



La **Ilinox srl**, established in 1983, is a leading manufacturer of stainless steel metal structural work for control boards.

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

www.ilinox.com



EXPERIENCE ILINOX

Ilinox boasts over 30 years of field-acquired experience in over hundred countries worldwide. Leader in the design of control boards enclosures for cutting-edge processes, constantly targeted at satisfying specific market demand and customer's requirements.

Ilinox provides its customers with detailed and exhaustive documentation of the product, illustrating its specific applications as well as every operating aspect. This means that by purchasing an Ilinox product, you are always sure you will succeed in installing it quickly and efficiently, assured that the product has been designed and configured to provide exactly the performances you are expecting.





STAINLESS STEEL AND TECHNOLOGY

Choosing Ilinox enables to draw on the widest selection of stainless steel enclosures for control boards for the food and pharmaceutical industry so far available on the market. The excellent quality of our products guarantee unrivalled reliability, lifetime and cleanliness conditions.

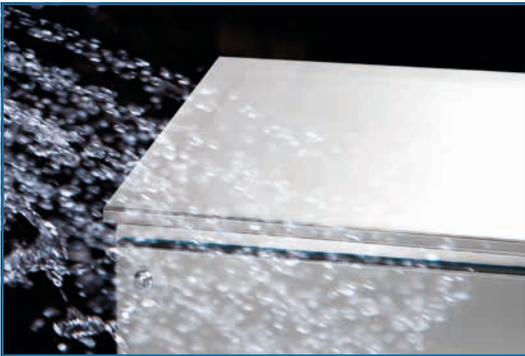
Quality is a complex issue, for somebody it is just a matter of appearance. For others it is synonymous of product integrity and efficiency, or reliability of production and performances. Ilinox tries to pool all these aspects into a global idea of “quality” that involves the whole production process. The result of this approach generates the largest range of products and experience obtainable on the market, capable of helping you to preserve and improve your quality standard.





THE ENGINEERING SERVICE

Although 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 customers with valuable back-up service for tailored solutions to their specific problems.



TESTS

Before reaching the market, all our products are carefully tested to check their tightness (protection degree), their earthing continuity, and their structural strength.

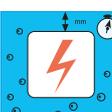
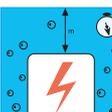


CERTIFICATIONS

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

Table 3 shows the protection degrees 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 from liquids.

There is a variation 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 lower degrees (suitability which applies from degree IPX4 downwards).

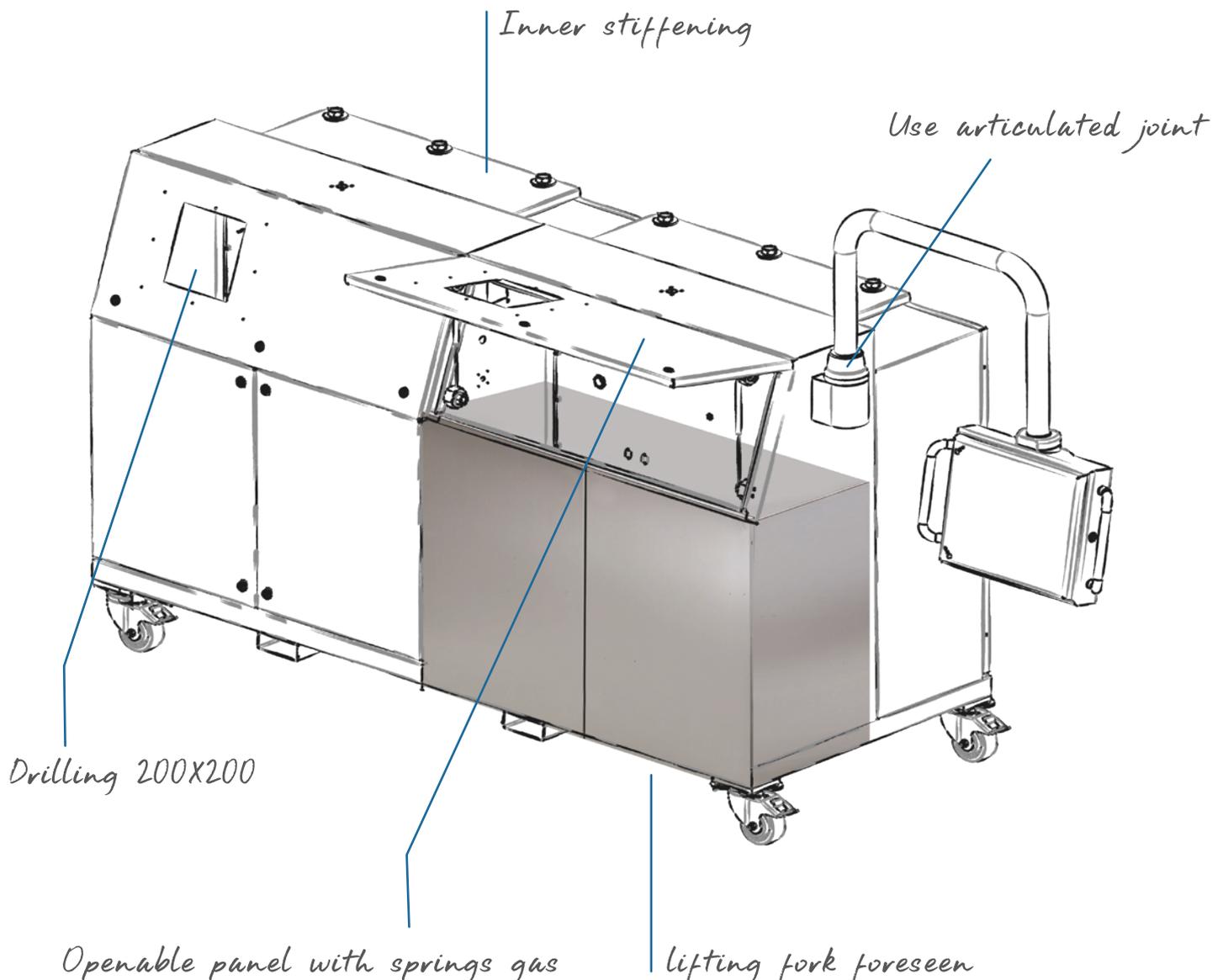
1 st DIGIT: PENETRATION OF SOLIDS		2 nd DIGIT: PENETRATION OF LIQUIDS			
0		Not protected	0		Not protected
1		Protected against solid bodies whose dim. are greater than 50mm ϕ	1		Protected against vertical fall of water drops
2		Protected against solid bodies whose dim. are greater than 12mm ϕ	2		Protected against rain with maximum inclination equal to 15°
3		Protected against solid bodies whose dim. are greater than 2,5mm ϕ	3		Protected against rain with maximum inclination equal to 60°
4		Protected against solid bodies whose dim. are greater than 1mm ϕ	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

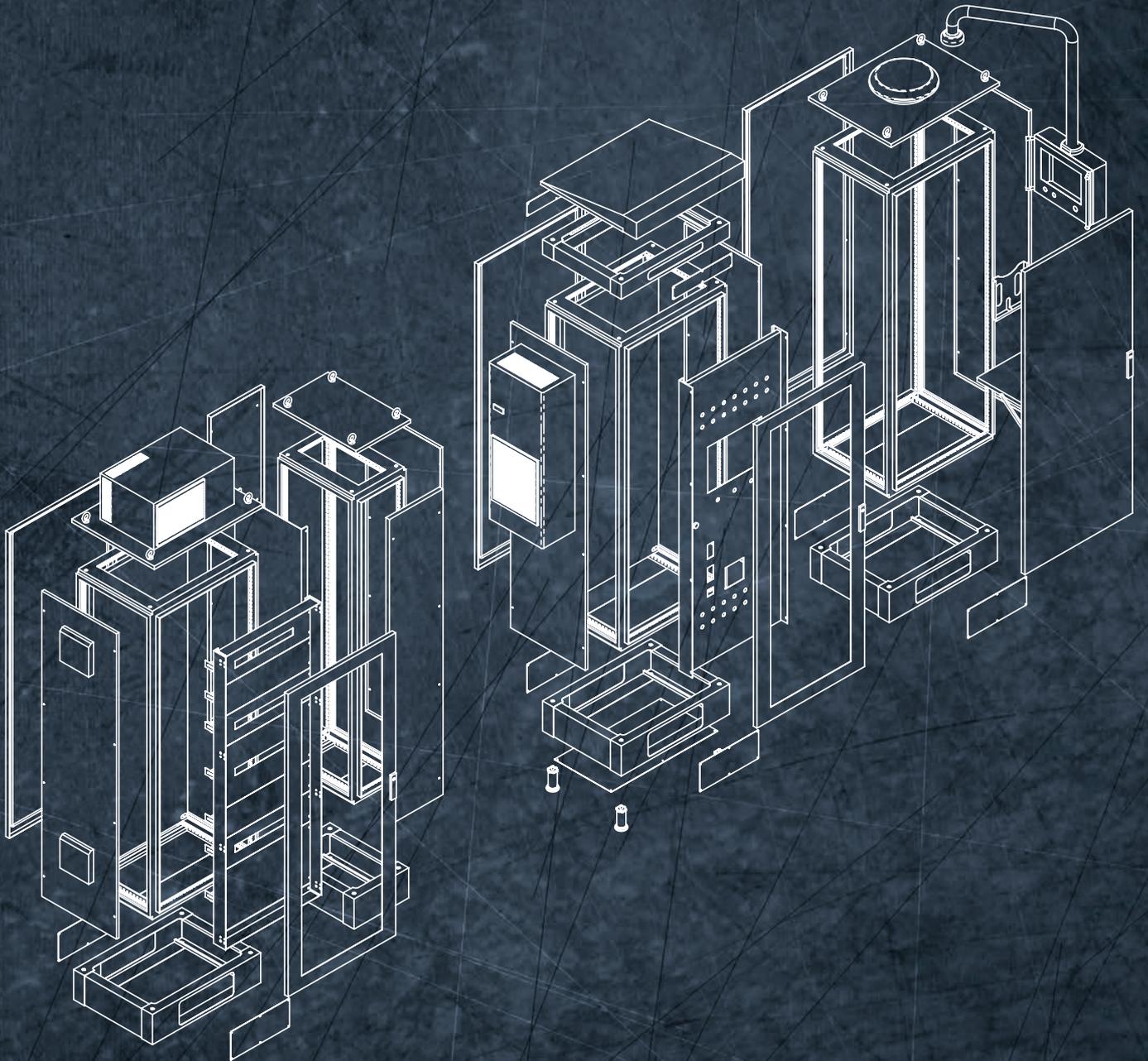
OUR PRODUCTS

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

“Thanks to an unmatched range of products and accessories, ilinox is confident about its capability of offering always the solutions you are looking for”

*Protection degree IP54
Consider filter + fan*





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We improve our products without jeopardizing the environment.

Environmentally-friendly solutions.

Ilinox commitment to limiting consumptions throughout the various production steps, reducing pollution thus defending the environment while always and constantly guaranteeing the product performance.

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	MODULAR CABINETS	
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1

MODULAR CABINETS

MX - THE MODULAR CABINET COMES WITH TWO OPTIONS

Pre-assembled or in a kit? You choose, according to your needs!

MX is the new fully modular cabinet, even more versatile, closer to your needs, that can be delivered either in assembling kit or preassembled and customized.

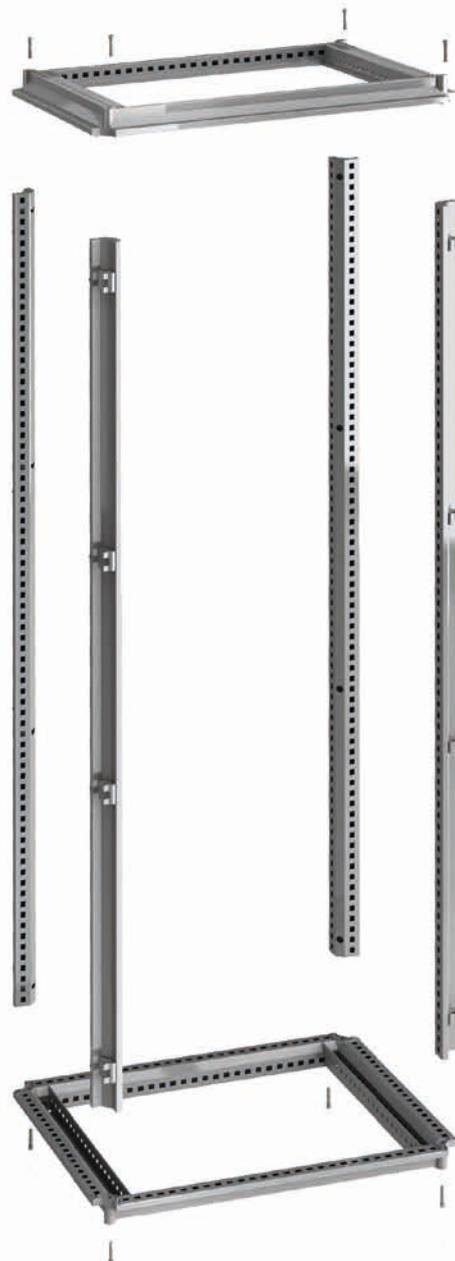
Ilinox has engineered a system comprised of s/s structural sections and precision castings, that enable you to assemble your frame yourselves!

Component assembling is simple, quick, user's friendly and keeps unaltered the traditional characteristics of stiffness, tightness and sturdiness that have always been the hallmark of Ilinox traditional modular cabinet.

1



2





Why in assembling kit? Because this solution permits prompt delivery, smaller overall dimensions hence lower transport and storage costs. Also, customer is free to manage the cabinet directly, besides being more cost-effective compared to the pre-assembled solution.

You anyhow prefer the pre-assembled and customized version? No problem, you just ask for assembling. In this case, the cabinet will not come from our stock, but will be delivered in its traditional version, pre-assembled and drilled, if the need be.

Obviously, all the accessories required for the full exploitation of the MX modular cabinet are available as usual. Whatever your need, the MX cabinet is prepared to meet it: in assembling kit or pre-assembled, then? That's your choice!



PARTITION Baffles



REAR DOORS



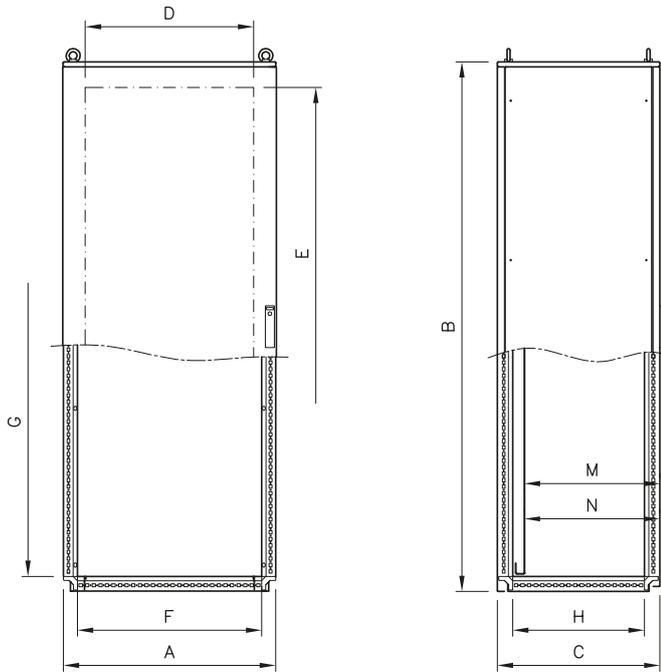
OVER-DOORS



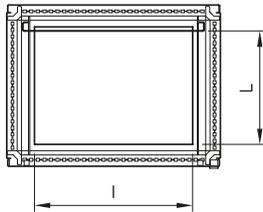
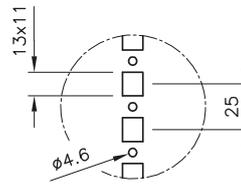
SKIRTING



- Material: EN 1.4307 (TYPE 304L), finely satin-finished and protected, thickness 15/10 for the side and back panels, 20/10 for frame and door.
- Frame: jointing system realized with precision casting and s/s section bars with drills spaced 25mm for fitting any accessory.
- Supplied in assembling kit or pre-assembled, on demand.
- Front door, full or glazed version (shatterproof 3+3 laminate glass), with s/s stiffening inner frame, drilled to support equipment and/or fasten raceways and accessories. On request the full door can also be equipped with partial windows, or realized with other materials (polycarbonate or aluminium for silk printing).
- Rear side: the cabinet can have a full rear panel, bolted, with sealing spacers, or a hinged door like the front one.
- Side panels, removable and bolted, to be ordered separately (see "Accessories for cabinets").
- Twin-comb door lock with outside faceplate of glass-filled black polyamides, 4-point closing and low tension. Other types of door locks available on request.
- The cabinet bottom can accommodate three different types of fairlead plates: enbloc, multiple or sash-type multiple, to be ordered separately (see accessories for cabinets).
- TYPE 316 s/s inner hinges, for 120° opening as per CEI EN 60204-1 recommendations.
- Seal of foamed polyurethane, applied by robotized system.
- Inner plate, sendzimir execution, to be ordered separately, available both in the traditional and the space saving version (larger). Intermediate plates, sendzimir execution, are available on request.
- Pre-arranged for earthing in compliance with the applicable regulations in force.
- Protection degree: IP66 (IP65 for modules L.1200).
- NOTE: Cabinet delivered in assembling kit, pre-assembled version available on request.



