock CODE MKP.SE (Door with right or left lock, at choice – interlock on the same side as the lock)

REMARK: when using on the CX series, use an additional crosspiece

- **TRS06** for L.600
- **TRS08** for L.800
- **TRS10** for L.1000
- **TRS12** for L.1200



SLASH-TYPE CLOSURES

For use in place of the standard fairlead, they are highly recommended where easy cable access is desired and no special tightness is required. The skirting board is essential with this type of closure.

- **PCG0600** - for cabinets CX L.600
- **PCG0800** - for cabinets CX L.800
- **PCG1000** - for cabinets CX L.1000
- **PCG1200** - for cabinets CX L.1200

REMARK: for cabinets L.1600 no. 2 PCG0800 must be ordered



CROSS ELEMENTS FOR DOOR:

Section 20x20mm.

Available for the doors of all cabinets. Designed to be secured directly to the inner frame by self-tapping screws diam. 5.5 and by bi-adhesive tape to the door. They are the ideal fixing to secure cableways, sheaths or cables and/or to stiffen widely drilled doors

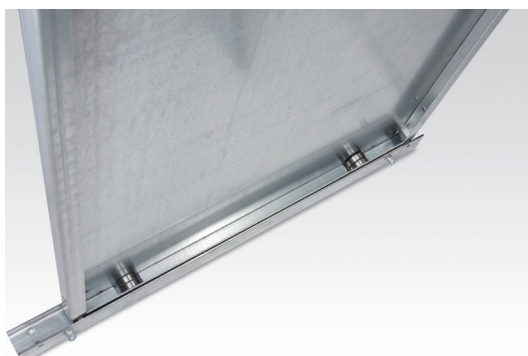
- **PRP256** - for width. 600
- **PRP258** - for width. 800
- **PRP250** - for width. 1000



HOISTING EYEBOLTS

Available both in galvanized steel and stainless steel, they are supplied in kits of 4 pieces and are recommended when single modules of limited weight have to be handled. Max hoisting load: 450 Kg for per pair of eyebolts.

- **GZ04** - Kit of no 4 eyebolts, galvanized - for cabinets L.600-800-1000-1200
- **GZ06** - Kit of no. 6 eyebolts, galvanized - for cabinets L.1600
- **G104** - Kit of no. 4 eyebolts, galvanized - for cabinets L.600-800-1000-1200
- **G106** - Kit of no. 6 eyebolts, galvanized - for cabinets L.1600

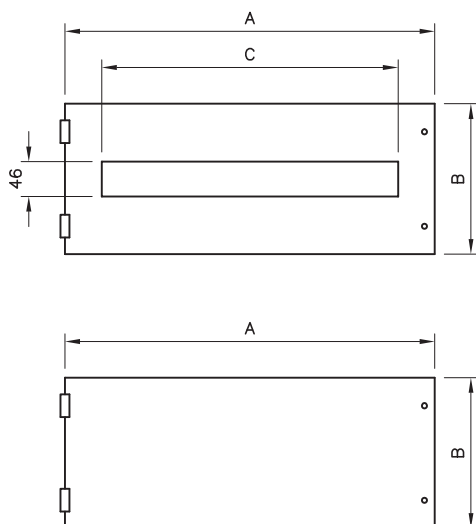


SLIDE GUIDES

Designed and manufactured to facilitate the introduction into the cabinet, through the side panel, of inner plates made of several modules, factory assembled, though of a considerable weight. The kit includes a lower guide, the sliding rollers for application to the plate, and the screws for assembling. Available in four lengths:

- **GSP06** - pair of sliding guides for cabinets L.600
- **GSP08** - pair of sliding guides for cabinets L.800
- **GSP10** - pair of sliding guides for cabinets L.1000
- **GSP12** - pair of sliding guides for cabinets L.1200

(*) **REMARK:** two slide guide GS08 are required for cabinets L.1600, only for the series MC CX



PANELS

The front panels, available in 3 heights (200, 400, and 600 mm) are hinged on one side while on the other have a screw closure. Available either drilled or solid (the latter can be drilled to drawing).

The useful compartment for panel housing is 1.600 mm. for cabinets having nominal height 1.800 mm. and 1.800 mm. for cabinet having nominal height 2.000 mm. The gap between panels and the front door can be 100 mm or 70 mm.

ITEM.	OUT. SIZES			NO. OF MODULES PER PANEL	FOR FRAMES
	A	B	C		
PMF0620	480	200	396	22	TM-TC L.600
PMF0640	480	400	396	22	TM-TC L.600
PMF0660	480	600	396	22	TM-TC L.600
PMC0620	480	200		CIECO-BLIND	TM-TC L.600
PMC0640	480	400		CIECO-BLIND	TM-TC L.600
PMC0660	480	600		CIECO-BLIND	TM-TC L.600
PMF0820	680	200	594	33	TM-TC L.800
PMF0840	680	400	594	33	TM-TC L.800
PMF0860	680	600	594	33	TM-TC L.800
PMC0820	680	200		CIECO-BLIND	TM-TC L.800
PMC0840	680	400		CIECO-BLIND	TM-TC L.800
PMC0860	680	600		CIECO-BLIND	TM-TC L.800
PMF1020	880	200	792	44	TM-TC L.1000
PMF1040	880	400	792	44	TM-TC L.1000
PMF1060	880	600	792	44	TM-TC L.1000
PMC1020	880	200		CIECO-BLIND	TM-TC L.1000
PMC1040	880	400		CIECO-BLIND	TM-TC L.1000
PMC1040	880	600		CIECO-BLIND	TM-TC L.1000



WORK TABLETOPS

Made of AISI 304 s/s, 2B finishing; available in 3 widths and fit for being installed inside either on compact cabinets or on modular ones. To be fixed to the inner frames of the doors, they are equipped with supporting bracket

- **PL0600** for doors L.600
- **PL0800** for doors L.800
- **PL1000** for doors L.1000



IP20

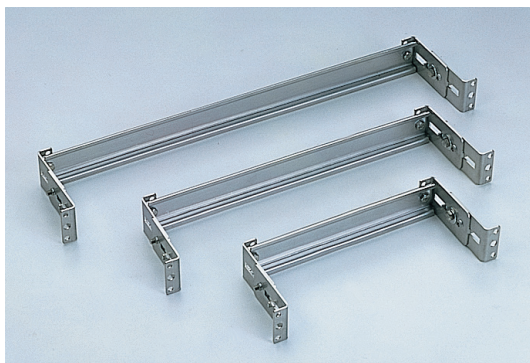
SYSTEMS FOR MODULAR SWITCHES

The modular cabinets series MC/CX are particularly suitable to accommodate modular switches. This application requires the matching frame formed by 2 pre-drilled uprights with balancing panels and assembling screws.

- **TM0618:** for L. 600 H. 1800
- **TM0620:** for L. 600 H. 2000
- **TM0818:** for L. 800 H. 1800
- **TM0820:** for L. 800 H. 2000
- **TM1018:** for L. 1000 H. 1800
- **TM1020:** for L. 1000 H. 2000

When installing an inner door on any cabinet L.1200 a removable central uprights must always be used:

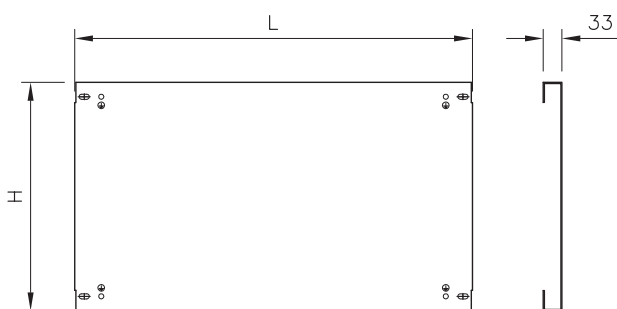
FOR CABINETS L 1200	UPRIGHT TO BE USED
MC H 1800	MMC18
MC H 2000	MMC20
CX H 1800	MCX18
CX H 2000	MCX20



SUPPORTS WITH DIN BARS

Delivered with drilled standard panels, can be ordered separately for the assembling of special equipment or to be accommodated behind blind panels. They come complete with a pair of sturdy rests, DIN bar and corresponding bolts and screws; all EN 1.4301 (AISI 304) s/s execution.

ITEM.	FOR COMPACT CABINET
SDM06	L 1200
SDM08	L 800 e L 1600
SDM10	L 1000



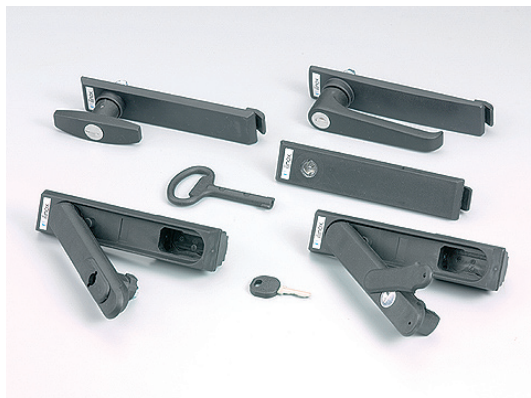
PARTIAL INNER PLATES FOR MODULAR PANELS

Partial plates for modular panels to be always combined with the plate supporting uprights for the MC – CX series

ITEM.	X	Y	FOR PANELS CODE
PA0502	500	200	PMC0620 PMF0620
PA0504	500	400	PMC0640 PMF0640
PA0506	500	200	PMC0660 PMF0660
PA0702	700	200	PMC0820 PMF0820
PA0704	700	400	PMC0840 PMF0840
PA0706	700	600	PMC0860 PMF0860
PA0902	900	200	PMC1020 PMF1020
PA0904	900	400	PMC1040 PMF1040
PA0906	900	600	PMC1060 PMF1060

PLATE SUPPORTING UPRIGHTS

ITEM.	H
MSPA18	1800
MSPA20	2000



RATCHET LOCK

The standard outfit for all cabinets includes the ratchet lock lt. SG329.
Various optional locks are however available, all perfectly interchangeable with the standard ones, either with low-voltage or Yale key.

ITEM.	TYPE	EXTERNAL	INSERT MATERIAL
SG321	“T” handle key EK333(*)	black polyamides	A.304 s/s
SG327	“L” handle key EK333(*)	black polyamides	A.304 s/s
SG328	rotating handle key EK333(*)	black polyamides	A.304 s/s
SG329(**)	box lock - twin-comb insert	black polyamides	A.304 s/s
SG330(**)	rotating handle with twin-comb insert	black polyamides	Stainless steel

REMARKS:

(*) Key EK333 - Yale type - is supplied with the lock. Different key coding can be provided on request

(**) Lock item SG215S is supplied without key. Optional key, to be ordered separately: item SG205CG - not s/s.

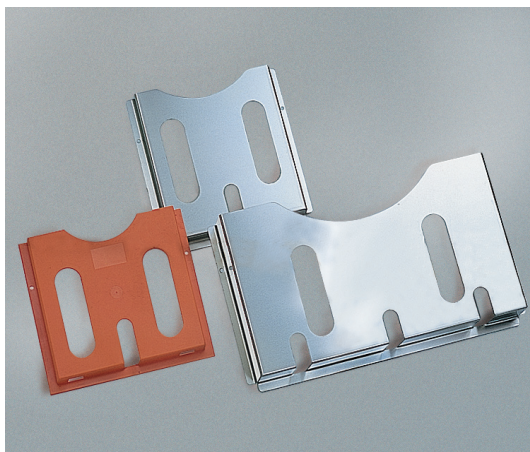


DIAGRAM HOLDING POCKET

Delivered in assembling kit with bi-adhesive tape, available in 3 models:

- **SG109**: orange ABS, for A4 documents
- **SG108**: AISI 304 stainless steel, for A4 documents
- **SG110**: AISI 304 stainless steel, for A3 documents



FIXED LECTERN

IP66

Made of AISI 304 s/s finely satin-finished and protected, it is fitted directly to the door. Their execution and shape enable good availability of space, even in restricted space conditions. The handy lower panel also allows wiring without the need for pushbuttons, instruments or raceways to be secured to movable or removable part. The top surface is perfectly smooth and free from gaps for improved cleaning. Three lengths are available:

- **SA531** - fixed lectern L.600
- **SA532** - fixed lectern L.800
- **SA535** - fixed lectern L.1000



ANTI-CLOSING DEVICE

Made of AISI 304 stainless steel, recommended to avoid the door accidental closing. Delivered in assembling kit.

- **DAC02**



SET OF 4 CASTERS DIAM. 80 WITH S/S. SUPPORT

Grey rubber wheels, two with double-action brake. Capacity 50 kg each

- RPF080



SET OF FOOT GUARDS FOR WHEELS Ø 80

Set of 4 safety guards made of S.S. for application to wheels, to prevent accidental foot crushing.

- SP080



TAPS



The taps, without lamp, available in various versions, are to be fixed on 35mm DIN rail (to be ordered separately) and connected by screwless press-on terminals.

TECHNICAL DATA

- **Connexion:** 3 press-on terminals for flexible wire
- **Fixing:** Clip for assembling on 35mm DIN rail EN 50022
- **Housing:** UL94 V-0 plastic
- **Sizes:** 92 x 62 x 48 mm
- **Weight:** 0.20 Kg
- **Assembling position:** at customer's choice
- **Oper. Temp.:** -45°C +70°C
- **Protection degree:** IP20

CODES	VOLTAGE	TAP	CURRENT	APPROVAL
PSFD	250V AC	GERMANY	16.0 A	
PSFF	250V AC	FRANCE	16.0 A	
PSFCH	250V AC	SWITZERLAND	10.0 A	
PSFGB	250V AC	GREAT BRITAIN/ IRELAND	13.0 A	
PSFUS	125V AC	USA/CANADA	15.0 A	c RU us
PSFI	250V AC	ITALY	16.0 A	



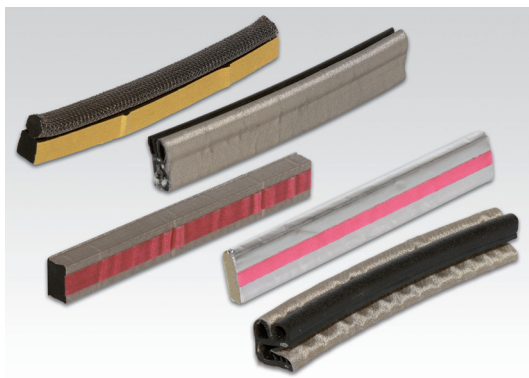
LAMP

For use in control board featuring limited dimensions and high density of components, they are delivered complete with fixing stirrups and screws for easy installation anywhere inside the cabinet.
Available either without tap or with several types of taps.

TECHNICAL DATA

- **Absorbed power:** 11 W (incandescent lamp 75W)
- **Lighting power:** 900 Lm
- **Bulb:** energy-saving bulb, bulb socket 2G7 10.000 h
- **Switch:** ON/OFF switch for lighting lamps (PIR motion detector on request)
- **Terminal** 2,5 mm² with traction-proof device
- **Max. torque** 0,8 Nm
- **Fixing:** by screw, M5, distance 300 mm
- **Housing:** light grey UL94 V-D plastic
- **Sizes:** 345 x 91 x 40 mm
- **Installation:** narrow side / large side
- **Temp. Of work envir.:** -20°C +50° C (-4°F +122°F)
- **Protection degree:** IP20

CODES	VOLTAGE	TAP	CURRENT	APPROVAL
LP230D	230V AC 50/60 HZ	GERMANY	16.0 A	VDE
LP230F	230V AC 50/60 HZ	FRANCE	16.0 A	VDE
LP230CH	230V AC 50/60 HZ	SWITZERLAND	10.0 A	VDE
LP230GB	230V AC 50/60 HZ	GREAT BRITAIN/ IRELAND	13.0 A	VDE
LP120US	120V AC 50/60 HZ	USA/CANADA	15.0 A	c RU us
LP230	230V AC 50/60 HZ	NONE		VDE + c RU us
LP120	120V AC 50/60 HZ	NONE		c RU us



GARNITURE ELECTROCONDUCTRICE emc[®]

La garniture électroconductrice est nécessaire pour le blindage du champ électrique ou magnétique.

L'élasticité de la garniture est obtenue par l'emploi de mousses de matériaux divers: silicones, néoprènes ou epdm selon les conditions d'emploi.

- GCE

computer cabinets

APC

64

Computer cabinets

APC

Accessories





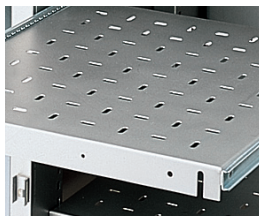
ACCESSORIES FOR COMPUTER CABINETS

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• WHEELS



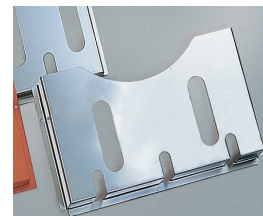
• APE66



• SKIRTING PLATE



• DIAGRAM HOLDING POCKETS



COMPUTER CABINET APC

- Made of EN 1.4301 (Aisi 304) s/s, satin- finishing with $Ra < 0.38$ micron.
- Self-bearing structure, closed, welded in inert atmosphere. All edges feature 25 mm spaced drilling to house front-setting M5 and M6 cages for accessories securing.
- right-hand hinged front doors, with inner hinges, all stainless steel manufacture: 120° opening according to CEI EN 60204-1 rules. The upper door is for video protection and includes a layered safety glass, 3+3 mm thick for videos ranging from 14" to 19" in size depending on the type and position of the screen. The lower door is blind and rests 28 mm above the frame bottom to allow easy opening even when no skirting plate, feet or wheels are installed.
- The locks are of the multi-point ratched type, with steel rods and wing nut keylocks.
- Bolted rear panel, fitted with special sucker-type spacers in hard rubber which, in addition to making a seal on the screw, are leak-proof. The panel can be replaced by a hinged door, on request.
- Protection degree: IP65
- Heat dissipation: when the operation conditions are not too heavy (installation of one PC with its screen and printer for a total of 300 W, with Δt 15°C and 3 sides and the top of the cabinet free, the surface can dissipate all of the installed power. For more detailed calculations, see section "CONDITIONING AND VENTILATION"

Single-door base cabinet with extractable keyboard and no lower compartment for printer housing

The extractable plane, for keyboard fixing (max sizes 480x190 mm) when open allows the use of the keyboard while keeping IP20 protection degree for the cabinet. The front board of the extractable plane, tilting, can be used mouse rest

- **APC608TE**

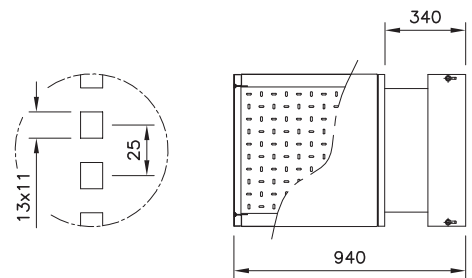
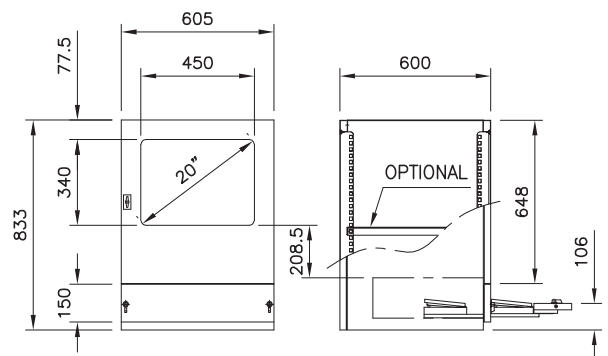


IP65 EN 60 529



EN 60204-1

89/392/EEC



Two-door base cabinet with extractable plane for keyboard and lower compartment for printer housing

The extractable plane, for keyboard fixing (max sizes 480x190 mm) when open allows the use of the keyboard while keeping IP20 protection for the cabinet. The front part of the extractable panel, tilting, can be used mouse rest. The lower compartment can accommodate shelves, drawers, inner plates or 19" rack section irons, all optional and available on request.

• APC616TE

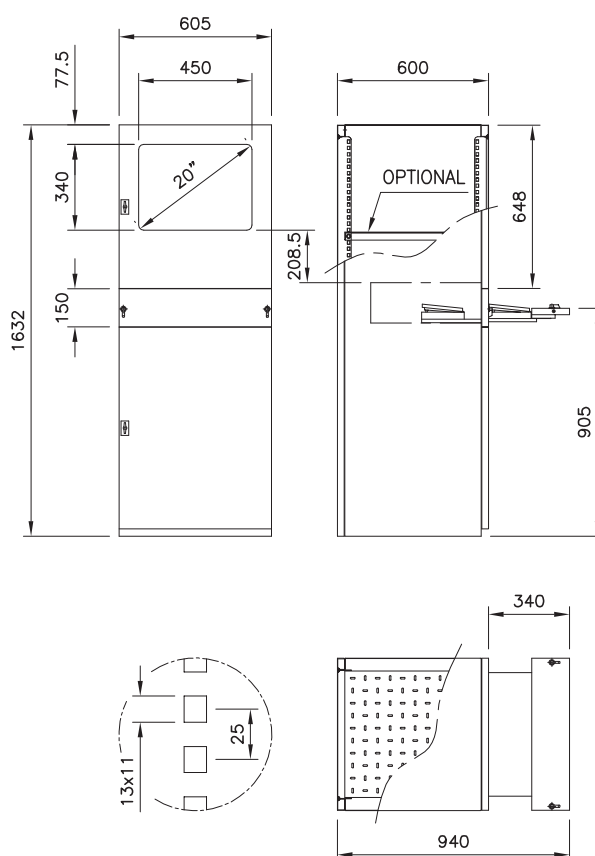


IP65 EN 60 529



EN 60204-1

89/392/EEC



Single front door cabinet, with fixed console and without lower compartment for printer housing.

The console can be used to support exposed conventional keyboards or to accommodate recessed industrial keyboards (the console is usually delivered blind: piercing, if any, can be done if so requested at order).

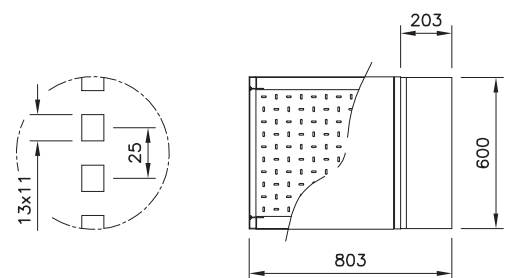
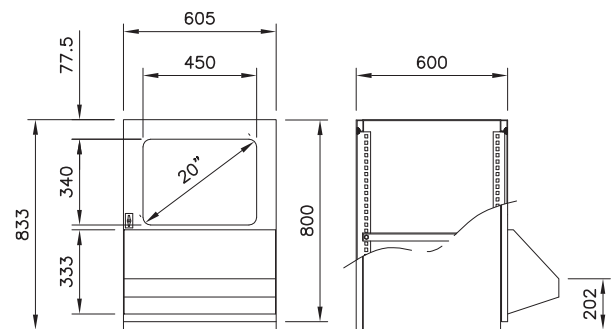
• **APC608C**



IP65 EN 60 529



EN 60204-1 89/392/EEC



Base cabinet with two front doors, fixed console and lower compartment for printer housing.

The console can be used to support exposed conventional keyboards or to house recessed industrial keyboards (the console is usually delivered blind: piercing, if any, can be done if so requested at order).

• APC616C

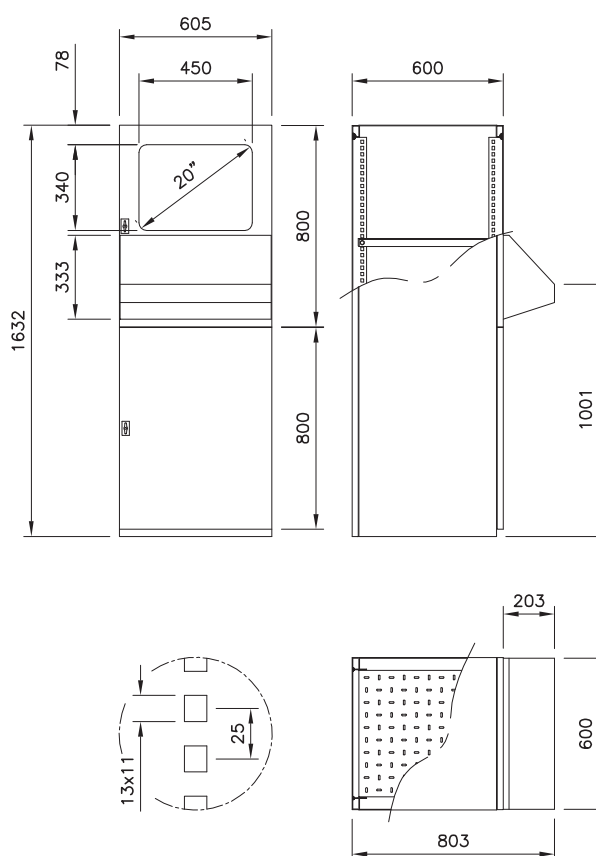


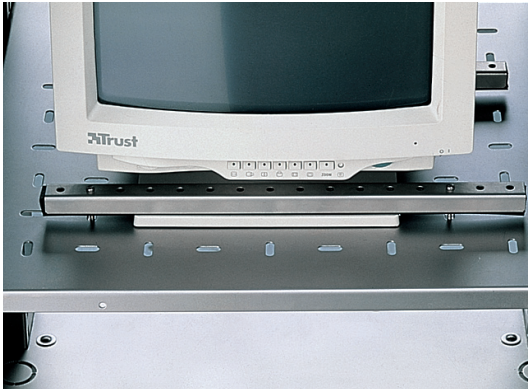
IP65 EN 60 529



EN 60204-1

89/392/EEC





PAIR OF STIRRUPS FOR VIDEO SECURING

Designed to secure the base of the tabletop screen to the support plane. Suitability should be checked before purchase, making sure the base of the video is sturdy enough to allow securing it, and sizes are correct.

- ASV



HORIZONTAL PARTITION BAFFLE

Made of AISI 304 S.S., pre-drilled for cable passage between the two compartments. Protection degree IP20. The very stiff structure makes it suitable for use as support plane, too.

- ASP066



EXTRACTABLE SHELF

Drilled extractable shelf for cabinet 600 x 600 mm. Same features as the shelf above, set on fully extractable guides, it is the ideal housing for form-fed printers fitted with their own paper tray, or for line-fed printers with printer holder (from computer shops). Shelf capacity 45 KGs

- APE66





FIXED SHELF, DRILLED, FOR CABINET, 600X600 MM.

To support screens, CPU, fixed printers and all that doesn't require frequent pulling out, it is drilled so that the elements it supports can be fixed, and air circulation inside the cabinet is improved. Installation by screws supplied with the cabinet which, by matching similar slots in the uprights enable perfect adjustment on the whole length.

- APF66



EXTRACTABLE DRAWER FOR CONTINUOUS FORM PRINTERS FOR CABINET 600 X 600.

Set on fully extractable guides, it has been designed to house printers featuring max. overall dimensions 490 x 550 mm. Special attention has been paid to details (paper path, the path of supply cables, accessibility, etc.) while dimensions have been kept to the minimum. Drawer bearing capacity kgs.40

- ACS66



PAIR OF 19" RACK SECTION IRONS

For installation either on cabinet upper or lower compartment, they can house 16 HE units

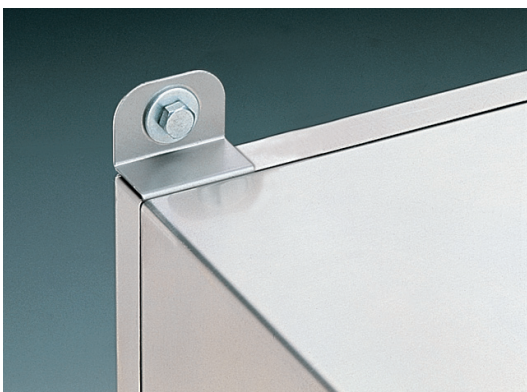
- APR16



SKIRTING BOARD

Modular, accessibility on 3 sides, it allows fixing of wheels or adjustable feet. The bottom is open to the ground.

- **ZA06106** - Skirting board 600x600 x 100 h.
- **ZA06206** - Skirting board 600x600 x 200 h.



SET OF FOUR FASTENERS FOR WALL MOUNTING

Fit for application on cabinets with back panel, they are supplied on request with cabinets art. APC608C and APC608TE.

- **SP020**



REAR DOOR

Made of AISI 304 S.S., fine satin-finished and protected, it can replace the back panel in items APC616C and APC616TE.

- **P0616S**



INNER PLATE 500 X 750

Inner plate for lower compartment, to be secured to the most backwards part of the cabinet, it features flanged edges. It cannot be used when extractable shelves and/or printer drawer are installed.

- PA0575



SET OF 4 CASTERS DIAM. 80 WITH S/S. SUPPORT

Grey rubber wheels, two of which have a double-action brake. Capacity 50 kg each

- RPF080



ELECTROCONDUCTIVE GASKET

emc[®]

The electroconductive basket is required to shield the electric or magnetic field.

The basket elasticity is achieved using various foamed materials: silicone, neoprene or epdm depending on the conditions of work.

- GCE



DIAGRAM HOLDING POCKET

Delivered in assembling kit with bi-adhesive tape, they come in 3 models:

- **SG109** - orange ABS, for A4 documents
- **SG108** - AISI 304 stainless steel, for A4 documents
- **SG110** - AISI 304 stainless steel, for A3 documents



ADJUSTABLE FEET

Cylindrical, perfectly cleanable, AISI 304 S/S.

- **SA2000** - adjustable from 125 to 165 mm
- **SA2200** - adjustable from 165 to 205 mm





ACCESSORIES LECTERNS

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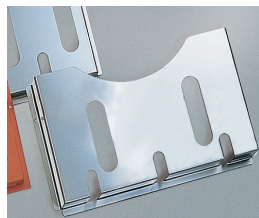
• SKIRTING



• GASKET



• DIAGRAM HOLDING POCKET



• FEET



LECTERNS

- Material: stainless steel AISI 304 scotch brite satin-finished and protected on one side
- Container obtained from a single steel sheet
- Fairlead plate with seal
- Solid doors
- Box type locks with 3-point control rods
- Inner hinges made of stainless steel, 120° according to IEC recommendation EN 60204-1
- Maximum weight on the door: 12 Kg.
- Lip seal made from foamed polyurethan
- Internal plate made of zinc-plated sheet sendzimir EN 10142; thickness 25/10 fastened at the bottom of the container by means of stud bolt made of stainless steel and supported by appropriate rests in ABS, which relieve the stud bolts of the weight of the plate and the appliances adopted
- Pre-arrangement earthing as per rules in force
- Protection degree IP66 for lecterns with one door, IP65 for lecterns with 2 doors



SKIRTING

Simple and sturdy execution, they are made of EN 1.4301 s/s (AISI 304) carefully satin-finished and protected. Pre-arranged for side and back cable entry (or front) and for application of feet, where the need be ; the bottom is open to the ground: on request, they can be delivered with panels for bottom closing that can be used also as cable supports. Protection degree is IP20 with bottom pannel in place. Can be delivered either in assembling kit or pre-assembled, complete with the necessary kit for securing to the ground. Available in 100 and 200 mm height.

ITEM.	FOR SMALL CABINETS	HEIGHT MM	BOTTOM CLOSING PANEL
ZA06104	QP600	H.100	P0604
ZA06204	QP600	H.200	P0604
ZA08104	QP800	H.100	P0804
ZA08204	QP800	H.200	P0804
ZA08105	QLP812	H.100	P0805
ZA08205	QLP812	H.200	P0805
ZA10104	QP1000	H.100	P1004
ZA10204	QP1000	H.200	P1004
ZA12104	QP1200	H.100	P1204
ZA12204	QP1200	H.200	P1204
ZA16104	QP1600	H.100	P1604
ZA16204	QP1600	H.200	P1604



RATCHET LOCK

Various optional locks are available, all perfectly interchangeable with the standard ones, either with low-voltage or Yale key.

ITEM.	TYPE	OUTSIDE	MATERIAL INSERT	TONGUE
SG215S(**)	box lock - twin-comb insert	S/S	S/S	galvanized
SG221I	"T" handle key	black polyamides	S/S	S/S
SG226I	wing nut lock key	black polyamides	S/S	S/S
SG227I	"L" handle key	black polyamides	S/S	S/S

REMARKS:

(*) Key EK333 - Yale type - is supplied with the lock. Different key coding can be provided on request.

(**) Lock item SG215S are supplied without key. Optional key, to be ordered separately: item SG205CG – not s/s. To receive also the tongue in A.304 s/s, order It. KIT SG215.