Single blind door module



mechanically tested by UNIVERSITÀ DEGLI STUDI DI PARMA
Facoltà di Ingegneria

IP66 EN 60 529

UL US LISTED
FILE N° E237618

TYPE NEMA 4X, 4, 12, 1

Standard UL508A - UL50
Standard 250

IK10

EN 60204-1
89/392/EEC

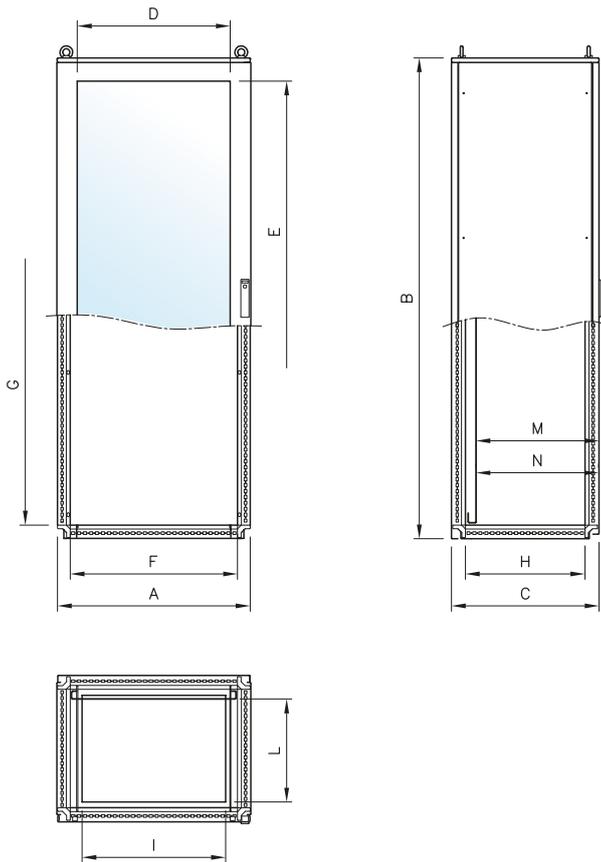
To request your CABINET in an assembling kit, just add a **K** after the code (e.g. MX0685K)

ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		USEFUL SPACE	INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*	DRILLING SIDES	ITEM	X	Y	ITEM
MX0685	606	1827	518	440	1630	500	1712	400	400	350	460	424	390	PA0517	497	1692	MX85
MX0686	606	1827	618	440	1630	500	1712	500	400	450	560	524	490	PA0517	497	1692	MX86
MX0688	606	1827	818	440	1630	500	1712	700	400	650	760	724	690	PA0517	497	1692	MX88
MX0885	806	1827	518	640	1630	700	1712	400	600	350	460	424	390	PA0717	697	1692	MX85
MX0886	806	1827	618	640	1630	700	1712	500	600	450	560	524	490	PA0717	697	1692	MX86
MX0888	806	1827	818	640	1630	700	1712	700	600	650	760	724	690	PA0717	697	1692	MX88
MX1085	1006	1827	518	840	1630	900	1712	400	800	350	460	424	390	PA0917	897	1692	MX85
MX1086	1006	1827	618	840	1630	900	1712	500	800	450	560	524	490	PA0917	897	1692	MX86
MX1088	1006	1827	818	840	1630	900	1712	700	800	650	760	724	690	PA0917	897	1692	MX88
MX0605	606	2027	518	440	1830	500	1912	400	400	350	460	424	390	PA0519	497	1892	MX05
MX0606	606	2027	618	440	1830	500	1912	500	400	450	560	524	490	PA0519	497	1892	MX06
MX0608	606	2027	818	440	1830	500	1912	700	400	650	760	724	690	PA0519	497	1892	MX08
MX0805	806	2027	518	640	1830	700	1912	400	600	350	460	424	390	PA0719	697	1892	MX05
MX0806	806	2027	618	640	1830	700	1912	500	600	450	560	524	490	PA0719	697	1892	MX06
MX0808	806	2027	818	640	1830	700	1912	700	600	650	760	724	690	PA0719	697	1892	MX08
MX1005	1006	2027	518	840	1830	900	1912	400	800	350	460	424	390	PA0919	897	1892	MX05
MX1006	1006	2027	618	840	1830	900	1912	500	800	450	560	524	490	PA0919	897	1892	MX06
MX1008	1006	2027	818	840	1830	900	1912	700	800	650	760	724	690	PA0919	897	1892	MX08

** M = maximum depth with inner plate fitted flush inside the frame
* N = maximum depth with inner plate fitted using the slide guides
UL certification to be requested with the order

NOTES: width with side panels fitted = A + 5 mm

MODULAR CABINETS SERIES MX



Glazed single door module

mechanically tested by  UNIVERSITÀ DEGLI STUDI DI PARMA
Facoltà di Ingegneria

IP66 EN 60 529

 **TYPE NEMA 4X, 4, 12, 1** Standard UL508A - UL50 Standard 250
FILE N° E237618

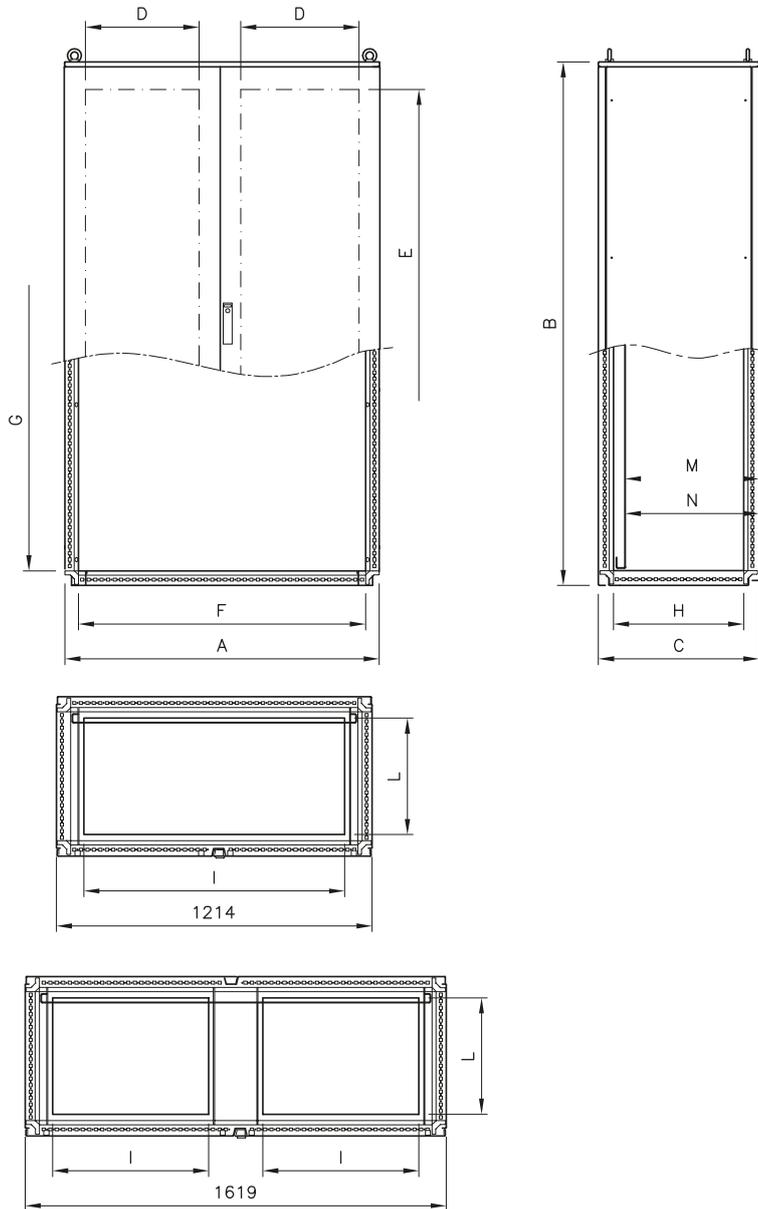
 EN 60204-1
89/392/EEC

To request your CABINET in an assembling kit, just add a **K** after the code (e.g. MXV0685K)

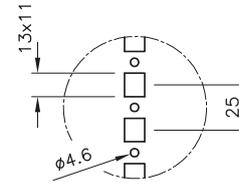
ITEM	CABINET													OPTIONALS			
	OUTSIDE SIZES			DOOR VISIBLE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		USEFUL SPACE	INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*	DRILLING SIDES	ITEM	X	Y	ITEM
MXV0685	606	1827	518	400	1600	500	1712	400	400	350	454	418	390	PA0517	497	1692	MX85
MXV0686	606	1827	618	400	1600	500	1712	500	400	450	554	518	490	PA0517	497	1692	MX86
MXV0688	606	1827	818	400	1600	500	1712	700	400	650	754	718	690	PA0517	497	1692	MX88
MXV0885	806	1827	518	600	1600	700	1712	400	600	350	454	418	390	PA0717	697	1692	MX85
MXV0886	806	1827	618	600	1600	700	1712	500	600	450	554	518	490	PA0717	697	1692	MX86
MXV0888	806	1827	818	600	1600	700	1712	700	600	650	754	718	690	PA0717	697	1692	MX88
MXV1085	1006	1827	518	800	1600	900	1712	400	800	350	454	418	390	PA0917	897	1692	MX85
MXV1086	1006	1827	618	800	1600	900	1712	500	800	450	554	518	490	PA0917	897	1692	MX86
MXV1088	1006	1827	818	800	1600	900	1712	700	800	650	754	718	690	PA0917	897	1692	MX88
MXV0605	606	2027	518	400	1800	500	1912	400	400	350	454	418	390	PA0519	497	1892	MX05
MXV0606	606	2027	618	400	1800	500	1912	500	400	450	554	518	490	PA0519	497	1892	MX06
MXV0608	606	2027	818	400	1800	500	1912	700	400	650	754	718	690	PA0519	497	1892	MX08
MXV0805	806	2027	518	600	1800	700	1912	400	600	350	454	418	390	PA0719	697	1892	MX05
MXV0806	806	2027	618	600	1800	700	1912	500	600	450	554	518	490	PA0719	697	1892	MX06
MXV0808	806	2027	818	600	1800	700	1912	700	600	650	754	718	690	PA0719	697	1892	MX08
MXV1005	1006	2027	518	800	1800	900	1912	400	800	350	454	418	390	PA0919	897	1892	MX05
MXV1006	1006	2027	618	800	1800	900	1912	500	800	450	554	518	490	PA0919	897	1892	MX06
MXV1008	1006	2027	818	800	1800	900	1912	700	800	650	754	718	690	PA0919	897	1892	MX08

** M = maximum depth with inner plate fitted flush inside the frame
* N = maximum depth with inner plate fitted using the slide guides
UL certification to be requested with the order

NOTES: width with side panels fitted = A + 5 mm



Double blind door module



mechanically tested by UNIVERSITÀ DEGLI STUDI DI PARMA
Facoltà di Ingegneria

IP66 EN 60 529

US LISTED **TYPE NEMA 4X, 12, 1, 4** Standard UL508A - UL50 Standard 250
FILE N° E237618

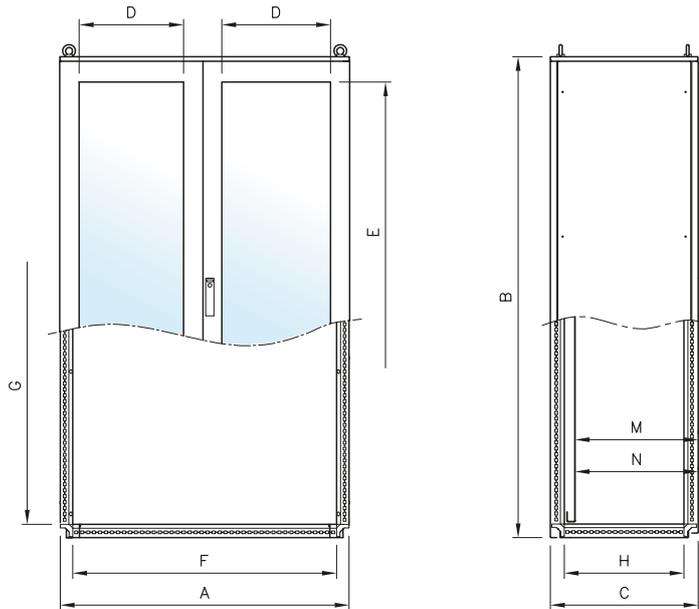
EN 60204-1 89/392/EEC

To request your CABINET in an assembling kit, just add a **K** after the code (e.g MX1285K)

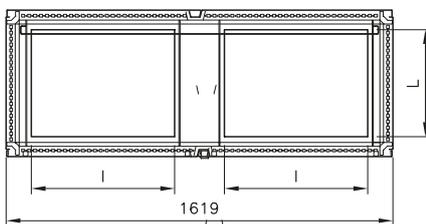
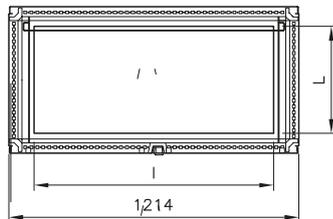
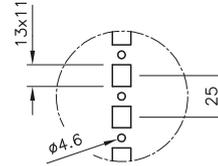
ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		USEFUL SPACE	INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*	DRILLING SIDES	ITEM	X	Y	ITEM
MX1285	1209	1827	518	440	1630	1103	1712	400	1003	350	460	424	390	PA1117	1100	1692	MX85
MX1286	1209	1827	618	440	1630	1103	1712	500	1003	450	560	524	490	PA1117	1100	1692	MX86
MX1288	1209	1827	818	440	1630	1103	1712	700	1003	650	760	724	690	PA1117	1100	1692	MX88
MX1685	1614	1827	518	640	1630	1508	1712	400	600	350	460	424	390	PA1517	1505	1692	MX85
MX1686	1614	1827	618	640	1630	1508	1712	500	600	450	560	524	490	PA1517	1505	1692	MX86
MX1688	1614	1827	818	640	1630	1508	1712	700	600	650	760	724	690	PA1517	1505	1692	MX88
MX1205	1209	2027	518	440	1830	1103	1912	400	1003	350	460	424	390	PA1119	1100	1892	MX05
MX1206	1209	2027	618	440	1830	1103	1912	500	1003	450	560	524	490	PA1119	1100	1892	MX06
MX1208	1209	2027	818	440	1830	1103	1912	700	1003	650	760	724	690	PA1119	1100	1892	MX08
MX1605	1614	2027	518	640	1830	1508	1912	400	600	350	460	424	390	PA1519	1505	1892	MX05
MX1606	1614	2027	618	640	1830	1508	1912	500	600	450	560	524	490	PA1519	1505	1892	MX06
MX1608	1614	2027	818	640	1830	1508	1912	700	600	650	760	724	690	PA1519	1505	1892	MX08

** M = maximum depth with inner plate fitted flush inside the frame
* N = maximum depth with inner plate fitted using the slide guides
UL certification to be requested with the order

NOTES: width with side panels fitted = A + 5 mm



Double glazed door module



mechanically tested by UNIVERSITÀ DEGLI STUDI DI PARMA
Facoltà di Ingegneria

IP66 EN 60 529

US LISTED
FILE N° E237618

TYPE NEMA 4X, 4, 12, 1

Standard UL508A - UL50
Standard 250

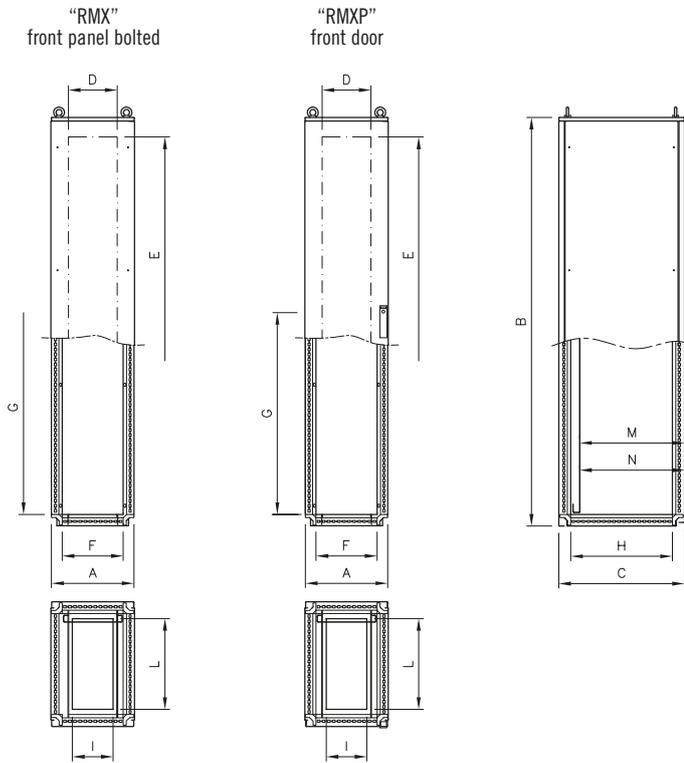
EN 60204-1
89/392/EEC

To request your CABINET in an assembling kit, just add a **K** after the code (e.g. MXV1285K)

ITEM	OUTSIDE SIZES			DOOR VISIBLE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		USEFUL SPACE	INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*	DRILLING SIDES	ITEM	X	Y	ITEM
MXV1285	1209	1827	518	400	1600	1103	1712	400	1003	350	454	418	390	PA1117	1100	1692	MX85
MXV1286	1209	1827	618	400	1600	1103	1712	500	1003	450	554	518	490	PA1117	1100	1692	MX86
MXV1288	1209	1827	818	400	1600	1103	1712	700	1003	650	754	718	690	PA1117	1100	1692	MX88
MXV1685	1614	1827	518	600	1600	1508	1712	400	600	350	454	418	390	PA1517	1505	1692	MX85
MXV1686	1614	1827	618	600	1600	1508	1712	500	600	450	554	518	490	PA1517	1505	1692	MX86
MXV1688	1614	1827	818	600	1600	1508	1712	700	600	650	754	718	690	PA1517	1505	1692	MX88
MXV1205	1209	2027	518	400	1800	1103	1912	400	1003	350	454	418	390	PA1119	1100	1892	MX05
MXV1206	1209	2027	618	400	1800	1103	1912	500	1003	450	554	518	490	PA1119	1100	1892	MX06
MXV1208	1209	2027	818	400	1800	1103	1912	700	1003	650	754	718	690	PA1119	1100	1892	MX08
MXV1605	1614	2027	518	600	1800	1508	1912	400	600	350	454	418	390	PA1519	1505	1892	MX05
MXV1606	1614	2027	618	600	1800	1508	1912	500	600	450	554	518	490	PA1519	1505	1892	MX06
MXV1608	1614	2027	818	600	1800	1508	1912	700	600	650	754	718	690	PA1519	1505	1892	MX08

** M = maximum depth with inner plate fitted flush inside the frame
* N = maximum depth with inner plate fitted using the slide guides
UL certification to be requested with the order

NOTES: width with side panels fitted = A + 5mm



Cable riser module

mechanically tested by UNIVERSITÀ DEGLI STUDI DI PARMA
Facoltà di Ingegneria

IP66 EN 60 529

US LISTED
FILE N° E237618

TYPE NEMA 4X, 12, 1, 4

Standard UL508A - UL50
Standard 250

IK10

EN 60204-1
89/392/EEC

To request your CABINET in an assembling kit, just add a K after the code (e.g RMX0385K)

ITEM	CABINET													OPTIONALS			
	OUTSIDE SIZES			DOOR USEFUL SURFACE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		USEFUL SPACE	INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*	DRILLING SIDES	ITEM	X	Y	ITEM
RMX0385	306	1827	518	180	1690	200	1712	400	100	350	460	424	390	PA0217	197	1692	MX85
RMX0386	306	1827	618	180	1690	200	1712	500	100	450	560	524	490	PA0217	197	1692	MX86
RMX0388	306	1827	818	180	1690	200	1712	700	100	650	760	724	690	PA0217	197	1692	MX88
RMX0485	406	1827	518	280	1690	300	1712	400	200	350	460	424	390	PA0317	297	1692	MX85
RMX0486	406	1827	618	280	1690	300	1712	500	200	450	560	524	490	PA0317	297	1692	MX86
RMX0488	406	1827	818	280	1690	300	1712	700	200	650	760	724	690	PA0317	297	1692	MX88
RMX0305	306	2027	518	180	1890	200	1912	400	100	350	460	424	390	PA0219	197	1892	MX05
RMX0306	306	2027	618	180	1890	200	1912	500	100	450	560	524	490	PA0219	197	1892	MX06
RMX0308	306	2027	818	180	1890	200	1912	700	100	650	760	724	690	PA0219	197	1892	MX08
RMX0405	406	2027	518	280	1890	300	1912	400	200	350	460	424	390	PA0319	297	1892	MX05
RMX0406	406	2027	618	280	1890	300	1912	500	200	450	560	524	490	PA0319	297	1892	MX06
RMX0408	406	2027	818	280	1890	300	1912	700	200	650	760	724	690	PA0319	297	1892	MX08
RMXP0385	306	1827	518	180	1690	200	1712	400	100	350	460	424	390	PA0217	197	1692	MX85
RMXP0386	306	1827	618	180	1690	200	1712	500	100	450	560	524	490	PA0217	197	1692	MX86
RMXP0388	306	1827	818	180	1690	200	1712	700	100	650	760	724	690	PA0217	197	1692	MX88
RMXP0485	406	1827	518	280	1690	300	1712	400	200	350	460	424	390	PA0317	297	1692	MX85
RMXP0486	406	1827	618	280	1690	300	1712	500	200	450	560	524	490	PA0317	297	1692	MX86
RMXP0488	406	1827	818	280	1690	300	1712	700	200	650	760	724	690	PA0317	297	1692	MX88
RMXP0305	306	2027	518	180	1890	200	1912	400	100	350	460	424	390	PA0219	197	1892	MX05
RMXP0306	306	2027	618	180	1890	200	1912	500	100	450	560	524	490	PA0219	197	1892	MX06
RMXP0308	306	2027	818	180	1890	200	1912	700	100	650	760	724	690	PA0219	197	1892	MX08
RMXP0405	406	2027	518	280	1890	300	1912	400	200	350	460	424	390	PA0319	297	1892	MX05
RMXP0406	406	2027	618	280	1890	300	1912	500	200	450	560	524	490	PA0319	297	1892	MX06
RMXP0408	406	2027	818	280	1890	300	1912	700	200	650	760	724	690	PA0319	297	1892	MX08

** M = maximum depth with inner plate fitted flush inside the frame
* N = maximum depth with inner plate fitted using the slide guides
UL certification to be requested with the order

NOTES: width with side panels fitted = A + 5mm



MODULE FOR DISCONNECTOR BLOCK

Designed in compliance with the USA safety-related regulations, it allows maximum utilization of the inner spaces, particularly of the whole inner plate, while maintaining accessibility on all sides, which is peculiar to MX modular cabinets.