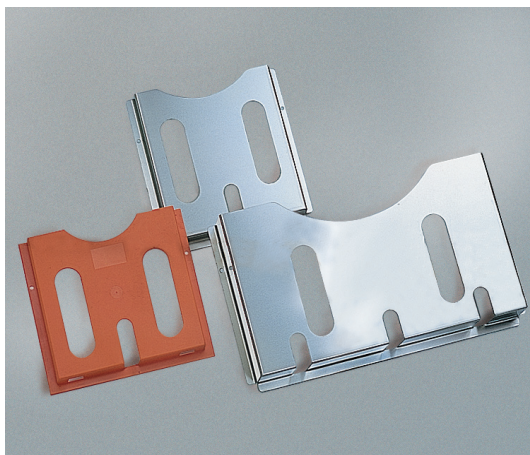


DIAGRAM HOLDING POCKET

Delivered in assembling kit with bi-adhesive tape, available in 3 models:

- **SG109**: orange ABS, for A4 documents
- **SG108**: AISI 304 stainless steel, for A4 documents
- **SG110**: AISI 304 stainless steel, for A3 documents



ADJUSTABLE FEET

Cylindrical foot perfectly cleanable in AISI 304 s/s

- **SA2000**: adjustable from 125 à 165 mm
- **SA2200**: adjustable from 165 à 205 mm



GAS-OPERATED SPRINGS

The gas-operated springs are designed to open the doors upwards (seagull-wings); they facilitate opening and feature a braking device on top of the wing, reaching a balanced position when the door is open. Different capacities are available to meet specific requirements.

When ordering the springs, the weight and position of instruments and/or equipment, if any, should be mentioned so that the spring best suiting your requirements can be determined.

- **SA901** - pair of gas-controlled spring



ELECTROCONDUCTIVE GASKET

emc[®]

The electroconductive gasket is required to shield the electric or magnetic field.

The elasticity of the gasket is obtained using various foamed materials: silicone, neoprene or epdm depending on the conditions of use.

- **GCE**

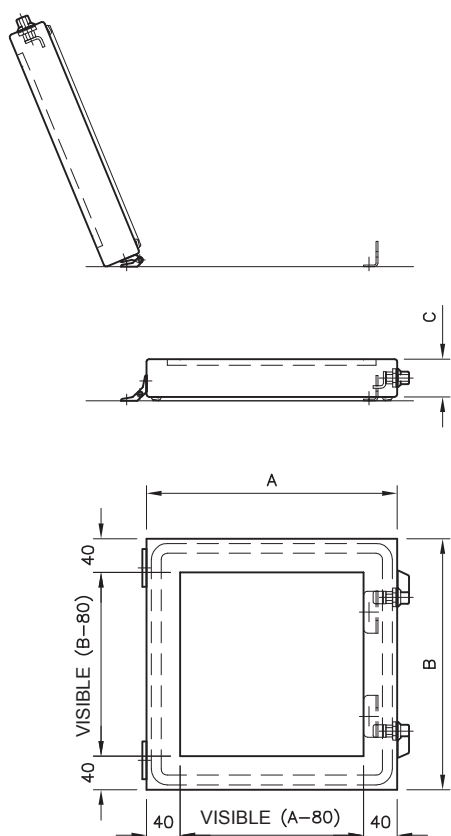
OVERDOORS

Realized in stainless steel X5 CrNi 18/10 EN 1.4301 (AISI 304) finely satin-finished, with 3+3 layer shatterproof glass, are suitable when instrumentations applied on the external door have to be protected. Complete with wing-nut lock, galvanized, black, with Yale type key and build-in seal, 180° opening. Protection degree IP65.

REMARK: when set on width exceeding the width of the over-door panel, the max. opening is 90°.

ITEM.	A	B	C
SV33/45	300	300	45
SV34/45	300	450	45
SV36/45	300	600	45
SV43/45	450	300	45
SV44/45	450	450	45
SV46/45	450	600	45
SV64/45	600	450	45
SV66/45	600	600	45
SV67/45	600	750	45
SV68/45	600	800	45
SV69/45	600	900	45
SV612/45	600	1200	45
SV77/45	750	750	45
SV710/45	750	1000	45
SV86/45	800	600	45
SV812/45	800	1200	45
SV106/45	1000	750	45

ITEM.	A	B	C
SV33/75	300	300	75
SV34/75	300	450	75
SV36/75	300	600	75
SV43/75	450	300	75
SV44/75	450	450	75
SV46/75	450	600	75
SV64/75	600	450	75
SV66/75	600	600	75
SV67/75	600	750	75
SV68/75	600	800	75
SV69/75	600	900	75
SV612/75	600	1200	75
SV77/75	750	750	75
SV710/75	750	1000	75
SV86/75	800	600	75
SV812/75	800	1200	75
SV106/75	1000	750	75



small cabinets



QM	QS	QVP	QLP	QV	QL
92	90	88	86	84	82

Small cabinets series	QL
Small cabinets series	QV
Small cabinets series	QLP
Small cabinets series	QVP
Small cabinets series	QS
Small cabinets series	QM
Accessories	





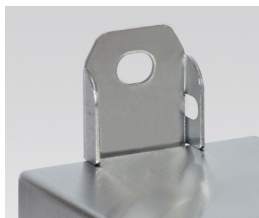
ACCESSORIES FOR SMALL CABINETS

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• SKIRTING BOARD



• WALL FIXING



• LOCK

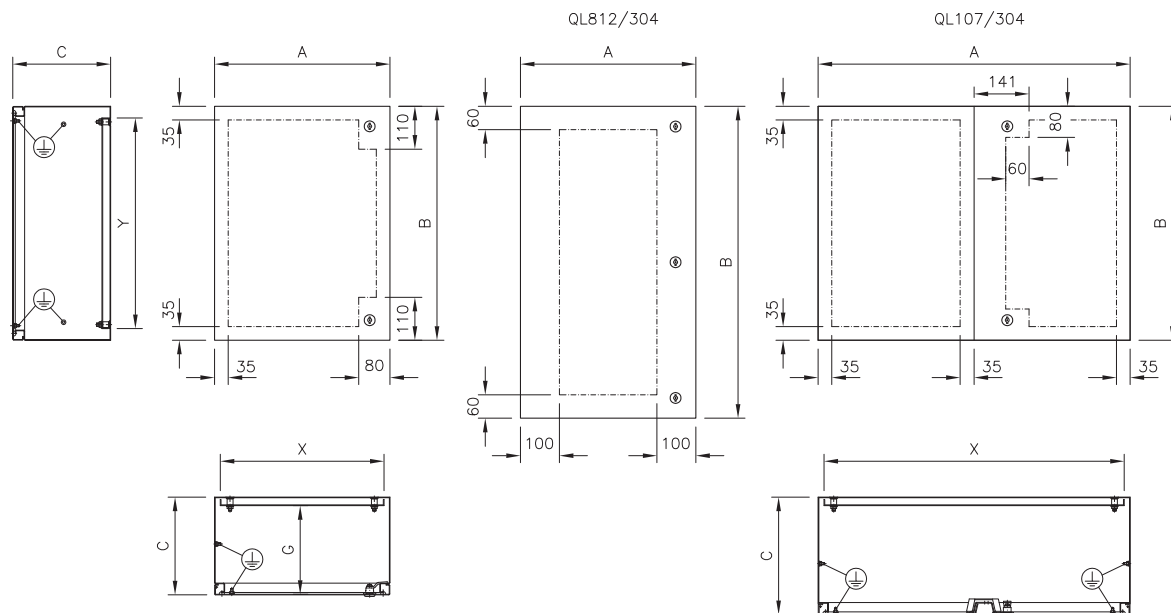


• CLOSING DEVICE DAC01



SMALL CABINETS SERIES QL

- Material: EN 1.4301 (AISI 304) or EN 1.4404 (AISI 316L) s/s finely glazed and protected on 1 side.
- Enclosure obtained from a single sheet with multi-bends shaping of the enclosure front edge.
- Fairlead plate not provided.
- Blind door.
- Doorlock with twin-comb mapping, standardized type Ø 3 for Low Tension, with s/s outside.
- S/s inner hinges, 120° opening according to CEI EN 60204-1 recommendations.
- Maximum weight admissible on the door: 12 kg.
- Seal of foamed polyurethane
- Inner plate of sendzimir EN 10142 galvanized sheet, secured to the bottom of the cabinet by s/s stud bolts
- Pre-arranged for earthing as per applicable rules.
- Protection degree: IP 66 for cabinets with 1 door; IP65 for cabinets with 2 doors.



Underwriters Laboratories

IP66

EN 60 529



TYPE NEMA

4X, 4, 12, 1

Standard UL508A - UL50 Standard 250



EN 60204-1
89/392/EEC



II 2 GD

EN 60079-0
EN 61241-0 EN 61241-1

SMALL CABINET					THICKNESS		INTERNAL PLATE		
ITEM.	A	B	C	MATERIAL	CONTAINER	DOOR	X	Y	G
QL33/304	300	800	180	AISI 304	12/10	15/10	270	240	158
QL33/316	300	300	180	AISI 316L	15/10	15/10	270	240	158
QL34/304	300	450	200	AISI 304	12/10	15/10	270	390	178
QL34/316	300	450	200	AISI 316L	15/10	15/10	270	390	178
QL36/304	300	600	250	AISI 304	12/10	15/10	270	540	228
QL36/316	300	600	250	AISI 316L	15/10	15/10	270	540	228
QL43/304	450	300	200	AISI 304	12/10	15/10	420	240	178
QL43/316	450	300	200	AISI 316L	15/10	15/10	420	240	178
QL44/304	450	450	200	AISI 304	12/10	15/10	420	390	178
QL44/316	450	450	200	AISI 316L	15/10	15/10	420	390	178
QL46/304	450	600	250	AISI 304	12/10	15/10	420	540	228
QL46/316	450	600	250	AISI 316L	15/10	15/10	420	540	228
QL64/304	600	450	250	AISI 304	12/10	15/10	570	390	228
QL64/316	600	450	250	AISI 316L	15/10	15/10	570	390	228
QL66/304	600	600	250	AISI 304	12/10	15/10	570	540	228
QL66/316	600	600	250	AISI 316L	15/10	15/10	570	540	228
QL66P/304	600	600	300	AISI 304	12/10	15/10	570	540	278
QL67/304	600	750	250	AISI 304	15/10	20/10	570	690	227
QL67/316	600	750	250	AISI 316L	15/10	20/10	570	690	227
QL69/304	600	900	250	AISI 304	15/10	20/10	570	840	227
QL69/316	600	900	250	AISI 316L	15/10	20/10	570	840	227
QL77/304	750	750	300	AISI 304	15/10	20/10	720	690	277
QL77/316	750	750	300	AISI 316L	15/10	20/10	720	690	277
QL710/304	750	1000	300	AISI 304	15/10	20/10	720	940	277
QL710/316	750	1000	300	AISI 316L	15/10	20/10	720	940	277
QL86/304	800	600	300	AISI 304	15/10	20/10	770	540	277
QL812/304	800	1200	320	AISI 304	15/10	20/10	770	1140	297
QL106/304	1000	600	300	AISI 304	15/10	20/10	970	540	277
QL107/304	1000	750	300	AISI 304	15/10	20/10	970	690	277

NOTE: For more information on certifications, contact our sales department
NOTE: Item QL107/304 can be certified UL NEMA 12

- MOD. 33 - 34 - 43 = 1 only central lock
- MOD. QL107 = two doors without central upright
- MOD. QL812 = three locks



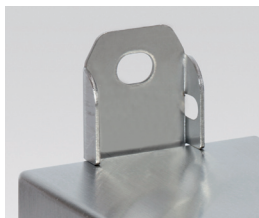
ACCESSORIES FOR SMALL CABINETS

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• RAIN PROTECTIONS



• WALL FIXING



• GAS-OPERATED SPRING

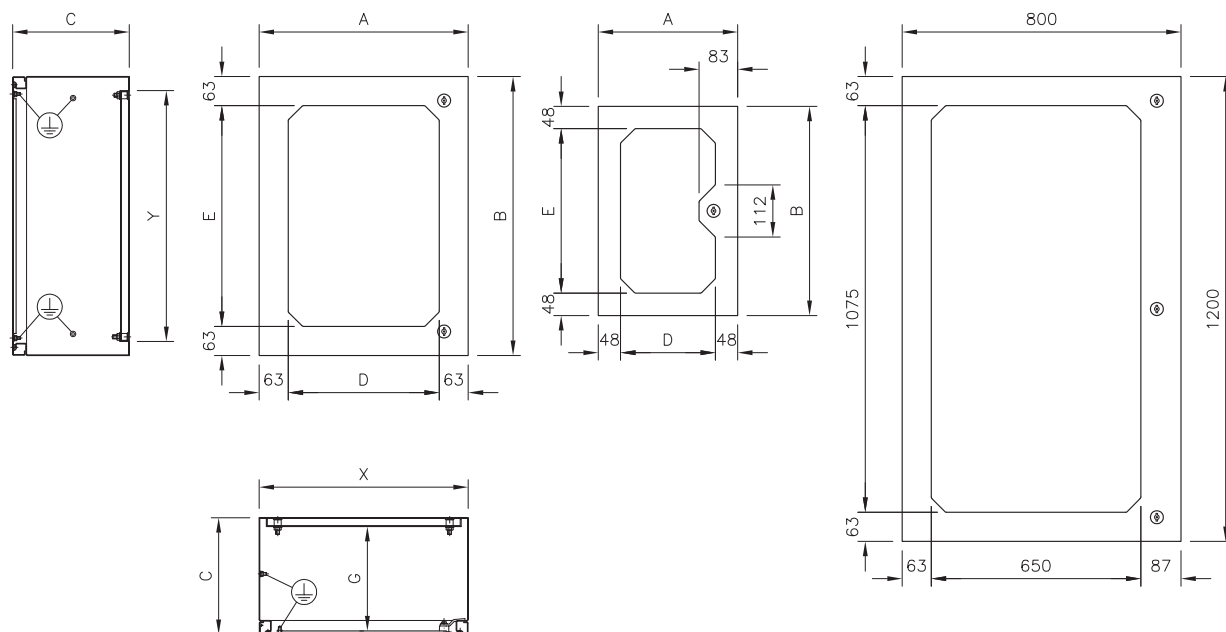


• LOCKS



SMALL CABINETS SERIES QV

- Material: EN 1.4301 (AISI 304) s/s finely glazed and protected on 1 side.
- Container obtained from a single sheet with multi-bends shaping of the envelope front edge.
- Fairlead plate : not provided
- Door with 3+3-layer shatterproof glass (pursuant to the applicable accident-prevention rules).
The sightglass is made of polycarbonate for models QV33-QV34-QV43.
- Doorlock: twin-comb, standardized type Ø 3 for Low Tension; outside parts made of s/s.
- Inner hinges made of s/s: 120° opening according to VDI 3231 recommendations.
- Seals of foamed polyurethane
- Inner plate made of sendzimir EN 10142 galvanized sheet, secured to the bottom of the cabinet by s/s stud bolts.
- Pre-arranged for earthing as per applicable rules
- Protection degree: IP66



Tested by KEMA Quality Italy	IP66	EN 60 529
UL[®] LISTED	TYPE NEMA 4X, 4, 12, 1	Standard UL508A - UL50 Standard 250
CE		EN 60204-1 89/392/EEC
Ex II 2 GD		EN 60079-0 EN 61241-0

SMALL CABINETS				VISIBLE SIZE		THICKNESS		INTERNAL PLATE		
ITEM.	A	B	C	D	E	CONTAINER	DOOR	X	Y	G
QV33/304	300	300	180	204	204	12/10	15/10	270	240	154
QV34/304	300	450	200	204	354	12/10	15/10	270	390	174
QV36/304	300	600	250	175	475	12/10	15/10	270	540	224
QV43/304	450	300	200	354	204	12/10	15/10	420	240	174
QV44/304	450	450	200	325	325	12/10	15/10	420	390	174
QV46/304	450	600	250	325	475	12/10	15/10	420	540	224
QV64/304	600	450	250	475	325	12/10	15/10	570	390	224
QV66/304	600	600	250	475	475	12/10	15/10	570	540	224
QV67/304	600	750	250	475	625	15/10	20/10	570	690	224
QV69/304	600	900	250	475	775	15/10	20/10	570	840	224
QV77/304	750	750	300	625	625	15/10	20/10	720	690	274
QV710/304	750	1000	300	625	875	15/10	20/10	720	940	274
QV812/304	800	1200	320	650	1076	15/10	20/10	770	1140	294

NOTE: • MOD. QV33 - 34 - 43 = 1 only central lock and sightglass made of polycarbonate, thic kn. 3 mm
• MOD. QV812 = 3 locks

NOTE: For more information on certifications, contact our sales department



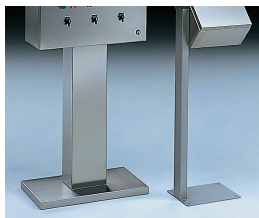
ACCESSORIES FOR SMALL CABINETS

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• OUTSIDE DOORS



• PEDESTALS



• OVERDOORS

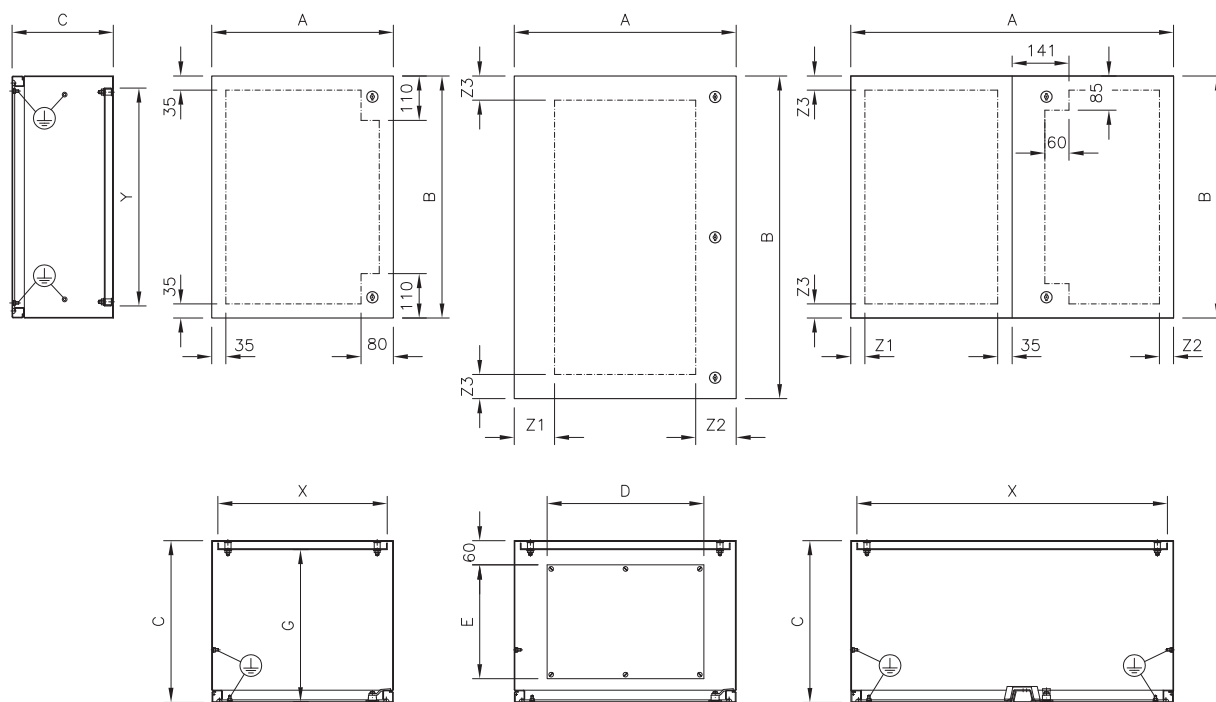


• ANTICLOSING DEVICE



SMALL CABINETS SERIES QLP

- Material: EN 1.4301 (AISI 304) stainless steel finely glazed and protected on 1 side.
- Container obtained from a single sheet, multi-bend shaping of the envelope front edge.
- Fairlead plate with seal (only for cabinets h1200 - h1600).
- Blind door - reversible
- Doorlock: twin-comb type standardized type, Ø 3 for Low Tension, s/s outside
- S/s inner hinges: 120° opening as per CEI EN 60204-1 recommendations.
- Maximum weight admissible on the door: 12 kg.
- Seals made of foamed polyurethane
- Inner plate made of sendzimir EN 10142 galvanized sheet secured to the bottom of the container by M8 threaded bolts delivered with the plate (except QLP616-QLP816)
- Pre-arrangement for earthing as per applicable rules
- Protection degree IP66 for cabinets with 1 door, IP65 for cabinets with 2 doors



IP66

EN 60 529

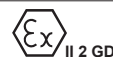


TYPE NEMA 4X, 4, 12, 1

Standard UL508A - UL50 Standard 250



EN 60204-1
89/392/EEC



EN 60 079-0
EN 61241-0

SMALL CABINET				THICKNESS		INNER PLATE			FAIRLEAD PLATE		USELESS SPACE		
ITEM.	A	B	C	SMALL CABINET	DOOR	X	Y	G	D	E	Z1	Z2	Z3
QLP46	450	600	400	15/10	15/10	420	540	377	-	-	-	-	-
QLP66	600	600	400	15/10	15/10	570	540	377	-	-	-	-	-
QLP68	600	800	400	15/10	20/10	570	740	377	-	-	-	-	-
QLP612	600	1200	400	15/10	20/10	570	1140	377	422	282	100	100	-
QLP616	605	1600	400	15/10	20/10	522	1522	369	422	282	84	112	-
QLP812	800	1200	400	15/10	20/10	770	1140	377	622	282	100	100	-
QLP816	805	1600	400	15/10	20/10	722	1522	369	622	282	84	112	-
QLP128	1203	800	400	15/10	20/10	1170	740	377	-	-	40	40	40
QLP168	1603	800	400	15/10	20/10	1522	722	369	-	-	40	40	40

NOTE: Items. QLP 128/168 are UL NEMA 12 certified and have two doors without center upright.
Items. QLP616/QLP816 are equipped with hoisting eyebolts and inner plate ajustables as to depth.

ART. QLP612-616-812-816 with fairlead plate and 3 locks
Door useful size: A - (Z1 + Z2)

NOTE: For more information on certifications, contact our sales department



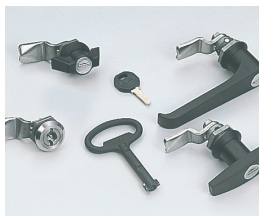
ACCESSORIES FOR SMALL CABINETS

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• DIAGRAM HOLDING POCKETS



• LOCKS



• ANTICLOSING DEVICE

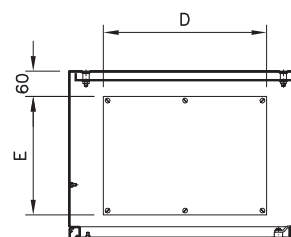
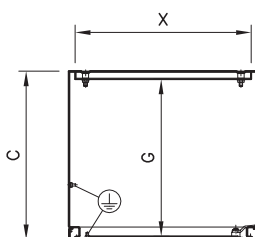
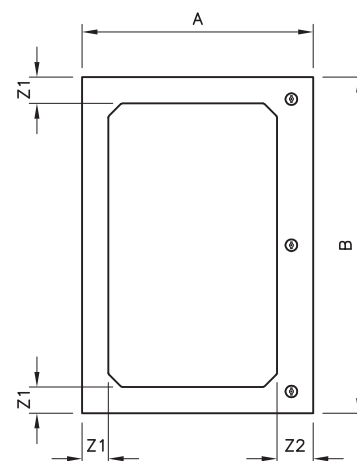
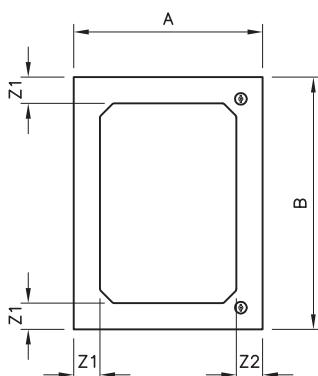
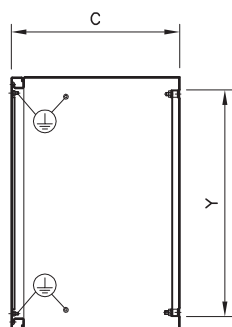


• ADJUSTABLE FEET



SMALL CABINETS SERIES QVP

- Material: EN 1.4301 (AISI 304) s/s steel finely glazed and protected on 1 side.
- Container obtained from a single sheet with multi-bends shaping of the envelope front edge.
- Fairlead plate: with seal (only for cabinets H.1200 and H.1600)
- Reversible door with 3+3-layer shatterproof glass (in compliance with the applicable accident prevention rules).
- Door lock with twin comb mapping, standardized type Ø 3 for Low Tension, with s/s outside.
- S/s inner hinges, 120° opening as per CEI EN 60204-1 recommendations
- Seals of foamed polyurethane
- Inner plate of sendzimir EN 10142 galvanized sheet secured to the bottom of the container by s/s M8 stud bolts
- Pre-arranged for earthing as per applicable rules
- Protection degree IP66



Tested by
KEMA Quality Italy

IP66

EN 60 529



TYPE
NEMA

4X, 4, 12, 1

Standard UL508A - UL50
Standard 250



EN 60204-1
89/392/EEC

SMALL CABINET				THICKNESS		INNER PLATE			FAIRLEAD PLATE		USELESS SPACE	
ITEM.	A	B	C	SMALL CABINET	DOOR	X	Y	G	D	E	Z1	Z2
QVP46	450	600	400	15/10	15/10	420	540	372	-	-	62	62
QVP66	600	600	400	15/10	15/10	570	540	372	-	-	62	62
QVP68	600	800	400	15/10	20/10	570	740	372	-	-	62	62
QVP612	600	1200	400	15/10	20/10	570	1140	372	422	282	62	87
QVP616	605	1600	400	15/10	20/10	522	1522	363	422	282	71	96
QVP812	800	1200	400	15/10	20/10	770	1140	372	622	282	62	87
QVP816	805	1600	400	15/10	20/10	722	1522	363	622	282	71	96

NOTE: QVP612-616-812-816: with fairlead plate and 3 looks

Items. QLP616/QLP816 are equipped with hoisting eyebolts and inner plate ajustables as to depth

NOTE: For more information on certifications, contact our sales department



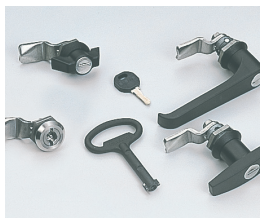
ACCESSORIES FOR SMALL CABINETS

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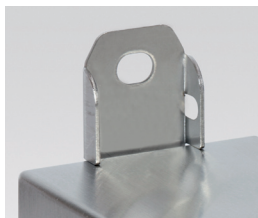
• RAIN PROTECTIONS



• LOCKS



• WALL FIXING

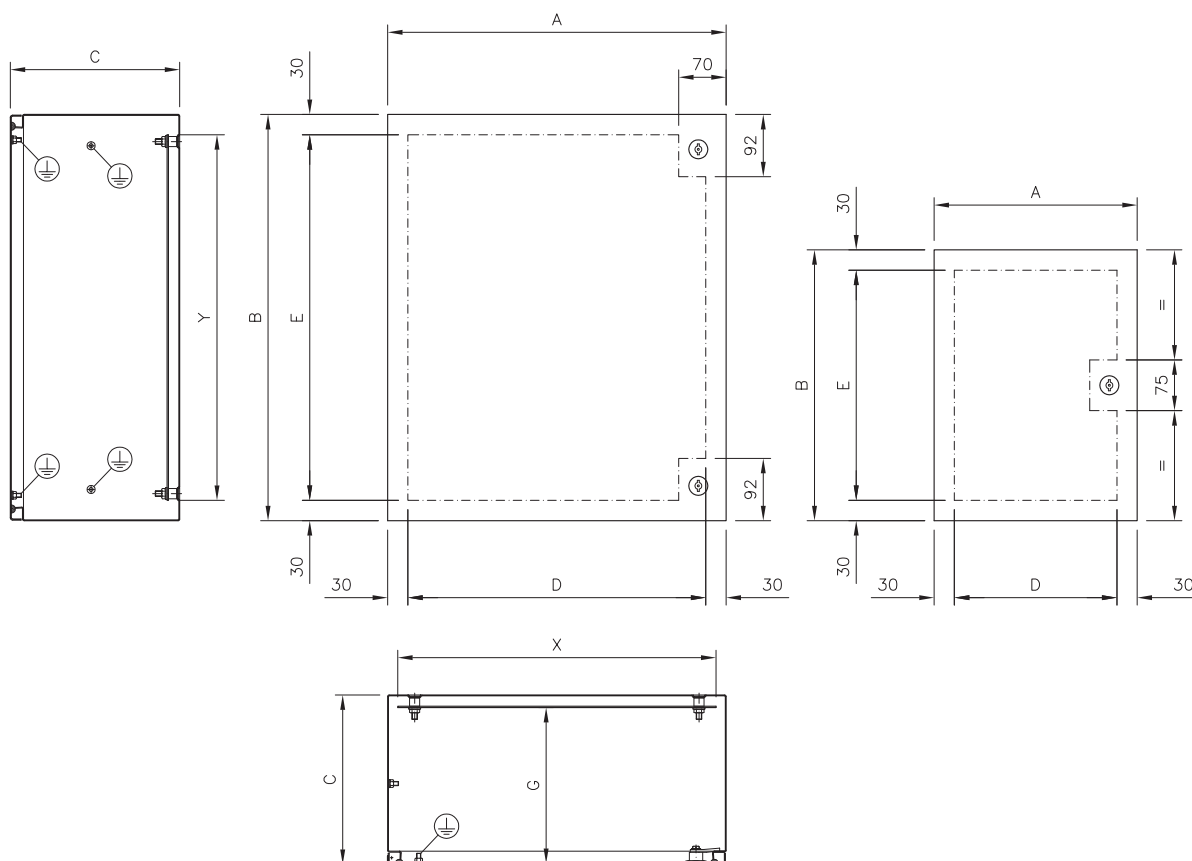


• HANDLES



SMALL CABINETS SERIES QS

- Material: En 1.4301 (AISI 304) s/s finely satin-finished and protected on 1 side. Enclosure obtained from one single sheet, shaped to obtain the labyrinth between enclosure and door.
- On the back: threaded inserts to facilitate the possible installation of wall fixings.
- Inside: threaded pins M8 to allow fixing the plate and its rest.
- Solid door.
- Twin-comb locks of the standardized type $\varnothing 3$ for Low voltage, chromium plated.
- Inner hinges of s/s, opening 120° according to CEI EN 60204-1 recommendations
- Maximum load admitted on the door: 8 kg.
- Seal of foamed polyurethane.
- Inner plate of galvanized sheet sendzimir EN 10142 secured to the bottom of the container by threaded pins M8 delivered with the cabinet.
- Prearranged for earthing according to the rules in force.



IP66 EN 60 529/97-05
IK10 EN 50 102/96-05



EN 60204-1

89/392/EEC

SMALL CABINETS				USEFULL SPACE FOR DRILLINGS		THICKNESS		INNER PLATE			
ITEM.	A	B	C	D	E	CONTAINER	DOOR	X	Y	G	THICKNESS
QS034	300	400	200	240	340	12/10	15/10	270	340	180	20/10
QS045	400	500	200	340	440	12/10	15/10	370	440	180	20/10
QS056	500	600	250	440	540	12/10	15/10	470	540	230	20/10
QS068	600	800	250	540	740	12/10	15/10	570	740	230	20/10
QS069	600	900	300	540	840	12/10	15/10	570	840	280	20/10

NOTE: Mod. QS034 1 only central lock.



ACCESSORIES FOR SMALL CABINETS

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• RAIN PROTECTIONS



• WALL FIXING



• LOCKS

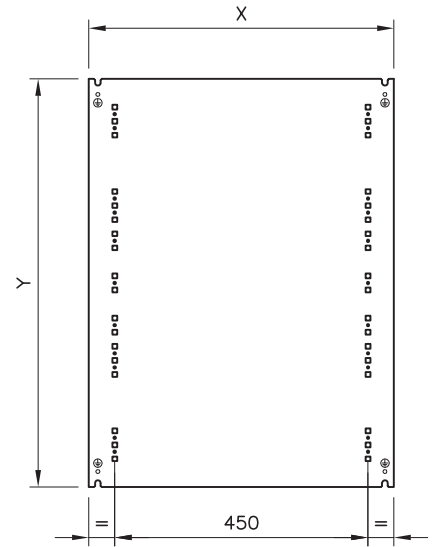
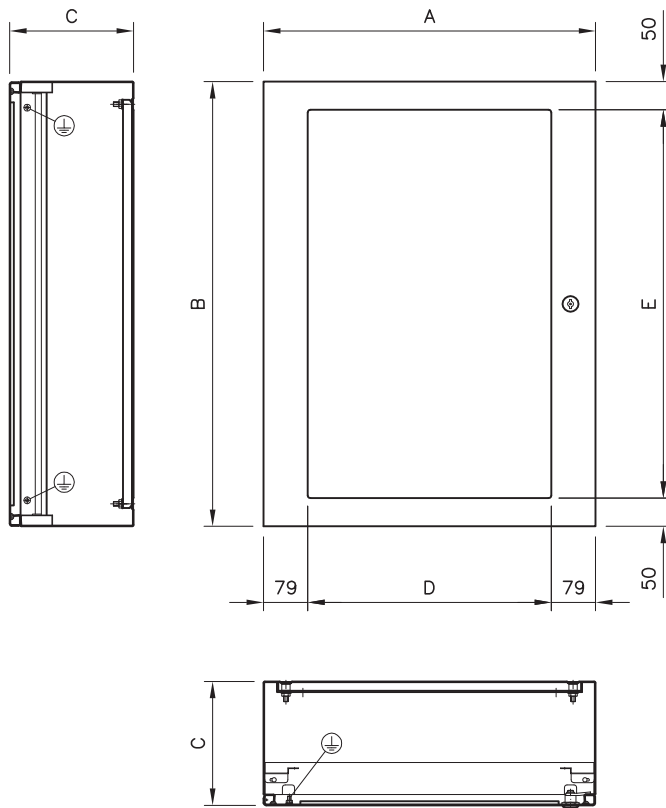


• PANELS



SMALL CABINETS SERIES QM

- The new QM series is designed to accommodate modular equipment. Made of En 1.4301 (AISI 304) s/s finely satin-finished and protected on 1 side.
Special attention was paid, in the design stage, to details permitting to streamline and speed up wiring, without disregarding aesthetic, which has always distinguished our work.
- The enclosure is obtained from a sheet suitably shaped on the front to achieve the "seal labyrinth between enclosure and door.
- On the back are placed some threaded blind inserts M6 for wall fixing. Inside there are threaded pins M8, s/s for plate fixing. The door, pressed, features a shatter-proof 3+3 glass to meet the requirements in terms of safety and weatherability.
- Single central lock, twin-comb type of the standardized type 3 for L.V. Chromium-plated with attachment for 3-point closure starting from model QM096.
- Inner hinges, s/s, opening 120° according to CEI EN 60204-1 recommendations .
- Seal of foamed polyurethane.
- Inner plate of galvanized sheet sendzimir pre-drilled for the assembling of DIN guides. The assembling of the guides and the relevant modular switches can be done in factory to then easily insert the frame, pre-assembled, into the small cabinet. The modular panels are secured to two side uprights pre-drilled fixed to the enclosure.
- Fairlead plate not envisaged.
- Prearranged for earthing according to the rules in force.
- Protection degree : IP66 with closed door, IP20 with open door.



**IP56
IK10**

EN 60 529/97-05
EN 50 102/96-05



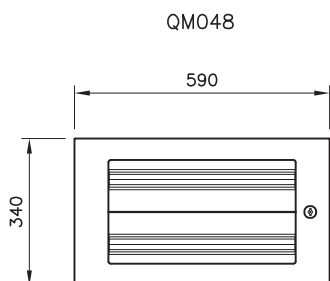
EN 60204-1

89/392/EEC

SMALL CABINETS						THICKNESS		INNER PLATE	
ITEM.	A	B	C	D	E	CONTAINER	DOOR	X	Y
QM048	590	340	220	433	240	12/10	15/10	542	275
QM072	590	490	220	433	390	12/10	15/10	542	425
QM096	590	640	220	433	540	12/10	15/10	542	575
QM120	590	790	220	433	690	12/10	15/10	542	725
QM144	590	940	220	433	840	12/10	15/10	542	875
QM168	590	1090	220	433	990	12/10	15/10	542	1025

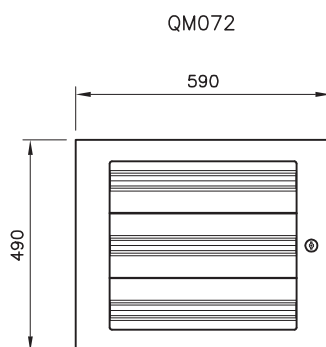


EQUIPMENT FOR MODULAR SWITCHES



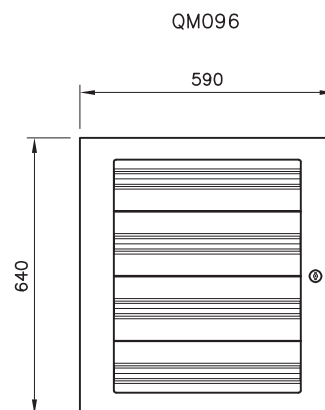
QM048

N. 48 MODULES
N. 2 PANNEAUX H=150



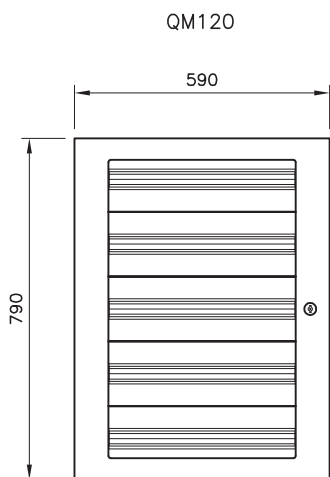
QM072

N. 72 MODULES
N. 3 PANNEAUX H=150



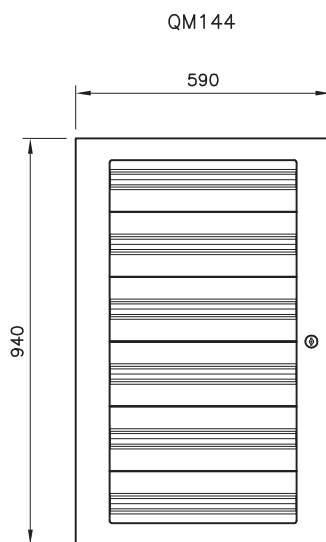
QM096

N. 76 MODULES (N. 3 PANNEAUX H=200)
N. 96 MODULES (N. 4 PANNEAUX H=150)



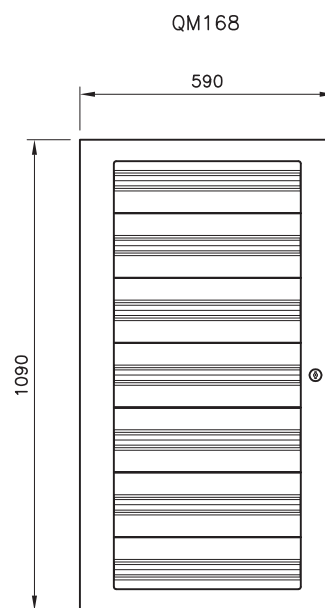
QM120

N. 96 MODULES
(N. 1 PANNEAU H=150 + 3 PANNEAUX H=200)
N. 120 MODULES
(N. 5 PANNEAUX H=150)



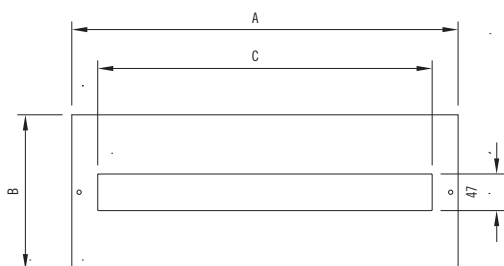
QM144

N. 120 MODULES
(N. 2 PANNEAUX H=150 + 3 PANNEAUX H=200)
N. 144 MODULES
(N. 6 PANNEAUX H=150)



QM168

N. 144 MODULES
(N. 3 PANNEAUX H=150 + 3 PANNEAUX H=200)
N. 168 MODULES
(N. 7 PANNEAUX H=150)



PANELS

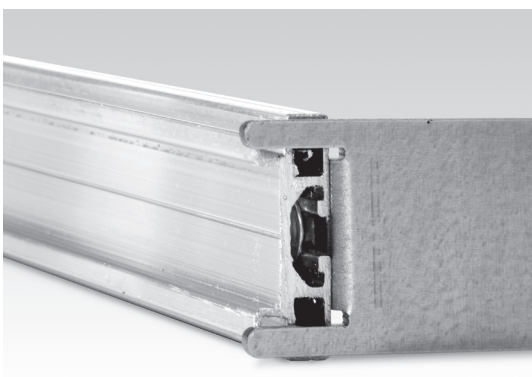
Plates made of Aisi 304 s/s finely satin-finished fit for protecting the equipment inside the small cabinet, so assuring operators' complete safety.

Available either blind or pre-drilled, height H.150 and H.200, to accommodate 24 modules each plate.

Blind plates can be drilled to drawing, on request.

The gap between the plates and the glazed door is 50 mm.

PANEL SIZES				
ITEM.	A	B	C	N° OF MODULES EACH PANEL
PQM150F	499	149	432	24
PQM150C	499	149		CIECO - BLIND
PQM200F	499	199	432	24
PQM200C	499	199		CIECO - BLIND



DIN BARS

Bars of extruded aluminium sections, complete with fixed rest brackets of s/s.

- DINQM24

accessories for cabinets



OVERDOORS
pag. 103



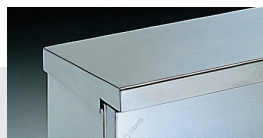
OUTSIDE DOORS
pag. 99



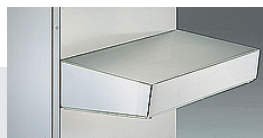
DIAGRAM HOLDING POCKETS
pag. 102



ADJUSTABLE FEET
pag. 107



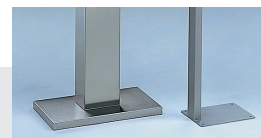
RAIN PROTECTIONS
pag. 100



FIXED LECTERNS
pag. 107



ANTI-CLOSING DEVICE
pag. 106



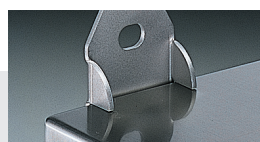
PEDESTALS
pag. 101



REST RODS
pag. 106



SKIRTING BOARDS
pag. 102



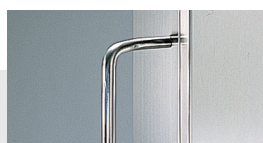
WALL FIXING
pag. 104



GAS-OPERATED SPRINGS
pag. 105



LOCKS
pag. 105



GRIP HANDLES
pag. 106



ELECTROCONDUCTIVE GASKETS
pag. 107



INOX INNER PLATE
pag. 101



OUTSIDE DOORS SERIES QC

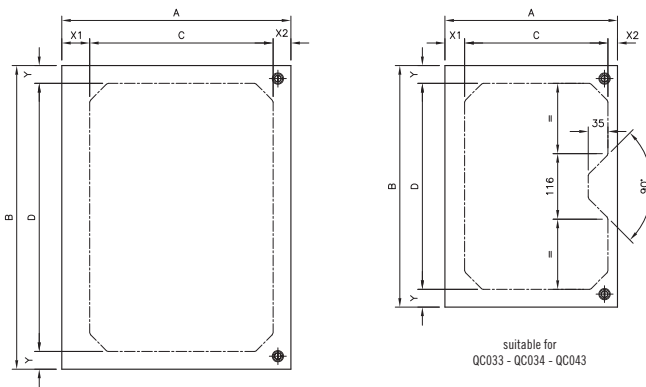
Complete with assembling kit for the fixing of equipment inside the small cabinets, in a protected and locked area, can be installed on all small cabinets of the single door Q series. They are manufactured in EN 1.4301- (AISI 304) s/s, finely satin-finished and protected by PVC adhesive tape, thickness 12/10 and 15/10.

The outside door can be hinged either on the right or left side. The standard supply includes chromium-plated indented locks. Instruments up to a maximum total weight of 12 kg can be set on the outer doors.

The gap between door and outside door is 45 cm.

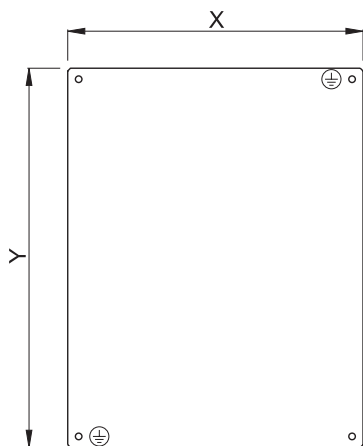
Protection degree IP 20.

Drilling to drawing are possible on demand.



OUTSIDE SIZES			OUTSIDE SIZES					
ITEM.	A	B	C	D	FOR CABINETS	X1	X2	Y
QC033/304	256	238	204	204	QL-QV33	35	17	17
QC034/304	256	388	204	354	QL-QV34	35	17	17
QC036/304	256	538	175	475	QL-QV36	49,5	31,5	31,5
QC043/304	406	238	354	204	QL-QV43	35	17	17
QC044/304	406	388	325	325	QL-QV44	49,5	31,5	31,5
QC046/304	406	538	325	475	QL-QV-QLP-QVP46	49,5	31,5	31,5
QC064/304	556	388	475	325	QL-QV64	49,5	31,5	31,5
QC066/304	556	538	475	475	QL-QV-QLP-QVP66	49,5	31,5	31,5
QC067/304	556	688	475	625	QL-QV67	49,5	31,5	31,5
QC068/304	556	738	475	675	QLP-QVP68	49,5	31,5	31,5
QC069/304	556	838	475	775	QL-QV69	49,5	31,5	31,5
QC077/304	706	688	625	625	QL-QV77	49,5	31,5	31,5
QC710/304	706	938	625	875	QL-QV710	49,5	31,5	31,5
QC612/304	556	1138	450	1075	QLP-QVP612	49,5	56,5	31,5
QC812/304	756	1138	650	1075	QL-QV-QLP-QVP812	49,5	56,5	31,5
QC616/304	552	1513	438	1458	QLP-QVP616	58	56	27,5
QC816/304	752	1513	638	1458	QLP-QVP816	58	56	27,5

NOTE: not usable on the QS – QM series



INNER PLATES S/S

Manufactured in s/s sheet EN 1.4404 (AISI 316L) , 2B finishing; they are available for all cabinets series QL/QV and are perfectly interchangeable with the standard plate; they are delivered in assembling kit (replacement at user's charge)

ITEM.	SUITABLE FOR	X	Y
PQ0331	QL-QV33	270	240
PQ0341	QL-QV34	270	390
PQ0361	QL-QV36	270	540
PQ0431	QL-QV43	420	240
PQ0441	QL-QV44	420	390
PQ0461	QL-QV46	420	540
PQ0641	QL-QV64	570	390

NOTE: not usable on the QS – QM series

ITEM.	SUITABLE FOR	X	Y
PQ0661	QL-QV66	570	540
PQ0671	QL-QV67	570	690
PQ0691	QL-QV69	570	840
PQ0771	QL-QV77	720	690
PQ7101	QL-QV710	720	940
PQ8121	QL-QV812	740	1140
PQ1071	QL-QV107	940	770



RAIN PROTECTIONS

Manufactured in X5 Cr Ni 18/10 EN 1.4301 (AISI 304) s/s, fine satin-finished and protected. Recommended when the cabinets are expected to be installed outdoors and weather protection is required. They come in assembling kit.

ITEM.	For small cabinets serie QL/QV/QS
TP933	QL/QV33
TP934	QS/QL/QV34
TP936	QL/QV36
TP944	QL/QV43-44
TP945	QS045
TP946	QL/QV46
TP956	QS056
TP960	QS/QL/QV64-66-67-68-69
TP966	QL66P/QS069

ITEM.	For small cabinets serie QL/QV/QS
TP977	QL/QV77-710
TP980	QL/QV812
TP946P	QLP/QVP46
TP960P	QLP/QVP66-68-612
TP980P	QLP/QVP812
TP9616P	QLP/QVP616
TP9816P	QLP/QVP816
TPQM	SERIE QM



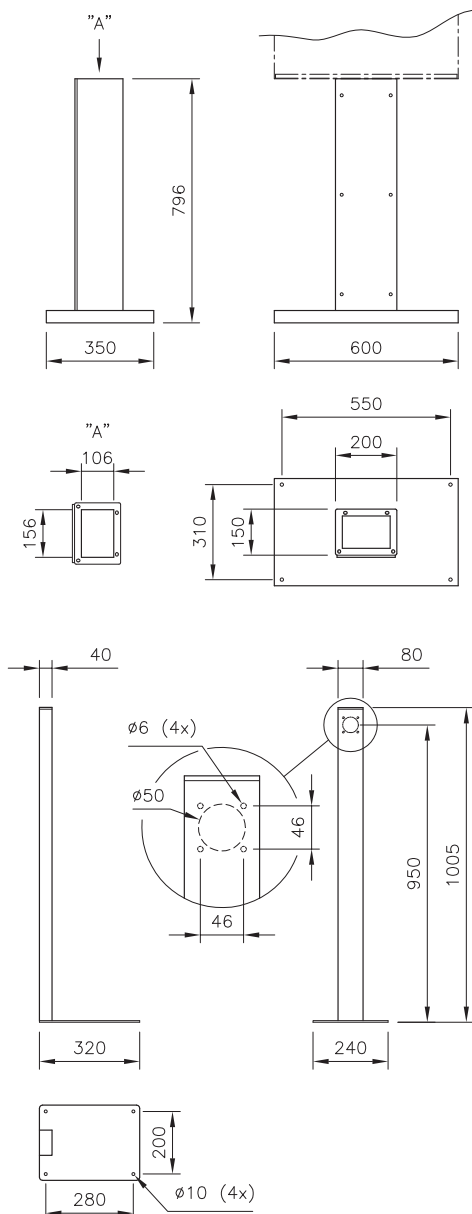
PEDESTAL SERIES PR

Designed for use both as a stand and a cableway, it is manufactured in X5 Cr Ni 18/10 EN 1.4301 (AISI 304) S/S and comes in two versions:

- **PR200:** satin-finishing, suitable for application under cabinets having a minimum depth of 250 mm; it consists of a C-shaped bent column, complete with bolted cover with gasket and with sendzimir inner plate. A sendzimir counterplate, is also supplied to firmly secure the modular cabinets to the top of the column (for cabinets starting from L.600). These counterplates have to be ordered expressly, using the following codes:

- **PPRQ6025** counterplate for cabinets QL/QV64-66-67-69
- **PPRQ7530** counterplate for cabinets QL/QV77-710

NOTE: the inspection side is on a I.200 side. it can be assembled frontwise or backwise



- **PR100:** is used for pushbutton-boards, connector blocks and cabinets with minimum width 125 mm, it consists of: s/s channel, micropeening, not inspectable and a pre-drilled plate for fixing to the ground.



SKIRTING BOARD

Suitable for application under the cabinets series QLP, they are simple and sturdy, made of X5 Cr Ni 18/10 EN 1.4301 (AISI 304) s/s carefully satin-finished and protected. Prearranged with cableways, both side and back (or front) and for application of feet, where necessary; the bottom is open to the ground: on request, they can be delivered with panels for bottom closing that can be used also as cable supports. Protection degree is IP20 with bottom panel in place. Can be delivered either in assembling kit or pre-assembled, and are available in 100 and 200 mm height.

ITEM.	For small cabinets	Height mm	Bottom closing panel
ZA06104	66-68-612-616	H.100	P0604
ZA06204	66-68-612-616	H.200	P0604
ZA08104	812-8616	H.100	P0804
ZA08204	812-816	H.200	P0804
ZA12104	128	H.100	P1204
ZA12204	128	H.200	P.1204
ZA16104	168	H.100	P1604
ZA16204	168	H.200	P1604

NOTE: not usable for the QS/QM series

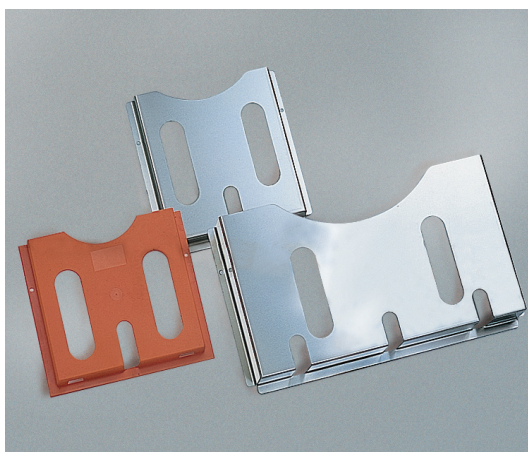
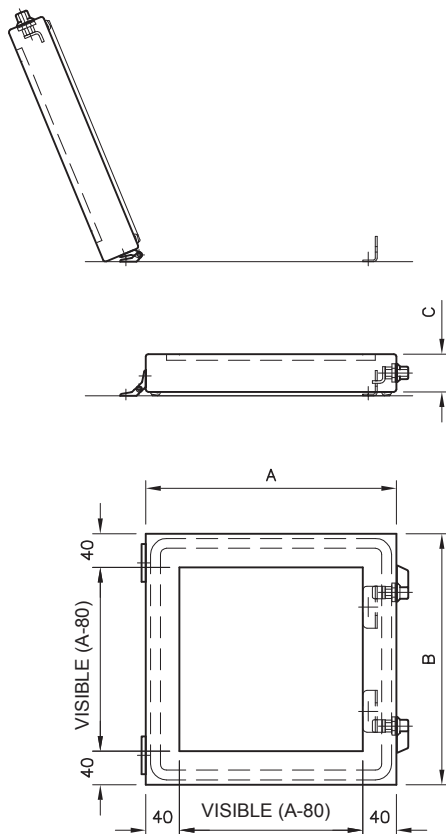


DIAGRAM HOLDING POCKET

Delivered in assembling kit, available in 3 models:

- **SG109:** orange ABS, for A4 documents
- **SG108:** AISI 304 s/s, for A4 documents
- **SG110:** AISI 304 s/s for A3 documents



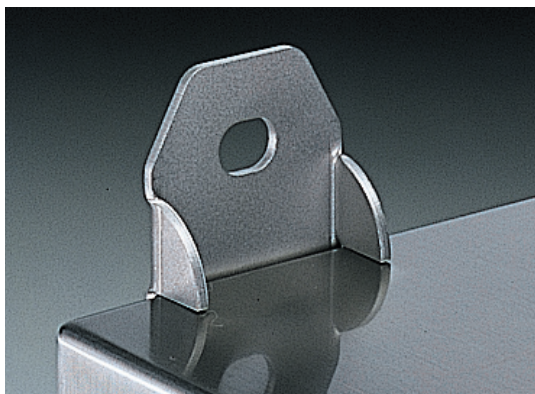
OVERDOORS

Made of X5 CrNi 18/10 EN 1.4301 (AISI 304) s/s, finely satin-finished, with 3+3 layer shatterproof sightglass, they are especially recommended when instrument set on the outside door have to be protected. Complete with wing-nut lock, galvanized, black, with Yale type key and built-in seal, 180° opening. Protection degree IP65.

NOTE: when set on width exceeding the width of the overdoor itself, the max. opening is 90°.

ITEM.	A	B	C
SV33/45	300	300	45
SV34/45	300	450	45
SV36/45	300	600	45
SV43/45	450	300	45
SV44/45	450	450	45
SV46/45	450	600	45
SV64/45	600	450	45
SV66/45	600	600	45
SV67/45	600	750	45
SV68/45	600	800	45
SV69/45	600	900	45
SV612/45	600	1200	45
SV77/45	750	750	45
SV710/45	750	1000	45
SV86/45	800	600	45
SV812/45	800	1200	45
SV106/45	1000	750	45

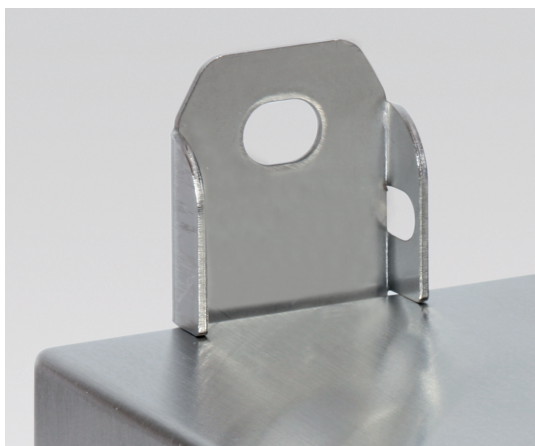
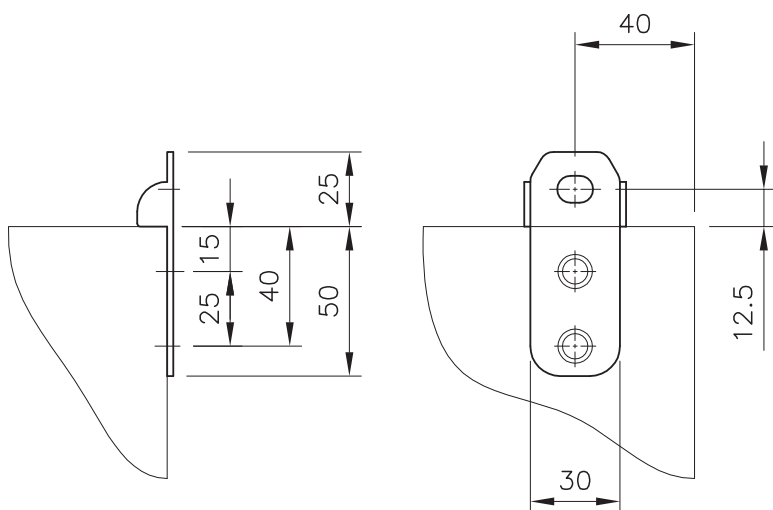
ITEM.	A	B	C
SV33/75	300	300	75
SV34/75	300	450	75
SV36/75	300	600	75
SV43/75	450	300	75
SV44/75	450	450	75
SV46/75	450	600	75
SV64/75	600	450	75
SV66/75	600	600	75
SV67/75	600	750	75
SV68/75	600	800	75
SV69/75	600	900	75
SV612/75	600	1200	75
SV77/75	750	750	75
SV710/75	750	1000	75
SV86/75	800	600	75
SV812/75	800	1200	75
SV106/75	1000	750	75



WALL FIXING LUGS

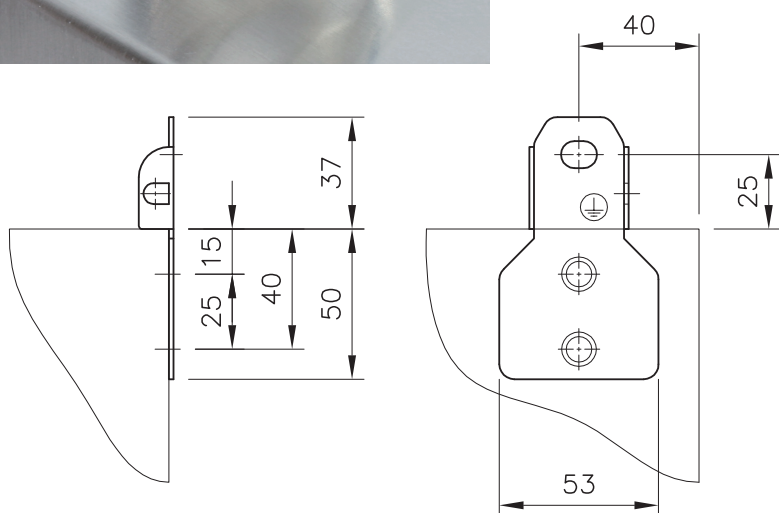
Made of AISI 316L s/s, they are easily set to the back of the cabinets serie "Q" and "M", or can be used for wall fixing of the top of CC cabinets for greater stability. Water- and dust-tightness keep unchanged thanks to the special seals. Each kit includes the assembling instructions, screws and gaskets.

- **SP025** – kit of 4 pcs



Made of Aisi 316L s/s, same features as the SP025 fixing, they are equipped with a wider rest base that permits to spot-weld them to the enclosure without using setscrews. Prearranged for the fixing of an earthing cable.

- **SP035** – kit of 4 pcs



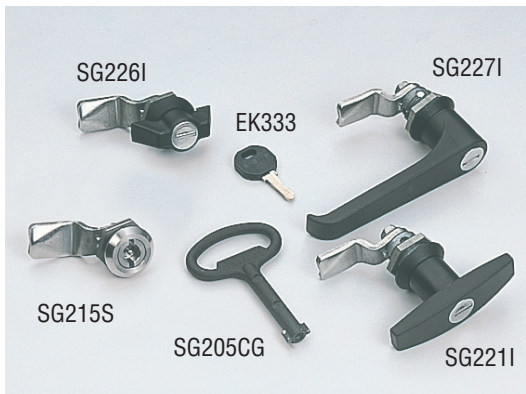


GAS-OPERATED SPRINGS

The gas-operated springs are designed to open the doors upwards (seagull-wings); they facilitate opening and feature a braking device on top of the wing, reaching a balanced position when the door is open. Different capacities are available to meet specific requirements.

When ordering the springs, the weight and position of instruments and/or equipment, if any, should be mentioned so that the spring best suiting your requirements can be determined.

- **SA901** - pair of gas-controlled spring



RATCHET LOCK

Various optional locks are available, all perfectly interchangeable with the standard ones, either with low-voltage or Yale key.

ITEM.	TYPE	OUTSIDE	MATERIAL INSERT	TONGUE
SG215S(**)	box lock - twin-comb insert	S/S	S/S	galvanized
SG221I	"T" handle key	black polyamides	S/S	S/S
SG226I	wing nut lock key	black polyamides	S/S	S/S
SG227I	"L" handle key	black polyamides	S/S	S/S

NOTE:

(*) Key EK333 - Yale type - is supplied with the lock. Different key coding can be provided on request.

(**) Lock item SG215S are supplied without key. Optional key, to be ordered separately: item SG205CG – not s/s. To receive also the tongue in A.304 s/s, order It. KIT SG215.



SUPPORT RODS

Compass type, designed to open the cabinet doors upwards (seagull-wings). Safe and convenient, they have an automatic hooking device that allows to keep the doors open. Available both in right and left version: as from dimm.600x600 the use of two rods is recommended, for lower dimensions a single rod is enough.

- **ASD01**: right support rod
- **ASS01**: left support rod

NOTE: they can be assembled up to the 600x900 size, if no further weight is applied to the door.
The gas-operated springs must be used for greater sizes.



ANTI-CLOSING DEVICE

Made of AISI 304 stainless steel, is recommended to avoid the accidental closing of the door.

Not suitable for cabinet with upward opening door (seagull-wing).

Delivered in assembling kit

- **DAC01**



GRIP HANDLES

Made of AISI 304 s/s rod, mirror polished; recommended when the cabinets are used as control boxes.

They are delivered in assembling kit and come in two versions:

- **MNB200**: fixing distance between centres (l) 200 mm
- **MNB300**: fixing distance between centres (l) 300 mm



ADJUSTABLE FEET

Cylindrical, perfectly cleanable in AISI 304 S.S.

- **SA2000:** adjustable from 125 to 165 mm
- **SA2200:** adjustable from 165 to 205 mm



FIXED LECTERN

IP66

Made of AISI 304 s/s, finely satin-finished and protected, they are fitted directly to the door. Their execution and shape enable satisfactory space availability, even in restricted space conditions. The handy lower panel also allows wiring without the need for pushbuttons, instruments or raceways being secured to movable or removable parts. The top surface is perfectly smooth and free from gaps for improved cleaning. Three lengths are available:

- **SA531** - fixed lectern L. 600
- **SA532** - fixed lectern L. 800
- **SA535** - fixed lectern L. 1000



ELECTROCONDUCTIVE GASKET

emc[®]

The electroconductive gasket is required to shield the electric or magnetic field.

The elasticity of the gasket is obtained by using various foamed materials: silicone, neoprene or epdm depending on the conditions of use.

- **GCE**



suspension system

BC	BK	BL-BJ-BS	TSS-TSJ-TSL
108	110	112	116

Control boxes series	Accessories	BC-BK
articulated arms series	Accessories	BL-BJ-BS
Articulated arms series	Accessories	TL-TJ-TS





CONTROL BOXES SERIES BC

- The control boxes are made of EN 1.4301 (AISI 304) s/s finely glazed. On demand they can be made of different type of stainless steel as well as customized.
- The container consists of an outside enclosure made of a sole bent sheet, thickness 20/10 with rounded corners, and of an internal case sealed by a special gasket, assuring the protection degree.. The upper part is drilled to allow installation of the articulated arms type BL-BJ and BS. When the drilling prearranged on all control boxes for fixing to the joints is not used, the closure item TCB, made of AISI 304 S.S. can be supplied on demand.
- Two plates made of sendzimir are located in the upper and lower parts of the container as reinforcement. These plates are properly shaped and drilled to allow for the installation of supports, raceways and inner plates.
- Front and rear panels, solid, are made of flat stainless steel sheet, 2 mm thick and are fixed to the enclosure by special screws polier M4, complete with underhead Teflon seal.
- The front panel is equipped with handle made of s/s rod.
- Pre-arranged for earthing in compliance with the rules in force.
- The enclosures series BC can be pressurized according to cei 64-2 AND CEI31-1 standards, for safety installation AS-SI and enclosures with inner over-pressure.

GASKET:

Made of extruded SBR/EPDM, the concealed gasket is designed to assure IP65 protection once the front and back panel are set in place.

EARTHING:

The container is equipped with suitable screws for the earthing of all its parts.