The module, without inner segregations, features a front door (acting as main door in a battery of cabinets) and a 200mm bolted panel, prearranged to accommodate the control lever of the following master switches:

- Allen Bradley 1494 V-H1
- Square D 9422 A1
- General Electric TDA type 1 and 2
- Moeller NZM-XSHGVR 12-NA
- Siemens ITE MAX FLEX ®

Complete with disconnecter interlock - item (A) in the diagram below. This module being usually combined with other modules in a battery, its use must envisage also the use of an interlocks kit, a mechanical system that permits to set the priorities for doors opening:

MKP.IS disconnecter interlock (A)

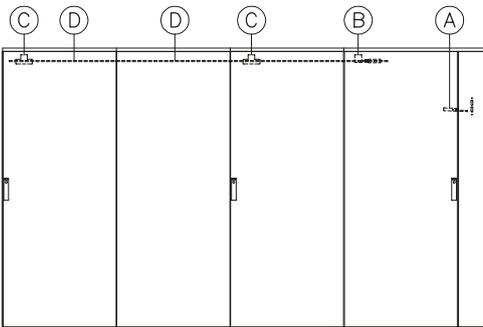
To lock the door (B in the figure) near to the bolted panel bearing the switch (the door will open only when the latter is set to OFF) inside the module for disconnecter block.

MKP.PR primary interlock (B)

Mechanical drive, including the related transmission lever, to be fitted to the door of the module accommodating the disconnecter block (primary) to command the opening of the doors in the battery-mounted cabinets (secondary).

MKP.SE secondary interlock (C)

To be fitted on all the secondary doors whose opening is slaved to the opening of the primary door; for the double door cabinets, it is to be fitted to the door having priority opening direction (outside door lock) The door opening direction is not binding.



Transmission rods (D)

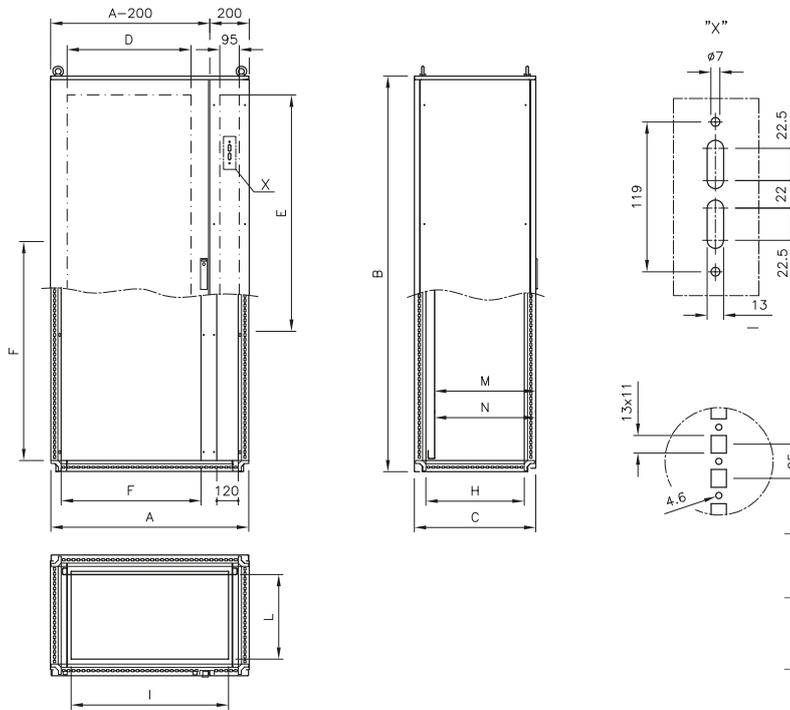
To transmit the lock or unlock command from the primary door to the secondary ones.

A rod must be ordered per each module except the module for the disconnecter block:

- MKP.AR06 - transmission rod for cabinets nominal width 600 mm.
- MKP.AR08 - transmission rod for cabinets nominal width 800 mm.
- MKP.AR10 - transmission rod for cabinets nominal width 1000 mm.
- MKP.AR12 - transmission rod for cabinets nominal width 1200 mm.
- MKP.AR16 - transmission rod for cabinets nominal width 1600 mm.



Module for disconnecter block



mechanically tested by UNIVERSITÀ DEGLI STUDI DI PARMA
Facoltà di Ingegneria

IP66 EN 60 529

US LISTED
FILE N° E237618

TYPE NEMA 4X, 12, 1, 4

Standard UL508A - UL50
Standard 250

EN 60204-1
89/392/EEC

To request your CABINET in an assembling kit, just add a K after the code (e.g MX0685.200FK)

ITEM	CABINET												OPTIONALS				
	SIZES ESTERNE			DOOR USEFUL SURFACE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		USEFUL SPACE DRILLING SIDES	INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*		ITEM	X	Y	ITEM
MX0685.200F	606	1827	518	240	1630	300	1712	400	400	350	460	424	390	PA0517	497	1692	MX85
MX0686.200F	606	1827	618	240	1630	300	1712	500	400	450	560	524	490	PA0517	497	1692	MX86
MX0688.200F	606	1827	818	240	1630	300	1712	700	400	650	760	724	690	PA0517	497	1692	MX88
MX0885.200F	806	1827	518	440	1630	500	1712	400	600	350	460	424	390	PA0717	697	1692	MX85
MX0886.200F	806	1827	618	440	1630	500	1712	500	600	450	560	524	490	PA0717	697	1692	MX86
MX0888.200F	806	1827	818	440	1630	500	1712	700	600	650	760	724	690	PA0717	697	1692	MX88
MX1085.200F	1006	1827	518	640	1630	700	1712	400	800	350	460	424	390	PA0917	897	1692	MX85
MX1086.200F	1006	1827	618	640	1630	700	1712	500	800	450	560	524	490	PA0917	897	1692	MX86
MX1088.200F	1006	1827	818	640	1630	700	1712	700	800	650	760	724	690	PA0917	897	1692	MX88
MX1285.200F	1209	1827	518	843	1630	903	1712	400	1003	350	460	424	390	PA1117	1100	1692	MX85
MX1286.200F	1209	1827	618	843	1630	903	1712	500	1003	450	560	524	490	PA1117	1100	1692	MX86
MX1288.200F	1209	1827	818	843	1630	903	1712	700	1003	650	760	724	690	PA1117	1100	1692	MX88
MX0605.200F	606	2027	518	240	1830	300	1912	400	400	350	460	424	390	PA0519	497	1892	MX05
MX0606.200F	606	2027	618	240	1830	300	1912	500	400	450	560	524	490	PA0519	497	1892	MX06
MX0608.200F	606	2027	818	240	1830	300	1912	700	400	650	760	724	690	PA0519	497	1892	MX08
MX0805.200F	806	2027	518	440	1830	500	1912	400	600	350	460	424	390	PA0719	697	1892	MX05
MX0806.200F	806	2027	618	440	1830	500	1912	500	600	450	560	524	490	PA0719	697	1892	MX06
MX0808.200F	806	2027	818	440	1830	500	1912	700	600	650	760	724	690	PA0719	697	1892	MX08
MX1005.200F	1006	2027	518	640	1830	700	1912	400	800	350	460	424	390	PA0919	897	1892	MX05
MX1006.200F	1006	2027	618	640	1830	700	1912	500	800	450	560	524	490	PA0919	897	1892	MX06
MX1008.200F	1006	2027	818	640	1830	700	1912	700	800	650	760	724	690	PA0919	897	1892	MX08
MX1205.200F	1209	2027	518	843	1830	903	1912	400	1003	350	460	424	390	PA1119	1100	1892	MX05
MX1206.200F	1209	2027	618	843	1830	903	1912	500	1003	450	560	524	490	PA1119	1100	1892	MX06
MX1208.200F	1209	2027	818	843	1830	903	1912	700	1003	650	760	724	690	PA1119	1100	1892	MX08

** M = maximum depth with inner plate fitted flush inside the frame
* N = maximum depth with inner plate fitted using the slide guides
UL certification to be requested with the order

NOTES: width with side panels fitted = A + 5mm



PAIR OF SIDE PANELS

EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished and protected, thickn. 15/10, for direct installation outside the module or to make-up multi-module units, securing them to the frame from the outside by no.8 caphead s/s screws.

ITEM	SIZES		FOR CABINETS	
	L	H	DEPTH C	HEIGHT B
MX85	457	1808	518	1827
MX86	557	1808	618	1827
MX88	757	1808	818	1827
MX05	457	2008	518	2027
MX06	557	2008	618	2027
MX08	757	2008	818	2027



MODULE COUPLING KIT MKMX

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

- **MKMX** - coupling kit for modules MX



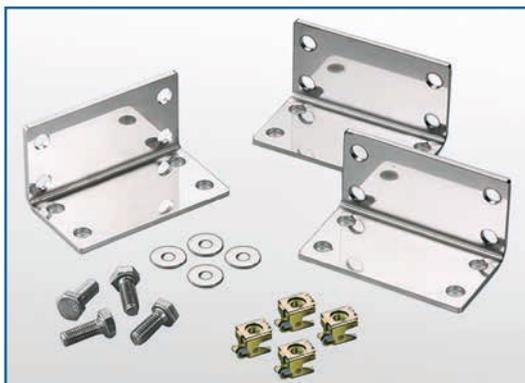
SAFETY STIRRUPS FOR INNER PLATE MKS

Kit formed by 4 shaped squares (2 upper and 2 lower ones), acting as safety lock to prevent the plate being disconnected from the rest by the stress due to transport.

They permit the plate quick connection and its holding the vertical position, while preventing it from overturning during assembling.

- **MKS** - 1 set of squares

NOTE: not to be used with slide guides



STIFFENING KIT MKIMX

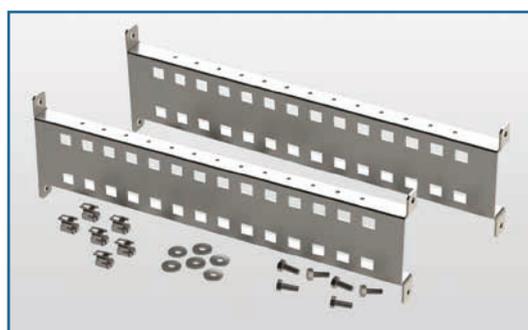
Consisting of 2 formed s/s angle irons with relevant bolts and screws, for application close to the uprights of two coupled frames, to add stiffness and sturdiness to the frame. Its use is always recommended, especially when batteries of several pre-assembled modules already coupled have to be transported and/or when the weight inside the modules exceeds 200 kgs.

- **MKIMX** - Stiffening kits



STEEL SECTIONS SYSTEM

To obtain, easily and quickly, support structures for equipment and instruments accommodated inside the control board; drills spacing 25mm.



DEPTH CROSS MEMBERS

Section 23x50 mm.

Available for all depth of cabinets, they come complete with screws and fastening stirrup. Can be used to fasten cables, fix bars or as connection between front and rear uprights. Ideal to fix and adjust DIN supports on the depth.

- **CTP05MX** - pair of cross members for MX depth 518
- **CTP06MX** - pair of cross members for MX depth 618
- **CTP08MX** - pair of cross members for MX depth 818



50x25 STEEL SECTIONS BY THE METER PRF502M

Available in 2m bars, to be cut to size to create sturdy cross members or columns. A special stirrup must be ordered for their fixing (code SPRF50)

- **PRF502M** - 2m bar



STIRRUP FOR STRUCTURAL STEELS 50x25 SPRF50

Square for fixing the structural steels cut to size. Shape and dimensions have been designed to use the holes close to the upright.

- **SPRF50** - 10 pcs. pack



INNER DOORS

EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished and protected, thickness 20/10, delivered in assembling kit, to be used for equipment assembling inside the cabinets.

The distance between inner door and door is adjustable on two depth: 65mm or 110 mm. Can be hinged on the right or left side.

Maximum admitted load 30Kg. Protection degree IP20 (IP54 on demand). Drilling realizable on demand. For cabinets L.1200 and L.1600 use the inner doors of cabinets L.600 or L.800 adding the appropriate upright; in this case, it is advisable not to use the enbloc fairlead plate since it is difficult to remove.

Removable central upright, to be used for installation of inner doors in cabinets L. 1200 and L. 1600.

- **MMX18** - Central upright for cabinets MX height 1827
- **MMX20** - Central upright for cabinets MX height 2027

FOR CABINETS				
ITEM	SIZES		WIDTH	HEIGHT
	L	H	A	B
CP0618MX	490	1691	606	1827
CP0818MX	690	1691	806	1827
CP1018MX	890	1691	1006	1827
CP0620MX	490	1891	606	2027
CP0820MX	690	1891	806	2027
CP1020MX	890	1891	1006	2027



PARTITION Baffles

EN 10142 sendzimir sheet panel, thickness 25/10, to be set between two modules to keep them apart . Two versions are available : protection degree IP20 and protection degree IP65. On demand they can be drilled for cable passage between two modules, and for connectors.

NOTE: the partition baffle excludes the use of the intermediate plate

ITEM	PROTECTION DEGREE	FOR CABINETS	
		DEPTH	HEIGHT
		C	B
ST285MX	IP20	518	1827
ST286MX	IP20	618	1827
ST288MX	IP20	818	1827
ST205MX	IP20	518	2027
ST206MX	IP20	618	2027
ST208MX	IP20	818	2027
ST685MX	IP65	518	1827
ST686MX	IP65	618	1827
ST688MX	IP65	818	1827
ST605MX	IP65	518	2027
ST606MX	IP65	618	2027
ST608MX	IP65	818	2027

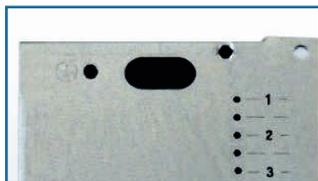
Systems For Modular Switchgears



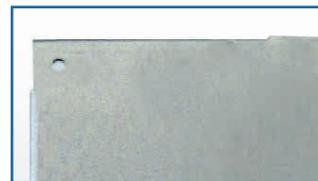
Srs Wiring System



Inner Plates Type PS



Inner Plates Type PA



Intermediate Plate



Slide Guides



Transformers Holding Structural Steels



Adjustable Feet



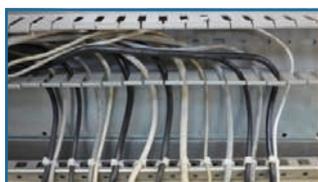
Skirting



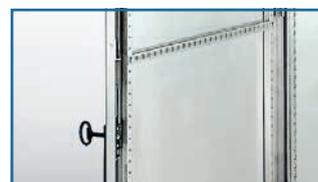
Fairlead Plates



Cable Fixing Cross Members



Cross Members For Door



Work Tabletops



Diagram Holding Pockets



Anti-Close Device



Electroconductive Gaskets



Interlocks



Door Locks Hoisting Bars



Hoisting Eyebolts



Cage Nuts



Self-Tapping Screws 5,5



Lamps



Taps



IN THE SECTION "ACCESSORIES FOR CABINETS"

Over-Doors



Cable Glands



IN THE SECTION "AIR CONDITIONING"

Air Conditioning



Ventilation





Our watchword: Innovation.

Our strength: Research.

We are aware that the quality of the future is dependent on today's Research.

Every year we invest considerable human and financial resources in R&D, to create new technologies and improve the current ones, start projects to optimize the most varied implementations, perform tests on the quality and technological standards of our products.

	PRODUCT	PAG.
	MONOBLOC CABINETS	
	Monobloc cabinets CX-A	28
	Accessories for monobloc cabinets CX-A	34

1

MONOBLOC CABINETS



MULTIPLE FAIRLEAD PLATES



PARTITION Baffles



SLIDE GUIDES



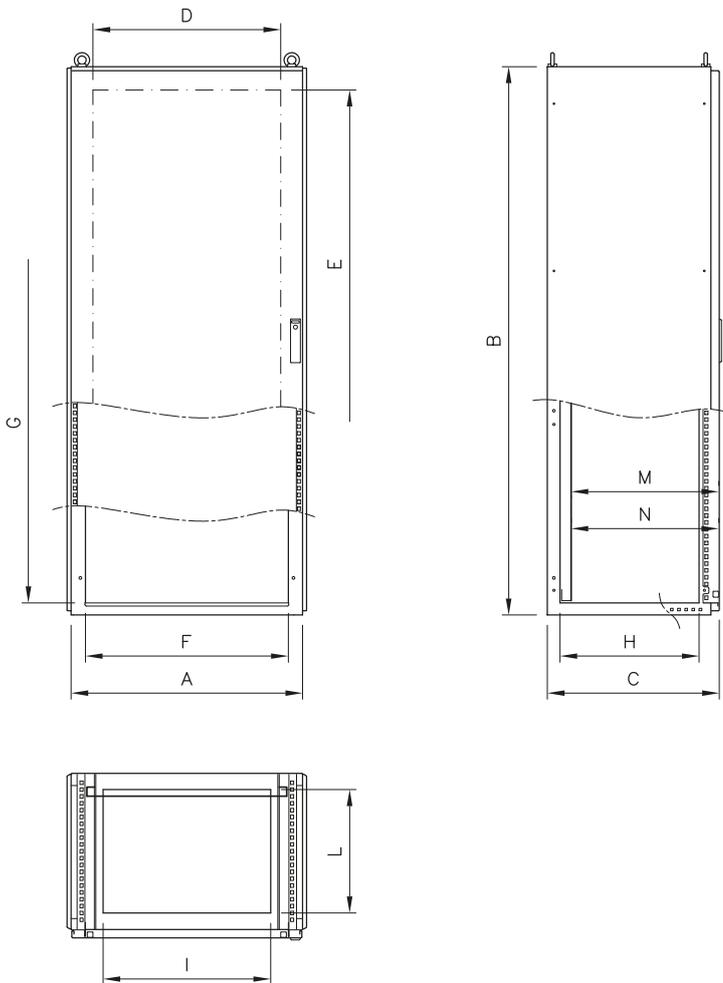
SKIRTING



MONOBLOC CABINETS WITH REMOVABLE SIDE PANELS SERIES CX-A

- Material: EN 1.4307 (TYPE 304L) s/s, finely satin-finished and protected, thickness: door 20/10, envelope and sides 15/10.
- Front door, full or with 3+3 laminate shatterproof glass, stiffening s/s inner frame, drilled to support equipment and or secure cableways and accessories.
- The full door can also be equipped with partial windows and different materials can be used (polycarbonate or aluminium for silk printing) on demand.
- Rear side not accessible and ceiling not removable, obtained from a single sheet.
- Side panels, bolted and removable, to be ordered separately.
- Two-comb door lock with outside faceplate of glass-filled black polyamides, 4-point closing and L.T. key. On request it can be replaced by other types of door locks (see "accessories for cabinets").
- The cabinet bottom can be equipped with three different types of fairlead plates: enbloc, multiple or slash type multiple, to be ordered separately (see accessories for cabinets).
- TYPE 316 s/s inner hinges, for 120° opening as per CEI EN 60204-1 recommendations.
- Seal of foamed polyurethane, applied by robotized system.
- Sendzimir inner plate to be ordered separately (see "Accessories for cabinets").
- Pre-arranged for earthing as per regulations in force.
- Protection degree: IP66.