PRESSURIZATION:

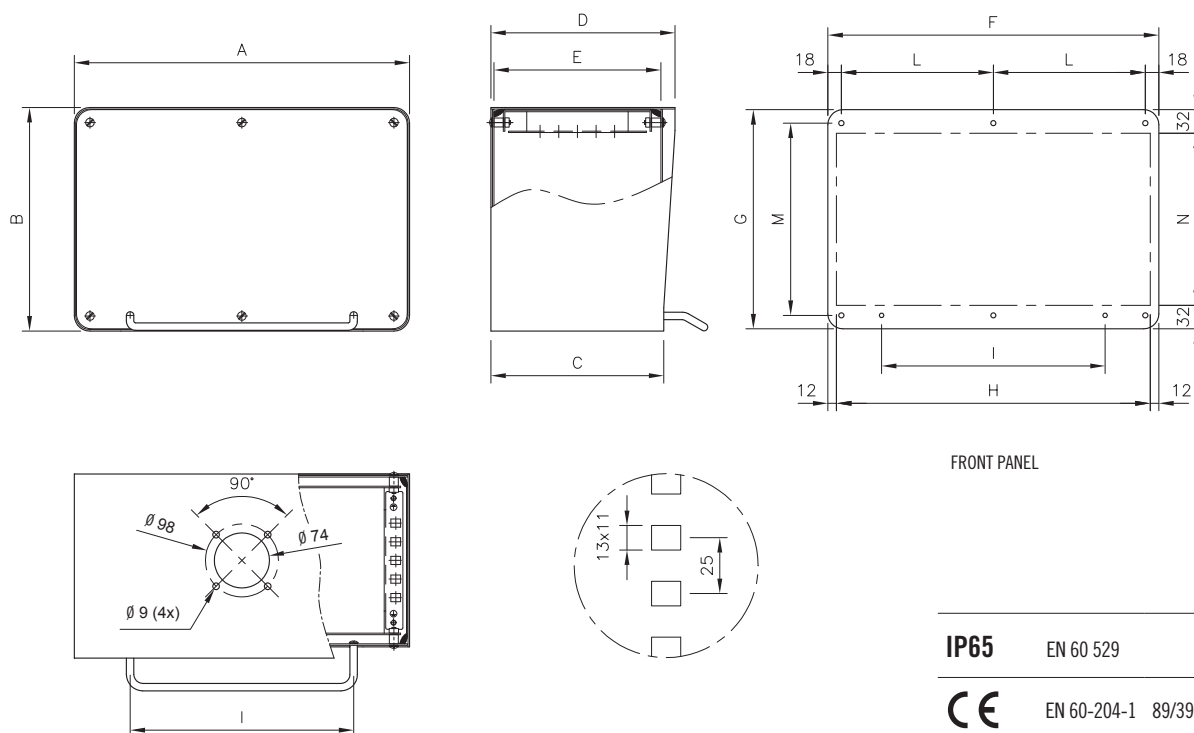
The enclosures of this series can be pressurized according to CEI 64-2 and CEI 31-1 standards, for safety installation AD-SI and for cases with internal over-pressure Ex-p.

ON DEMAND:

Control boxes can be made from different types of s/s

CLOSURE - CODE TBC:

Made of EN 1.4301 (AISI 304) s/s finely satin-finished, complete with concealed welded pins, to be bolted inside the box. It is supplied, only on request, when the drilling prearranged on all the control boxes for fixing to the joints is not used.

**IP65**

EN 60 529

CE

EN 60-204-1 89/392/EEC

CODE	A	B	C	D	E	F	G	H	I	L	M	N
BC32/304	350	225	200	215	194	344	219	319	200	154	183	156
BC43/304	450	300	230	245	224	444	294	419	300	204	258	231
BC53/304	525	350	300	315	294	519	344	494	300	241	308	281
BC64/304	600	400	380	395	374	594	394	569	300	279	358	331

NEWS

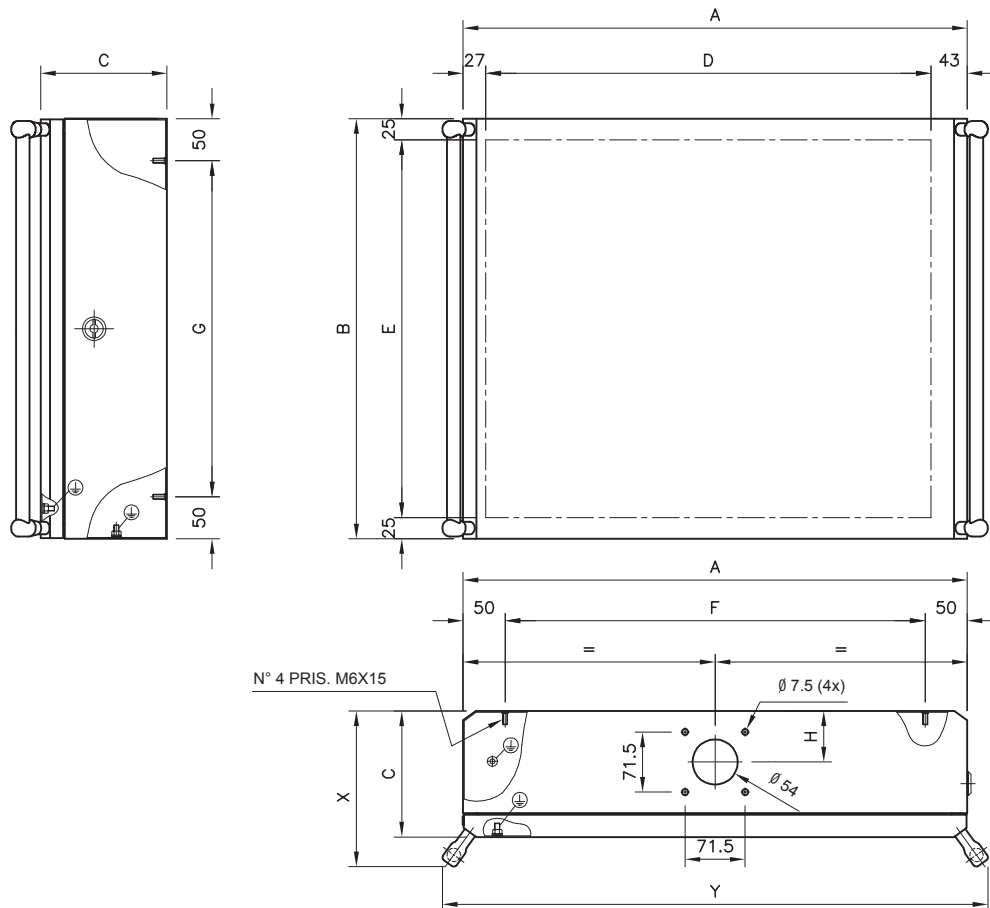


CONTROL BOXES SERIES BK

- Made of EN 1.4301 (AISI 304) s/s finely satin-finished and protected.
- Enclosure obtained from a single sheet thickn. 15/10 shaped by multiple bends of the front edge of the enclosure and door with radial corners.
- Enclosures drilled for the assembling of articulated arms type BJ-BS-BL with revolving joint code GBK12060.
- Solid door, hinged, side lock to maximize the drilling space available.
- Inner plate not provided.
- Ergonomic grip handles, AISI 304 s/s, supplied on request.
- Inner hinges in s/s: 120° opening according to CEI EN 60204-1 recommendations
- Seal made of foamed polyurethane bi-component
- Prearranged for earthing according to the rules in force.
- Protection degree IP66
- Twin-comb lock of the unified type Ø 3 for Low Voltage, s/s outside.
- Joint GKS included



A display can be seen on the back of the box

Underwriters
Laboratories

IP66

EN 60 529 EN 60-529/AI



EN 60204-1 89/392/EEC

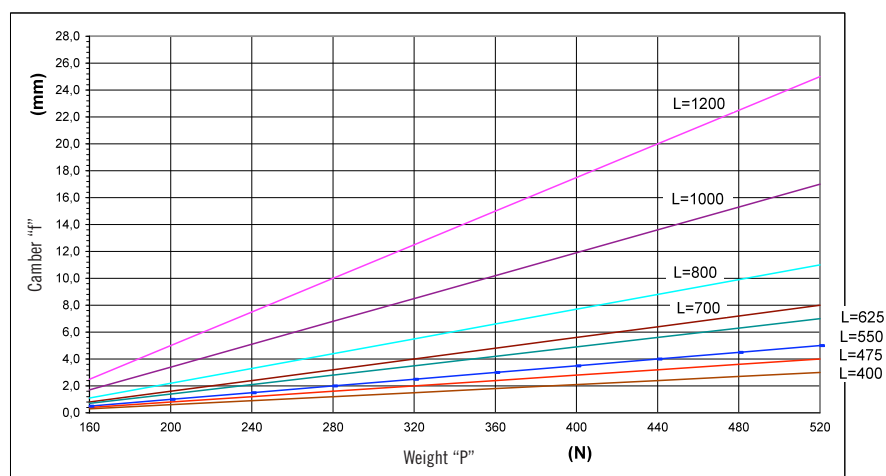
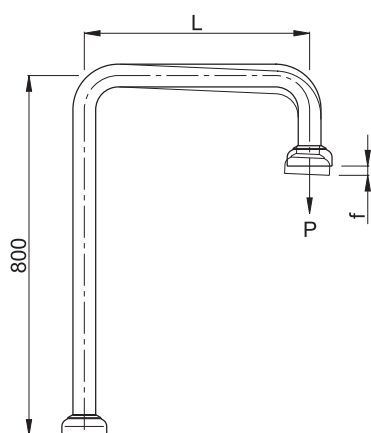
CODE OF VERSION		SIZES			USEFUL SPACE					WITH HANDLES	
WITHOUT HANDLES	WITH HANDLES	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	X (mm)	Y (mm)
BK33	BK33M	350	300	130	280	250	250	200	50,7	165	400
BK43	BK43M	450	350	130	380	300	350	250	50,7	165	500
BK44	BK44M	450	450	130	380	400	350	350	50,7	165	500
BK54	BK54M	520	450	130	450	400	420	350	50,7	165	570
BK55	BK55M	500	500	130	430	450	400	400	50,7	165	550
BK65	BK65M	600	500	150	530	450	500	400	60,7	185	650

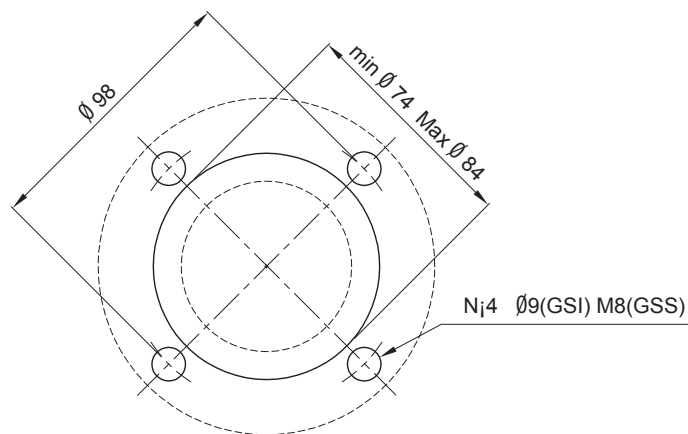
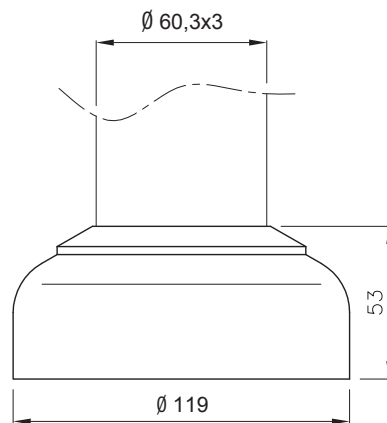
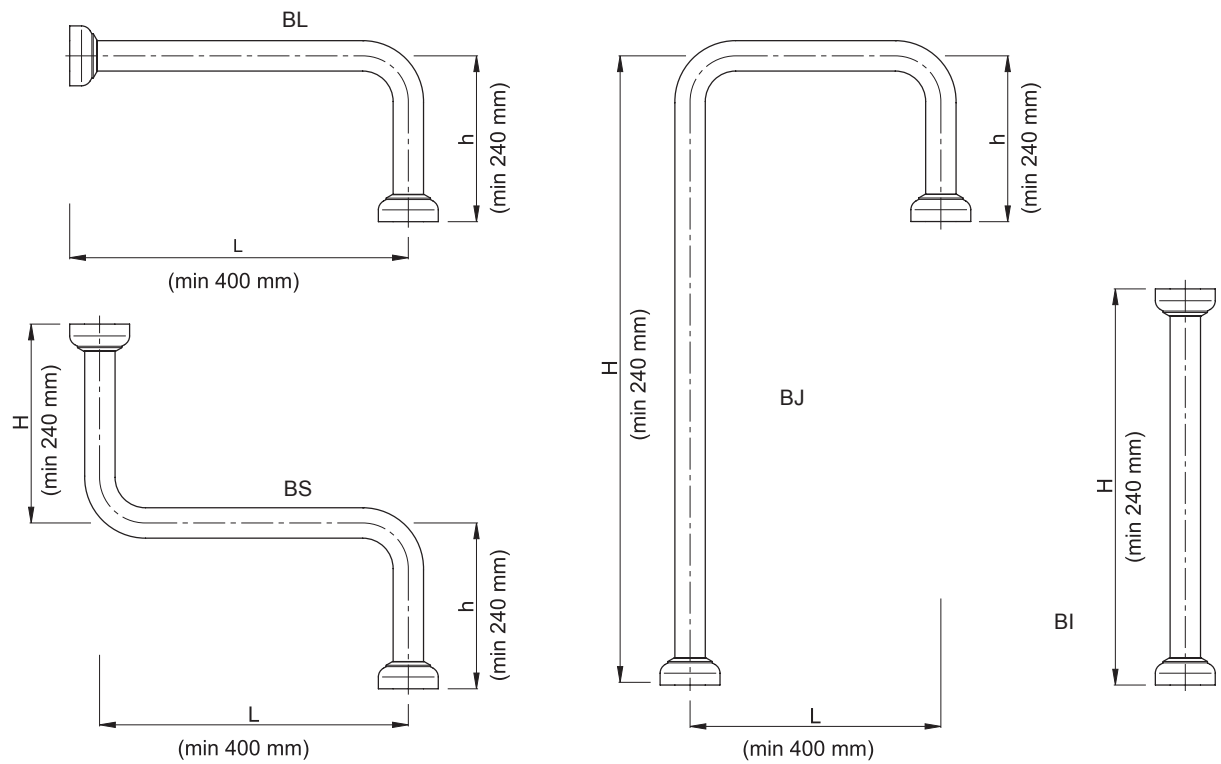


ARTICULATED ARMS SERIES BL-BJ-BS

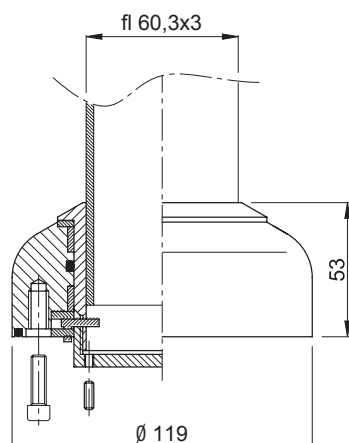
- The articulated arms are made of AISI 304 s/s tube, \varnothing 60.3 and thickness 3 mm. Surface treatment can be micropeening or mirror polish.
- The tube can be supplied bent to "J", "S" or "L" shape and with different sizes, depending on customer's requirements..
- Articulated or fixed joints can be welded, on demand, to the end of the tube.

NOTE: in case the arm is expected to support any item other than our boxes series BC-BK, check the stiffness of the wall to be supported





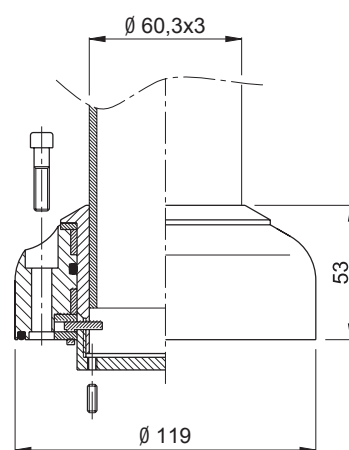
ARTICULATED JOINT WITH BOTTOM FIXING



The articulated joint is made of finely satin-finished AISI 304 s/s. It is equipped with sealing and stopping gasket preventing its rotation beyond 360°. Its shape has been designed to avoid flaws as much as possible. Two self-lubricating rings provide smoothness while a ringnut allows adjustment of the friction, dosing the strength required for rotation. The joint is complete with a bush welded to the arm tube. Coupling between bush and tube is very accurate, therefore welding is easy and can be made by the user itself, who can so determinate at the very last moment the sizes of the arm. Fastening is by 4 screws M8, located in the lower, concealed area.

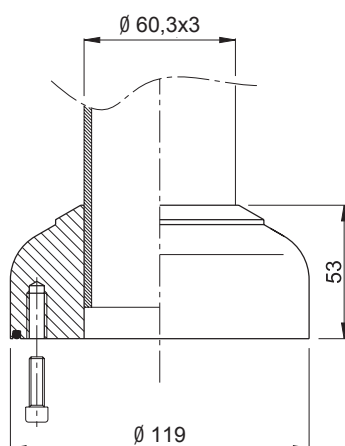
- GSI

ARTICULATED JOINT WITH UPPER FIXING



When an articulated joint is required but fastening cannot be made from the bottom, an alternative articulated joint has been designed, similar to the previous one, whose fixing is from the top, by exposed.

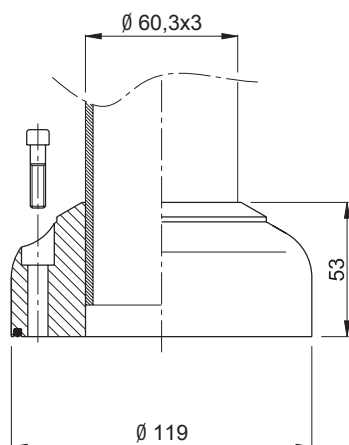
- GSS



FIXED JOINT WITH BOTOTM FIXING

This fixed joint has dimensions and shape similar to those of the articulated joint, is fixed by welding and is used when end rotation is not required. Fastening is by 4 screws M8, located in the lower, concealed, area.

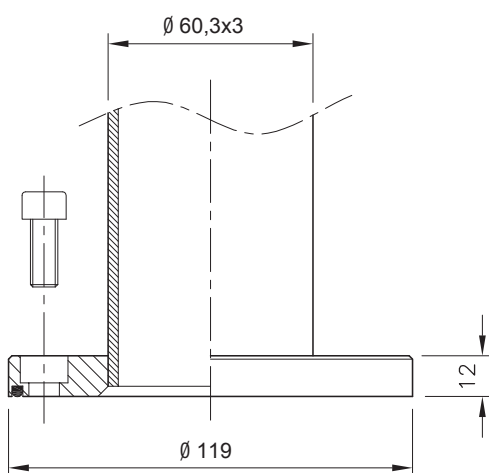
- GFI



FIXED JOINT WITH TOP FIXING

The fixed joint has the same functions as the previous one, and is to be used when the lower area is not accessible for fixing. Fixing is from the top by exposed screws.

- GFS



FLANGE TO BE WELDED

Made of EN 1.4301 (AISI 304) s/s, it is recommended in place of an articulation, when the end it is applied to is not expected to rotate; to be welded directly to the tube by customer. On request, it can be delivered pre-welded to the tube.

- GFF

NEWS

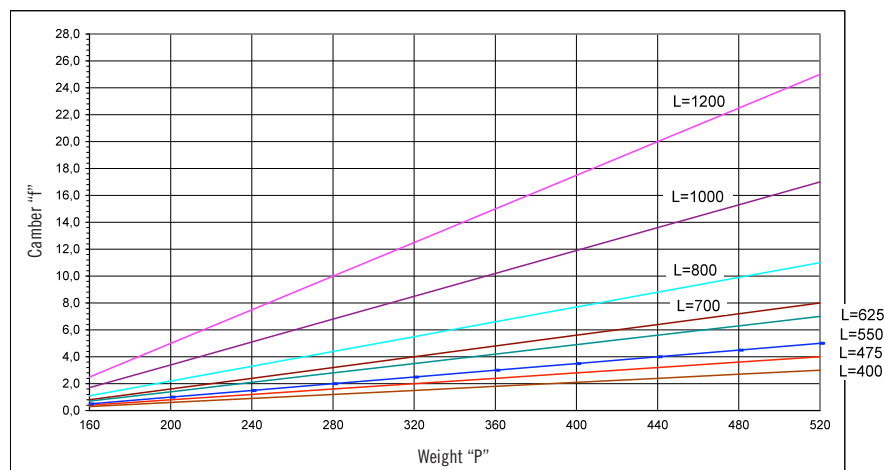
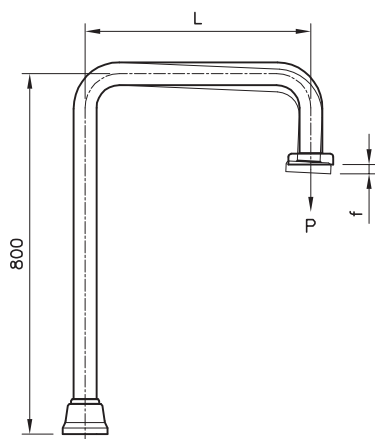


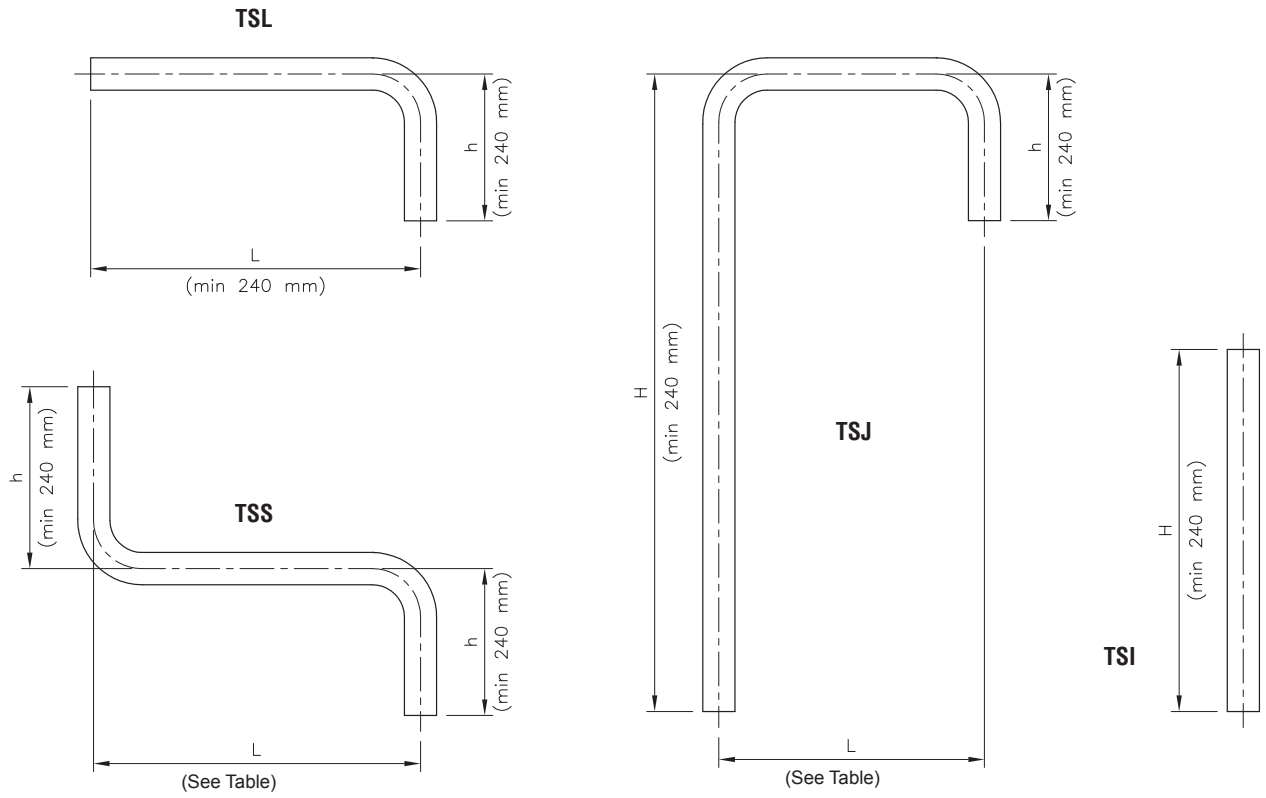
The very simple assembling of the joints does not require any weld thus allowing rapidity in deliveries and assembling by customers.

ARTICULATED ARMS SERIES TL - TJ - TS

- Realized with EN 1.4301 (AISI 304) s/s tube, \varnothing 60.3 thick.3, polished.
- Can be supplied "J", "S" or "L" shape bent, in the sizes requested by customer.
- Some width are preset and available from stock (see table on page 119), other sizes can supplied be requested.
- Fixed or articulated joints are set on the ends, as requested.
- The arm is delivered with joints on (not assembled on request).

NOTE: if the arm is expected to support any item other than our boxes series BC-BK, check the stiffness of the wall to be supported

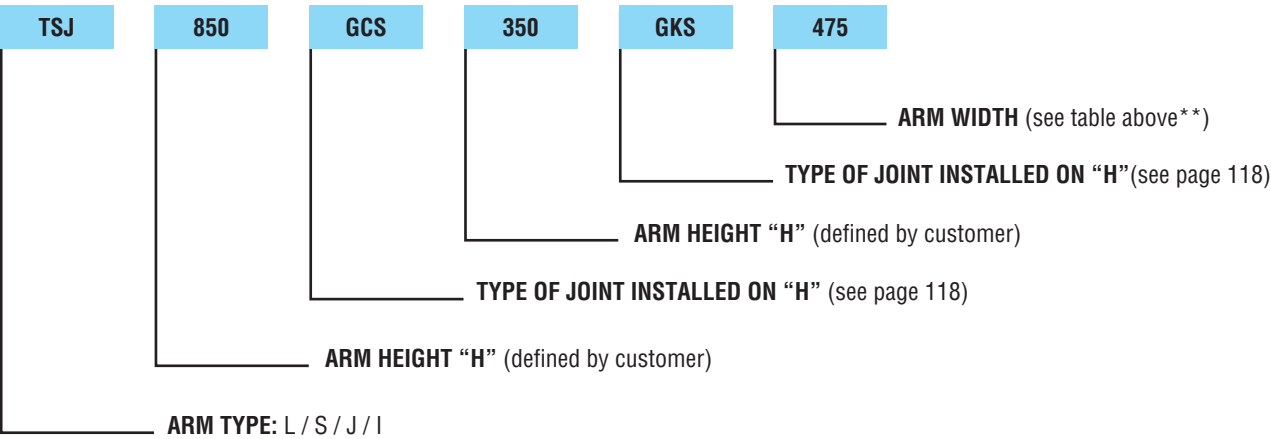


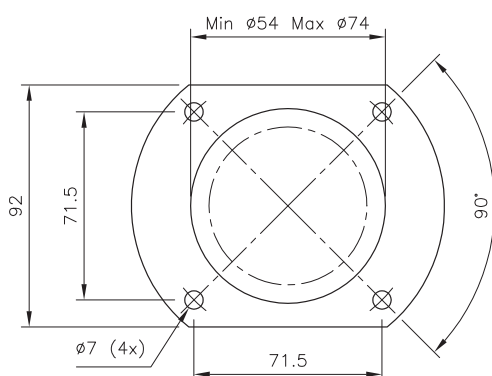
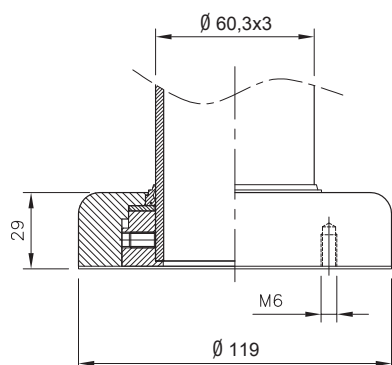


**STANDAR IN STOCK
L.400
L.475
L.550
L.625
L.700
L.775

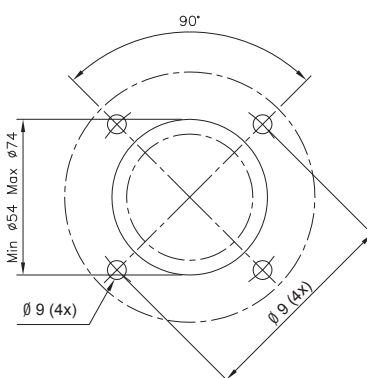
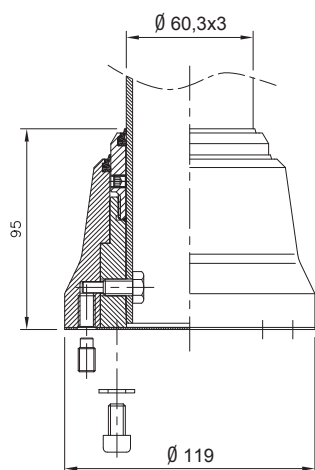
TABLE OF ORDERING CODES

NOTE: Other sizes on request





DRILLING TEMPLATE



DRILLING TEMPLATE

ARTICULATED JOINT K

Made of EN 1.4301 (AISI 304) s/s, complete with seal to assure tightness, its simple and unitized manufacturing shape makes it particularly suitable for coupling with control boxes.

The joint, which does not require any weld, must be placed onto the tube and secured by screws M6 delivered with the arm, which thus permit customer to order the joint also not installed on the arm and/or enable the operator to reduce height when assembling it.

Equipped with a retainer that limits its rotation to 355°.

• GKS

ARTICULATED JOINT

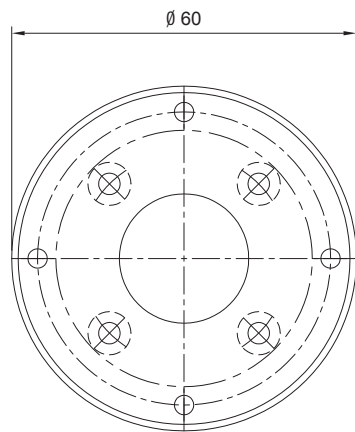
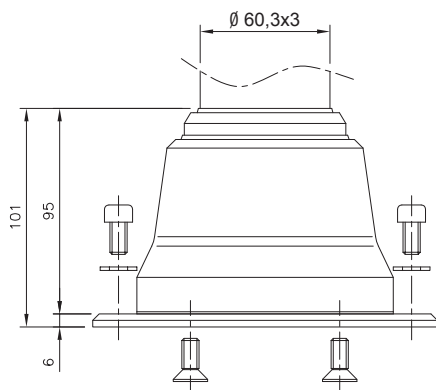
Made of EN 1.4301 (AISI 304) s/s is complete with seal to guarantee tightness.

The special form and manufacturing criteria guarantee high stiffness and make it suitable for fixing, by the M8 screws it comes with, both to a supporting surface (sufficiently stiff) and to the arm onto which it is placed, without any weld.

The total lack of welds enables customer to request the joint not connected to the arm and/or the fitter to reduce the height when assembling.

The revolving angle can be limited to 85°, 175°, 265° or 355°.

• GCS

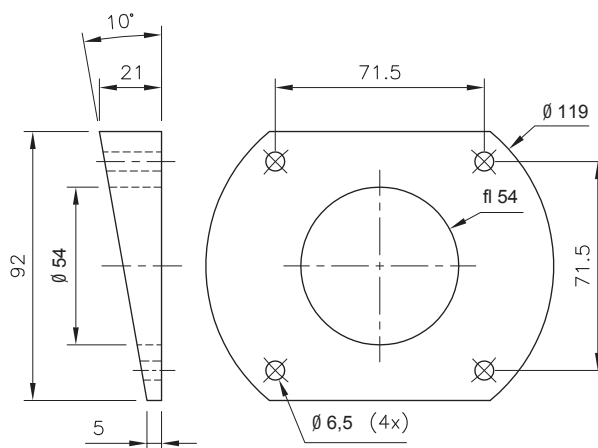
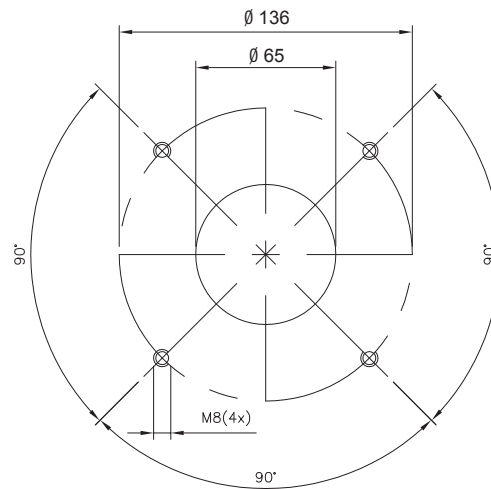


FLANGE

Made of EN 1.4301 (AISI 304) s/s it permits fixing from the top, by the M8 screws it comes with, of joint code GCS if fixing from below is not possible.

• FFS

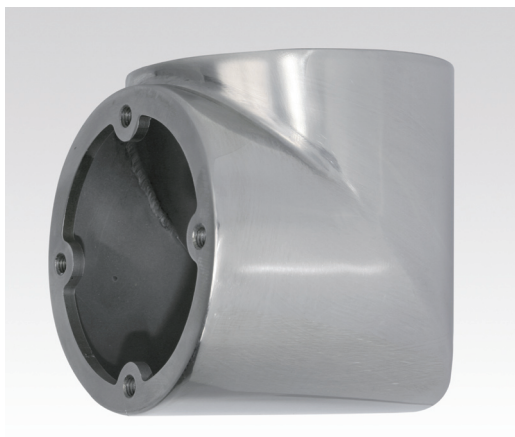
DRILLING TEMPLATE



SLOPING FLANGE

Designed to enable the assembling of the control boxes series BC and series BK on the joint GKS; made of EN 1.4301 (AISI 304) s/s finely satin-finished and 10% sloping, it is delivered complete with seal and setscrews.

• AGK

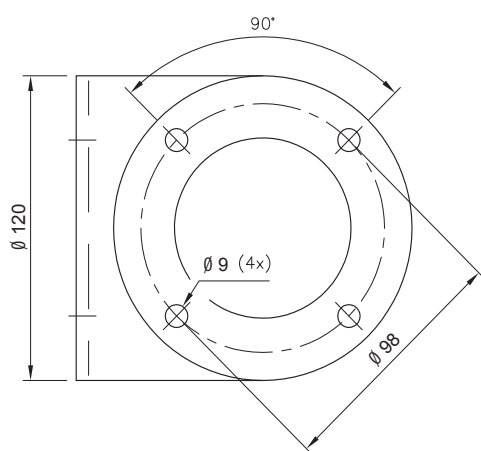
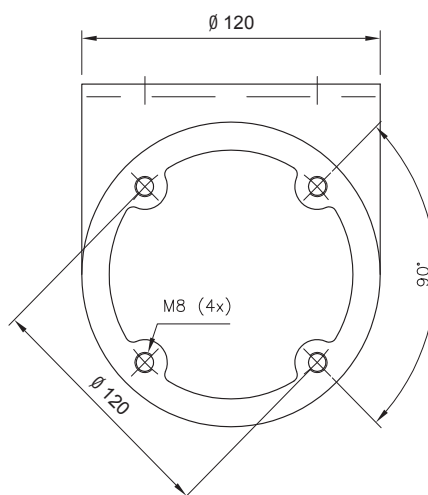
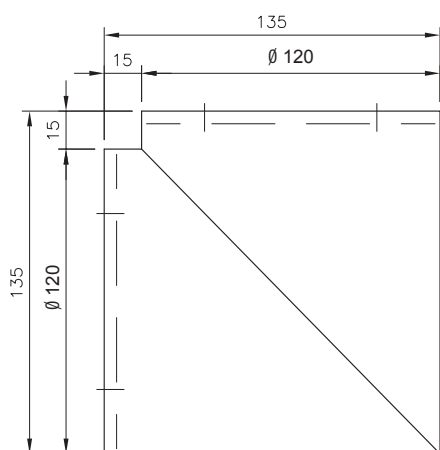


BRACKET

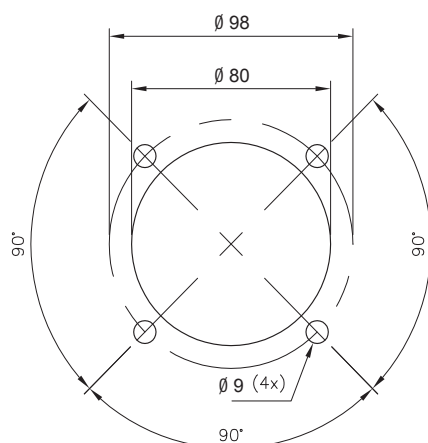
All EN 1.4301 (AISI 304) s/s execution, to be used to fix the arm to a vertical wall.

It is bolted from the inside of the enclosure, which must be sufficiently stiff, to which it is secured by 4 M8 screws, concealed.

- **GL60**



DRILLING TEMPLATE



push-button panels derivation boxes

PS-DS DE-PE

124

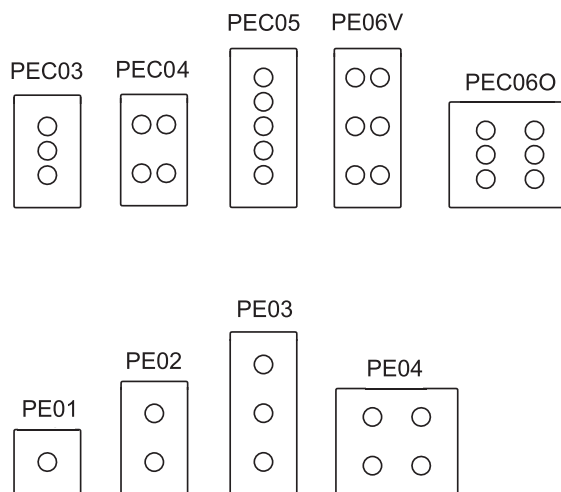
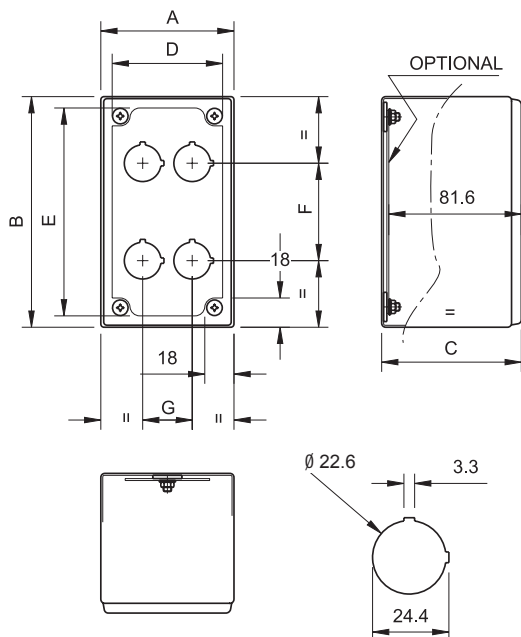
122



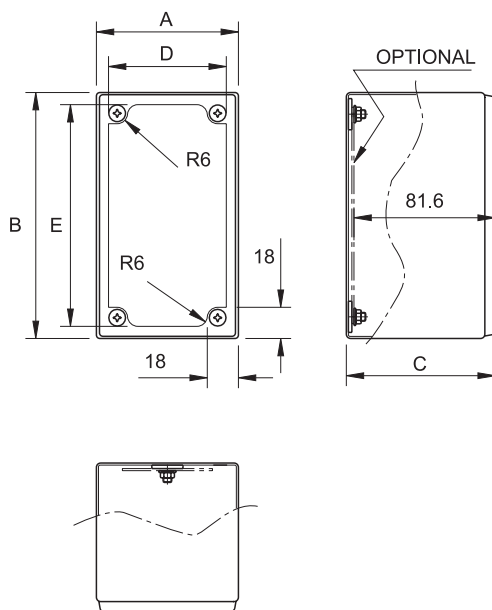


“PE” PUSH-BUTTON PANELS AND “DE” DERIVATION BOXES

- EN 1.4301 (AISI 304) s/s execution, thickness 12/10, fine satin-finish. Available on demand in other types of s/s, as well as customized.
- Cutting-edge welding procedures enable to keep the chemical formulation of the material unaltered thus avoiding corrosion in the weld areas.
- The cover is secured by screws provided with sealing and leak-proof washers.
- Gasket made of closed-cell neoprene foamed rubber, oil-proof and self-extinguishing.
- Protection degree IP66 when appropriate components are properly installed, as per CEI EN 60529 rules.
- Pre-arrangement for earthing complies with the applicable rules.
- All boxes feature stud bolts to secure the DIN bar, if any.
- The PE series features drilled cover to accommodate the Ø 22,5 standardized push-button panel.
- Inner plate realized in sendzimir, available on demand from models PE2, DE02, PEC03 and PEC04.



ITEM.	A	B	C	D	E	F	G	PANEL CODE - OPTIONAL
PE01/304	82	82	86	68	68	-	-	-
PE02/304	82	142	86	68	128	60	-	P02C03
PEC03/304	82	142	86	68	128	30	-	P02C03
PEC04/304	82	142	86	68	128	60	30,5	P02C03
PE03/304	82	202	86	68	188	60	-	P03
PEC05/304	82	202	86	68	188	30	-	P03
PEC06V/304	82	202	86	68	188	60	30,5	P03
PE04/304	152	132	86	138	118	60	60	P04C06
PEC06O/304	152	132	86	138	118	30	60	P04C06



ITEM.	A	B	C	D	E	PANEL CODE - OPTIONAL
DE01/304	82	82	86	68	68	-
DE02/304	82	142	86	68	128	P02C03
DE03/304	82	202	86	68	188	P03
DE04/304	132	152	86	118	138	P04C06



“PS” PUSH-BUTTON PANELS AND “DS” DERIVATION BOXES

- EN 1.4301 (AISI 304) s/s execution, thickness 12/10, fine satin-finish. Available on demand in other types of s/s, as well as customized.
- Cutting-edge welding procedures enable to keep the chemical formulation of the material unaltered thus avoiding corrosion in the weld areas.
- The cover is secured by M5 special screws “leak-proof”
- Gasket made of closed-cell neoprene foamed rubber, oil-proof and self-extinguishing.
- Protection degree IP66, when appropriate components are properly installed, as per CEI EN 60529 rules.
- Pre-arrangement for earthing complies with the applicable rules. For push-button, a special collar of tinned brass is supplied for positioning under a block, in direct contact with the plate.
- On the bottom, S/S stud bolts M6 are applied to fix structural steel and bars.
- The PS series features drilled cover to accommodate the Ø 22,5 standardized push-button panel.
- Inner plate realized in sendzimir (on request).
- The enclosures of the series PS-DS can be pressurized according to CEI 64-2 and CEI 31-1 rules for A-SI security plants and enclosures featuring inner overpressure Ex-p.



Underwriters
Laboratories

IP66



US
LISTED

TYPE
NEMA

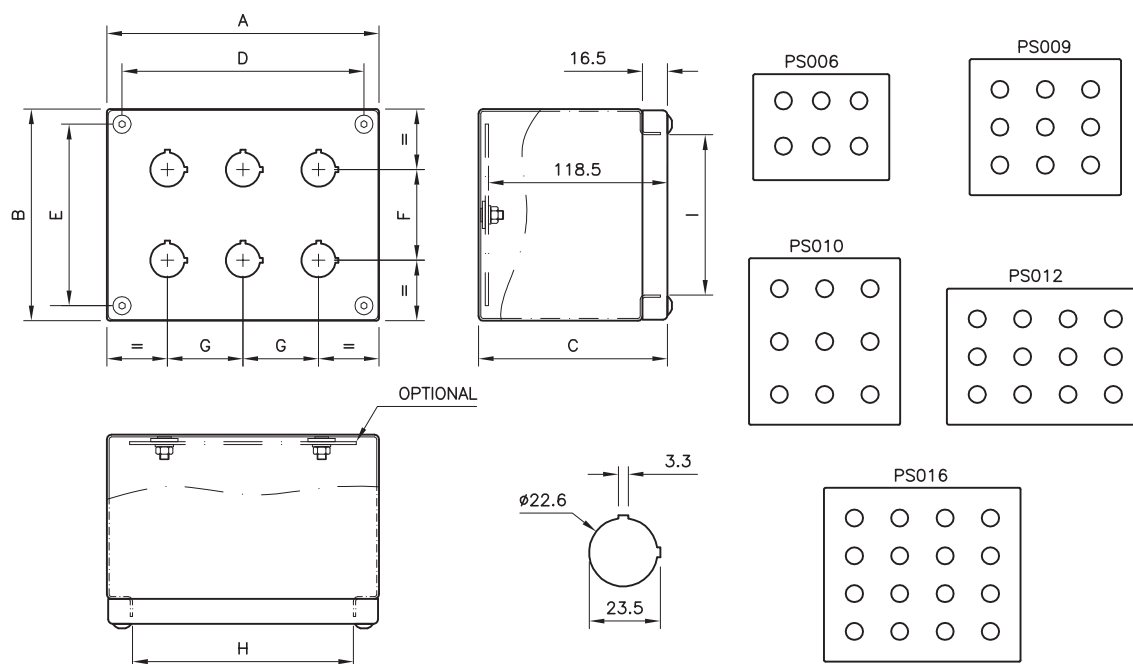
4X



II 2 GD

on demand

push-button
PS



Underwriters
Laboratories

IP66

EN 60 529



TYPE
NEMA

4X, 4, 12, 1

Standard UL508A - UL50
Standard 250



EN 60204-1
89/392/EEC

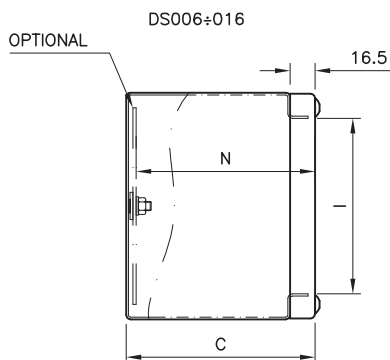
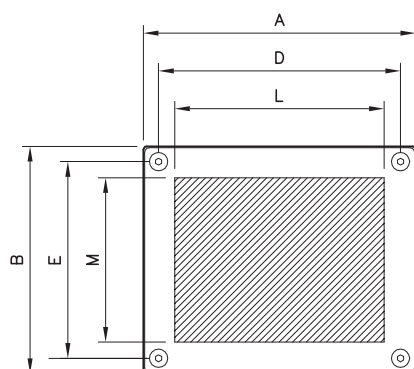


II 2 GD

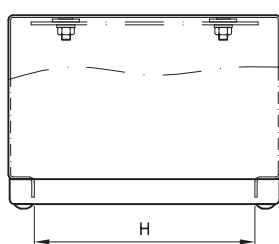
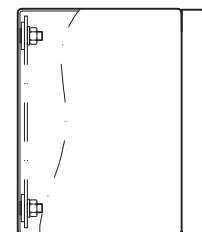
EN 60079-0
EN 61241-0 EN 61241-1

ITEM.	A	B	C	D	E	F	G	H	I	Inner panel CODE – OPTIONAL	MATERIAL	THICKN.
PS006/304	190	150	125	170	130	60	50	158	118	PI06	AISI304	12-10
PS009/304	210	190	125	190	170	50	60	178	158	PI09	AISI304	12-10
PS012/304	270	190	125	250	170	50	60	238	158	PI12	AISI304	12-12
PS016/304	270	240	125	250	220	50	60	238	208	PI16	AISI304	12-12
PS006/316	190	150	125	170	130	60	50	156	116	PI06	AISI316L	15-10
PS009/316	210	210	125	190	190	60	60	176	176	PI10	AISI316L	15-10
PS012/316	270	190	125	250	170	50	60	236	156	PI12	AISI316L	15-10
PS016/316	270	240	125	250	220	50	60	236	206	PI16	AISI316L	15-10

NOTE: All pushbutton boards have 2 holes for fixing



DS020÷060



SPACE FOR DRILLING



Underwriters Laboratories

IP66

EN 60 529



TYPE NEMA

4X, 4, 12, 1

Standard UL508A - UL50
Standard 250



EN 60204-1
89/392/EEC

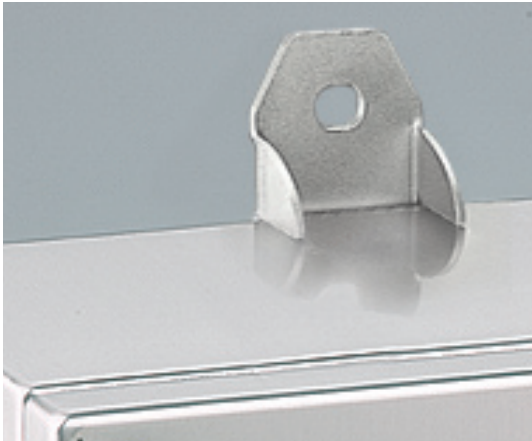


II 2 GD

EN 60079-0
EN 61241-0 EN 61241-1

ITEM.	A	B	C	D	E	H	I	L	M	N	Inner panel CODE – Opt.	MATERIAL	THICKN
DS006/304	190	150	125	170	130	158	118	146	106	118,5	PI006	AISI304	12-10
DS009/304	210	190	125	190	170	178	158	166	146	118,5	PI009	AISI304	12-10
DS012/304	270	190	125	250	170	238	158	226	146	118,5	PI012	AISI304	12-10
DS016/304	270	240	125	250	220	238	208	226	196	118,5	PI016	AISI304	12-10
DS020/304	320	230	150	300	210	288	198	276	186	143,5	PI020	AISI304	12-10
DS025/304	320	280	150	300	260	288	248	276	236	143,5	PI025	AISI304	12-10
DS043/304	400	300	150	380	280	368	268	356	256	143,5	PI043	AISI304	12-10
DS006/316	190	150	125	170	130	156	116	146	106	118,5	PI006	AISI316L	15-10
DS010/316	210	210	125	190	190	176	176	166	166	118,5	PI010	AISI316L	15-10
DS012/316	270	190	125	250	170	236	156	226	146	118,5	PI012	AISI316L	15-10
DS016/316	270	240	125	250	220	236	206	226	196	118,5	PI016	AISI316L	15-10
DS020/316	320	230	150	300	210	286	196	276	186	143,5	PI020	AISI316L	15-10
DS025/316	320	280	150	300	260	286	246	276	236	143,5	PI025	AISI316L	15-10
DS040/316	400	200	150	380	180	366	166	356	156	143,5	PI020	AISI316L	15-10
DS060/316	600	200	150	290	180	556	156	550	150	143,5	PI025	AISI316L	15-10

REMARK: All the derivation boxes have two holes for fixing, except for models DS20, DS25 and DS43 that have 4

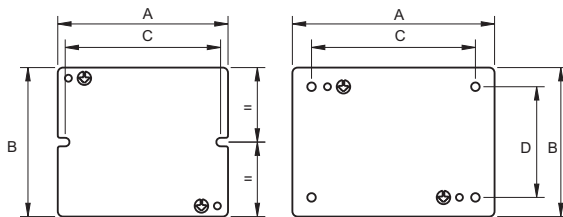


WALL FIXING LUGS

AISI 316 s/s execution, they are delivered in assembling kit and can be easily installed by making two holes $\varnothing 8$ on the bottom of the enclosure.

Water and dust tightness are unaltered as they feature special seals

- **SP021** kit of 2 pcs



INNER PLATE

Disponible à partir des modèles PS02, DS02, PE02, DE02, PEC03 et PEC04. Réalisée en sendzimir, elle est fixée sur le fond de la boîte à l'aide de prisonniers.

Inner panel CODE	A	B	C	D	CODE. push-button and derivation boxes
P02C03	125	52	117	-	PE02/304 DE02/304 PEC03/304 PEC04/304
P03	185	52	177	-	PE03/304 DE03/304 PEC05/304 PEC06V/304
P04C06	135	102	127	-	PE04/304 DE04/304 PEC060/304
PI006	162	100	148	-	PS006/304 DS006/304 PS006/316 DS006/316
PI009	182	140	168	-	PS009/304 DS009/304
PI010	182	160	168	-	PS010/316 DS010/316
PI012	242	140	228	-	PS012/304 DS012/304 PS012/316-DS012/316
PI016	242	190	228	-	PS016/304 DS016/304 PS016/316 DS016/316
PI020	280	190	265	175	DS020/304 DS020/316
PI025	280	240	265	225	DS025/304 DS025/316
PI043	360	260	345	245	DS043/304

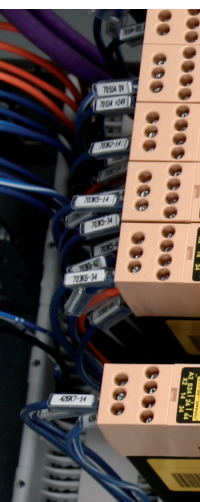
REMARK: All the panels inside push-button boards and connector blocks have two holes for fixing, except for models DS20, DS25 and DS43 that have 4 with centre distance C-D.

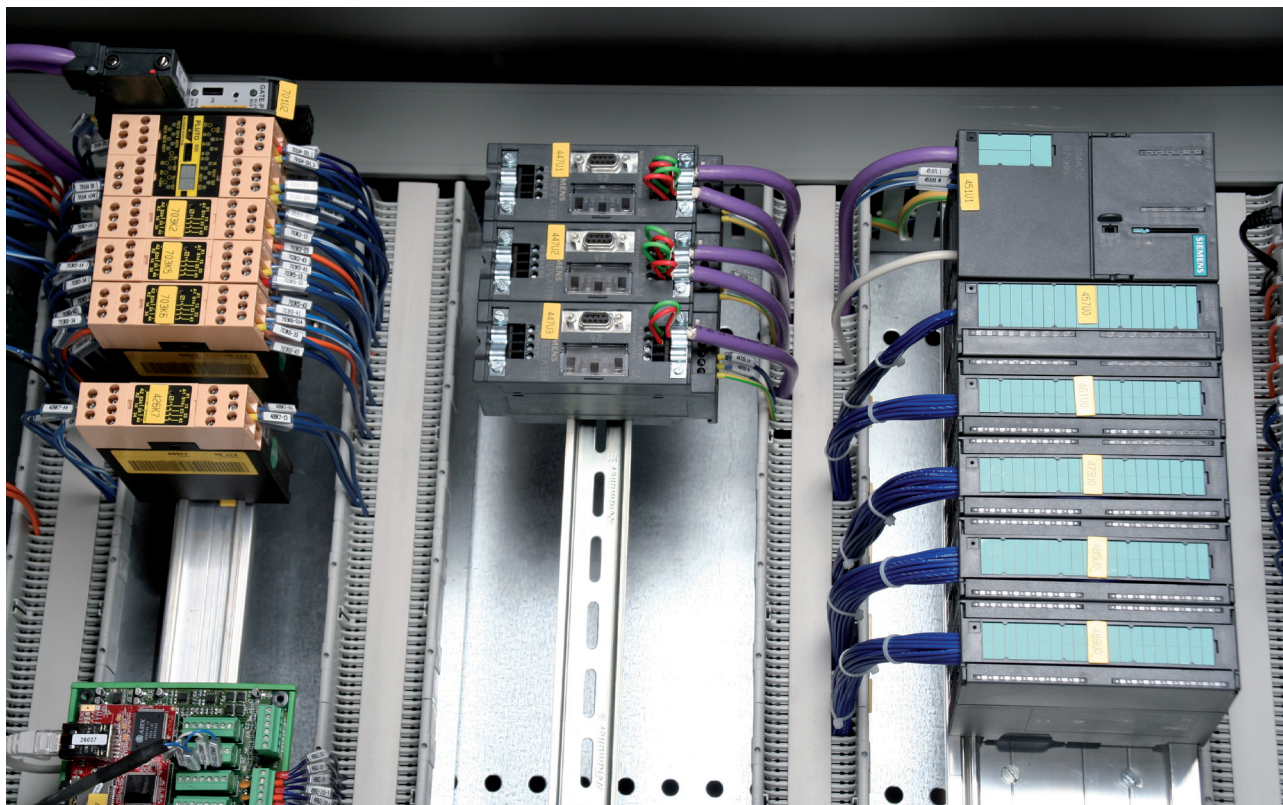
SRS system

NEWS

SRS

130





SPACE-SAVER WIRING SYSTEM SRS

Our constant attention to our customers' needs has led us to tune a wiring system that, implementing the concept of operating on two levels, permits space recovery inside cabinets, while maintaining the flexibility of the traditional systems, thus cutting costs.

The system is comprised of few standard elements that permit to cope with the most diversified requirements. The inner plate used as a base permits extremely easy shifting from traditional wiring to the SRS system, without having to keep to prefixed wiring diagrams and thus using the whole depth of the cabinet as required

SPACE SAVING

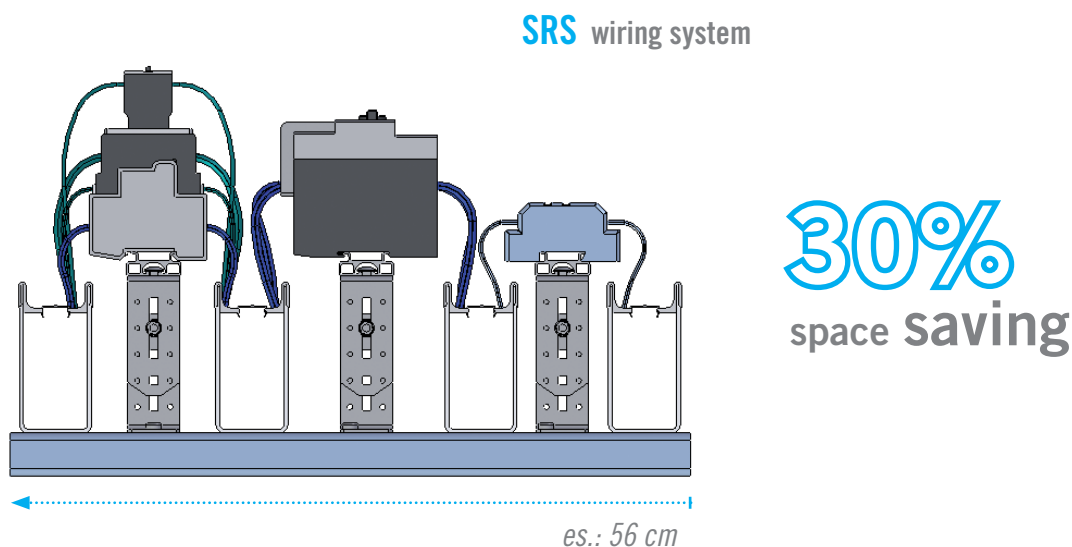
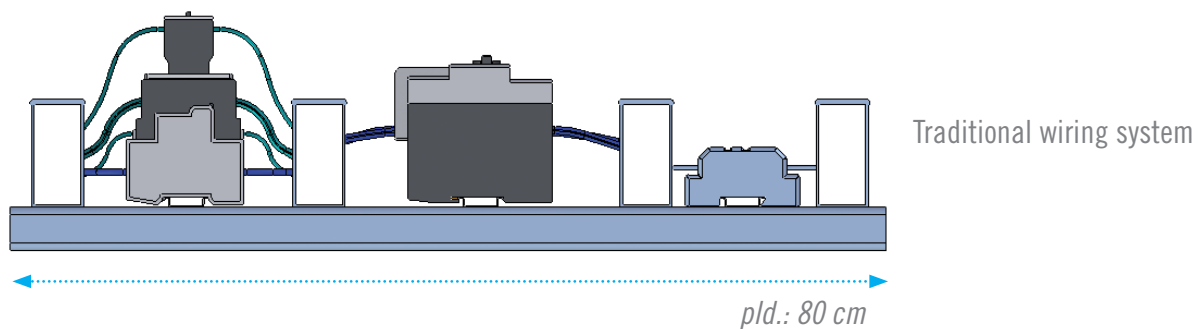
The capability this system has to reduce the gap between devices and apparatuses allows up to 30% space recovery compared to a traditional wiring system; in fact, the ducts provided with comb-type cover for cables inlet from above, are set below the component level. This permits to recover approx. 3 cm per each row of components, as well as the use of the whole width of the plate.

FLEXIBILITY

The use of the inner plate enables the use of the system alone, when actual advantages exist (equipment prearranged for assembling on DIN bars and terminal boards). Medium to big sized inverters, transformers, switches and/or special equipment can rather be fixed directly to the inner plate. Changing from a horizontal layout to a vertical one is also possible. Similarly to the traditional wiring systems, changes are also possible in the manufacturing stage and/or on site, after the cabinet has been installed

COST-EFFECTIVENESS

Space saving allows the use of cabinets of small dimensions or with less columns (if battery installed). Its simplicity, user-friendliness and small number of components considerably cut assembling costs and times.



PS INNER PLATES

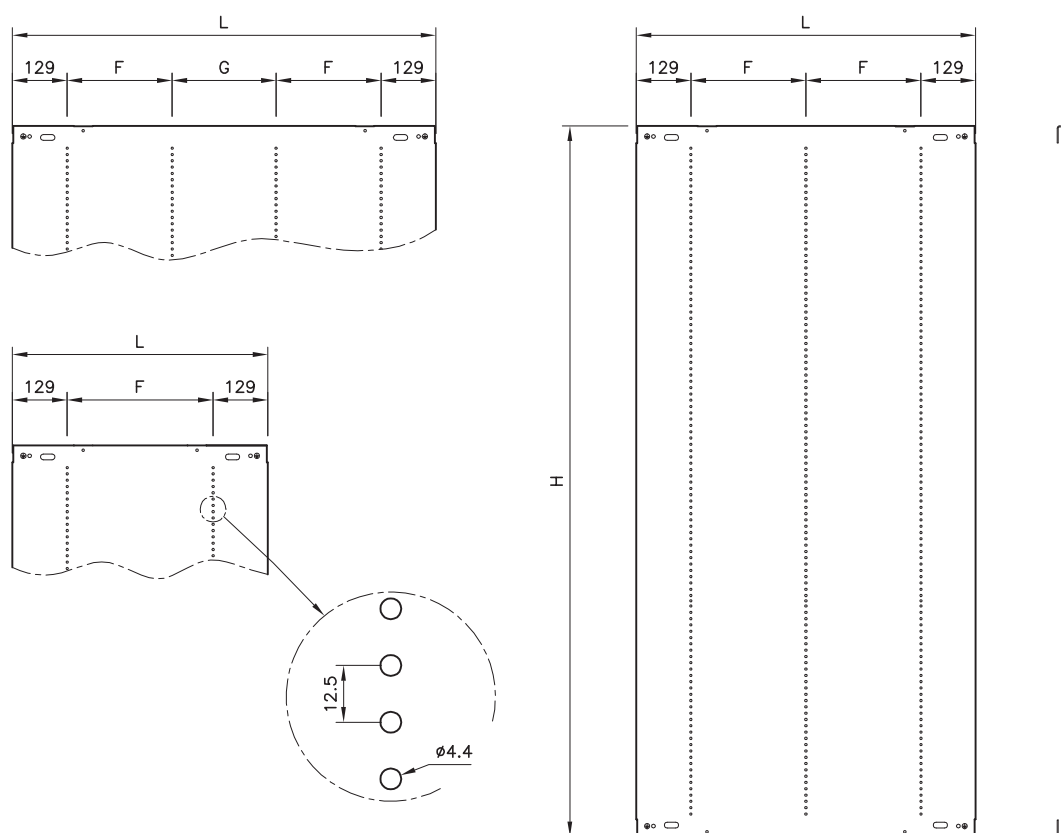
Made of galvanized sheet EN10142 and designed to allow making the most of the cabinet, they suit particularly cabinets featuring removable sides.

The vertical drilling- pitch 25 mm – and the graduated bands for application to the plate provide exact locating points for the fixing of the stirrups that support the DIN bars for component rest.

The use of these plates for battery-mount cabinets needs no intermediate plates since these can be connected directly one to the other.

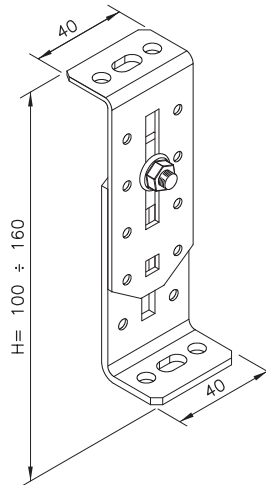
They can also be used as plates for traditional wiring.

The use of PS plates is not necessary in the space-saver wiring system SRS since traditional backplates can be used by drilling right where the stirrups have to be secured for the support of the DIN bars



ITEM.	L	H	F	G	POUR CABINETS								
PS0617	608	1692	350	/	MC0685	-	MC0686	-	MC0688	-	CX0685	-	CX0686
PS0619	608	1892	350	/	MC0605	-	MC0606	-	MC0608	-	CX0605	-	CX0606
PS0817	808	1692	275	/	MC0885	-	MC0886	-	MC0888	-	CX0885	-	CX0886
PS0819	808	1892	275	/	MC0805	-	MC0806	-	MC0808	-	CX0805	-	CX0806
PS1017	1008	1692	250	250	MC1085	-	MC1086	-	MC1088	-	CX1085	-	CX1086
PS1019	1008	1892	250	250	MC1005	-	MC1006	-	MC1008	-	CX1005	-	CX1006
PS1217	1211	1692	325	300	MC1285	-	MC1286	-	MC1288	-	CX1285	-	CX1286
PS1219	1211	1892	325	300	MC1205	-	MC1206	-	MC1208	-	CX1205	-	CX1206

(*)REMARK: No. 2 plates PS0817 or PS0819 are required for cabinet L.1600, depending on the height.

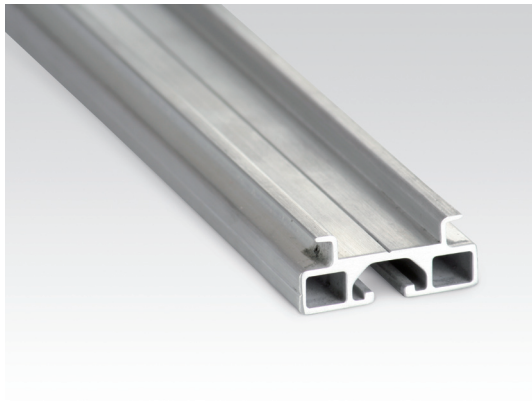


BRACKETS FOR DIN BARS

The brackets to support the DIN bars are made of galvanized sheet sendzimir DN10142 with height adjustable from 100 to 160mm

Delivered in kits of 10 pairs, complete with fastening screws to the backplate and the DIN bar

- **SRS-K100**

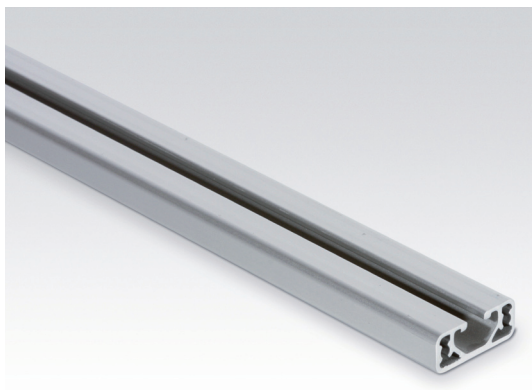


DIN SECTION BARS

Ω-shaped bars DIN EN50022 35x7,5 made of aluminium whose section, besides adding considerable stiffness, permits their setting-up without any drilling, by means of screws with under-head antirotation square, supplied with support brackets.