Module with single blind door

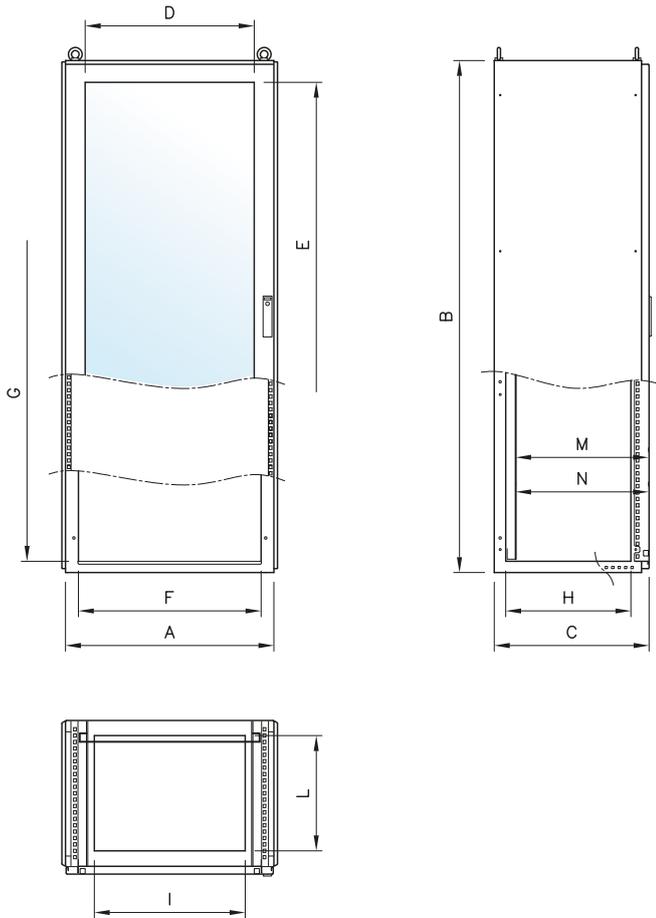


	IP66	EN 60 529
US LISTED FILE N° E237618	TYPE NEMA 4X, 12, 1, 4	Standard UL508A - UL50 Standard 250
	IK10	EN 60204-1 89/392/EEC

ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		FRAME INSIDE SIZES			CABLE WAY		DEPTH UTILE		USEFUL SPACE DRILLING SIDES	INNER PLATE			SIDES ITEM
	A	B	C	D	E	F	G	H	I	L	M**	N*		ITEM	X	Y	
CX0684A	608	1800	400	455	1630	508	1712	285	385	250	340	315	277	PA0517	497	1692	CX84A
CX0685A	608	1800	500	455	1630	508	1712	385	385	350	440	415	377	PA0517	497	1692	CX85A
CX0686A	608	1800	600	455	1630	508	1712	485	385	450	540	515	477	PA0517	497	1692	CX86A
CX0884A	808	1800	400	655	1630	708	1712	285	585	250	340	315	277	PA0717	697	1692	CX84A
CX0885A	808	1800	500	655	1630	708	1712	385	585	350	440	415	377	PA0717	697	1692	CX85A
CX0886A	808	1800	600	655	1630	708	1712	485	585	450	540	515	477	PA0717	697	1692	CX86A
CX1084A	1008	1800	400	855	1630	908	1712	285	785	250	340	315	277	PA0917	897	1692	CX84A
CX1085A	1008	1800	500	855	1630	908	1712	385	785	350	440	415	377	PA0917	897	1692	CX85A
CX1086A	1008	1800	600	855	1630	908	1712	485	785	450	540	515	477	PA0917	897	1692	CX86A
CX0604A	608	2000	400	455	1830	508	1912	285	385	250	340	315	277	PA0519	497	1892	CX04A
CX0605A	608	2000	500	455	1830	508	1912	385	385	350	440	415	377	PA0519	497	1892	CX05A
CX0606A	608	2000	600	455	1830	508	1912	485	385	450	540	515	477	PA0519	497	1892	CX06A
CX0804A	808	2000	400	655	1830	708	1912	285	585	250	340	315	277	PA0719	697	1892	CX04A
CX0805A	808	2000	500	655	1830	708	1912	385	585	350	440	415	377	PA0719	697	1892	CX05A
CX0806A	808	2000	600	655	1830	708	1912	485	585	450	540	515	477	PA0719	697	1892	CX06A
CX1004A	1008	2000	400	855	1830	908	1912	285	785	250	340	315	277	PA0919	897	1892	CX04A
CX1005A	1008	2000	500	855	1830	908	1912	385	785	350	440	415	377	PA0919	897	1892	CX05A
CX1006A	1008	2000	600	855	1830	908	1912	485	785	450	540	515	477	PA0919	897	1892	CX06A

** M = maximum depth with inner plate fitted flush inside the frame
 * N = maximum depth with inner plate fitted using the slide guides
 UL certification to be requested with the order

NOTES: Width con sides montate = A + 28mm



Module with single glazed door

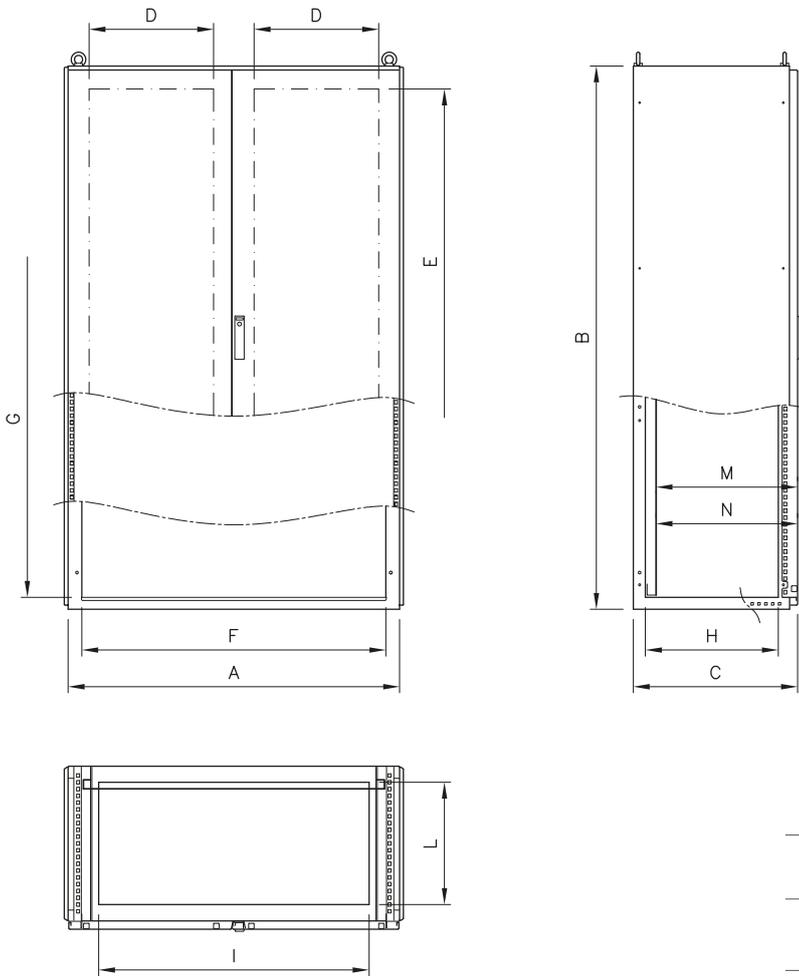
	IP66	EN 60 529
UL LISTED FILE N° E237618	TYPE NEMA 4X, 12, 1, 4	Standard UL508A - UL50 Standard 250
		EN 60204-1 89/392/EEC

ITEM	OUTSIDE SIZES			DOOR VISIBLE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*	ITEM	X	Y	ITEM
CXV0684A	608	1800	400	400	1600	508	1712	385	385	250	340	315	PA0517	497	1692	CX84A
CXV0685A	608	1800	500	400	1600	508	1712	485	385	350	440	415	PA0517	497	1692	CX85A
CXV0686A	608	1800	600	400	1600	508	1712	585	385	450	540	515	PA0517	497	1692	CX86A
CXV0884A	808	1800	400	600	1600	708	1712	385	585	250	340	315	PA0717	697	1692	CX84A
CXV0885A	808	1800	500	600	1600	708	1712	485	585	350	440	415	PA0717	697	1692	CX85A
CXV0886A	808	1800	600	600	1600	708	1712	585	585	450	540	515	PA0717	697	1692	CX86A
CXV1084A	1008	1800	400	800	1600	908	1712	385	785	250	340	315	PA0917	897	1692	CX84A
CXV1085A	1008	1800	500	800	1600	908	1712	485	785	350	440	415	PA0917	897	1692	CX85A
CXV1086A	1008	1800	600	800	1600	908	1712	585	785	450	540	515	PA0917	897	1692	CX86A
CXV0604A	608	2000	400	400	1800	508	1912	385	385	250	340	315	PA0519	497	1892	CX04A
CXV0605A	608	2000	500	400	1800	508	1912	485	385	350	440	415	PA0519	497	1892	CX05A
CXV0606A	608	2000	600	400	1800	508	1912	585	385	450	540	515	PA0519	497	1892	CX06A
CXV0804A	808	2000	400	600	1800	708	1912	385	585	250	340	315	PA0719	697	1892	CX04A
CXV0805A	808	2000	500	600	1800	708	1912	485	585	350	440	415	PA0719	697	1892	CX05A
CXV0806A	808	2000	600	600	1800	708	1912	585	585	450	540	515	PA0719	697	1892	CX06A
CXV1004A	1008	2000	400	800	1800	908	1912	385	785	250	340	315	PA0919	897	1892	CX04A
CXV1005A	1008	2000	500	800	1800	908	1912	485	785	350	440	415	PA0919	897	1892	CX05A
CXV1006A	1008	2000	600	800	1800	908	1912	585	785	450	540	515	PA0919	897	1892	CX06A

** M = maximum depth with inner plate fitted flush inside the frame
 * N = maximum depth with inner plate fitted using the slide guides
 UL certification to be requested with the order

NOTES: Width con sides montate = A + 28mm

Module with double blind door



	IP66	EN 60 529
US LISTED FILE N° E237618	TYPE NEMA 4X, 12, 1, 4	Standard UL508A - UL50 Standard 250
		EN 60204-1 89/392/EEC

CABINET													OPTIONALS			
ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		INNER PLATE			SIDES ITEM
	A	B	C	D	E	F	G	H	I	L	M**	N*	ITEM	X	Y	
CX1284A	1211	1800	400	455	1630	1111	1712	385	988	250	340	315	PA1117	1100	1692	CX84A
CX1285A	1211	1800	500	455	1630	1111	1712	485	988	350	440	415	PA1117	1100	1692	CX85A
CX1286A	1211	1800	600	455	1630	1111	1712	585	988	450	540	515	PA1117	1100	1692	CX86A
CX1204A	1211	2000	400	455	1830	1111	1912	385	988	250	340	315	PA1119	1100	1892	CX04A
CX1205A	1211	2000	500	455	1830	1111	1912	485	988	350	440	415	PA1119	1100	1892	CX05A
CX1206A	1211	2000	600	455	1830	1111	1912	585	988	450	540	515	PA1119	1100	1892	CX06A

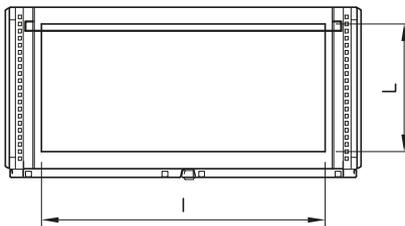
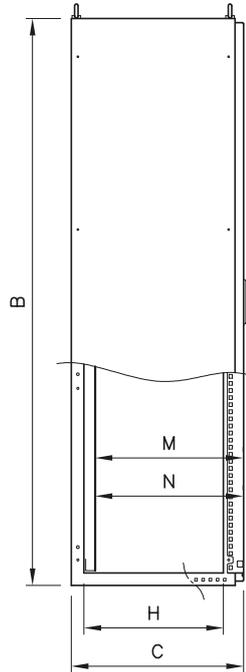
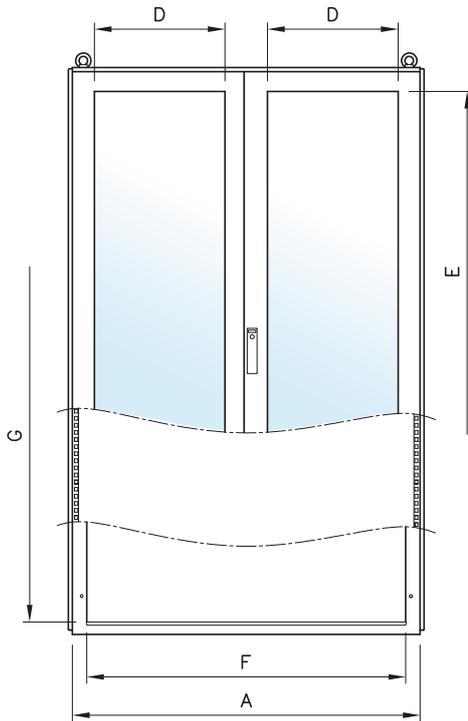
** M = maximum depth with inner plate fitted flush inside the frame

* N = maximum depth with inner plate fitted using the slide guides

UL certification to be requested with the order

NOTES: Width con sides montate = A + 28mm

Module with double glazed door



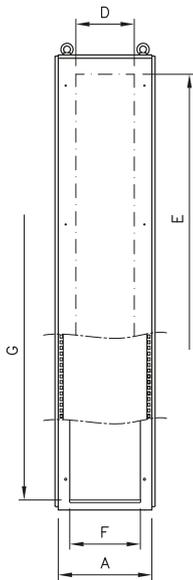
	IP66	EN 60 529
US LISTED FILE N° E237618	TYPE NEMA 4X, 12, 1, 4	Standard UL508A - UL50 Standard 250
		EN 60204-1 89/392/EEC

ITEM	CABINET			OPTIONALS												
	OUTSIDE SIZES			DOOR VISIBLE	FRAME INSIDE SIZES			CABLE WAY			USEFUL DEPTH		INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*	ITEM	X	Y	ITEM
CXV1284A	1211	1800	400	400	1600	1111	1712	385	988	250	340	315	PA1117	1100	1692	CX84A
CXV1285A	1211	1800	500	400	1600	1111	1712	485	988	350	440	415	PA1117	1100	1692	CX85A
CXV1286A	1211	1800	600	400	1600	1111	1712	585	988	450	540	515	PA1117	1100	1692	CX86A
CXV1204A	1211	2000	400	400	1800	1111	1912	385	988	250	340	315	PA1119	1100	1892	CX04A
CXV1205A	1211	2000	500	400	1800	1111	1912	485	988	350	440	415	PA1119	1100	1892	CX05A
CXV1206A	1211	2000	600	400	1800	1111	1912	585	988	450	540	515	PA1119	1100	1892	CX06A

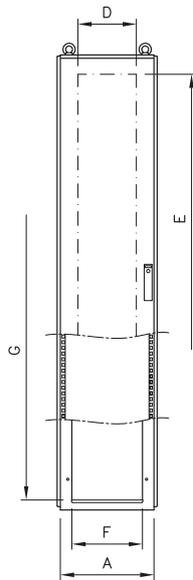
** M = maximum depth with inner plate fitted flush inside the frame.
* N = maximum depth with inner plate fitted using the slide guides
UL certification to be requested with the order

NOTES: width with side panels fitted = A + 28mm

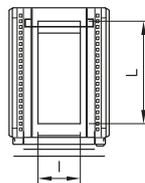
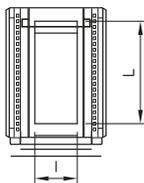
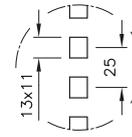
"RX"
pannello anteriore imbullonato



"RXP"
Porta anteriore



Cable riser module



IP66 EN 60 529

UL US LISTED
FILE N° E237618

TYPE NEMA 4X, 12, 1, 4

Standard UL508A - UL50
Standard 250

CE

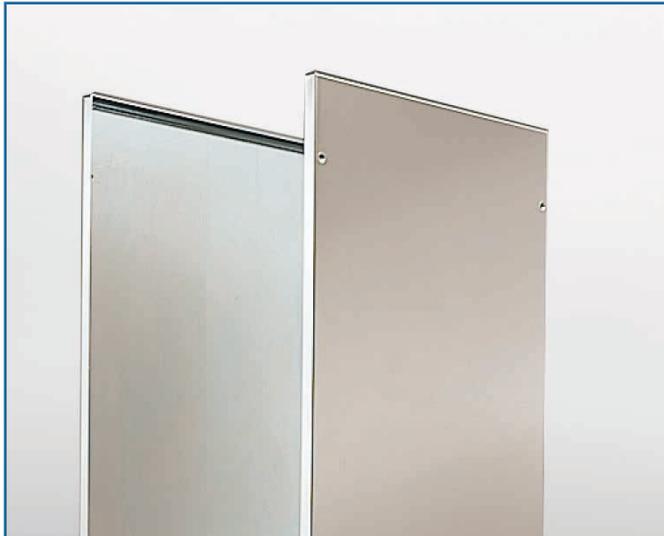
IK10

EN 60204-1
89/392/EEC

ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		FRAME INSIDE SIZES			CABLE WAY		USEFUL DEPTH		INNER PLATE			SIDES
	A	B	C	D	E	F	G	H	I	L	M**	N*	ITEM	X	Y	ITEM
RX0384A	308	1800	400	202	1705	208	1712	385	85	250	340	315	PA0217	197	1692	CX84A
RX0385A	308	1800	500	202	1705	208	1712	485	85	350	440	415	PA0217	197	1692	CX85A
RX0386A	308	1800	600	202	1705	208	1712	585	85	450	540	515	PA0217	197	1692	CX86A
RX0484A	408	1800	400	302	1705	308	1712	385	185	250	340	315	PA0317	297	1692	CX84A
RX0485A	408	1800	500	302	1705	308	1712	485	185	350	440	415	PA0317	297	1692	CX85A
RX0486A	408	1800	600	302	1705	308	1712	585	185	450	540	515	PA0317	297	1692	CX86A
RX0304A	308	2000	400	202	1905	208	1912	385	85	250	340	315	PA0219	197	1892	CX04A
RX0305A	308	2000	500	202	1905	208	1912	485	85	350	440	415	PA0219	197	1892	CX05A
RX0306A	308	2000	600	202	1905	208	1912	585	85	450	540	515	PA0219	197	1892	CX06A
RX0404A	408	2000	400	302	1905	308	1912	385	185	250	340	315	PA0319	297	1892	CX04A
RX0405A	408	2000	500	302	1905	308	1912	485	185	350	440	415	PA0319	297	1892	CX05A
RX0406A	408	2000	600	302	1905	308	1912	585	185	450	540	515	PA0319	297	1892	CX06A
RXP0384A	308	1800	400	202	1705	208	1712	385	85	250	340	315	PA0217	197	1692	CX84A
RXP0385A	308	1800	500	202	1705	208	1712	485	85	350	440	415	PA0217	197	1692	CX85A
RXP0386A	308	1800	600	202	1705	208	1712	585	85	450	540	515	PA0217	197	1692	CX86A
RXP0484A	408	1800	400	302	1705	308	1712	385	185	250	340	315	PA0317	297	1692	CX84A
RXP0485A	408	1800	500	302	1705	308	1712	485	185	350	440	415	PA0317	297	1692	CX85A
RXP0486A	408	1800	600	302	1705	308	1712	585	185	450	540	515	PA0317	297	1692	CX86A
RXP0304A	308	2000	400	202	1905	208	1912	385	85	250	340	315	PA0219	197	1892	CX04A
RXP0305A	308	2000	500	202	1905	208	1912	485	85	350	440	415	PA0219	197	1892	CX05A
RXP0306A	308	2000	600	202	1905	208	1912	585	85	450	540	515	PA0219	197	1892	CX06A
RXP0404A	408	2000	400	302	1905	308	1912	385	185	250	340	315	PA0319	297	1892	CX04A
RXP0405A	408	2000	500	302	1905	308	1912	485	185	350	440	415	PA0319	297	1892	CX05A
RXP0406A	408	2000	600	302	1905	308	1912	585	185	450	540	515	PA0319	297	1892	CX06A

** M = maximum depth with inner plate fitted flush inside the frame
* N = maximum depth with inner plate fitted using the slide guides
UL certification to be requested with the order

NOTES: width with side panels fitted = A + 28mm



SIDE PANELS

EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished and protected, thickness 15/10, for application outside the module or the composition of several modules, fixing them to the frame from the outside by eight flathead screws.

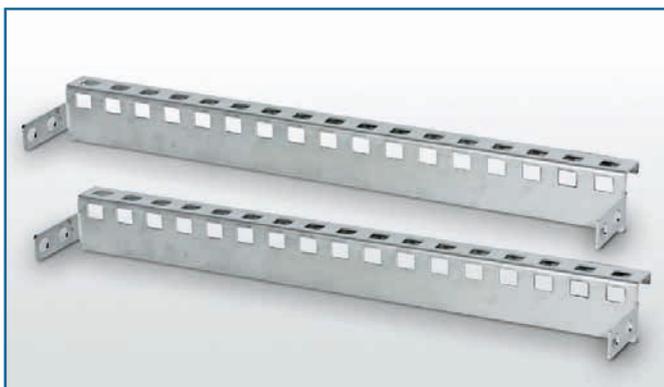
ITEM	SIZES		FOR CABINETS	
	L	H	DEPTH C	HEIGHT B
CX84A	365	1790	400	1800
CX85A	465	1790	500	1800
CX86A	565	1790	600	1800
CX04A	365	1990	400	2000
CX05A	465	1990	500	2000
CX06A	565	1990	600	2000



MODULES COUPLING KIT

Indispensable to couple modules into a battery, it includes the closed cells seal and the screws for assembling purpose.

- **CK04** - modules coupling kit P=400
- **CK05** - modules coupling kit P=500
- **CK06** - modules coupling kit P=600

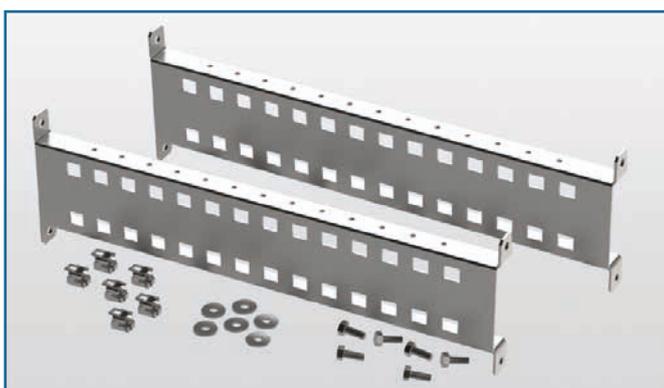


TOP CROSS MEMBER

TYPE 304 s/s execution, section 26x42, available for all the widths of cabinets, they can be used to secure lamps, fasten cables, microswitches...

Indispensable for interlocks assembling.
Indispensable for the assembling of interlocks.
Supplied complete with fastening screws.

- **TRS03CXA** - upper cross members for raisers width 308
- **TRS04CXA** - upper cross members for raisers width 408
- **TRS06CXA** - upper cross members for raisers width 608
- **TRS08CXA** - upper cross members for raisers width 808
- **TRS10CXA** - upper cross members for raisers width 1008
- **TRS12CXA** - upper cross members for raisers width 1211



DEPTH CROSS MEMBERS

Section 22x50mm. Available for all depths 400, 500 and 600, they come complete with fastening screws. Can be used to fasten cables, secure vertical section bars. Ideal to secure and adjust DIN rests on the depth.

- **PRF254CXA** - pair of cross members for CX depth 400
- **PRF255CXA** - pair of cross members for CX depth 500
- **PRF256CXA** - pair of cross members for CX depth 600



INNER DOORS

EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished and protected, thickness 20/10, they are delivered in assembling kit and is used to set equipment inside the cabinets. The gap between inner door and door is adjustable to two depth: 65 or 110mm. Can be hinged on the right or left side. The maximum admitted load is 30Kg.

Protection degree IP20 (IP54 on demand).

Drilling available on demand. For cabinets L.1200 use the inner doors of cabinets L.600 adding the corresponding upright; in this case, it is advisable to not use the enbloc fairlead plate for being difficult to remove.

Central upright removable to be used for the installation of inner doors in cabinets L. 1200.

- **MCX18** - Central upright for cabinets CX height 1800
- **MCX20** - Central upright for cabinets CX height 2000

FOR CABINETS				
ITEM	SIZES		WIDTH	HEIGHT
	L	H	A	B
CP0618	490	1691	608	1800
CP0818	690	1691	808	1800
CP1018	890	1691	1008	1800
CP0620	490	1891	608	2000
CP0820	690	1891	808	2000
CP1020	890	1891	1008	2000



PARTITION Baffles

EN 10142 sendzimir sheet panel, thickn. 25/10, to be introduced between two modules and create a separation between them. Available in two versions: with protection degree IP20 and IP65. Can be drilled on demand to allow cables passage between two modules and for connectors.

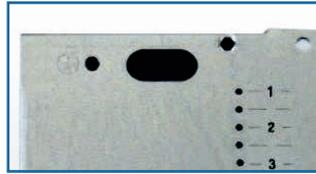
NOTE: the partition baffle exclude the use of the intermediate plate.

ITEM	PROTECTION DEGREE	FOR CABINETS	
		DEPTH	HEIGHT
		C	B
STCX284A	IP20	400	1800
STCX285A	IP20	500	1800
STCX286A	IP20	600	1800
STCX204A	IP20	400	2000
STCX205A	IP20	500	2000
STCX206A	IP20	600	2000
STCX684A	IP65	400	1800
STCX685A	IP65	500	1800
STCX686A	IP65	600	1800
STCX604A	IP65	400	2000
STCX605A	IP65	500	2000
STCX606A	IP65	600	2000

SRS Cabling System



Inner Plates Type PS



Inner Plates Type PA



Intermediate Plate



Slide Guides



Transformer Holding Section Bars



Adjustable Feet



Skirting



Fairlead Plates



Cable Fixing Cross Members



Cross Members For Door



Work Tabletops



Diagram Holding Pockets



Anti-Close Device



Electroconductive Gaskets



Interlocks



Door Locks Hoisting Bars



Hoisting Eyebolts



Cage Nuts



Self-Tapping Screws 5,5



Lamps



Taps



Systems For Modular Switchgears



IN THE SECTION "ACCESSORIES FOR CABINETS"

Over-Doors



Cable Glands



IN THE SECTION "AIR CONDITIONING"

Air Conditioning



Ventilation





All-Italian quality and design.

Made in Italy.

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Since the onset we decided to prefer Italian engineering, quality and design, maintain the manufacturing sites in our Italian and European locations. Manufacturing in Europe means guaranteeing to our customers daily monitored high quality standards. It means training our workforce, an irreplaceable wealth of culture, experience, tradition and passion.

	PRODUCT	PAG.
	COMPACT CABINETS	
	Compact cabinets CC	40
	Accessories for compact cabinets CC	45

1

COMPACT CABINETS



SKIRTING



OVERDOORS



DISTRIBUTION BOARDS



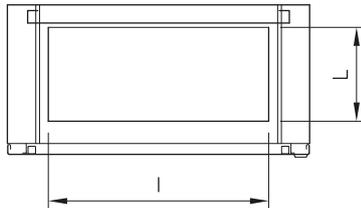
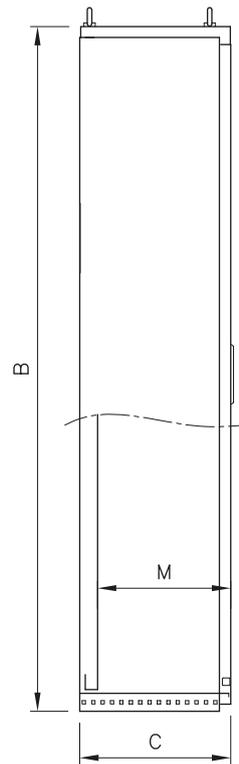
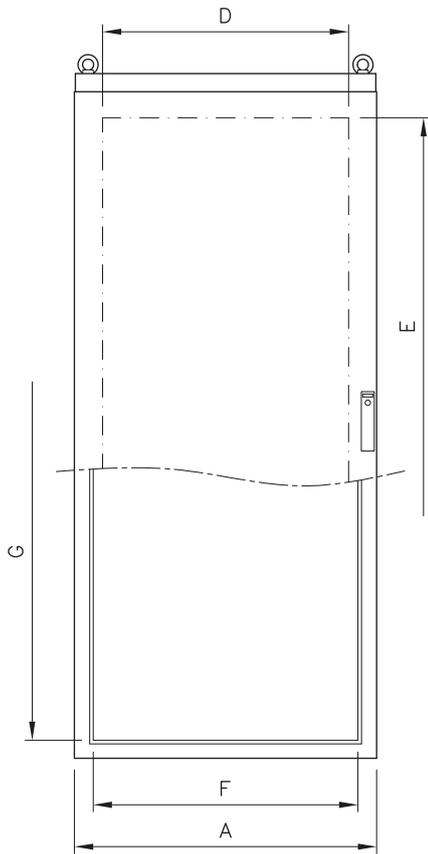
INNER DOORS



COMPACT CABINETS SERIES CC

- Material: EN 1.4307 (TYPE 304L) s/s, finely satin-finished and protected, thickness 15/10 for the cabinet, 20/10 for the door.
- Envelope obtained from a single sheet, no rear access; top panel removable for easy cable entry from above and/or for the installation of conditioning systems. Shaping by multi-bending of the envelope front edge.
- Front door: full or glazed (shatterproof 3+3 laminate glass) with stiffening frame.
- On request, the full door can also be equipped with partial windows and other materials can be used (polycarbonate or aluminium for silk printing).
- Three different types of fairleads are available for the cabinet bottom: enbloc, multiple or sash type multiple, to be ordered separately (see accessories for cabinets).
- Twin-comb lock with outside faceplate made of glass-filled black polyamide, 4-point closing and Low Tension key. On request it can be replaced by different locks (see accessories for cabinets).
- TYPE 316 s/s inner hinges for 120° opening as per CEI EN 60204-1 recommendations.
- Hoisting eyebolt M12.
- Seal of foamed polyurethane.
- Sendzimir inner plate , to be ordered separately (see “accessories for cabinets”).
- Pre-arranged for earthing in compliance with the applicable regulations in force.
- Protection degree: IP66 in compliance with CEI EN 60529 (IP65 for 2-door cabinets).
- The cabinets can be made from other types of s/s and with different sizes and patterns to suit specific requirements.
- All the CC cabinets are equipped with RFID.

Module with single blind door

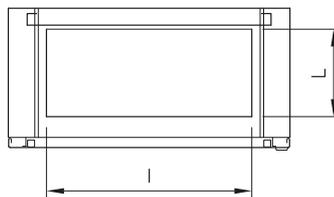
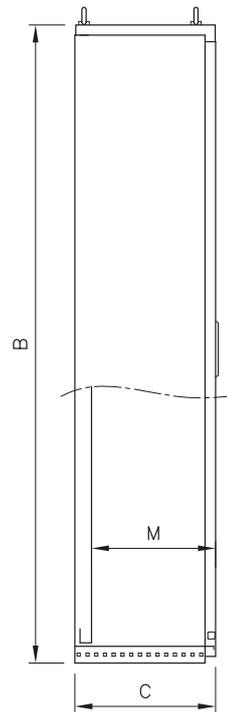
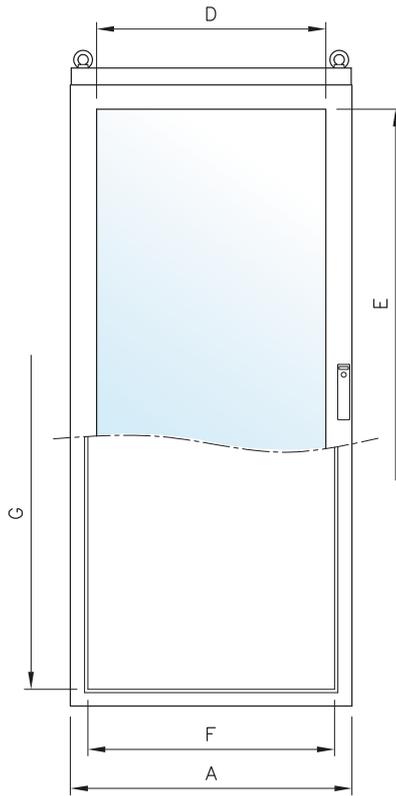


	IP66	EN 60 529
UL US LISTED FILE N° E237618	TYPE NEMA 4X, 4, 12, 1	Standard UL508A - UL50 Standard 250
	IK10	EN 60204-1 89/392/EEC

ITEM	CABINET										OPTIONALS		
	OUTSIDE SIZES			DOOR USEFUL SURFACE		FRAME INSIDE		CABLE WAY			INNER PLATE		
	A	B	C	D	E	F	G	I	L	M**	ITEM	X	Y
CC818	805	1840	400	655	1630	705	1712	590	250	340	PA0717	697	1692
CC1018	1005	1840	400	855	1630	905	1712	790	250	340	PA0917	897	1692

** M = maximum useful depth with inner plate fitted
UL certification to be requested with the order

Module with single glazed door

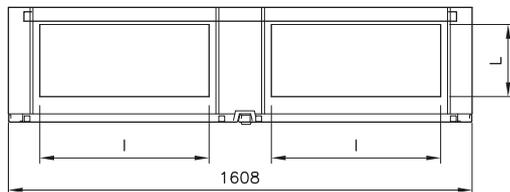
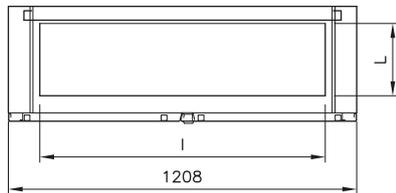
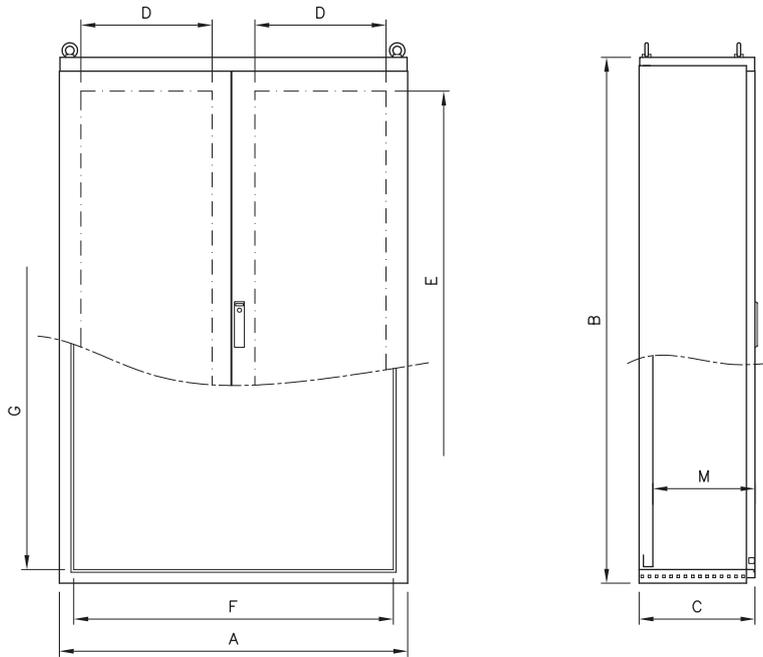


	IP66	EN 60 529
US LISTED FILE N° E237618	TYPE NEMA 4X, 12, 1, 4	Standard UL508A - UL50 Standard 250
		EN 60204-1 89/392/EEC

ITEM	OUTSIDE SIZES			DOOR VISIBLE		FRAME INSIDE		CABLE WAY			M**	OPTIONALS		
	A	B	C	D	E	F	G	I	L	ITEM		X	Y	
CCV818	805	1840	400	600	1600	705	1712	590	250	340	PA0717	697	1692	
CCV1018	1005	1840	400	800	1600	905	1712	790	250	340	PA0917	897	1692	

** M = maximum useful depth with inner plate fitted
UL certification to be requested with the order

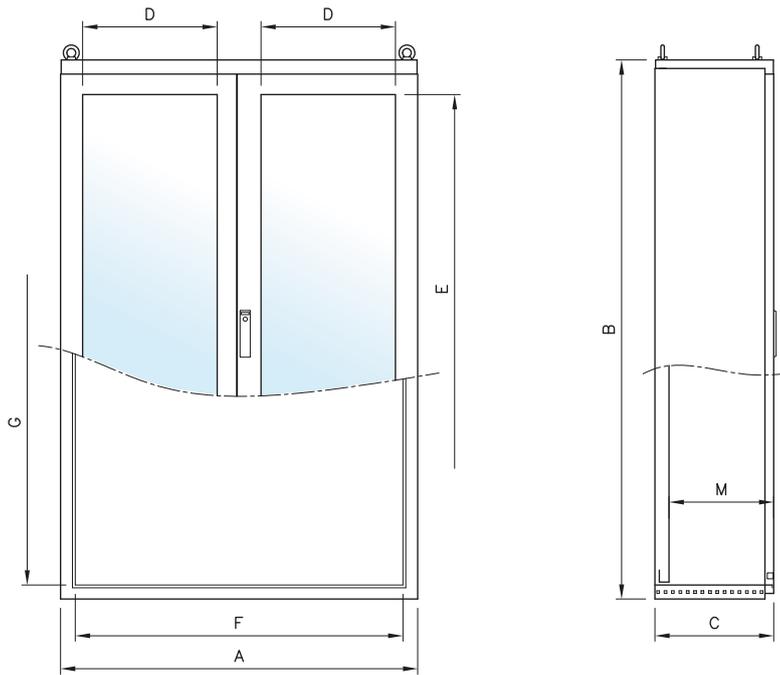
Module with double blind door



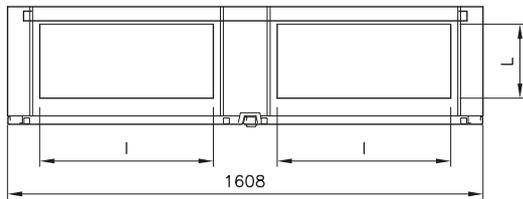
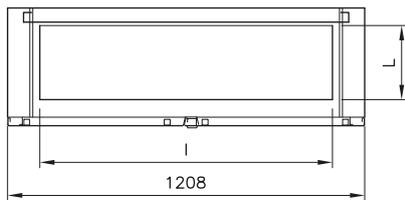
	IP65	EN 60 529
 US LISTED FILE N° E237618	TYPE NEMA	Standard UL508A - UL50 Standard 250
	12, 1	EN 60204-1 89/392/EEC

ITEM	CABINET										OPTIONALS		
	OUTSIDE SIZES			DOOR USEFUL SURFACE		FRAME INSIDE		CABLE WAY			INNER PLATE		
	A	B	C	D	E	F	G	I	L	M**	ITEM	X	Y
CC1216	1208	1640	400	455	1430	1108	1512	990	250	340	PA1115	1100	1492
CC1218	1208	1840	400	455	1630	1108	1712	990	250	340	PA1117	1100	1692
CC1616	1608	1640	400	655	1430	1508	1512	590	250	340	PA1515	1505	1492
CC1618	1608	1840	400	655	1630	1508	1712	590	250	340	PA1517	1505	1692

** M = maximum useful depth with inner plate fitted
UL certification to be requested with the order



Module with double glazed door



	IP65	EN 60 529
 FILE N° E237618	TYPE NEMA 12, 1	Standard UL508A - UL50 Standard 250
		EN 60204-1 89/392/EEC

ITEM	OUTSIDE SIZES			DOOR VISIBLE SURF.		FRAME INSIDE		CABLE WAY			OPTIONALS		
	A	B	C	D	E	F	G	I	L	M**	INNER PLATE		
											ITEM	X	Y
CCV1216	1208	1640	400	400	1400	1108	1512	990	250	340	PA1115	1100	1492
CCV1218	1208	1840	400	400	1600	1108	1712	990	250	340	PA1117	1100	1692
CCV1616	1608	1640	400	600	1400	1508	1512	590	250	340	PA1515	1505	1492
CCV1618	1608	1840	400	600	1600	1508	1712	590	250	340	PA1517	1505	1692

** M = maximum useful depth with inner plate fitted
 UL certification to be requested with the order



INNER DOORS

EN 1.4307 (TYPE 304L) execution, finely satin-finished and protected, thickness 20/10, they come in assembling kit and are used to assemble equipment inside the cabinets.