Delivered in 3m bars for easy cutting to size.

- **SRS-DIN 1500**
- **SRS-DIN 3000**

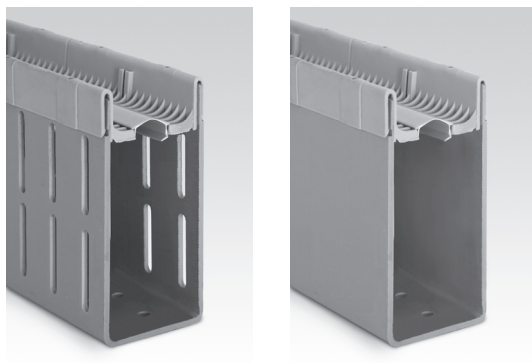


MULTIPURPOSE BAR

Multipurpose aluminium bar, section 30x12, smooth on top for the assembling of equipment not requiring the DIN section; its section permits easy assembling on the inner plate by the screws with underhead square delivered with the support brackets.

Delivered in 3 or 1.5 length to be cut as the need be.

- **SRS-PU1500** - 1.5 mt
- **SRS-PU3000** - 3 mt

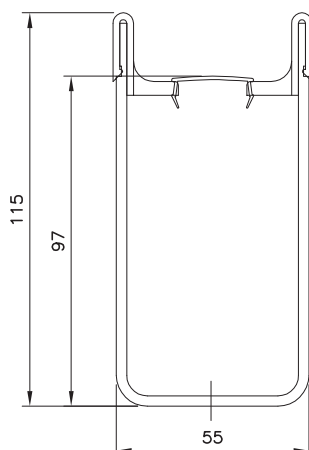


CANALINA CON PETTINI INGRESSO CAVI

Raceways complete with combs for cable inlet from the top and with the relevant cover for “streamlined” wiring. Made of grey PVC RAL 7038, they come in 1,5m bars

NOTE: the standard vertical raceways are NOT delivered (the use of these raceways with a minimum height of 100mm is recommended)

- **SRS-C 100**
- **SRS-C 100 F**



SCREWS WITH UNDERHEAD SQUARE

Caphead screws with under-head square of galvanized steel M6x16 for the slot of the bars SRS-DIN. Supplied complete with flanged toothed nuts anti-unscrewing, they come in 50 pcs. packs

- **VQSM6**

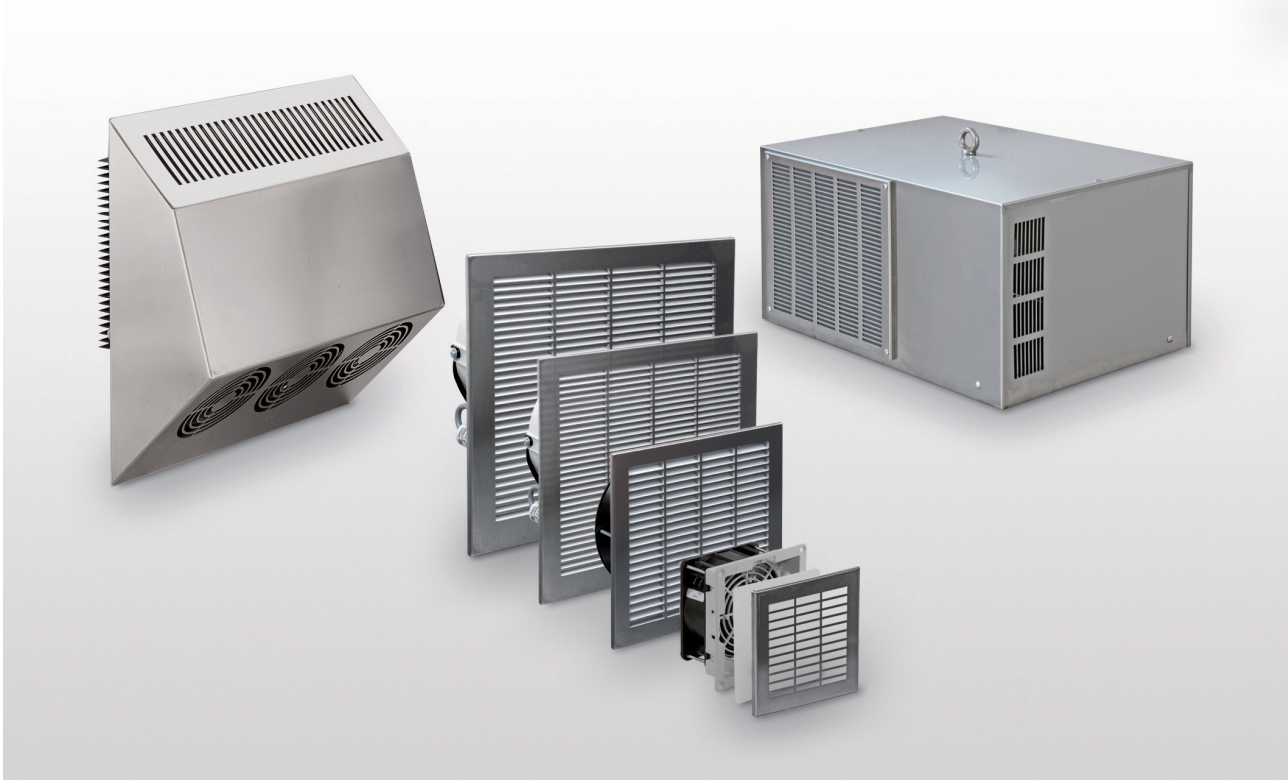


SEL-TAPPING SCREWS

Self-tapping screws, tri-lobe, M5 to fix raceways and other accessories to the pre-drilled plates series PS, delivered in 100 pcs packs.

- **VTRM5-100**





CONDITIONING SYSTEM

AIR CONDITIONERS

This system is recommended when great quantities of heat need being dissipated while room temperatures are rather high. The conditioners have an operating limit determined by the outside temperature, which may range from +55°C to +20°C. It should also be considered that this kind of cooling equipment needs to be properly used and regularly maintained, cleaning the air filter (if any) and the condensing battery. When buying new equipment, we suggest to buy a set of spare filters: the use of common filters from the trade is not advisable as the filtering cloth is too fine and dramatically limits the airflow.

VENTILATION SYSTEM

Filters and fans can be used when the outside temperature is lower than the temperature inside the Panel. Minimum maintenance is required, consisting of periodical filter cleaning and replacement, if the need be. To maximize results, we suggest creating air flows as free as possible from obstacles, and flowing through the whole Panel from bottom upwards, as hot air tends to rise.

ANTICONDENSATE HEATERS

They are used to solve the problem of condensate forming due to the very low temperatures reached when the equipment inside are stopped. The heaters keep the inside temperature within safety limits, so avoiding the problem mentioned above.

CALCULATION OF HEAT EXCHANGE

Calculating the heat load to be removed represent the essential step when choosing the cooling system, and four factors should be considered: the heat dissipated by the equipment inside the panel, the temperature in the room where the panel is installed, the temperature one wishes to keep inside the panel, control board sizes and set-up conditions.










As regards the quantity of heat produced by the inner components is concerned, the data shown on the technical sheets of the components themselves must be checked and evaluated. No need saying that while making this calculation the possibility of various units working simultaneously should be taken into consideration.










Also, as already mentioned, the temperature of the room where the electric cabinet is installed must be carefully evaluated. In fact, an exchange takes place between the panel surfaces and the environment. If the outside temperature is lower than the inner one, heat is transferred from inside to outside, and must be subtracted from the heating load produced by the components; if, on the contrary, the outside temperature is higher than the inside one, the opposite will occur, hence the heat absorbed shall be summed to the heat dissipated by the equipment. In s/s surfaces, 5.5 W/m²K are transmitted per each square meter of cabinet surface.

The calculation of the over temperature inside the cabinet must meet CEI 17/43 standard, according to the cabinet operating conditions.

The relevant calculation sheet in Microsoft® Excel format is available for easier calculation of the thermal exchange in compliance with the above mentioned standard.

A rough calculation is however possible following the method below:

INSTALLATION (DATA DERIVED FROM TABLE 3 OF CEI 17/43) STANDARD			
	• $A_e = 1.8 \times H \times (L+P) + 1.4 \times L \times P$		• $A_e = 1.4 \times H \times (L+P) + 1.4 \times L \times P$
	• $A_e = 1.4 \times L \times (H+P) + 1.8 \times P \times H$		• $A_e = 1.8 \times L \times H + 1.4 \times L \times P + P \times H$
	• $A_e = 1.4 \times P \times (H+L) + 1.8 \times L \times H$		• $A_e = 1.4 \times L \times (H+P) + P \times H$
	• $A_e = 1.4 \times P \times (H+L) + 1.8 \times L \times H$		• $A_e = 1.4 \times L \times H + 0.7 \times L \times P + P \times H$
	• $A_e = 1.4 \times H \times (L+P) + 1.4 \times L \times P$		

KEY		
L	H	P
= cabinet width (m)	= cabinet height (m)	= cabinet depth (m)
		
Individual casing, free on all sides	Rear panel set against a wall	Left side set against a wall
		
Right side set against a wall	Left side and rear panel set against a wall	right sides set against a wall
		
Left and right sides set against a wall	Flush-mounted, side and back panels set against a wall	Rear panel, left and right sides set against wall with covered roofing

CONDITIONING SYSTEM

The following formula shall be used to calculate the cooling or heating power:

$$Pe = PV - (k \times Ae \times \Delta t)$$

Where Ae is the cabinet actual surface derived from Table 1 above, Δt is the algebraic value of the gap between the requested inner temperature and the cabinet outside temperature and, k is the heat transmission coefficient (approx. 5.5 W/K m²), Pv is the actual power dissipated by the equipment inside the cabinet, while Pe is the required cooling or heating power.

Reference to Table "HEAT PRODUCED COMPARED TO ABSORBED POWER" is possible for a rough calculation of PV power.

HEAT PRODUCED COMPARED TO ABSORBED POWER	
ELECTRIC / ELECTRONIC COMPONENT	HEAT % WATT (*)
transformers / inverters / drives	$P \text{ (Watt)} \cdot 5/100$
	$P \text{ (Watt)} \cdot 3/100$
coils of relays and counters	$P \text{ (Watt)} \cdot 100/100$
incandescent lamps	150 W Chacun
PLC	200 W Chacun
numerical checks	200 W egyenként

(*) Average values, to be checked according to the equipment actually used.

The following example can help better understanding :

In a control board with total surface of 5.3 m² have been installed a 15000 W transformer running at full capacity, a 1000 Watt lamp, a PLC and a 20000 W inverter running at 80%. According to the table, we will have the following total load:

Total inner heat PV		
Transformer 15000 x 5/100	750 W	1800 = 1.80 kW
Lamp 1000 x 100	100 W	
PLC 150 X 1	800 W	

Assuming the above Panel is installed in a room with 40°C temperature and that its temperature is kept at 30°C, when these data are related to the total surface of the panel itself it can be inferred that the thermal power transmitted to the inside will be as follows:

$$5.3 \times 5.5 \times -10 = -291.5 \text{ W}$$

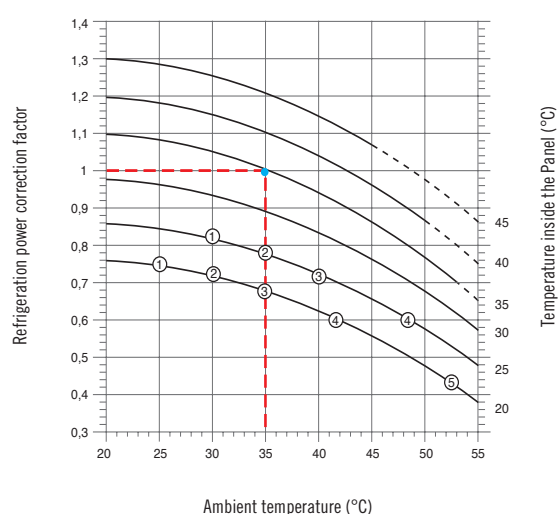
The total heating load will be equal to

$$Pe = 1800 - (-291.5) = 2091.5 \text{ W}$$



AIR-COOLED CONDITIONERS

This cooling system is particularly recommended when the temperature inside the Panel has to be maintained equal to or lower than the temperature outside it. To maximize its reliability, the conditioner should be carefully sized, to get a model properly sized to keep the temperature within acceptable limits even in the worst conditions, while avoiding over-sizing. The room temperature must therefore be related to the Panel inside temperature, to obtain the so-called correction factor, i.e. the data necessary to determine the conditioner rated yield. Graph below can help to determine this factor:



(*) Average values, to be checked according to the equipment actually in use. Percentage of relative humidity 1 80 % 2 60 % 3 40 % 4 30 % 5 20 %

- On the right side of the chart is shown the control board inner temperature
- On the axis of abscissas we can read the room temperature.
- The dotted line of the curves shows the area the air-conditioner can reach for short periods only.
- The circled numbers indicates limit work conditions, as a function of the outside percentage of relative humidity. Setting the temperature inside the board below the values indicated, condensate would form on the electric components on opening the doors, as the dew point is reached.

Example of yield correction: for outside temperature 45°C and inside one 35°C the correction factor is 0,85. To obtain 1.000 W in these conditions, an air conditioner featuring rated yield (L35L35) $1.000 / 0,85 = 1,176$ W. Contrariwise, an air conditioner for 1.000 W rated, yields 850 W in these conditions.

CONDITIONING SYSTEM

Once this value has been determined, the actual yield of a conditioner can be set according to the following formula:
For example, with outside temperature of 45°C and

Conditioner rated power=	Required Cooling power
	Correction factor

inside temperature of 35°C, the correction factor is 0.85. This means that, in the aforesaid conditions, a conditioner featuring 1000 W rated power, yields 850 W and that to obtain a yield of 1000 W a conditioner featuring a rated yield of 1176 W ($1000 \text{ W} / 0.85$) is required.

When deciding to use air-cooled conditioners, it must always be considered that:

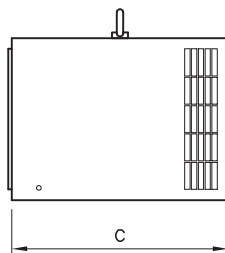
- On the conditioner outside there must be no obstacles, to avoid a poor yield or even the stoppage of the conditioner following the tripping of a protection.
- The standard conditioner can run at minimum outside temperature of 20°C and maximum 55°C
- The temperature inside the cabinet must range between 25°C and 45°C. Higher temperatures can be dangerous for both the conditioner and the components inside the cabinet, while lower temperatures can cause condensation on the components following the opening of the doors.
- Voltage and frequency values, with the relevant admitted tolerances, are indicated per each conditioner. These tolerances should never be exceeded not to jeopardize reliability and functionality of the equipment.
- Always check for the presence of particular matters in the air, as they might damage the materials the conditioner is made of. It is always advisable to check for possible sources of heat close to the cooling unit, possible exposure to weather agents and the presence of strays that can cause corrosion. Also the presence of fogs from oil or solvents should be kept under control, as they could damage the polyurethanic filters usually installed.
- Air always contains some steam, hence the steam in the air inside the cabinet to be conditioned condensates on the cold battery of the conditioner itself. If the cabinet is tight, once most of this steam is removed, no more condensate water will form. If, in contrast, the cabinet is open (although with small openings), water keeps forming and must be removed through the pipe provided on the conditioner for the purpose. Said pipe must be free of clogging and have no steam traps, to prevent condensate from overflowing into the control board, after some time. A micro-switch should also be provided on the cabinet door, to automatically stop the conditioner running, so avoiding most of the refrigerating power being dissipated to make the steam condensate. Opening and closing the door too often should be avoided, or the compressor inner protection might stop it.



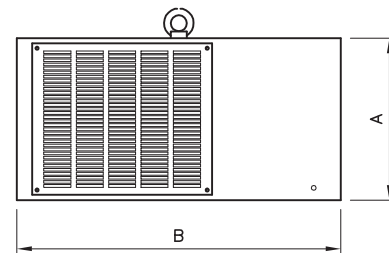
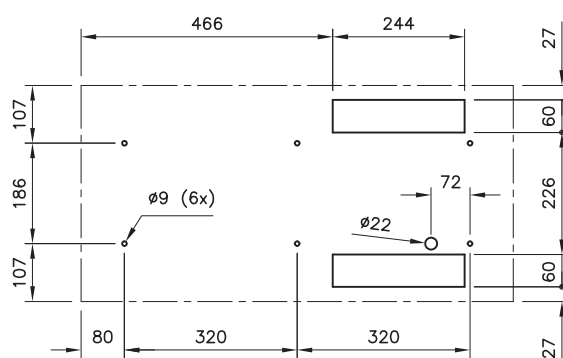
AIR CONDITIONERS FOR ROOF ASSEMBLING - SERIES KT

STANDARD FEATURES AND OUTFITTING

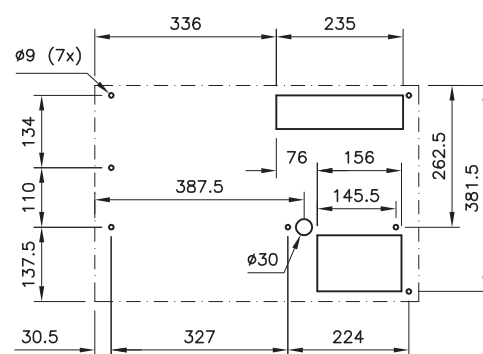
- Roof assembling (outside)
- Fit for installation on cabinets min.L 800 – Min. depth 500
- Inside control thermostat – preset at 35°C
- Terminals board for inside connection
- Anti-frost thermostat
- Casing of EN 1.4301 (AISI 304) s/s finely satin-finished and protected
- Polyurethanic air filter
- Hoisting eyebolts
- Compressor starting timer (for models KT30.5 and KT40.5)
- Compressor contactor (for models KT30.5 and KT40.5)
- IP54 seal between conditioner and control board in compliance with CEI EN 60529 (CEI 70/1) RULES
- Eco refrigerating media R134a in compliance with CE rules
- Use and maintenance manual in 5 languages



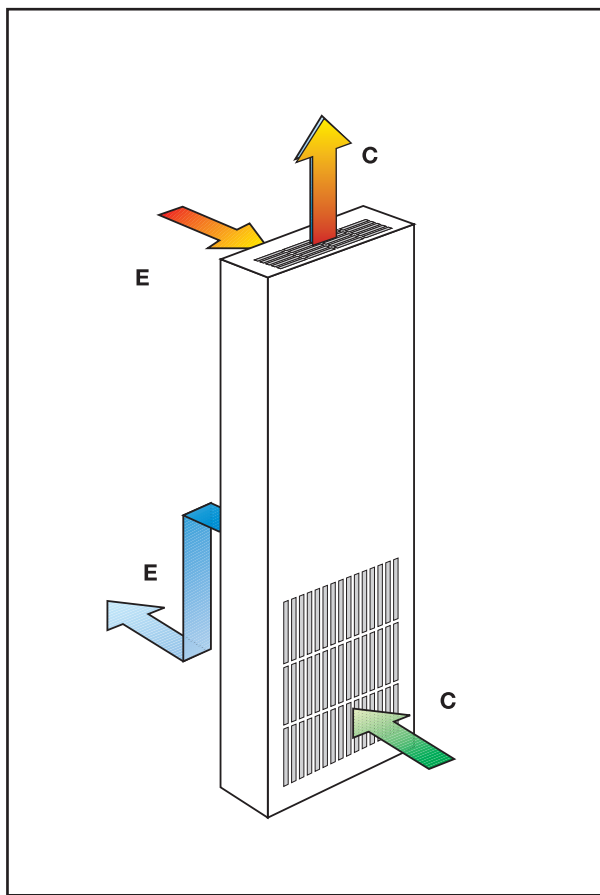
KT20/30/40



KT15/17



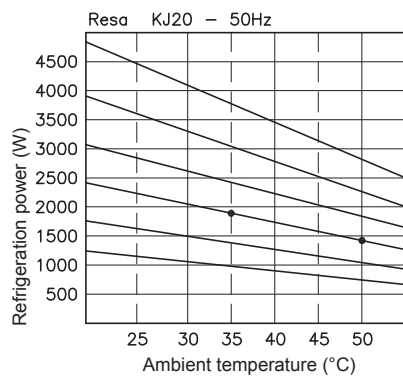
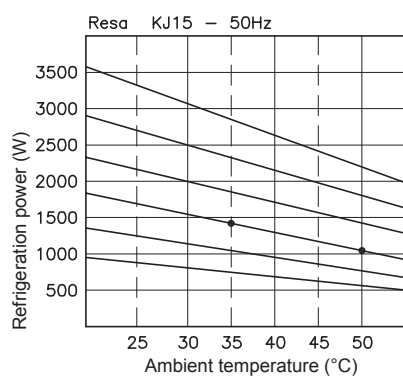
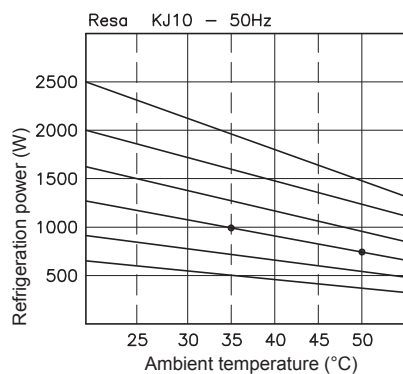
Technical data								
Model		KT15.5	KT17.5	KT17.6	KT20.5	KT20.6	KT30.5	KT40.5
Refrigerating yield DIN3168 (L35L35)	W	1.360	1.720	1.720	2.000	2.000	2.800	3.800
Total absorbed power	W	632	900	900	1.015	1.330	1.330	1.680
Standard power supply	230 V monofase							
Frequency	Hz	50	50	60	50	60	50	50
Absorbed current at pick-up	A	15	21,5	21,5	24,2	24,2	35	36
Absorbed current in steady conditions	A	3,6	4,5	4,5	5	5	8	8,8
Ammetric protection	A	6	8	8	8	8	16	16
Evaporator air flow	m3/h	550	550	550	965	965	965	965
Condenser air rate of flow	m3/h	965	965	965	965	965	1.500	1.500
Protection degree – Board side		IP54	IP54	IP54	IP54	IP54	IP54	IP54
Cooling gas (standard)		R134A	R134A	R134A	R134A	R134A	R134A	R134A
Admitted outside temperature	°C	20÷55	20÷55	20÷55	20÷55	20÷55	20÷55	20÷55
Noise	dB(A)	62	62	62	65	65	65	65
Approx. Weight	Kg	28	30	30	48	48	50	52
Sizes								
A	mm	301	301	301	409	409	409	409
B	mm	604	604	604	804	804	804	804
C	mm	401	401	401	403403	403	403	403



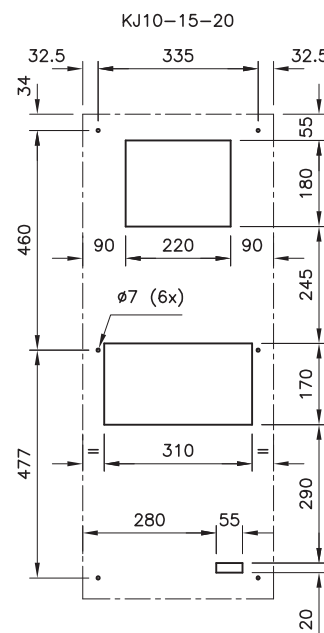
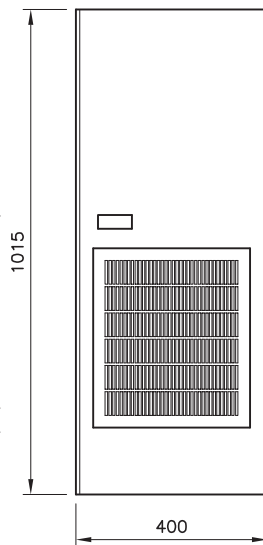
CONDITIONERS FOR WALL OR DOOR MOUNT SERIE KJ

STANDARD FEATURES AND EQUIPMENT:

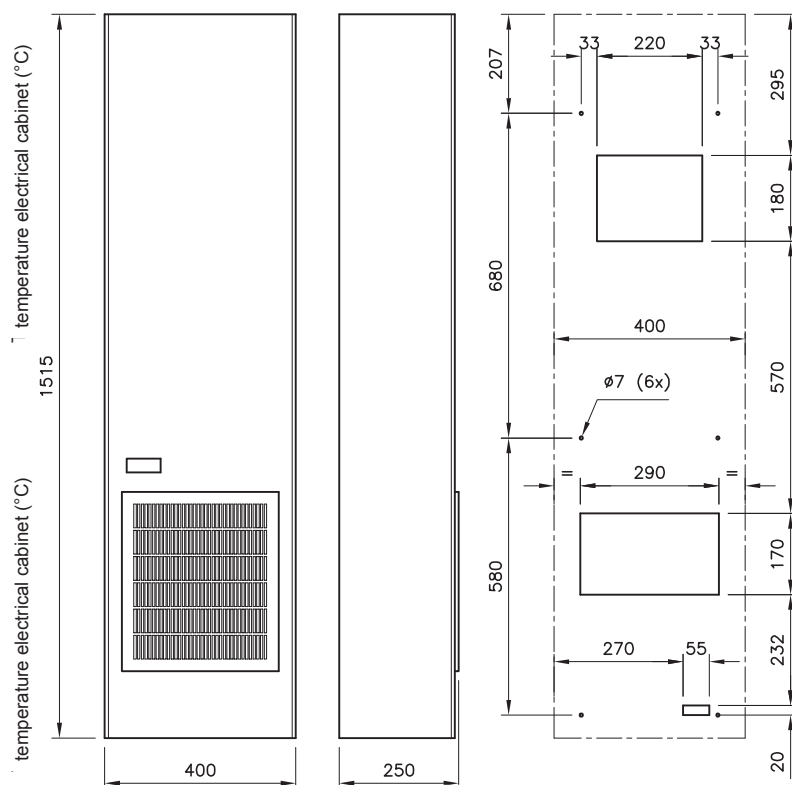
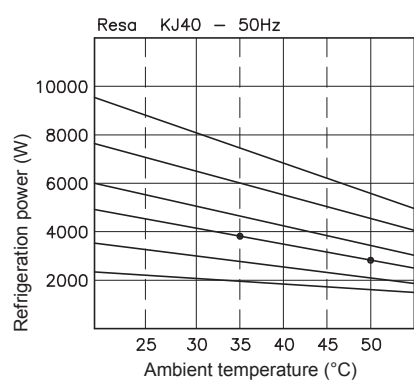
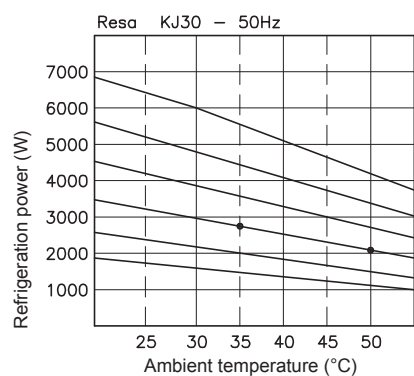
- Optional grid and filter, easy to install
- Assembling from the outside
- Display on the whole range
- Outside enclosure made of AISI 304 s/s finely satin-finished and protected
- Inside frame made of galvanized steel, with cut-proof sheet
- Easy connection by electric connector
- Steam trap flanged to the inner structural frame, set on the outside bottom side
- Drop-proof wirenet
- IP 54 seal between conditioner and cabinet according to CEI EN 60529 (CEI 70/1) rules
- Condensing battery with cleaning action
- Eco-rooler R134a
- Hoisting eyebolts
- Use and maintenance Manual – 5 languages
- Operating at 50/60 Hz
- room temperature
- temperature of electric cabinet
- Refrigerating power



temperature electrical cabinet (°C)



	Refrigerating nyield DIN3168	Absorption	Supply	Max. pick-up current	Fuses gG	Noise	Weight
	W	W	V	A	A	dB	kg
KJ10-230	1000-1050	550-640	230 monofázis	3.8 - 19.6	6	70	45
KJ15-230	1450-1520	800-930	230 monofázis	4.2 - 26	6	70	50
KJ20-230	1900-2000	1050-1220	230 monofázis	6.7 - 37	8	70	50
KJ20-400	1900-2000	1220-1390	400 két fázis	3.9 - 100	10	70	50



	Refrigerating nyield DIN3168	Absorption	Supply	Max. pick-up current	Fuses gG	Noise	Weight
	W	W	V	A	A	dB	kg
KJ30-400	2800-2940	1540-1800	400 három fázis	2 - 10.5	4	70	65
KJ40-400	3800-3990	800-930	400 három fázis	2.7 - 15.2	6	70	65



THERMOSTATS

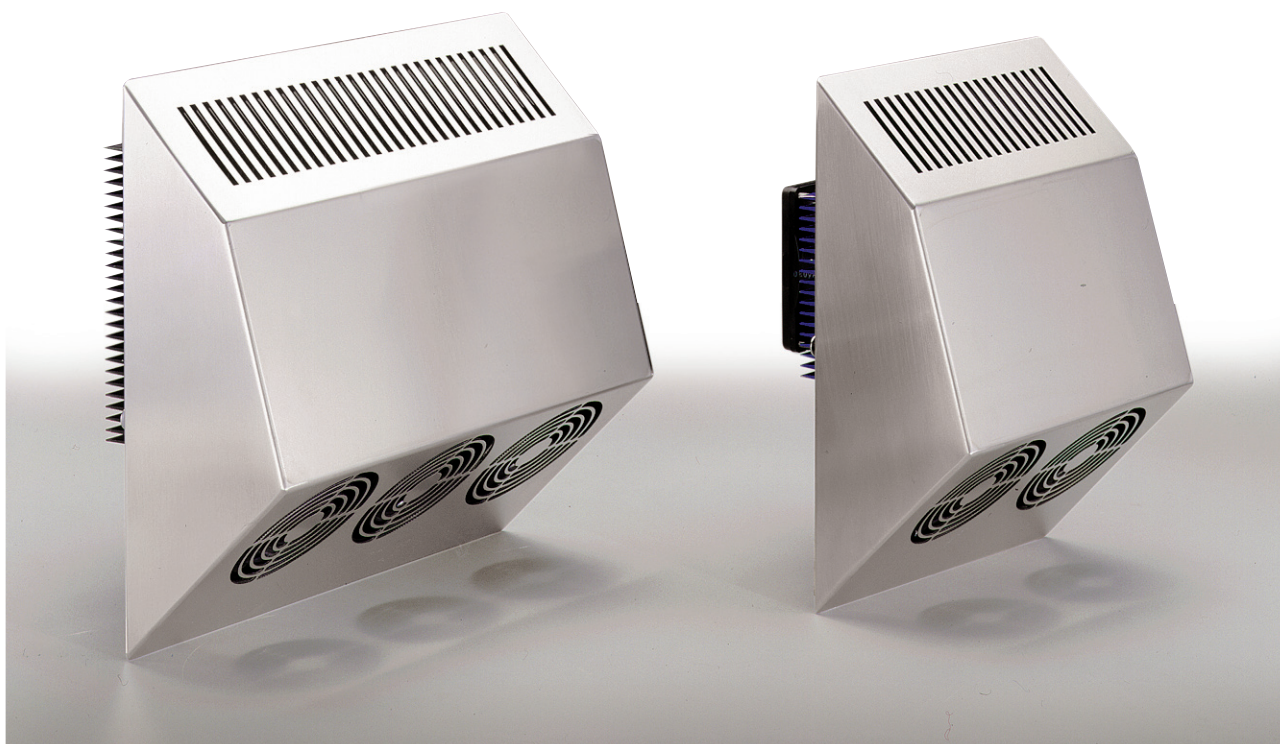
Bimetal electro-mechanical thermostats.

Art. KS011 has a closing contact and is designed to control the cooling equipment or to provide alarm contacts for maximum temperature, while art. KT011 has a NC opening contact and is designed to control heating devices.

- KS011
- KT011

Regulation range	0 to + 60°C
Type of contact	tripping
Contact resistance	< 10m
Lifetime	> 100.000 cycles
Max. opening power	250 V AC, 10(2)A
Connection	Flexible wire with 1,5 mm terminal
Electromagnetic compatibility	According to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3 rules
Fixing	on rail DIN 35mm, EN 50022
Sizes	60x33x43
Weight	40g
Protection degree	IP20
Certifications	UL FILE N° E164102





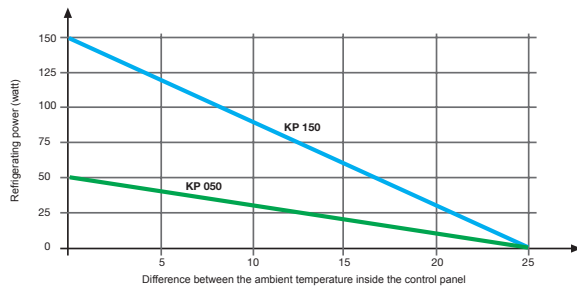
PELTIER-EFFECT THERMAL MODULES SERIES KP

The thermoelectric technology applied to the air conditioners for electric/electronic panels in industrial applications is based on the principle of the Peltier-effect heat pump.

Unlike the conventional compressor-based cooling/conditioning systems, the Peltier effect is electronic with no use of gas like the CFC or others. The main advantages of the thermoelectric system compared to the traditional compressor-based ones are the following:

- Reliability: they are electronic-based, have no mechanical moving parts, hence are no subject to wear or charge exhaustion
- Limited size and weight: ideal where weight and overall dimensions of the refrigerating dissipating system are determinant for the good working of the finished system.
- High protection degree: the thermoelectric system allows IP 55 protection degree to be achieved for the devices inside the board.
- Versatility: the thermoelectric units delivered by our company are pre-arranged for the conditioning/heating function, both in automatic (adding a thermostat) and manual mode (adding a push button)
- Easy installation: semi-recessed mounting; 24 Volt D.C. power supply allow immediate installation in electric/electronic Panels, even small-sized.

The choice of the most appropriate model can be facilitated by the use of the following chart:



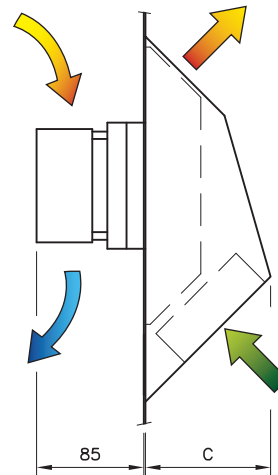
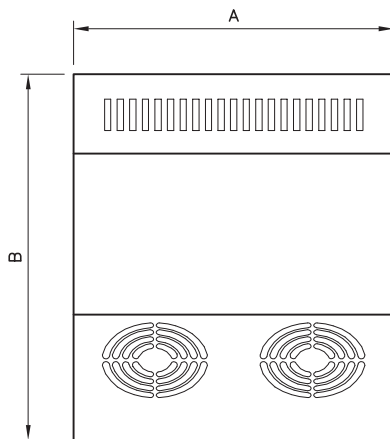
REFRIGERATING POWER CHART/ CABINET INNER TEMPERATURE

Refrigerating power = Heat dissipation capacity of the thermoelectric unit.

Board inside temperature = Temperature obtained inside the electric/electronic Board after dissipation of the heat produced inside the devices installed

STANDARD FEATURES AND OUTFIT

- Semi-recessed mounting
- Casing of EN 1.4301 (AISI 304) s/s fine satin-finished and protected
- Protection degree: IP55
- Thermal protection at 75° on the hot side in case of fan stop
- Temperature sensor on the hot side
- Temperature sensor on the cold side



Technical data				
Model		KP050	KP100	KP200
Refrigerating power	W	50	100	200
Absorption	W	60	60	168
Power supply		24 Volt DC +/-15%		
Rated power	A	2,5	2,5	7
Admitted outside temper.	°C	-40/70		
Noise level	dB(A)	53	55	55
Size				
A		254	335	473
B		290	290	390
C		100	100	155



FILTERS AND VENTILATORS

Cooling system recommended when the outside temperature is lower than the inside one. Proper ventilator sizing requires that the heat power to be dissipated be known (see HEAT CALCULATION Sheet), as well as the gap between the inside and outside temperature, while the value of ventilator minimum air rate of flow will be derived from the chart.

A grid with fan must always be matched with a grid without fan, placing the fan at the bottom and the grid on top on the opposite side.

The grids, all louver type, are available both in the ABS self-extinguishing version and in s/s, while the inner body is always in ABS.

When minimum overall dimensions are a must, and high protection degree is not required, an extra-flat grid is available, with and without ventilator.

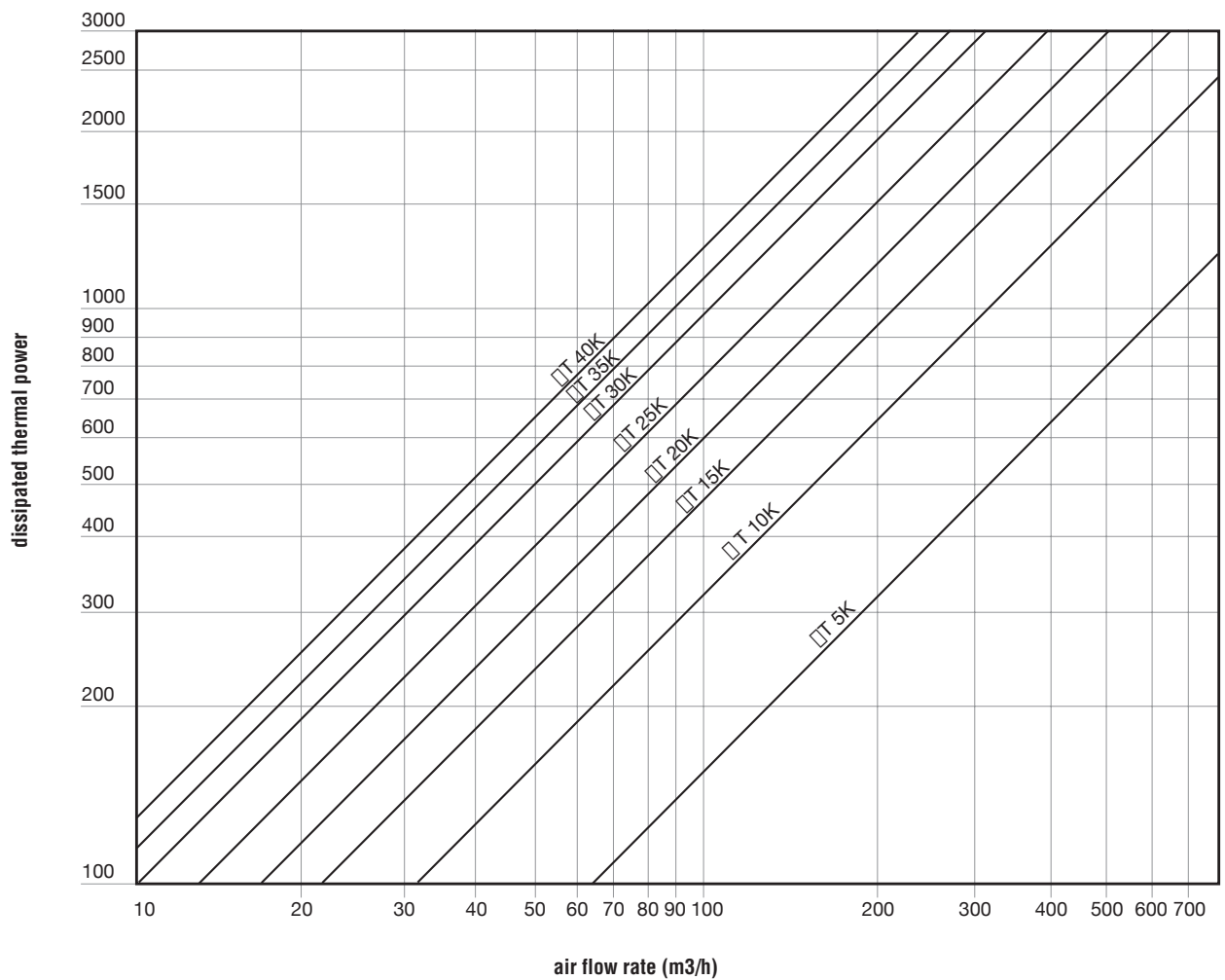
This cooling system offers several advantages: easy installation (drilling the cabinet according to the template supplied is everything you need to do), limited maintenance and cost quite lower than the other refrigerating systems.

Troubles and damages can be avoided by:

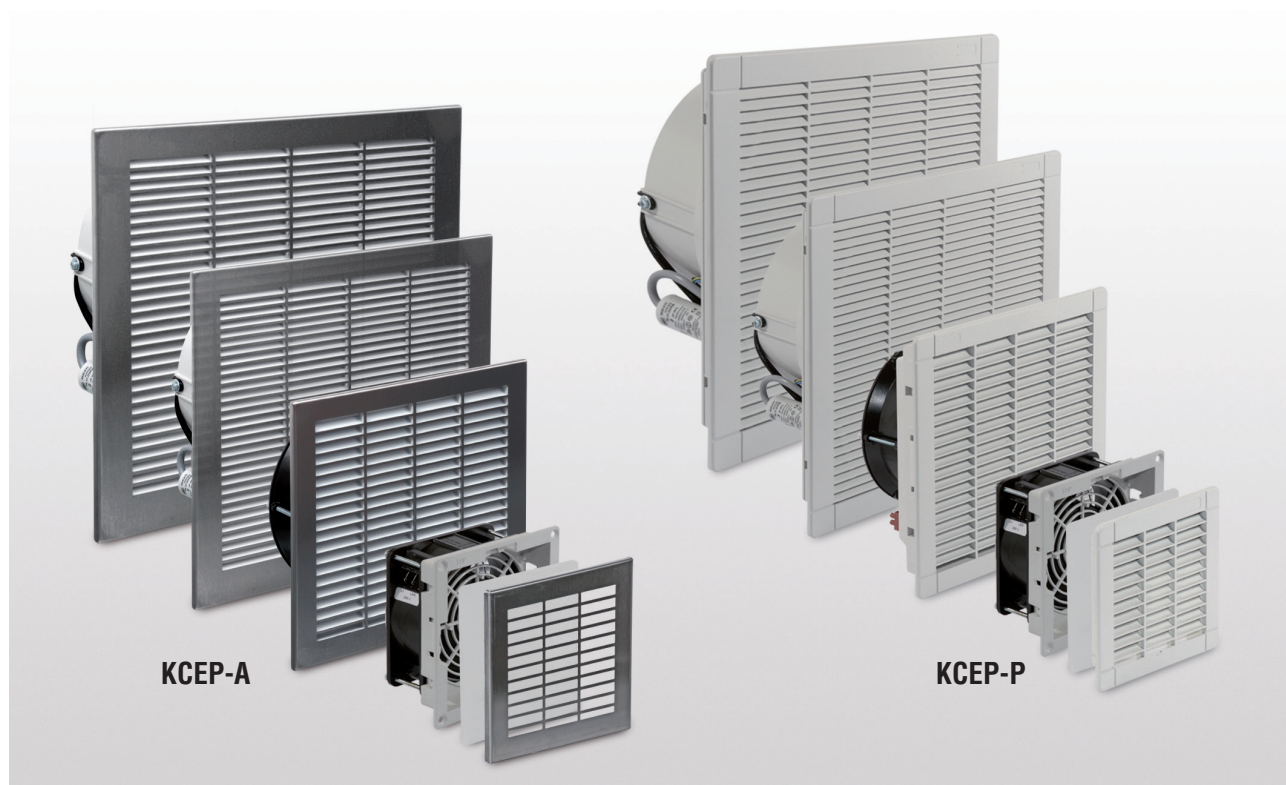
- Making sure the outside temperature is always lower than the inside one
- Cleaning the filters regularly, and replacing them, if the need be (the operation can be done even while the ventilator is running)
- Chose a ventilator slightly oversized compared to the theoretical calculations: a flow higher than required will cause no damage while it provides a certain safety margin.

On request, grids and ventilators can be supplied pre-assembled on control panels.

FILTERS AND VENTILATORS



- Determine in advance:
 - The thermal power dissipated by the electric equipment
 - The maximum admitted temperature inside the cabinet
 - The maximum room temperature expected outside the cabinet
- Calculate ΔT as the difference between the two temperatures
- Cross the horizontal line corresponding to the dissipated thermal power with the diagonal of temperature difference (ΔT). The crossing point between the two variables determines a vertical line corresponding to the air flow in m³/h necessary for the dissipation required.
- Choose the suitable fan.



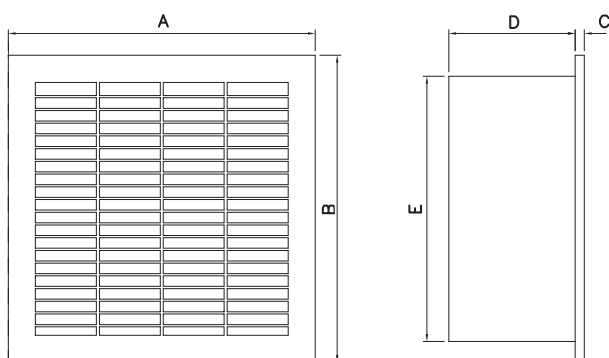
AERATION UNITS SERIES KCEP

STANDARD FEATURES AND OUTFIT

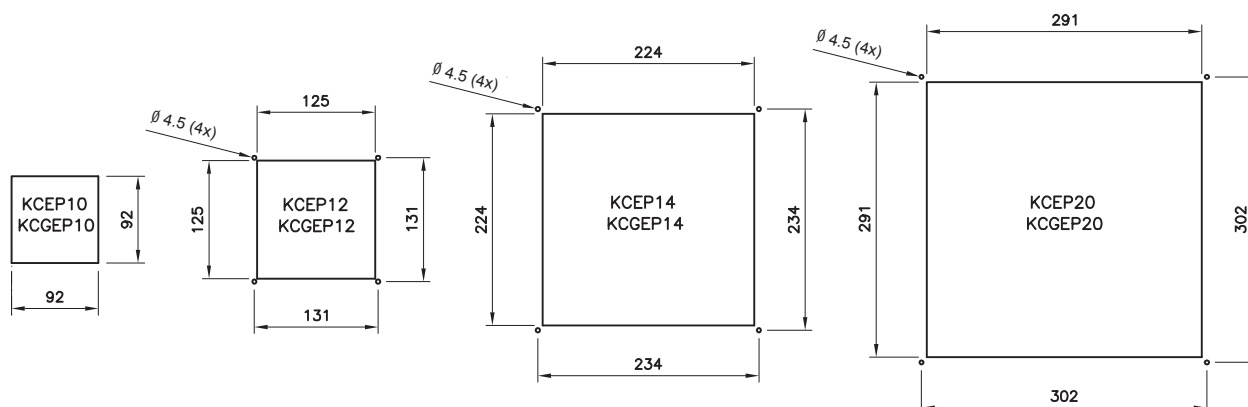
- Protection degree IP54
- Axial fans with conveyor, grid and filter, working on inlet and on outlet when so required
- Motor set on ball bearing, no-stop running for 30.000 h.
- Grid inner body made of ABS plastic, self-extinguishing according to UL 94V-0 rules, standing temperatures from 10°C to +70°C, colour RAL7032
- Outside grids with shutter type slots to allow condensate drainage, if the need be; available both in EN 1.4301 (AISI 304) s/s finely satin-finished and protected, and in ABS plastic, self-extinguishing according to UL 94V-0 rules, standing temperatures from -10°C to +70°C, colour RAL 7032.
- Filtres: fit for retain powders with granulometry up to 10 micron
- They comply with CEI 17-13/1 (IEC439-1) and CEI 61-28 (IEC342-1) rules.

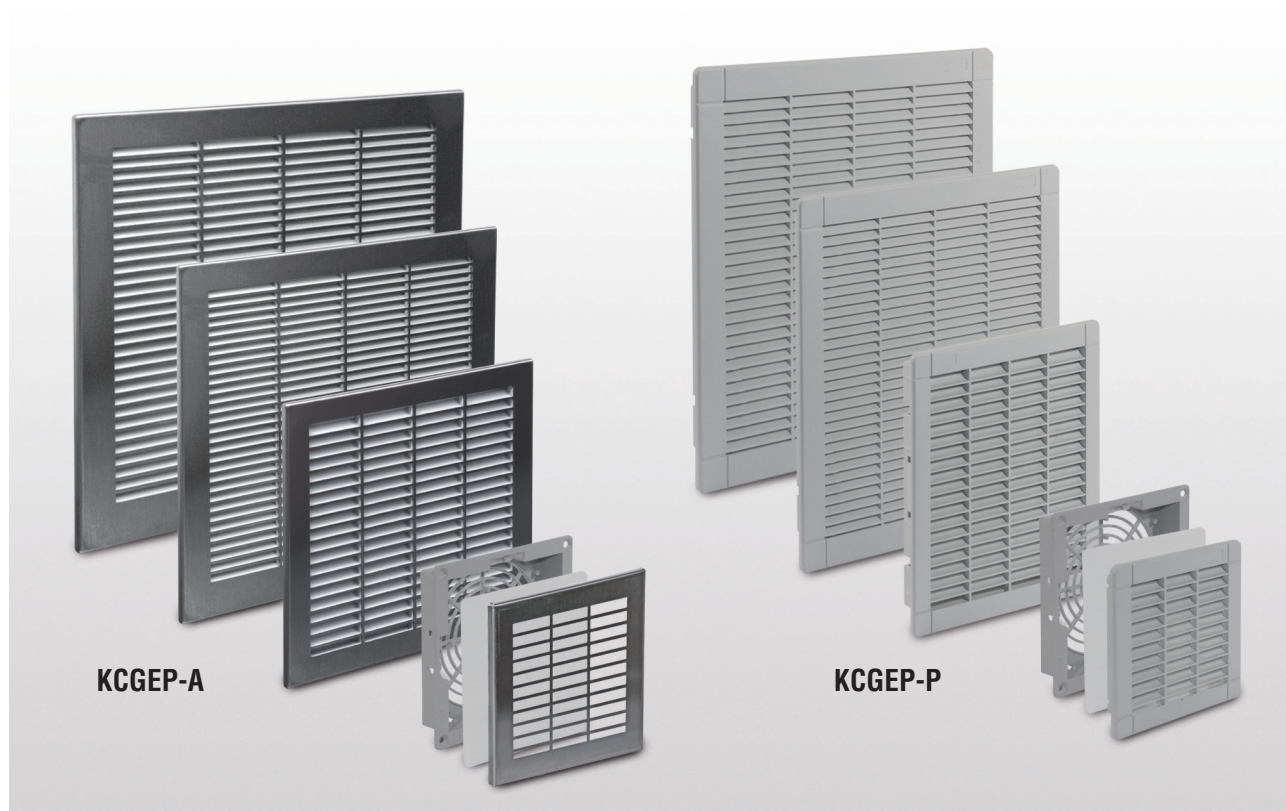
Ventilation technical features									
Model	Volt	Hertz	Watt	Amperes	dB	RPM	m3/h	m3/h	Mater.
KCEP10P/54	220	50/60	13	0.10	30	2400	24	14	ABS
KCEP10P/54/110	110	50/60	13	0.14	30	2400	24	14	ABS
KCEP10P/54/24DC	24		4	0.16	35	2400	24	14	ABS
KCEP10A/54	220	50/60	13	0.10	30	2400	24	14	ABS+INOX
KCEP10A/54/110	110	50/60	13	0.14	30	2400	24	14	ABS+INOX
KCEP10A/54/24DC	24		4	0.16	35	2400	24	14	ABS+INOX
KCEP12P/54	220	50/60	22	0.14	43	2850	55	40	ABS
KCEP12P/54/110	110	50/60	22	0.26	43	2850	55	40	ABS
KCEP12P/54/24DC	24		13	0.27	45	2850	55	40	ABS
KCEP12A/54	220	50/60	22	0.14	43	2850	55	40	ABS+INOX
KCEP12A/54/110	110	50/60	22	0.26	43	2850	55	40	ABS+INOX
KCEP12A/54/24DC	24		13	0.27	45	2850	55	40	ABS+INOX
KCEP14P/54	220	50/60	40	0.17	53	2800	230	180	ABS
KCEP14P/54/110	110	50/60	40	0.34	53	2800	230	180	ABS
KCEP14P/54/24DC	24		26	1.08	61	2800	230	180	ABS
KCEP14P/54M	220	50/60	70	0.40	65	2775	370	250	ABS
KCEP14A/54	220	50/60	40	0.17	53	2800	230	180	ABS+INOX
KCEP14A/54/110	110	50/60	40	0.34	53	2800	230	180	ABS+INOX
KCEP14A/54/24DC	24		26	1.08	61	2800	230	180	ABS+INOX
KCEP14A/54M	220	50/60	70	0.40	65	2775	370	250	ABS+INOX
KCEP20P/54	220	50/60	70	0.40	65	2775	500	370	ABS
KCEP20P/54/110	110	50/60	70	0.80	65	2775	500	370	ABS
KCEP20P/54M	220	50/60	130	0.55	72	2685	630	470	ABS
KCEP20A/54	220	50/60	70	0.40	65	2775	500	370	ABS+INOX
KCEP20A/54/110	110	50/60	70	0.80	0.80	2775	500	370	ABS+INOX
KCEP20A/54M	220	50/60	130	0.55	72	2685	630	470	ABS+INOX

Dimensional data of ventilation							
Model	A	B	C	D	E	Kg.	Mater.
KCEP10P/54	114	114	4	53	90	0.38	ABS
KCEP10P/54/110	114	114	4	53	90	0.38	ABS
KCEP10P/54/24DC	114	114	4	41	90	0.18	ABS
KCEP10A/54	116	116	6	53	90	0.48	ABS+INOX
KCEP10A/54/110	116	116	6	53	90	0.48	ABS+INOX
KCEP10A/54/24DC	116	116	6	41	90	0.28	ABS+INOX
KCEP12P/54	150	150	5.5	71	124	0.78	ABS
KCEP12P/54/110	150	150	5.5	71	124	0.78	ABS
KCEP12P/54/24DC	150	150	5.5	71	124	0.47	ABS
KCEP12A/54	152	152	7.5	71	124	0.91	ABS+INOX
KCEP12A/54/110	152	152	7.5	71	124	0.91	ABS+INOX
KCEP12A/54/24DC	152	152	7.5	71	124	0.6	ABS+INOX
KCEP14P/54	250	250	5.5	113	172	1.6	ABS
KCEP14P/54/110	250	250	5.5	113	172	1.6	ABS
KCEP14P/54/24DC	250	250	5.5	113	172	1.2	ABS
KCEP14P/54M	250	250	5.5	104	218	2.5	ABS
KCEP14A/54	252	252	7.5	113	172	1.9	ABS+INOX
KCEP14A/54/110	252	252	7.5	113	172	1.9	ABS+INOX
KCEP14A/54/24DC	252	252	7.5	113	172	1.5	ABS+INOX
KCEP14A/54M	252	252	7.5	104	218	2.8	ABS+INOX
KCEP20P/54	325	325	6.5	145	220	3	ABS
KCEP20P/54/110	325	325	6.5	145	220	3	ABS
KCEP20P/54M	325	325	6.5	145	270	3.65	ABS
KCEP20A/54	327	327	8.5	145	220	3.52	ABS+INOX
KCEP20A/54/110	327	327	8.5	145	220	3.52	ABS+INOX
KCEP20A/54M	327	327	8.5	145	270	4.17	ABS+INOX



Model	For item
KFEP10S/54	KCEP10P/54 - KCEP10P/54/110 KCEP10P/54/24DC
	KCEP10A/54 - KCEP10A/54/110 KCEP10A/54/24DC
KFEP12S/54	KCEP12P/54 - KCEP12P/54/110 KCEP12P/54/24DC
	KCEP12A/54 - KCEP12A/54/110 KCEP12A/54/24DC
KFEP14S/54	KCEP14P/54 - KCEP14P/54/110 KCEP14P/54/24DC - KCEP14P/54M
	KCEP14A/54 - KCEP14A/54/110 KCEP14A/54/24DC - KCEP14A/54M
KFEP20S/54	KCEP20P/54 - KCEP20P/54/110 KCEP20P/54M
	KCEP20A/54 - KCEP20A/54/110 KCEP20A/54M



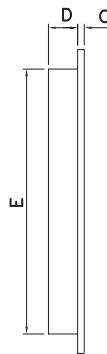
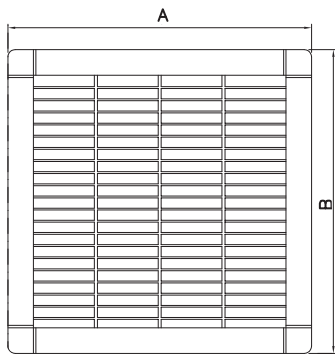


AERATION UNITS

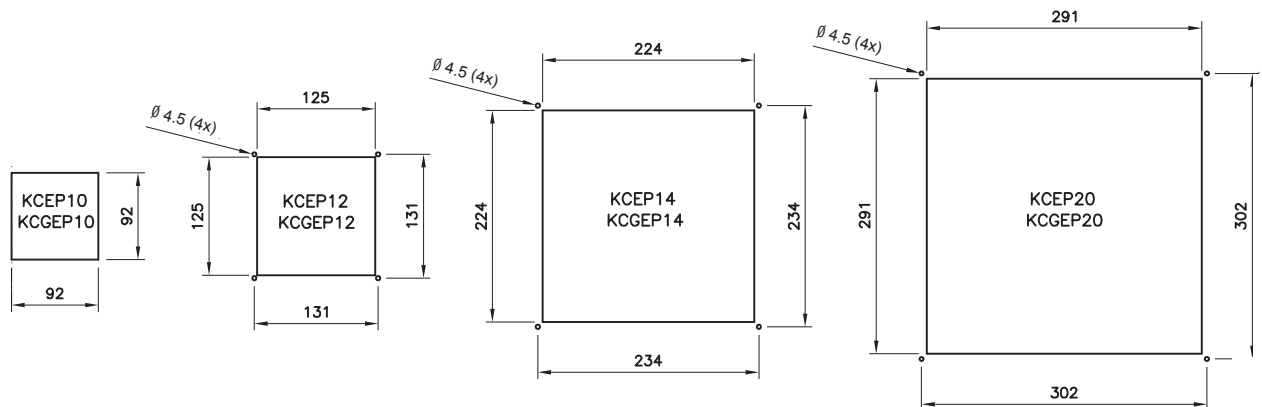
STANDARD CHARACTERISTICS AND OUTFITTING

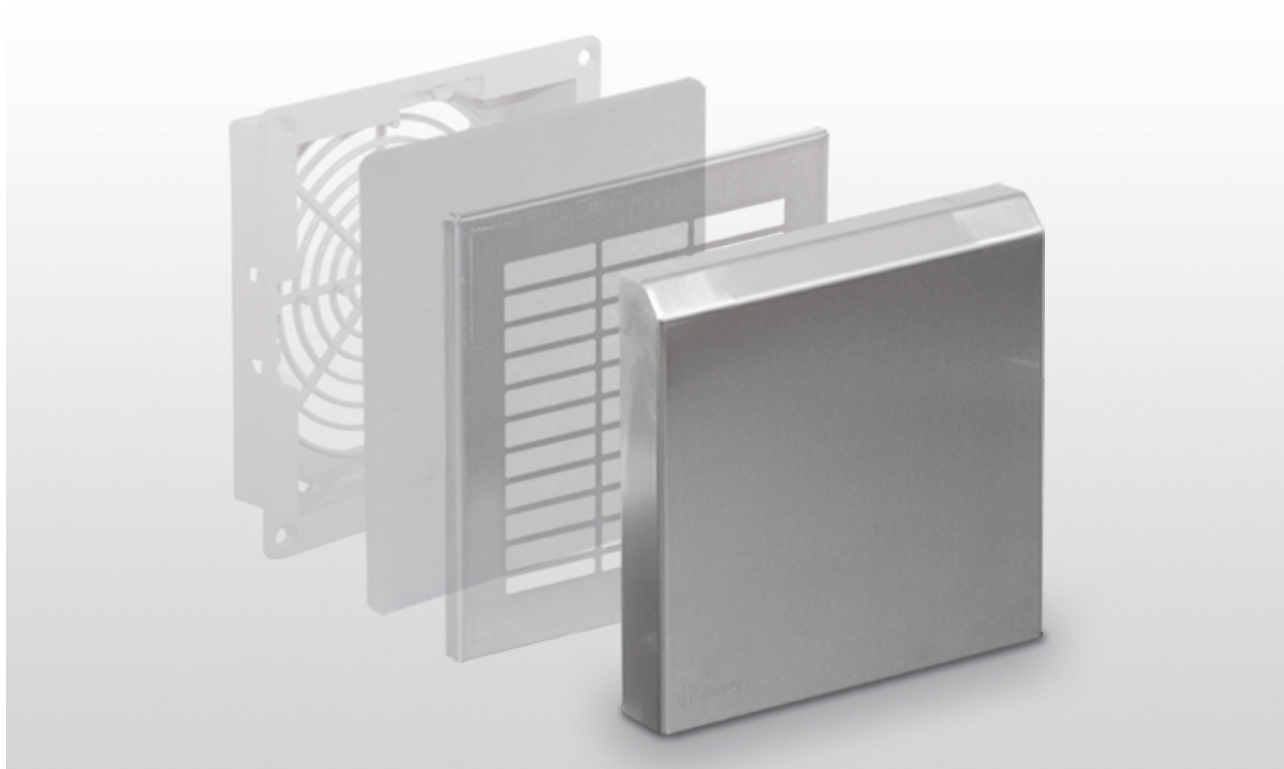
- Protection degree IP54
- Grid inner body made of ABS plastic, self-extinguishing according to UL94V-0 rules, standing temperatures from 10°C to +70°C, colour RAL7032
- Outside grids with shutter type slot to allow condensate drainage, if the need be, available both in EN 1.4301 (AISI 304) s/s finely satin-finished and protected, and in ABS plastic self-extinguishing according to UL94V-0 rules, standing temperatures from 10°C to +70°C, colour RAL 7032.
- Filtres: fit for retaining powders with granulometry up to 10 micron.

Dimensional data of aeration						
Model	A	B	C	D	Kg.	Mater.
KCGEP10P/54	114	114	4	12	0.06	ABS
KCGEP12P/54	150	150	5.5	22	0.16	ABS
KCGEP14P/54	250	250	5.5	24	0.42	ABS
KCGEP20P/54	325	325	6.5	24	0.64	ABS
KCGEP10A/54	116	116	6	12	0.22	ABS+INOX
KCGEP12A/54	152	152	7.5	22	0.35	ABS+INOX
KCGEP14A/54	252	252	7.5	24	0.91	ABS+INOX
KCGEP20A/54	327	327	8.5	24	1.47	ABS+INOX



Model	For item
KFEP10S/54	KCGEP10P/54
	KCGEP10A/54
KFEP12S/54	KCGEP12P/54
	KCGEP12A/54
KFEP14S/54	KCGEP14P/54
	KCGEP14A/54
KFEP20S/54	KCGEP20P/54
	KCGEP20A/54

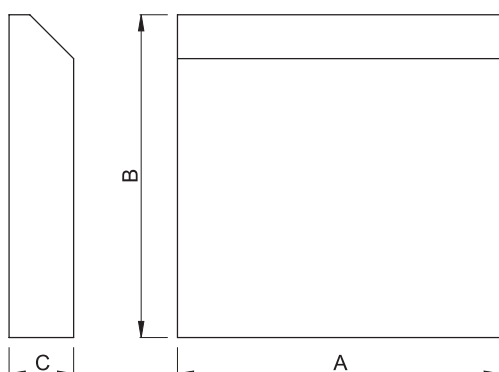




STAINLESS STEEL LABYRINTH CASING SERIES KL

EN 1.4301 (AISI 304) S/S casing, with upward air inflow, for application on grids: they will assure improved splash protection. The pack includes a kit to achieve protection degree IP55

ITEM.	A	B	C
KL10-55	180	180	32
KL12-55	215	210	36
KL14-55	320	340	64
KL20-55	390	400	100







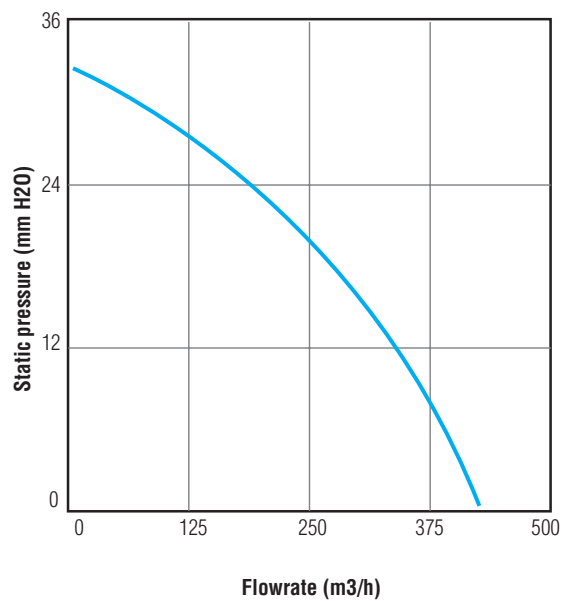
VENTILATING UNITS FOR ROOF - KR20

For use when ventilating the cabinet through the roof is practical and convenient. It works on suction.

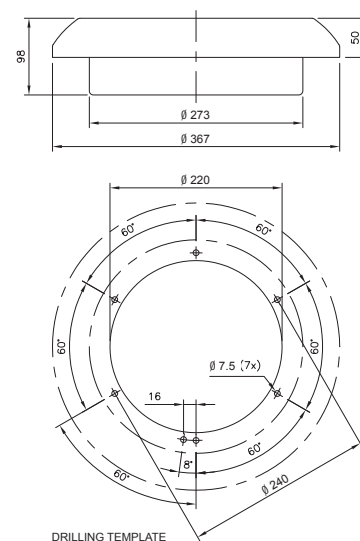
Easy to apply, its minimum dimensions allow housing it entirely inside the roof ventilation hoods, except for the filter pack.