The gap between inner door and door is adjustable on two depth: 65 or 110mm. Can be hinged either on the right or the left side.

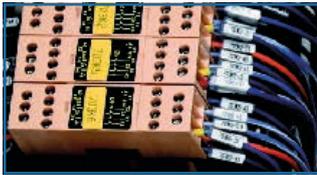
Maximum load admitted on the door 30Kg. Protection degree IP20 (IP54 on request). Drilling possible on request. For cabinets L.1200 and L.1600 use inner doors L.600 or L.800 adding the appropriate upright; in this case, it is recommended to not use the enbloc fairlead plate that is difficult to remove.

Central upright removable, to be use for installation of inner doors in cabinets L. 1200 and L. 1600.

- **MCC16** - Central upright for cabinets CC height 1640
- **MCC18** - Central upright for cabinets CC height 1840

ITEM	FOR CABINETS			
	SIZES		WIDTH	HEIGHT
	L	H	A	B
CP0616	490	1491	605	1640
CP0816	690	1491	805	1640
CP0618	490	1691	605	1840
CP0818	690	1691	805	1840
CP1018	890	1691	1005	1840

SRS Cabling System



Inner Plates Type PA



Intermediate Plate



Slide Guides



Transformer Holding Section Bars



Adjustable Feet



Skirting



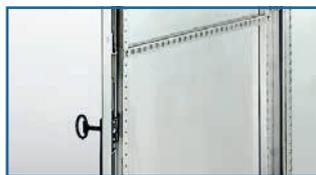
Fairlead Plates



Cable Fixing Cross Members



Cross Members For Door



Work Tabletops



Diagram Holding Pockets



Anti-Close Device



Electroconductive Gaskets



Hoisting Eyebolts



Cage Nuts



Self-Tapping Screws 5,5



Lamps



Taps



Systems For Modular Switchgears



IN THE SECTION "ACCESSORIES FOR SMALL CABINETS"

Over-Doors



Cable Glands



IN THE SECTION "AIR CONDITIONING"

Air Conditioning



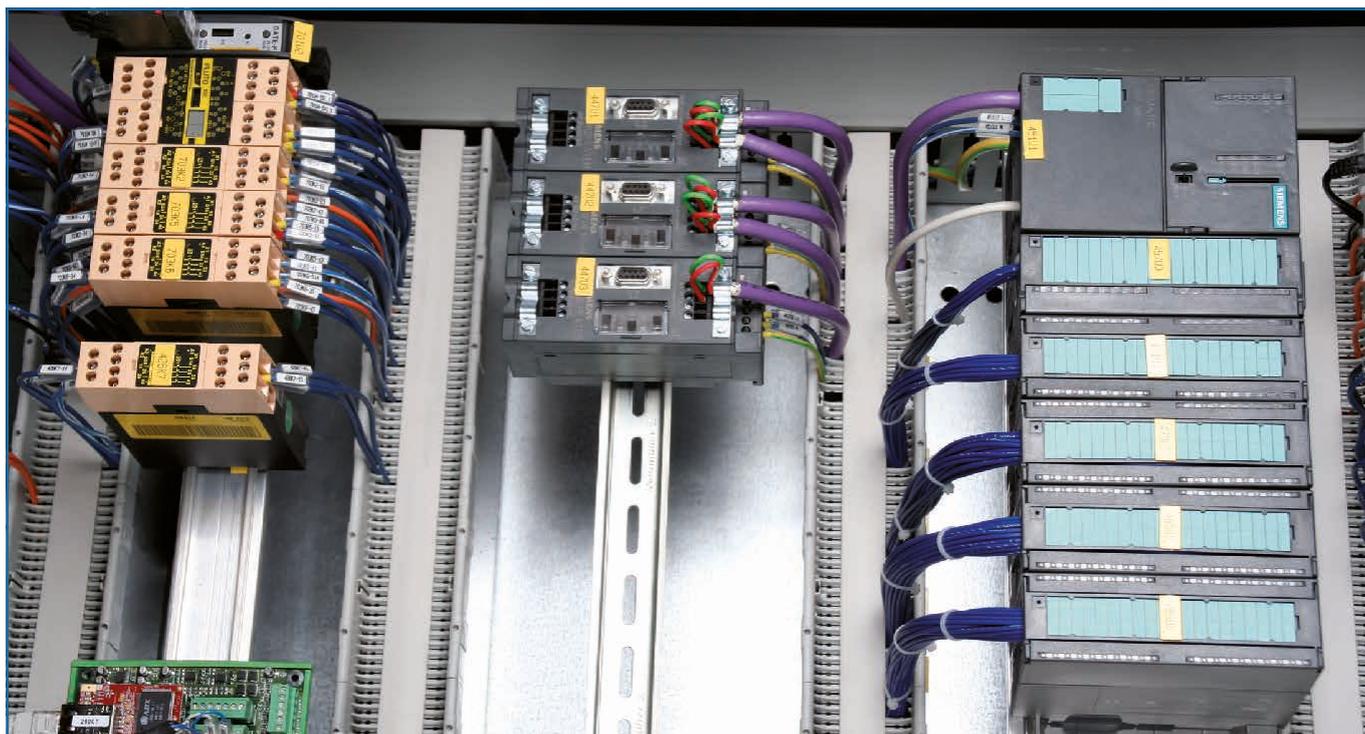
Ventilation



	PRODUCT	PAG.
	CABINET ACCESSORIES	
	Cabling system SRS	51
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1

CABINET ACCESSORIES



SRS SPACE SAVING CABLING SYSTEM (registered design)

Always attentive to our customers requirements, Ilinox has tuned a wiring system which, exploiting the idea of working on two levels, permits to recover space inside a cabinet, while maintaining the flexibility of the traditional system, thus cutting costs.

The system consists of few standardized elements that permit to cope with the most varied requirements. Using an inner plate as a base permits to shift from traditional wiring to the SRS system very simply and without having to keep to preset schemes, thus exploiting the whole space available inside the cabinet, as the need be.

SPACE RECOVERY

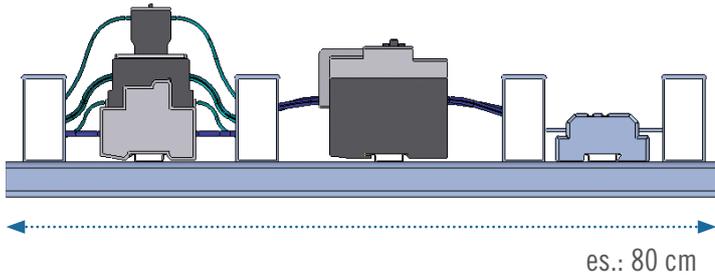
Reducing the space between equipment permits to recover up to 30% on traditional wiring; actually, the cableways provided with combtype cover for cable inlet from above, are set below the level of the components. This permits to recover approx. 3 cm on each row of components while taking advantage of the whole width of the plate.

FLEXIBILITY

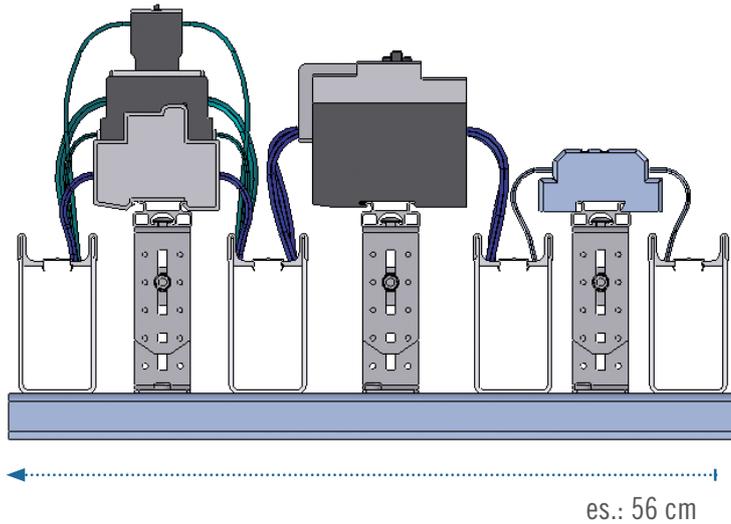
The inner plate permits to use the system only when true advantages are possible (equipment prearranged for assembling on DIN bars) Inverter of medium-big dimensions, switches and/or special equipment, can on the contrary be set directly on the inner plate. It is also possible to shift from a horizontal layout to a vertical or mixed one without constraints. Similarly to the traditional wiring, modifications are possible during manufacture and/or after the cabinet is field installed.

COST-EFFECTIVENESS

Space recovery permits to make use of cabinets featuring smaller sizes or a lower number of columns (if assembled in battery). Simple and user-friendly, the low number of components to be controlled enable considerable saving in terms of costs and assembling time.

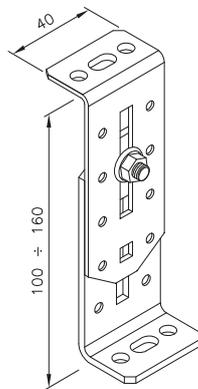


Cabling system traditional



Cabling system SRS

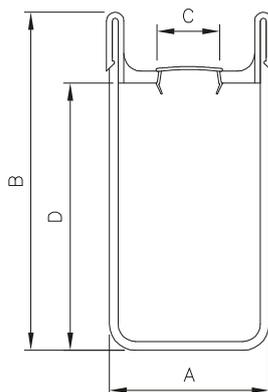
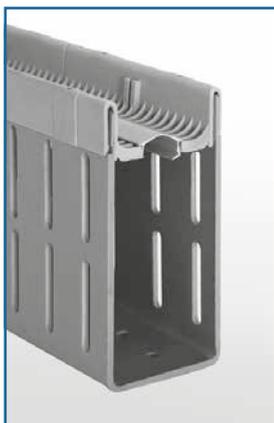
30%
SPACE SAVING



SUPPORT BRACKETS FOR DIN BARS

The support brackets for DIN bars are made from galvanized sheet sendzimir EN10142 and are height adjustable from 100 to 160 mm.

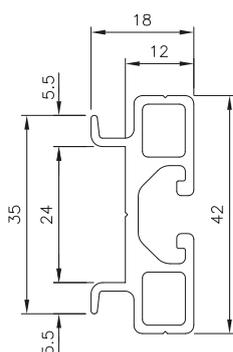
- **SRS-K100** - Delivered in kit of 10 brackets, complete with screws.



RACEWAYS WITH COMB-TYPE CABLE INLET

Raceway complete with combs for cables entrance from above and with cover to “streamline” the wiring. Grey PVC RAL 7038 execution, they come in bars 1,5m long. They can be coupled with the standard raceways commonly available from the trade, usable for cable raisers. The use of raceways with 100mm minimum height is recommended.

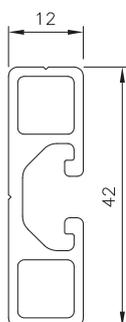
ITEM	A	B	C	D
SRS-C100 F	55	115	20	97



DIN SECTION BARS

Ω - shaped bars DIN EN50022 35x7,5, aluminium execution; besides adding great stiffness, their section permits assembling without the need for any drilling, by means of the anti-rotation, round head square neck screws, delivered with the support brackets. They come in 3m or 1,5m bars to be cut to the need.

- SRS-DIN1500
- SRS-DIN3000



MULTIPURPOSE BAR

Multipurpose aluminium bar, 30x12 section, smooth top side, for the assembling of equipment not requiring DIN sections; its section allows easy assembling to the inner plate by means of round head square neck screws delivered with the support brackets. They come in 3m or 1,5m bars to be cut to the need.

- SRS-PU1500 – multipurpose bar 1,5 m long
- SRS-PU3000 – multipurpose bar 3 m long



ROUND HEAD SQUARE NECK SCREWS

Roundhead square neck screws, galvanized steel M6x16 for the slot of the SRS-DIN bars. Delivered complete with self-locking indented flanged nuts, they come in 50 pcs. packs.

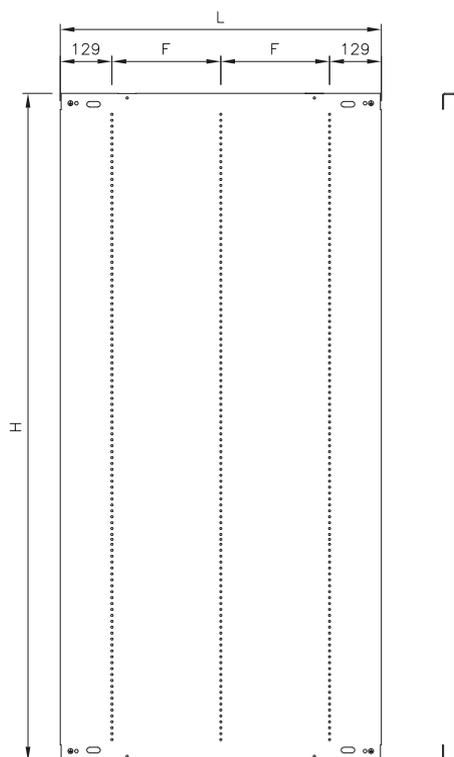
- VQSM6



THREAD FORMING SCREWS

Thread-forming trilobe screws M5, to fix the raceways and other accessories to the predrilled plates series PS; delivered in 100 pcs packs.

- VTRM5-100



INNER PLATES PS

Sendzimir EN10142 galvanized sheet execution, they are designed to permit using the whole width of the cabinet; particularly recommended for cabinets with removable sides.

The vertical drills are spaced 12,5mm and the numbered adhesive strips to apply on the plate provide accurate reference on the fixing of the brackets to support the component-bearing DIN bars.

The use of these plates for battery-mounted cabinets does not require intermediate plates since they can be connected directly one to another. Their width being the same as the cabinet inner space, we suggest to use the slide guides for side introduction.

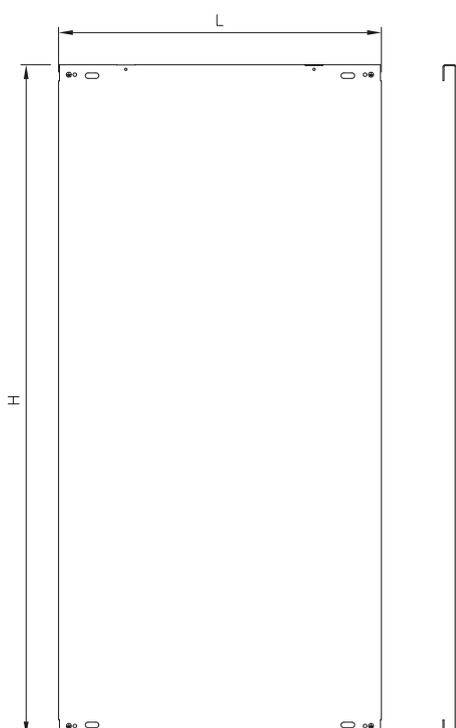
Their use as plates for traditional wiring is also possible.

When adopting the SRS space-saving wiring system, it not necessary to use the PS plates since traditional plates can be used by drilling where the brackets for DIN bars support have to be secured.

To join the plates in the case of battery-mounted cabinets, a jointing kit has to be ordered.

- **PSK001** – jointing kit for inner plates PS

ITEM	SIZES			CABINET NOMINAL SIZES	
	L	H	F	A	B
PS0617	608	1692	350	600	1800
PS0619	608	1892	350	600	2000
PS0817	808	1692	275	800	1800
PS0819	808	1892	275	800	2000
PS1017	1008	1692	375	1000	1800
PS1019	1008	1892	375	1000	2000
PS1217	1211	1692	318	1200	1800
PS1219	1211	1892	318	1200	2000



INNER PLATES TYPE PA

EN 10142 sendzimir galvanized plate execution, bent on all sides to achieve maximum stiffness: delivered in assembling kit, it is adjustable on the whole depth of the cabinet.

ITEM	SIZES		CABINET NOMINAL SIZES	
	L	H	A	B
PA0517	497	1692	600	1800
PA0519	497	1892	600	2000
PA0717	697	1692	800	1800
PA0719	697	1892	800	2000
PA0917	897	1692	1000	1800
PA0919	897	1892	1000	2000
PA1115	1100	1492	1200	1600
PA1117	1100	1692	1200	1800
PA1119	1100	1892	1200	2000
PA1515	1505	1492	1600	1600
PA1517	1505	1692	1600	1800
PA1519	1505	1892	1600	2000



INTERMEDIATE PLATE

Designed to enable assembling and disassembling even with inner plates already wired and assembled; sendzimir EN 10142 execution. Complete with all assembling accessories, in particular 2 stiffening plates that permit obtain, with the inner plates, a rigid single assembling plane. The plate so configured cannot be put in the most backwards position but rather before the rear uprights.

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

NOTE: the intermediate plate excludes the use of the partition baffle



SLIDE GUIDES

Designed and manufactured for easier introduction into the cabinet through the side, of inner plates formed by several modules, pre-assembled and wired, even of a considerable weight. The kit includes a bottom guide, the sliding rollers for application to the plate and the assembling screws. Six different lengths are available:

- **GSP03** - pair of guides for cabinet L=300
- **GSP04** - pair of guides for cabinet L=400
- **GSP06** - pair of guides for cabinet L=600
- **GSP08** - pair of guides for cabinet L=800
- **GSP10** - pair of guides for cabinet L=1000
- **GSP12** - pair of guides for cabinet L=1200
- **GSP16** - pair of guides for cabinet L=1600
- **GSP24** - pair of guides for composition L=2400

NOTE: The usage of the sliding guides reduce the useful space of the inner plate in the horizontal sides of 10 mm both top and bottom.



SECTION BARS FOR TRANSFORMER SUPPORT

Section bars to be used when heavy instruments are to be supported (e.g. transformers). Supplied by pairs, complete with assembling kit and featuring slots for wide adjustment.

- **ST0600** - pair of section bars for transformer support, for cabinets with nominal width 600 (max 600kg)
- **ST0800** - pair of section bars for transformer support, for cabinets with nominal width 800 (max 600kg)
- **ST1000** - pair of section bars for transformer support, for cabinets with nominal width 1000 (max 400kg)
- **ST1200** - pair of section bars for transformer support, for cabinets with nominal width 1200 (max 400kg)



ADJUSTABLE FEET

Cylindrical, thoroughly cleanable, TYPE 304 s/s execution

- **SA2000MX** - adjustable from 125 to 165 mm
- **SA2200MX** - adjustable from 165 to 205 mm

When the feet are not set directly to the cabinet but rather under the skirting and under the computer cabinet, the corresponding nut must be ordered as well:

- **SPM14** - nut M14 for foot

CABINET ACCESSORIES



SKIRTING

Simple and sturdy EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished and protected. Prearranged for cable inlet from the side, back and front sides and for possible application of feet; open bottom in contact with the floor; on request they can be delivered complete with bottom closing panel, which acts as cable rest as well. Protection degree is IP20 when the bottom closing panel is installed.

Can be delivered both in assembling kit and pre-assembled and are available in 100 and 200 mm height.

HEIGHT 100 MM.				HEIGHT 200 MM.			
ITEM	CABINET NOMINAL SIZES		BOTTOM CLOSING PANEL ITEM	ITEM	CABINET NOMINAL SIZES		BOTTOM CLOSING PANEL ITEM
	A	B			A	B	
ZX03104	300	400	PZ0304	ZX03204	300	400	PZ0304
ZX03105	300	500	PZ0305	ZX03205	300	500	PZ0305
ZX03106	300	600	PZ0306	ZX03206	300	600	PZ0306
ZX03108	300	800	PZ0308	ZX03208	300	800	PZ0308
ZX04104	400	400	PZ0404	ZX04204	400	400	PZ0404
ZX04105	400	500	PZ0405	ZX04205	400	500	PZ0405
ZX04106	400	600	PZ0406	ZX04206	400	600	PZ0406
ZX04108	400	800	PZ0408	ZX04208	400	800	PZ0408
ZX06104	600	400	PZ0604	ZX06204	600	400	PZ0604
ZX06105	600	500	PZ0605	ZX06205	600	500	PZ0605
ZX06106	600	600	PZ0606	ZX06206	600	600	PZ0606
ZX06108	600	800	PZ0608	ZX06208	600	800	PZ0608
ZX08104	800	400	PZ0804	ZX08204	800	400	PZ0804
ZX08105	800	500	PZ0805	ZX08205	800	500	PZ0805
ZX08106	800	600	PZ0806	ZX08206	800	600	PZ0806
ZX08108	800	800	PZ0808	ZX08208	800	800	PZ0808
ZX10104	1000	400	PZ1004	ZX10204	1000	400	PZ1004
ZX10105	1000	500	PZ1005	ZX10205	1000	500	PZ1005
ZX10106	1000	600	PZ1006	ZX10206	1000	600	PZ1006
ZX10108	1000	800	PZ1008	ZX10208	1000	800	PZ1008
ZX12104	1200	400	PZ1204	ZX12204	1200	400	PZ1204
ZX12105	1200	500	PZ1205	ZX12205	1200	500	PZ1205
ZX12106	1200	600	PZ1206	ZX12206	1200	600	PZ1206
ZX12108	1200	800	PZ1208	ZX12208	1200	800	PZ1208
ZX16104	1600	400	PZ0804 pz N° 2	ZX16204	1600	400	PZ0804 pz N° 2
ZX16105	1600	500	PZ0805 pz N° 2	ZX16205	1600	500	PZ0805 pz N° 2
ZX16106	1600	600	PZ0806 pz N° 2	ZX16206	1600	600	PZ0806 pz N° 2
ZX16108	1600	800	PZ0808 pz N° 2	ZX16208	1600	800	PZ0808 pz N° 2



INNER FAIRLEAD PLATE

The single piece fairlead plates are to be used when the cables are not expected to enter through the cabinet bottom and when higher guarantees of tightness are desired, particularly to dust.

ITEM	CABINET NOMINAL SIZES		ITEM	CABINET NOMINAL SIZES	
	A	B		A	B
PPCU0304	300	400	PPCU0804	800	400
PPCU0305	300	500	PPCU0805	800	500
PPCU0306	300	600	PPCU0806	800	600
PPCU0308	300	800	PPCU0808	800	800
PPCU0404	400	400	PPCU1004	1000	400
PPCU0405	400	500	PPCU1005	1000	500
PPCU0406	400	600	PPCU1006	1000	600
PPCU0408	400	800	PPCU1008	1000	800
PPCU0604	600	400	PPCU1204	1200	400
PPCU0605	600	500	PPCU1205	1200	500
PPCU0606	600	600	PPCU1206	1200	600
PPCU0608	600	800	PPCU1208	1200	800



MUTIPLE FAIRLEAD PLATES

Sectionalized fairlead plates (2 for cabinets with nominal depth 400mm and three parts for cabinet with nominal depth 500, 600 and 800 mm.).

Recommended when the inner plate is not in the farthest backwards position or when the cables inlet must be subdivided on several plates.

ITEM	CABINET NOMINAL SIZES		PLATE DIVISION	ITEM	CABINET NOMINAL SIZES		PLATE DIVISION
	A	B	PARTS		A	B	PARTS
PCX0304	300	400	2	PCX0804	800	400	2
PCX0305	300	500	3	PCX0805	800	500	3
PCX0306	300	600	3	PCX0806	800	600	3
PCX0308	300	800	4	PCX0808	800	800	4
PCX0404	400	400	2	PCX1004	1000	400	2
PCX0405	400	500	3	PCX1005	1000	500	3
PCX0406	400	600	3	PCX1006	1000	600	3
PCX0408	400	800	4	PCX1008	1000	800	4
PCX0604	600	400	2	PCX1204	1200	400	2
PCX0605	600	500	3	PCX1205	1200	500	3
PCX0606	600	600	3	PCX1206	1200	600	3
PCX0608	600	800	4	PCX1208	1200	800	4

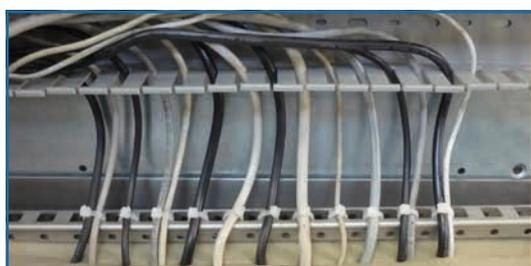


SASH TYPE FAIRLEAD PLATES

Handy and fast system for cable inlet through the skirting. Not recommended when high tightness degree is required, mainly from dust, or when the fairlead plate can be subject to direct sprays. Sash fairlead plates are delivered separated in several parts.

The "CABLE ANCHORING CROSS MEMBER" is recommended for cables fixing.

ITEM	CABINET NOMINAL SIZES		PLATE DIVISION	ITEM	CABINET NOMINAL SIZES		PLATE DIVISION
	A	B	PARTS		A	B	PARTS
PCG0304	300	400	2	PCG0804	800	400	2
PCG0305	300	500	3	PCG0805	800	500	3
PCG0306	300	600	3	PCG0806	800	600	3
PCG0308	300	800	3	PCG0808	800	800	3
PCG0404	400	400	2	PCG1004	1000	400	2
PCG0405	400	500	3	PCG1005	1000	500	3
PCG0406	400	600	3	PCG1006	1000	600	3
PCG0408	400	800	3	PCG1008	1000	800	3
PCG0604	600	400	2	PCG1204	1200	400	2
PCG0605	600	500	3	PCG1205	1200	500	3
PCG0606	600	600	3	PCG1206	1200	600	3
PCG0608	600	800	3	PCG1208	1200	800	3



CABLE ANCHORING CROSS MEMBER

For tying cables that pass through the sash closing plates. Delivered complete with assembling screws.

ITEM	LENGTH	CABINET NOM. SIZES
	L	A
TAC0300	260	300
TAC0400	360	400
TAC0600	560	600
TAC0800	760	800
TAC1000	960	1000
TAC1200	1160	1200



DOOR CROSS ELEMENTS

Section 20x20mm.

Available for all cabinet doors. Designed to be fixed directly to the inner frame by means of thread-forming trilobe screws M5 and by adhesive to the door.

Ideal to secure raceways, sheaths or cables and/or to stiffen doors with wide openings.

- **PRP256** - cross elements for doors with nominal width 600
- **PRP258** - cross elements for doors with nominal width 800
- **PRP250** - cross elements for doors with nominal width 1000



WORK TABLE TOPS

TYPE 304 s/s execution, 2B finish, they are available in 3 width and suitable for installation inside cabinets, either compact or modular.

To be fixed to the inner door frames, they come complete with support rods.

- **PL0600** - for doors width 600
- **PL0800** - for doors width 800
- **PL1000** - for doors width 1000



DIAGRAM HOLDING POCKET

Delivered in assembling kit, available in 6 models:

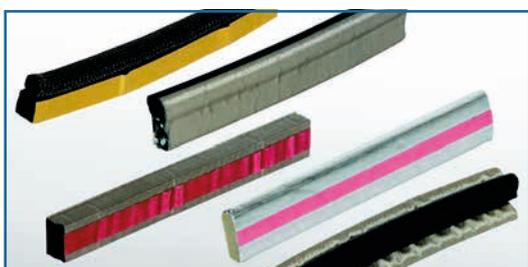
- **SG109** - orange ABS, for documents size A4
- **SG108** - TYPE 304 s/s, for documents size A4
- **SG110** - TYPE 304 s/s for documents size A3
- **SG600I** - sendzimir L.600. Bolted, for door L.600
- **SG800I** - sendzimir L.800. Bolted, for door L.800
- **SG1000I** - sendzimir L.1000. Bolted, for door L.1000



ANTI-CLOSE DEVICE

TYPE 316 s/s execution, designed to prevent the door accidental closing. Delivered in assembling kit.

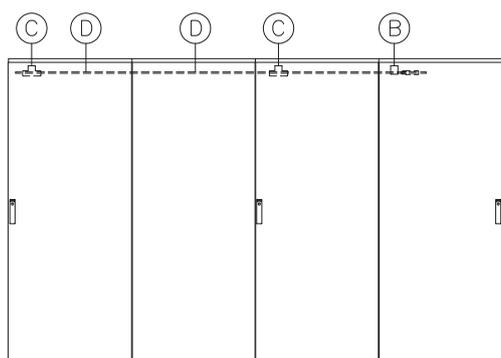
- **DAC02** - anti-close device for cabinet doors



ELECTROCONDUCTIVE GASKET

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

The gasket elasticity is obtained by various foamed materials; silicones, neoprene or epdm, according to the operating conditions.



INTERLOCKS

Mechanical system permitting to set a priority in the opening of the doors on battery-mounted cabinets.

To be ordered according to the composition, and positioned as shown in the figure.

MKP.PR primary interlock (B):

Mechanical drive to be set to the door of the module for disconnecter block (primary), to control the opening of the doors of battery-mounted cabinets (secondary).

MKP.SE secondary interlock (C):

To be set on all the secondary doors whose opening is slaved to the opening of the first door.

For the modules with two doors (e.g. the modules 1200 or 1600), 2 units are to be considered.

The opening direction of the door is not binding.

Transmission rods (D)

Necessary to transfer the locking or unlocking command from the primary door to the secondary ones.

A rod must be ordered for each module except the disconnecter block module:

- **MKP.AR06** - transmission rod for cabinets nominal width 600 mm.
- **MKP.AR08** - transmission rod for cabinets nominal width 800 mm.
- **MKP.AR10** - transmission rod for cabinets nominal width 1000 mm.
- **MKP.AR12** - transmission rod for cabinets nominal width 1200 mm.
- **MKP.AR16** - transmission rod for cabinets nominal width 1600 mm.

NOTE: The upper cross members must be used to install the interlocks on the cabinets CX-A, (see accessories CX-A)

- **TRS03CXA** - upper cross members for cable raisers width 308
- **TRS04CXA** - upper cross members for cable raisers width 408
- **TRS06CXA** - upper cross members for cabinets width 608
- **TRS08CXA** - upper cross members for cabinets width 808
- **TRS10CXA** - upper cross members for cabinets width 1008
- **TRS12CXA** - upper cross members for cabinets width 1211





HOISTING BARS

Used to move pre-wired battery-mounted cabinets.

Made of galvanized sheet 3mm (RAL1021).

thick. The system is formed by two section bars the same length as the cabinets and by anchoring brackets to be set instead of the hosting eyebolts and permits safe hoisting of cabinets weighing 1250 kg/m.



SECTION BARS		
ITEM	LENGTH	CAP. KG
BS160	1600	2.000
BS200	2000	2.500
BS220	2200	2.750
BS240	2400	3.000
BS260	2600	3.250
BS280	2800	3.500
BS300	3000	3.750
BS320	3200	4.000
BS340	3400	4.250
BS360	3600	4.500
BS380	3800	4.750

SECTION BARS		
ITEM	LENGTH	CAP. KG
BS400	4000	5.000
BS420	4200	5.250
BS440	4400	5.500
BS460	4600	5.750
BS480	4800	6.000
BS500	5000	6.250
BS520	5200	6.500
BS540	5400	6.750
BS560	5600	7.000
BS580	5800	7.250
BS600	6000	7.500

- **BSK** – kit including no. 4 anchoring brackets to the cabinet
A kit must be ordered per each cabinet forming the battery

System tested by:



UNIVERSITÀ DEGLI STUDI DI PARMA
DIPARTIMENTO DI INGEGNERIA INDUSTRIALE



HOISTING EYEBOLTS

Available either in galvanized iron or s/s, they are delivered in 4-pcs kit and are recommended when single modules having a limited weight are to be transported. Max. capacity 450 kg each pair of eyebolts.

- **GZ04MX** - Kit with no. 4 galvanized eyebolts for cabinets L.600-800-1000-1200
- **GIO4MX** - Kit with no. 4 s/s eyebolts for cabinets L.600-800-1000-1200



CAGE NUTS

Front introduction cage nuts, available with M6 and M8 threads, particularly sturdy and easy to assemble.

- **DGIFM6** - Package with 50 cage nuts M6
- **DGIFM8** - Package with 50 cage nuts M8



SELF TAPPING SCREWS

Self-tapping trilobe screws M5, particularly handy they are recommended for fasteners requiring pre-drills \varnothing 4.6 on frame and section bars.

- **VA05** – Package with 50 trilobe self-tapping screws M5



LAMP

- **Absorbed power:** 11 W (75W vacuum lamp)
- **Lighting power:** 900 Lm
- **Bulb:** low-consumption, socket 2G7 10.000 h
- **Switch:** ON/OFF switch for lighting lamps (PIR motion sensor available on request)
- **Clamp:** 22,5 mm² with pull-prevention device
- **Torque:** 0,8 Nm max
- **Fixing:** by screw, M5, distance 300 mm
- **Housing:** Plastica UL94 V-D, grigio luminoso
- **Sizes:** 345 x 91 x 40 mm
- **Assembling position:** narrow side/ large side
- **Temperature of work environment:** -20°C +50° C (-4°F +122°F)
- **Protection degree:** IP20

Fit for use in confined control boards with components high density, they are delivered complete with fixing bracket and screws for easy application anywhere inside the control board. Available both without tap and with different types of integrated taps. A cross member must be provided for CX-A and CC cabinets.



CODE	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



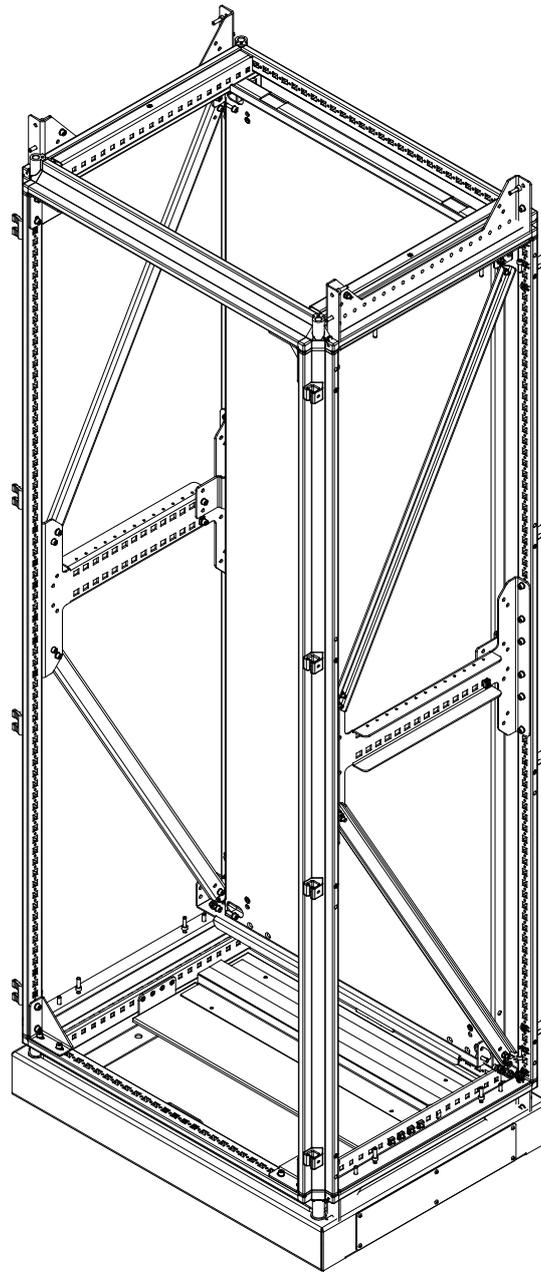
TAPS

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

The taps, without lamps, are available in several versions and must be secured to 35mm DIN guides (to be ordered separately), and connected by screwless press-on terminals.



CODE	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	



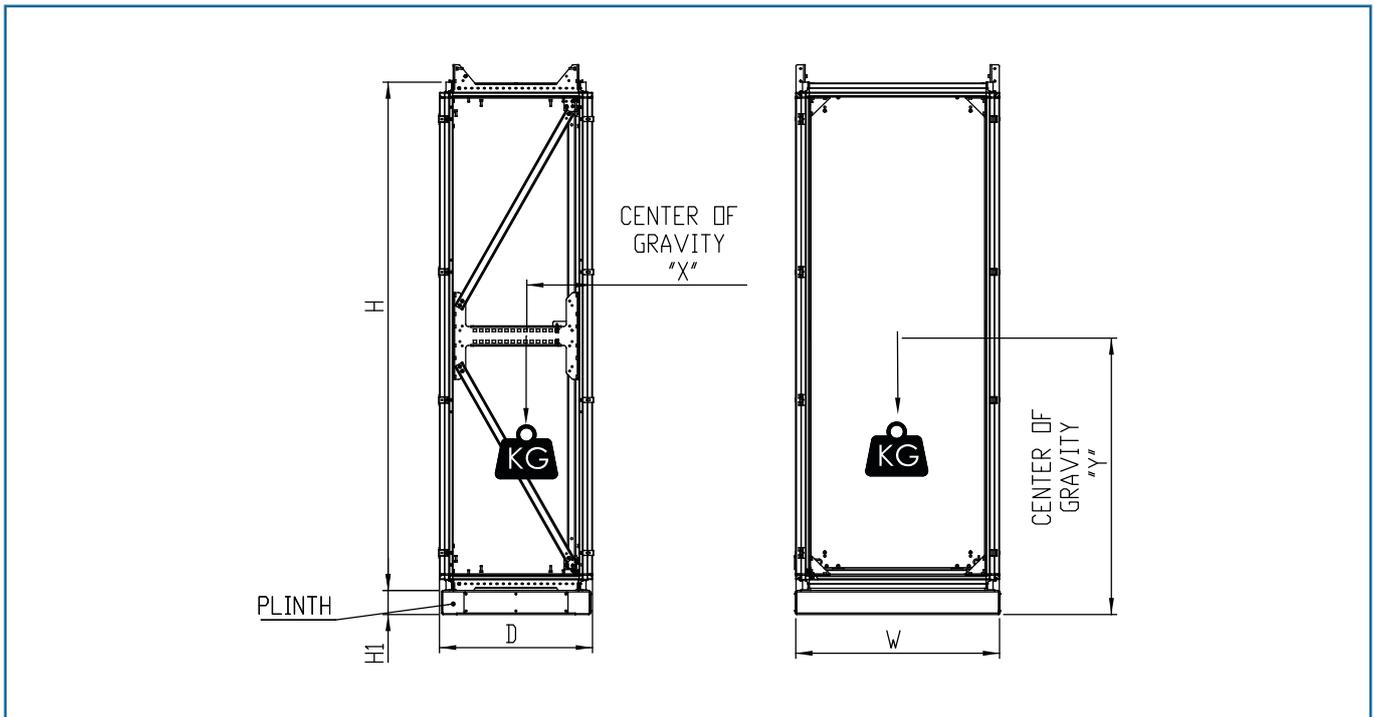
EARTHQUAKE KIT COMPONENTS

The performed test procedure includes, as specified by IEEE-693 (2018), both resonance search test and seismic simulation test.