The outside casing is made of EN 1-4301 s/s (AISI 304), finely satin-finished and protected.

The fan is axial-centrifugal, single-phase, set on ball bearings in compliance with the basic requirements of Directive 89/392/CE on machinery, and European Standards UNI EN 292 part I, II, UNI EN 294 and CEI 44-5 and 6 (IEC 204-1 and 2). Motor protection degree is IP45 or IP55 (it depends on the filter used), designed for high performances at low noise level.



Technical data			
Model		KR20/45	KR20/55
Supply voltage	V	230	230
Frequency	Hz	50/60	50/60
Absorbed current	A	0.25	0.25
Flowrate with free intake	m3/h	430	430
rpm	Rpm	2550	2550
Noise	dBA	64	64
Max. temperature	°C	50	50



SPARE FILTERS		
Model	For artiche	Protection degree
KFKR20/45	KRG20/45 - KR20/45	IP45
KFKR20/55	KRG20/55 - KR20/55	IP55

CONDENSATE-PROOF HEATERS SERIES RH

To be used to avoid condensate building-up inside the control boards and when the inside temperature has to be kept higher than the outside one. The heaters featuring capacity 250 and 400 W are equipped with a temperature control device for protection from overheating due to fan failure.

All models require vertical setup and are equipped with clips for fixing on DIN guide 35mm.

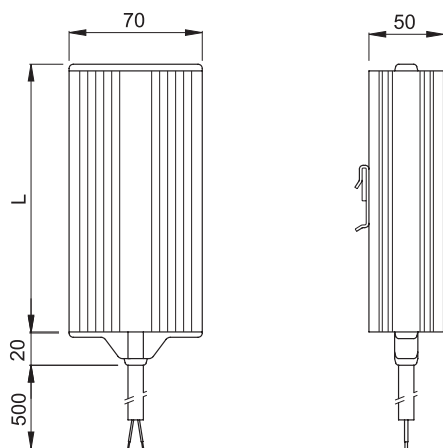
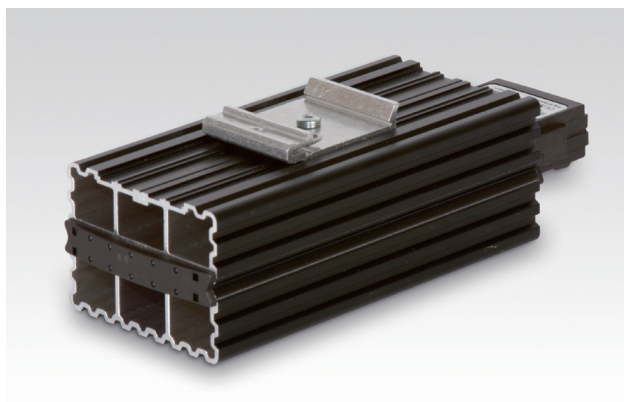
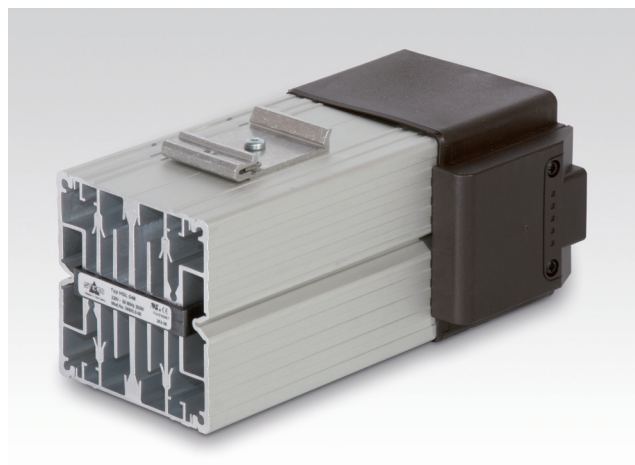
The body of the radiator is made of anodized aluminium section bars.

Certifications: CE, VDE and UL (file N° E150057)

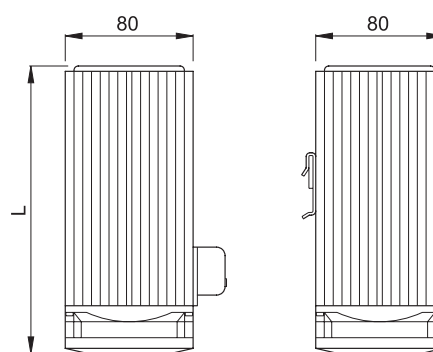
Protection degree IP20

RH060 - RH100 - RH150 - RH250 - RH400

Model	RH060	RH100	RH150	RH250	RH400
Thermal power	60 W	100 W	150 W	250 W	400 W
Power supply	120-240V AC/DC	120-240V AC/DC	120-240V AC/DC	230V AC 50/60 Hz	230V AC 50/60 Hz
Height	140	140	220	182	222
Weight	0.40 Kg	0.50 Kg	0.70 Kg	1.10 Kg	0140 Kg



RH060 - RH100 - RH150



RH250 - RH400





S/S CABLE GLAND

The s/s cable gland are to be used when corrosion is to be avoided.

This series, made of UNI EN 1.4305 (AISI 303) s/s, is particularly fit for use in damp environment and when placed in positions that get wet from time to time.

The seal, made of Perbunan, creates a barrier effect to the radioactive radiance up to 2×10^6 Gray and can stand temperatures ranging from $+100$ and -20 °C. They assure high resistance to cable pulling and protection degree IP68.



Cable gland PG	Threading PG	Cabel mm. ø C	Wrench mm. ø CH	H mm.	L. mm
PG07303	PG7	5-6,5	17	17	10
PG09303	PG9	8-10,5	19	20	10
PG11303	PG11	8,5-12	22	21	10
PG13303	PG13	11-15	24	21	10
PG16303	PG16	11-15	24	21	10
PG21303	PG21	16-20,5	30	25	12
PG29303	PG29	23-27,5	41	28	12
PG36303	PG36	30,5-35	50	32	15

Metric cable gland	Metric threading	Cabel mm. ø C	Wrench mm. ø CH	H mm.	L. mm
PM12303/3.5-5.0	M12x1,5	3,5 ÷ 5	17	17	10
PM12303/5.0-6.5	M12x1,5	5,0 ÷ 6,5	17	17	10
PM12303/6.5-8.0	M12x1,5	6,5 ÷ 8	17	17	10
PM16303/6.0-10.5	M16x1,5	6 ÷ 10,5	19	20	10
PM20303/6.0-15.0	M20x1,5	8 ÷ 15	24	21	10
PM25303/12.5-20.5	M25x1,5	12,5 ÷ 20,5	30	25	11
PM32303/17.0-25.5	M32x1,5	17 ÷ 25,5	36	28	13
PM40303/24.0-33.0	M40x1,5	24 ÷ 33	46	31	13

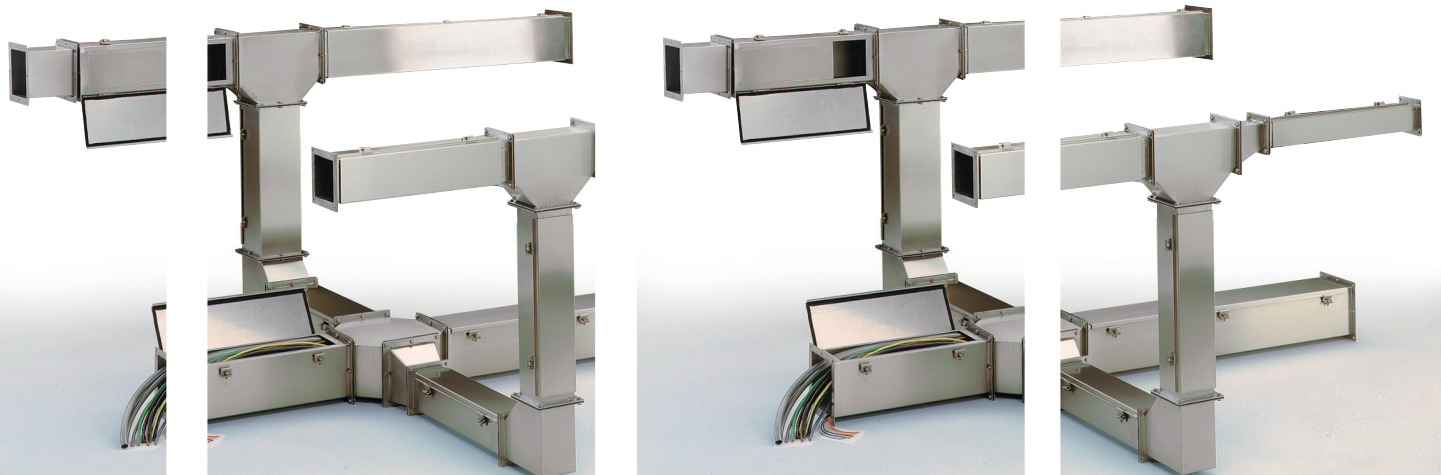
Cable glands are supplied without ring nut: it is to be ordered separately when the need be.

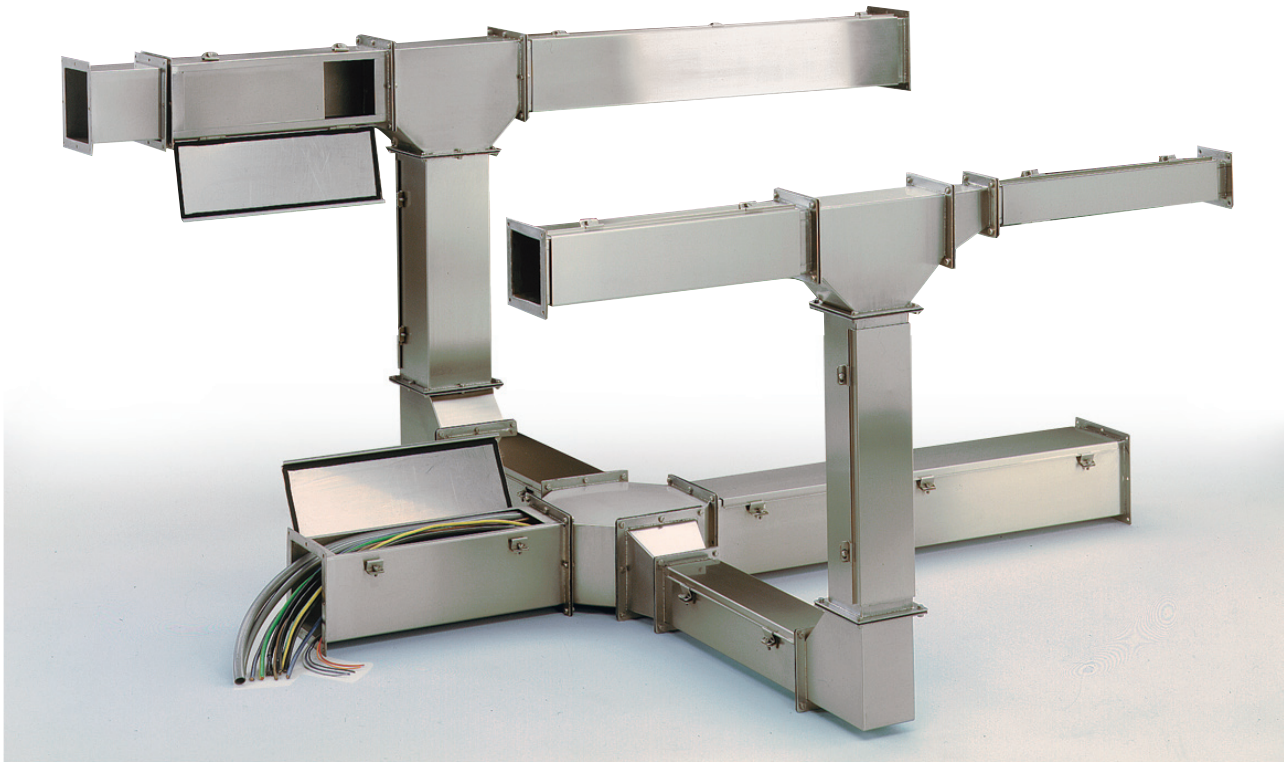
Ring nut PG	Threading ø PG	Wrench mm. ø CH	S mm.
GPG07303	PG7	15	3,5
GPG09303	PG9	19	3,5
GPG11303	PG11	22	3,5
GPG13303	PG13	24	4
GPG16303	PG16	27	4
GPG21303	PG21	32	4,5
GPG29303	PG29	41	5,5
GPG36303	PG36	51	6

Metric ring nut	Metric threading	Wrench mm. ø CH	S mm.
GPM12303	M12x1,5	17	3,0
GPM16303	M16x1,5	19	3,0
GPM20303	M20x1,5	24	3,5
GPM25303	M25x1,5	30	3,5
GPM32303	M32x1,5	36	4,5
GPM40303	M40x1,5	46	4,5

Cable glands made from different s/s and different threading are available.

Cableduct **SERIES C**





CABLEDUCT SERIES C

- Made of EN 1.4301 (AISI 304) s/s finely satin-finished
- Protection degree IP66 as per CEI EN 60529 rules
- Components are flanged to each another with oil-proof gasket in between..
- Each part comes complete with seal, set of assembling screws and earthing stud bolts

STRAIGHT SECTION

Manufactured in several lengths, it is made of “C” metal section, complete with hinged lid with self-extinguishing oil-proof gasket and heavy-duty screw locks. For sections longer than 1.5 m the lid comes in separate sections.

TUBULAR STRAIGHT SECTION

Available for sections 60x60 and 100x100, it can be used in place of the straight section when inspection is not a must, and costs have to be kept low.

The partition baffles and the telescopic sections cannot be used with this particular series.

TELESCOPIC SECTION

Sont disponibles des courbes 45° et 90°, des raccords en “T”, des croix et réductions à la section excentrique, tous bridés et non inspectables.

AUTRES ACCESSOIRES

Tubular section. Used to compensate lengths from 50 to 500 mm. Tightness is guaranteed by locking the O-ring supplied between the mobile flange of the telescope and the fixed flange of the straight cableduct to be matched. In this case, the overall protection degree drops to IP54.

If separation baffles are used, the straight cableduct to which the telescopic section has to be matched shall then be equal to or longer than 1000 mm not to affect adjustment of the telescopic length. If not possible, shortening becomes necessary.

SECTION TO BE WELDED

Tubular element equipped with a flanged end and flange to be welded, for application to the part after cutting and shaping as required by the cableduct layout.

FITTINGS

Bends 45° and 90°, “T” fittings, cross-joints and reductions of eccentric sections are available, all flanged and not inspectable.

OTHER PARTS

The series is complemented by flanges for section reduction, either with central or eccentric drilling, and head plates.

PARTITION BAFFLES

S/s sheets, “L” bent, available in 100x100 section, to divide the inspectable straight lengths into 2 sections. The slots for bottom fixing permit to change the two components as you like, no drilling being required since suitable stud bolts are provided. For lengths over 1000 mm, several separation baffles shall be coupled.

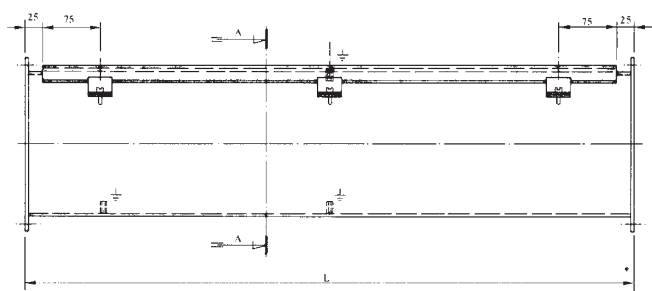
SUPPORTING BRACKETS

Made of EN 1.4301 (AISI 304) s/s in two versions:

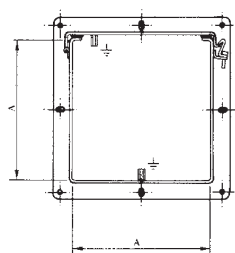
- a) Bracket type, for wall mounting
- b) Hanging type, in 2 parts, for ceiling mounting

In case b), the two parts shall be connected by placing in-between an EN 1.4301 (AISI 304) s/s tube, Ø. 21.3, minim. thickness 1.5 mm (excluded from the supply), cut to the desired length, drilled and bolted. For assembling on brackets, the cableduct must be screwed to the support.

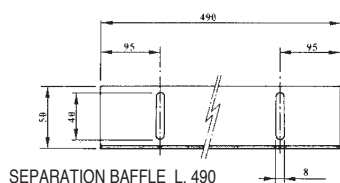
Expansion bolts and rag bolts are excluded from supply.



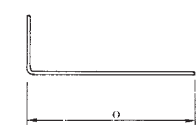
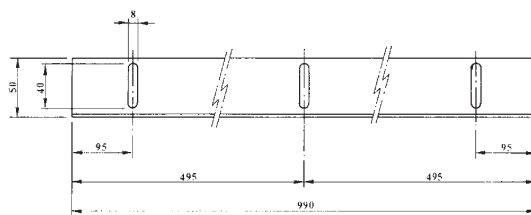
STRAIGHT LENGTH



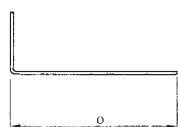
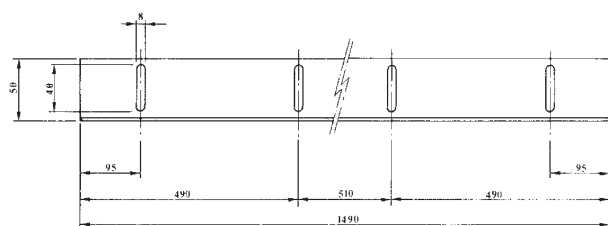
SECTION A-A



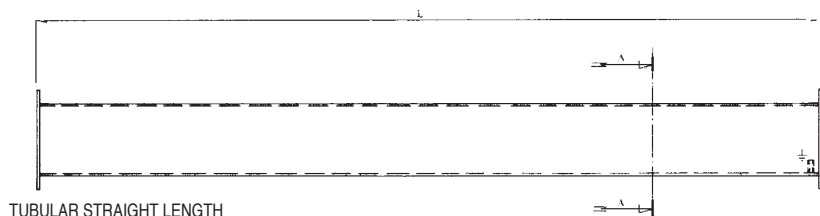
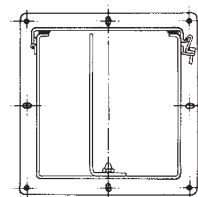
SEPARATION BAFFLE L. 490



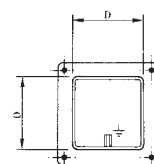
SEPARATION BAFFLE L. 990



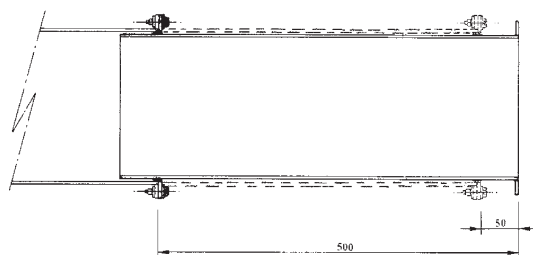
SEPARATION BAFFLE L. 1490



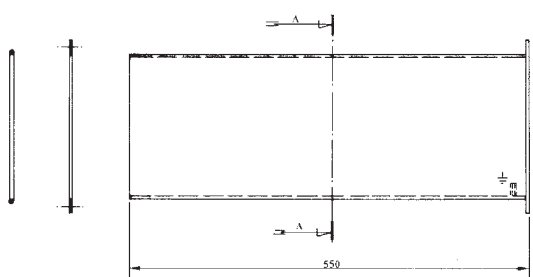
TUBULAR STRAIGHT LENGTH



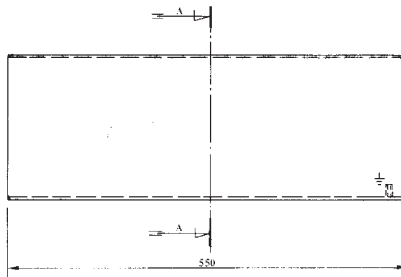
SECTION A-A



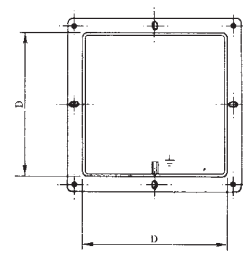
DETAIL OF THE TELESCOPIC LENGTH ASSEMBLING



TELESCOPIC LENGTH



LENGTH TO BE WELDED



SECTION A-A

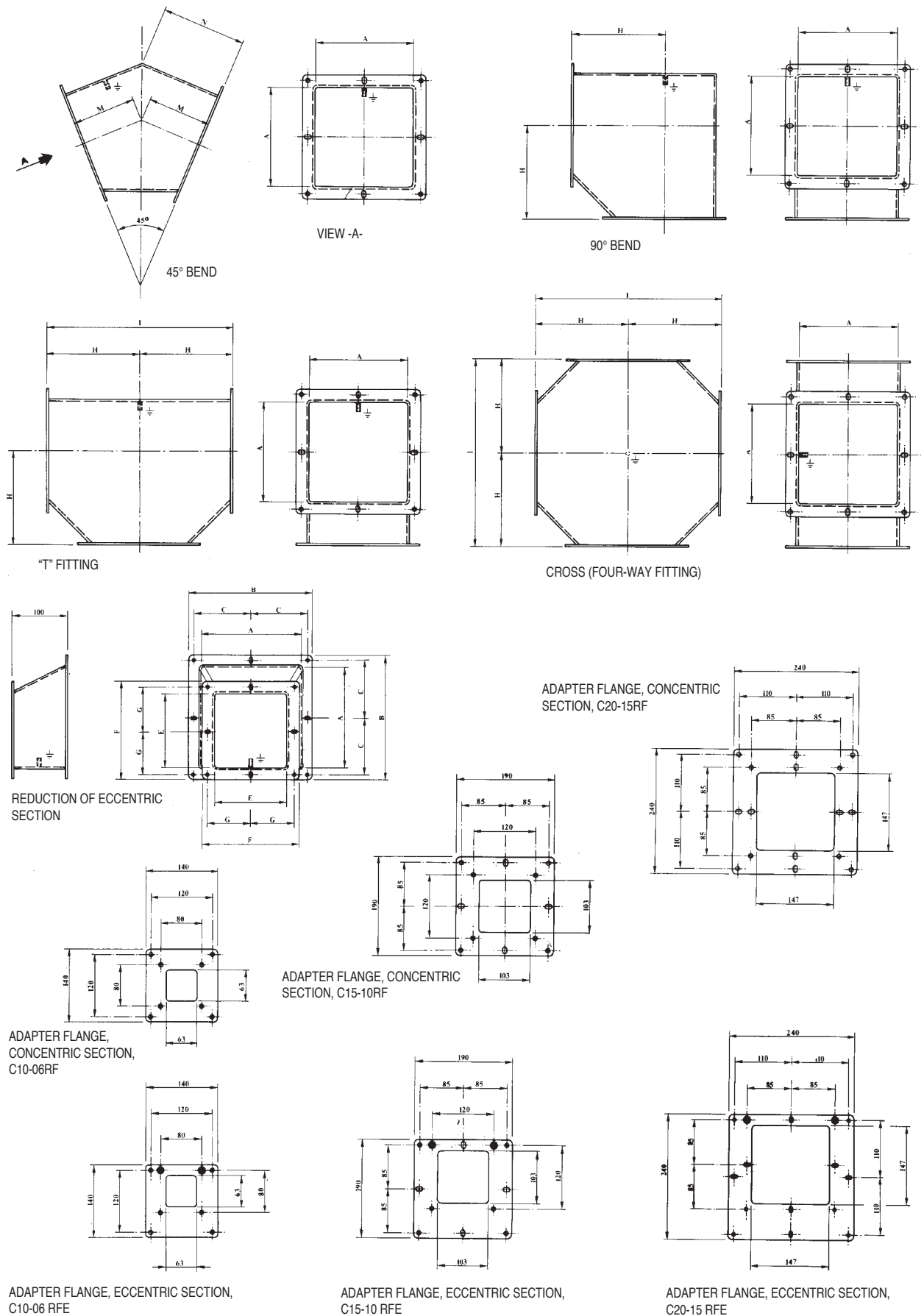
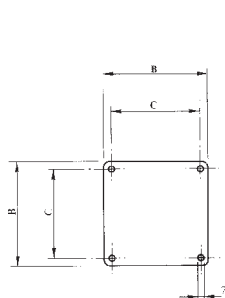
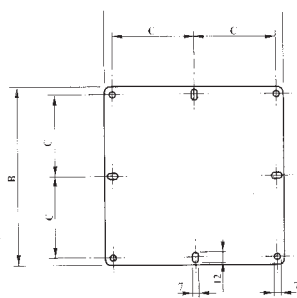


TABLE OF CABLEDUCT ITEMS

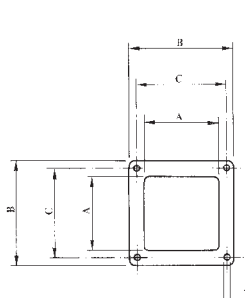
DESCRIPTION	L. mm	SERIES C06 AxA 60x60 Item	Kg	SERIES C06 AxA 60x60 Item	Kg	SERIES C15 AxA 60x60 Item	Kg	SERIES C20 AxA 60x60 Article	Kg
Straight section	500	C06-R05	1.8	C10-R05	2.8	C15R05	4.5	C20-R05	5.9
Straight section	1000	C06-R10	3.3	C10-R10	5.1	C15R10	8.6	C20-R10	10.9
Straight section	1500	C06-R15	5.3	C10-R15	7.4	C15R15	12.1	C20-R15	15.9
Straight section	2000	C06-R20	6.3	C10-R20	9.4	C15R20	15.9	C20-R20	20.9
Straight section	3000	C06-R30	9.3	C10-R30	14.3	C15R30	23.5	C20-R30	30.9
Tubular straight section	500	C06-RT05	1.7	C10-RT05	3.5				
Tubular straight section	1000	C06-RT10	3.1	C10-RT10	6.5				
Tubular straight section	1500	C06-RT15	4.5	C10-RT15	9.5				
Tubular straight section	2000	C06-RT20	5.9	C10-RT20	12.5				
Tubular straight section	3000	C06-RT30	8.7	C10-RT30	18.5				
Tubular straight section	4000	C06-RT40	11.5	C10-RT40	24.5				
Telescopic section	50÷500	C06-TS	1.7	C10-TS	3.5	C15-TS	4.3	C20-TS	5.6
Section to be welded		C06-TW	1.7	C10-TW	3.5	C15-TW	4.3	C20-TW	5.6
Bend 45°		C06-C45	0.8	C10-C45	1.4	C15-C45	2.4	C20-C45	3.3
Bend 90°		C06-C90	0.9	C10-C90	1.5	C15-C90	2.6	C20-C90	3.6
"T" fittings		C06-T	1.2	C10-T	2	C15-T	3.5	C20-T	4.6
Cross-joint		C06-CR	1.5	C10-CR	2.5	C15-CR	4.4	C20-CR	4.7
Section adapter				C10-06R	0.7	C15-10R	1.3	C20-15R	2.2
Adapter flange, concentric section				C10-06RF	0.3	C15-10RF	0.5	C20-15RF	0.9
Adapter flange, eccentric section				C10-06RFE	0.3	C15-10RFE	0.5	C20-15RFE	0.9
Head plate		C06-CT	0.2	C10-CT	0.4	C15-CT	0.7	C20-CT	1.1
Separation baffles	490			C10-S05	0.7	C15-S05	1.1	C20-S05	1.4
Separation baffles	990			C10-S10	1.4	C15-S10	2.2	C20-S10	2.9
Separation baffles	1490			C10-S15	2.1	C15-S15	3.3	C20-S15	4.2



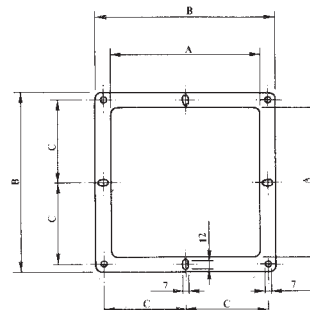
HEAD PLATE C06R-C10T



HEAD PLATE C15T-C20T



"TYPICAL" FLANGE FOR CABLEDUCT
C06-C10



"TYPICAL" FLANGE FOR CABLEDUCT
C15-C20

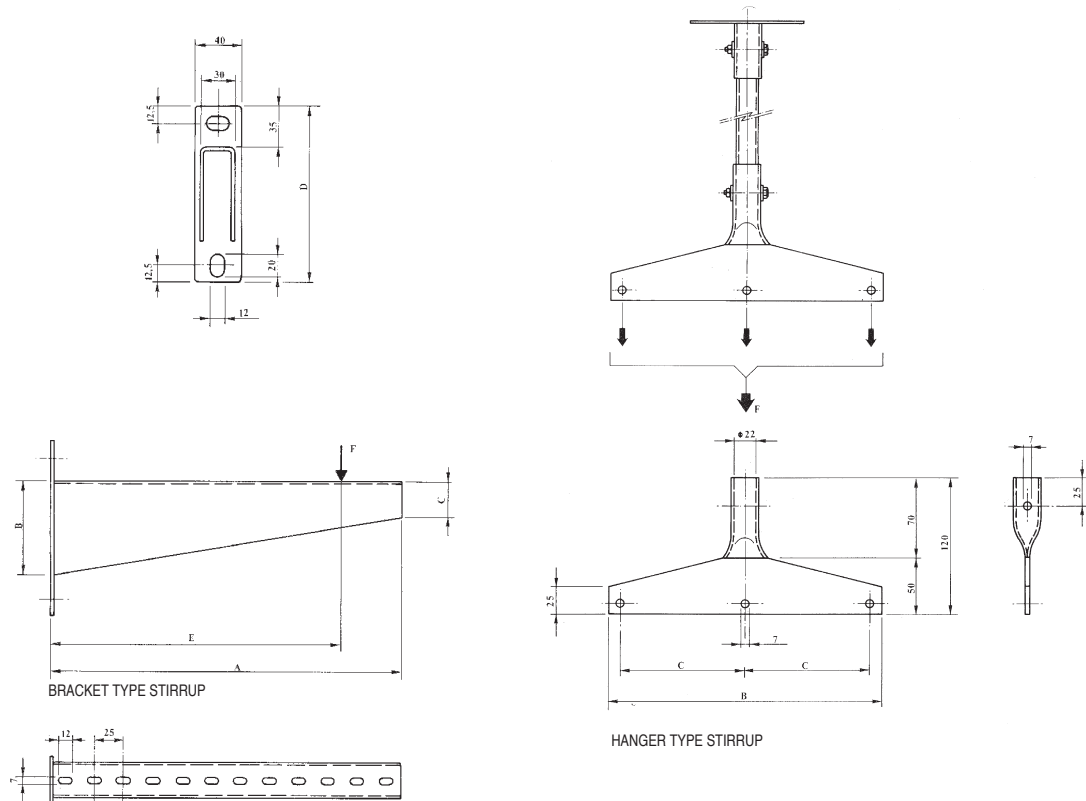
SERIE	A	B	C	D	E	F	G	H	I	M	N	O
C06	63	100	80	60	-	-	-	110	220	40	53	-
C10	103	140	120	100	63	100	-	130	260	53	75	95
C15	147	190	85	144	103	140	120	155	310	71	102	140
C20	197	240	110	194	147	190	85	180	360	92	134	190

ASSEMBLING AND LOADS:

The general rules applicable to the proper installation of cableways and overhead cableways provide for rests and supports with a maximum spacing of 1.5 m one from the other. The use of these cableducts permits to increase this spacing up to 3m with as few as 1 connection between two supports. In order to allow proper wire ventilation, it should be considered a maximum filling up to 50% of the rated one, while the admitted maximum load distributed is never reached, not even when the cableduct is completely full; however, even in the most demanding load conditions, the maximum deflection is neglectable if support is correct.

It is advisable to have the bearing capacity and the fixing to the brickworks, as well as anything else expected to support the cableways checked, considering that the load (hence the cableduct own weight plus the weight of the cable) resting on the supports is:

- kg. 20/mt for cableducts section 60x60
- kg. 55/mt for cableducts section 100x100
- kg.105/mt for cableducts section 150x150
- kg.180/mt for cableducts section 200x200



CABLEDUCT STIRRUPS									
	ITEM.	A	B	C	D	E	F Max. capacity	Weight kg	For cableducts type
HANGING	CS 06	-	100	80	-	-	180	0.35	C06
	CS 10	-	140	120	-	-	180	0.4	C10
	CS 15	-	190	85	-	-	280	0.45	C15
	CS 20	-	240	110	-	-	280	0.5	C20
BRACKET	CM 16	160	30	30	100	130	50	0.5	C06-C10
	CM 20	200	50	20	120	150	100	0.6	C06-C10-C15
	CM 25	250	70	30	140	175	200	0.8	C06-C10-C15-C20
	CM 30	300	80	30	150	200	300	1	C06-C10-C15-C20

PROGETTO GRAFICO E STAMPA:  digigraphparma.it
OCTOBER 2008

ilinox reserves the right to make any technical and aesthetic change it may deem necessary .