The seismic tests were performed referring to 3 seismicity levels.

The seismic qualification tests performed as part of this test sequence were designed to conform to the Required Response Spectrum (RRS) specified by IEEE-693 (2018).

Test was conducted simultaneously in the longitudinal, traversal and vertical displacement degrees of freedom (dof), with each dof excited by an independently generated table motion profile. Response spectrum in the vertical axis shall have an acceleration of 80% of that in the horizontal axis.



MX MODELS EARTHQUAKE TESTED

MODEL	DIMENSIONS (WxHxD) MM	COMPONENTS	MAX INSTALLED WEIGHT (KG)	STANDARD LEVEL IT	STANDARD LEVEL EU	PGA TESTED (HORIZONTAL / VERTICAL) G	CENTER OF GRAVITY FOR APPLIED WEIGHT (X/Y) MM	PLINTH (H) MM
MX0886	800x1800x600	STANDARD	100	ZONA 2	ZONE 3	0,25	200 / 1100	100
MX0888	800x1800x800	STANDARD	100	ZONA 2	ZONE 3	0,25	200 / 1100	100
MX1086	1000x1800x600	STANDARD	100	ZONA 2	ZONE 3	0,25	200 / 1100	100
MX1088	1000x1800x800	STANDARD	100	ZONA 2	ZONE 3	0,25	200 / 1100	100
MX0806	800x2000x600	STANDARD	100	ZONA 2	ZONE 3	0,25	200 / 1100	100
MX0808	800x2000x800	STANDARD	100	ZONA 2	ZONE 3	0,25	200 / 1100	100
MX1006	1000x2000x600	STANDARD	100	ZONA 2	ZONE 3	0,25	200 / 1100	100
MX1008	1000x2000x800	STANDARD	100	ZONA 2	ZONE 3	0,25	200 / 1100	100
MX0886-10EQ	800x1800x600	WITH EARTHQUAKE KIT	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	100
MX0886-20EQ	800x1800x600	WITH EARTHQUAKE KIT	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	200
MX0888-10EQ	800x1800x800	WITH EARTHQUAKE KIT	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	100
MX0888-20EQ	800x1800x800	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	200
MX1086-10EQ	1000x1800x600	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	100
MX1086-20EQ	1000x1800x600	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	200
MX1088-10EQ	1000x1800x800	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	100
MX1088-20EQ	1000x1800x800	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	200
MX0806-10EQ	800x2000x600	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	100
MX0808-10EQ	800x2000x800	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	100
MX1006-10EQ	1000x2000x600	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	100
MX1008-10EQ	1000x2000x800	WITH EAR	500	ZONA 1	ZONE 4	1/0.8	260 / 1100	100

NOTES: Not Permitted: Double Door, Window Door, Inner Door, Heat Conditioner, Sliding Guides. Side Panels and Inner Plates should be required separately.



PARTITION Baffles



DOUBLE SIDE DOORS



GLASS DOORS



SKIRTING



ACCESSORIES FOR DISTRIBUTION BOARDS

Our cabinets can easily be turned into control boards for low voltage final distribution when high protection degree, high corrosion strength and high hygienic qualities are required, besides an attractive look.

Starting from simple assembling kits, several configurations are possible which constantly guarantee front accessibility to the components inside.

Are available:

- Glazed windows with laminated glass
- Cable rise space
- Partition baffles
- Component assembling frame
- Rests for raceways, both vertical and horizontal
- Front panel (full and drilled)
- DIN bars with related adjustable supports
- Partial inner plates with relevant assembling kits

In addition to the other more generic accessories available for the cabinets.

The proper use of standard partition baffles and/or partial inner plates permits to achieve an isolation degree Forma 2 (kits for higher isolation degree available on request).



COMPONENTS MOUNT FRAME

The component mount frame is required to transform our cabinet into distribution boards. The frame consists of two vertical section bars, two horizontal cross members and all the necessary screws and bolts; it is prearranged for the assembling of front panels, supports for DIN bars and the kits for raceways support.

- **TM0618MX**: component mount frame for cabinets MX068..
- **TM0818MX**: component mount frame for cabinets MX088..
- **TM1018MX**: component mount frame for cabinets MX108..
- **TM0620MX**: component mount frame for cabinets MX060..
- **TM0820MX**: component mount frame for cabinets MX080..
- **TM1020MX**: component mount frame for cabinets MX100..

- **TM0618**: component mount frame for cabinets CX068..
- **TM0818**: component mount frame for cabinets CX088..
- **TM1018**: component mount frame for cabinets CX108..
- **TM0620**: component mount frame for cabinets CX060..
- **TM0820**: component mount frame for cabinets CX080..
- **TM1020**: component mount frame for cabinets CX100..

- **TM0616CC**: component mount frame for cabinets CC1216
- **TM0816CC**: component mount frame for cabinets CC1616
- **TM0618CC**: component mount frame for cabinets CC1218
- **TM0818CC**: component mount frame for cabinets CC818
- **TM1018CC**: component mount frame for cabinets CC1018

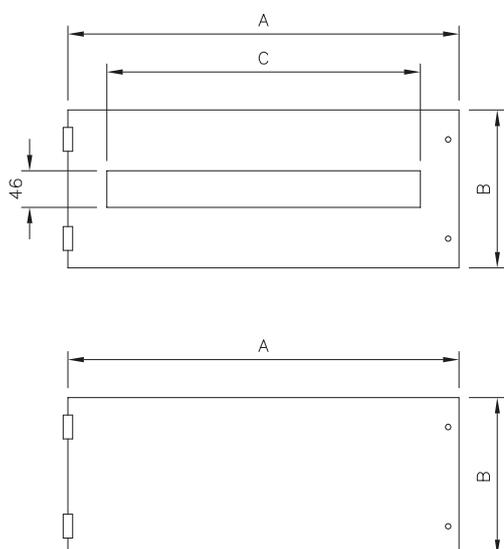
For double door cabinets L. 1200 and L. 1600, use two frames 600 and 800, respectively, setting-in the central upright:

- **MMX18**: Central upright for MX cabinets, height 1827
- **MMX20**: Central upright for MX cabinets, height 2027
- **MCX18**: Central upright for CX cabinets, height 1800
- **MCX20**: Central upright for CX cabinets, height 2000
- **MCC16**: Central upright for CC cabinets, height 1640
- **MCC18**: Central upright for CC cabinets, height 1840

PANELS

The curtain front panels, hinged on one side and bolted on the other, are available in three heights: 200, 400, and 600 mm. They can be drilled or full; the latter can be drilled to drawing, on demand.

The distance between the panels and the inside of the door can be adjusted to two positions: 70 and 100 mm.



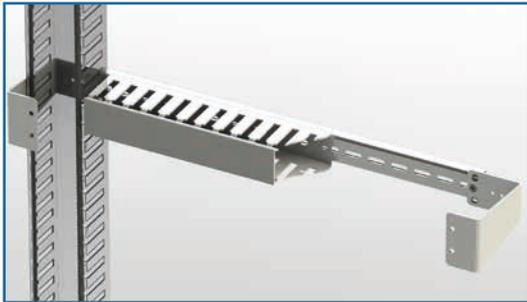
DRILLED PANELS						SOLID PANELS			
ITEM	A	B	C	No. Of modules	for frames nom. width	ITEM	A	B	for frames nom. width
PMF0620	480	200	396	22	600	PMC0620	480	200	600
PMF0640	480	400	396	22	600	PMC0640	480	400	600
PMF0660	480	600	396	22	600	PMC0660	480	600	600
PMF0820	680	200	594	33	800	PMC0820	680	200	800
PMF0840	680	400	594	33	800	PMC0840	680	400	800
PMF0860	680	600	594	33	800	PMC0860	680	600	800
PMF1020	880	200	792	44	1000	PMC1020	880	200	1000
PMF1040	880	400	792	44	1000	PMC1040	880	400	1000
PMF1060	880	600	792	44	1000	PMC1060	880	600	1000



SUPPORTS WITH DIN BARS

Delivered with the standard drilled panels, they can be ordered separately for the assembling of non standard equipment or to be accommodated behind full panels. Prearranged to accommodate vertical raceways. Complete with a pair of sturdy supports they are delivered with DIN bar and relevant bolts and screws.

- **SDM06** - support with bar for cabinets nominal width 600
- **SDM08** - support with bar for cabinets nominal width 800
- **SDM10** - support with bar for cabinets nominal width 1000



RACEWAYS ASSEMBLING KIT

Formed by two side rests on which the vertical raceways will be fixed, and a connecting bar for the horizontal raceways, as well as the corresponding assembling screws.

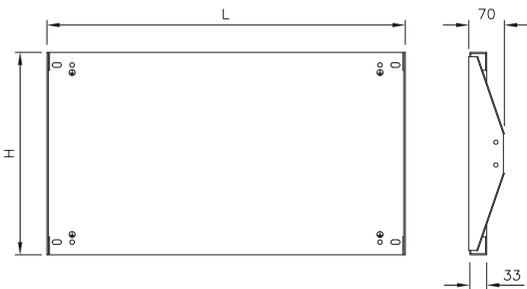
- **TRSC06** - cross member for raceways in cabinets with nomin. width 600
- **TRSC08** - cross member for raceways in cabinets with nomin. width 800
- **TRSC10** - cross member for raceways in cabinets with nomin. width 1000



PARTIAL INNER PLATES

Sendzimir sheet execution (stainless steel on request), they have the same heights as the front panels they have to match. Designed to accommodate the equipment that cannot be placed on the front DIN bar. The use of the partial inner plates permits to achieve an isolation degree Forma 2.

ITEM	L	H	for cabinets nom. width
PA0502	500	200	600
PA0504	500	400	600
PA0506	500	600	600
PA0702	700	200	800
PA0704	700	400	800
PA0706	700	600	800
PA0902	900	200	1000
PA0904	900	400	1000
PA0906	900	600	1000



No use of partial inner plates is envisaged in cabinets CC

To set in place the partial plates, the use of depth cross members for the type of cabinet in use is required; this permits to place the partial plates in the most appropriate position:

- **CTP05MX** - pair of cross members for MX depth 518
- **CTP06MX** - pair of cross members for MX depth 618
- **CTP08MX** - pair of cross members for MX depth 818
- **PRF254CX** - pair of cross members for CX depth 400
- **PRF255CX** - pair of cross members for CX depth 500
- **PRF256CX** - pair of cross members for CX depth 600



Wake-up! We give value to time.

Enduring functionality and safety.

Planning and design quality, quality of materials and manufacture, in other words embracing quality.

For a life-long guaranteed quality of our products, each model undergoes wearing tests for mechanical strength.

	PRODUCT	PAG.
COMPUTER CABINETS & LECTERNS		
	Computer cabinets APC	70
	Accessories for Computer cabinets	73
	Console CS	76
	Lecterns QP	78
	Accessories for Lecterns	80

2

COMPUTER CABINETS & LECTERNS



CASTERS



PULL-OUT SHELF



EXTRACTABLE PLANE FOR KEYBOARD



FIXED CONSOLE



COMPUTER CABINET APC

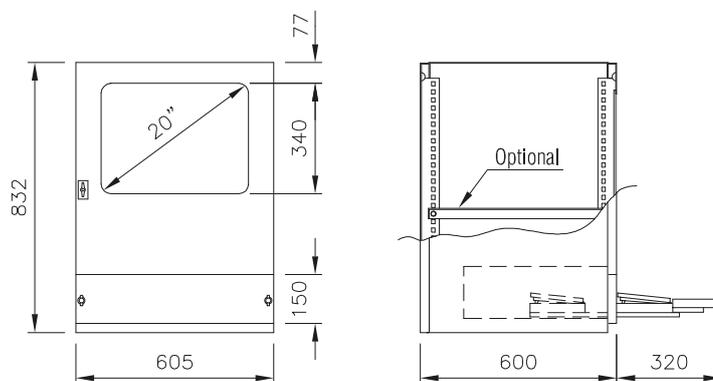
- Made of EN 1.4307 (TYPE 304L) s/s, satin- finishing (roughness Ra < 0.38 micron).
- Self-bearing frame, closed, welded in inert atmosphere. All edges feature 25 mm spaced drills to accommodate front setting M8 and M6 cages for accessories fixing.
- Right-hand hinged front doors, s/s inner hinges. 120° opening as per CE EN 60204-1. The upper door is for video protection and includes a laminate safety glass, 3+3 mm thick for videos ranging from 14" to 20" in size depending on the type and position of the screen. The lower door is full and rests 28 mm above the frame bottom edge 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 as tightness and leak-proof seal. The rear panel can be replaced by a hinged door, on request.
- Protection degree: IP65
- Heat dissipation: when the operating conditions are not too heavy (one PC with screen and printer for a total of 300 W), with Δt 15°C and 3 sides and the ceiling of the cabinet free, the surface can dissipate all of the installed power. For more detailed calculations, see section "CONDITIONING AND VENTILATION".



COMPUTER CABINETS APC608TE

Single front door base cabinet with pull-out keyboard table and no lower compartment for printer.

The pull-out table, for keyboard fixing (max sizes 480x190 mm) when in the open position allows the use of the keyboard while maintaining the IP20 protection degree for the cabinet. The front board of the pull-out table, tilting, can be used as mouse rest.



 **IP65** EN 60 529

 EN 60204-1 89/392/EEC

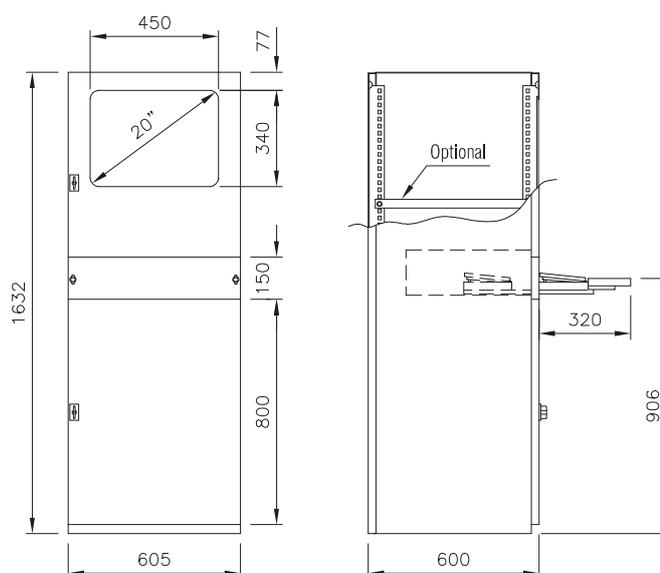


COMPUTER CABINETS APC616TE

Two front doors base cabinet with pull-out keyboard table and lower compartment for printer housing.

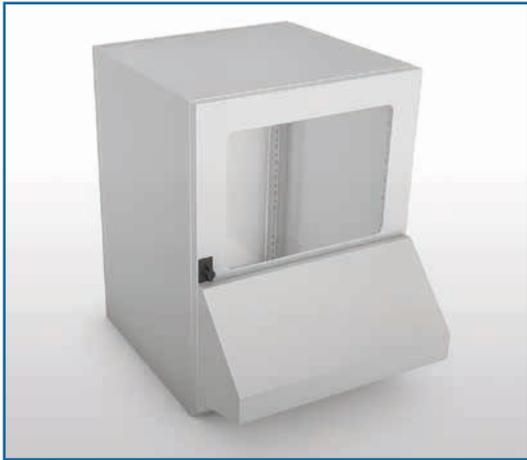
The pull-out plane, for keyboard fixing (max sizes 480x190 mm) when in the open position allows the use of the keyboard while maintaining the IP20 protection for the cabinet. The front board of the pull-out panel, tilting, can be used as mouse rest.

The lower compartment can accommodate shelves, drawers, inner plates or 19" rack section irons, all optional and available on request.



 **IP65** EN 60 529

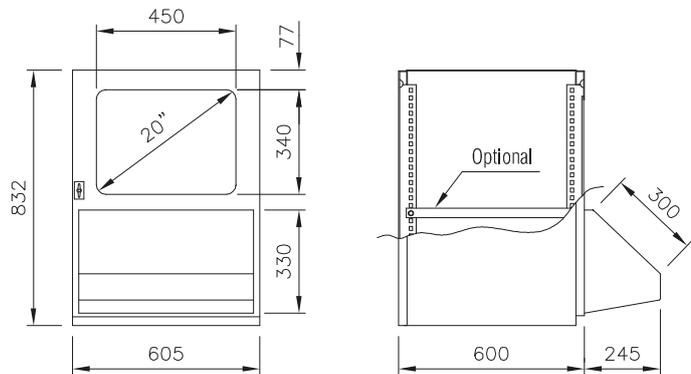
 EN 60204-1 89/392/EEC



COMPUTER CABINET APC608C

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

The console can be used to support exposed conventional keyboards or to accommodate recessed industrial keyboards (the console is usually delivered blind: drilling, if the need be, is possible if requested with the order).



IP65 EN 60 529



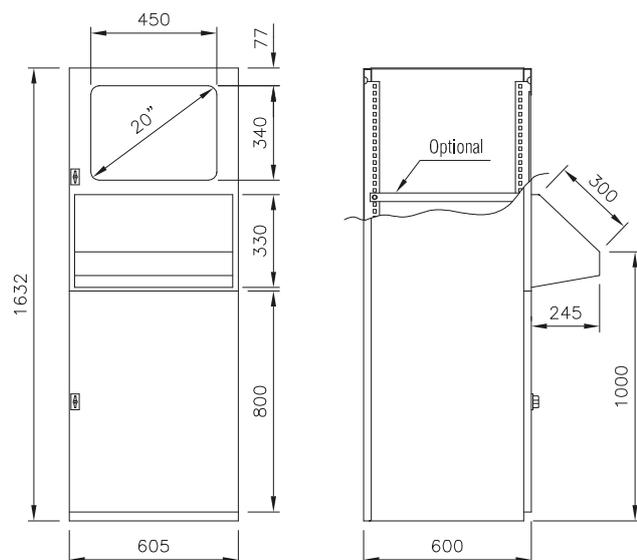
EN 60204-1 89/392/EEC



COMPUTER CABINETS APC616C

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

The console can be used to support exposed conventional keyboards or to accommodate recessed industrial keyboards (the console is usually delivered blind: drilling, if the need be, is possible if requested with the order).



IP65 EN 60 529



EN 60204-1 89/392/EEC



PAIR OF STIRRUPS FOR VIDEO FIXING ASV

Designed to secure the base of the tabletop videos to the rest surface. Suitability should be checked before purchase, making sure the base of the video is sturdy enough to allow securing it, and the sizes are appropriate.

- **ASV** – video fixing stirrup



HORIZONTAL PARTITIONS ASP066

TYPE 304 s/s execution, 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** – horizontal partition.



PULL-OUT SHELF APE66

Pull-out drilled shelf for cabinet 600 x 600 mm. Same features as the shelf above, set on fully pull-out guides, it is the ideal housing for cut-sheet printers fitted with paper tray, or for lined printers with printer holder (from computer shops). Shelf capacity 45 Kg.

- **APE66** - pull-out plane.



FIXED SHELF APF66

DTo support screens, CPU, fixed printers and all that doesn't require frequent pulling out; drilled slots to allow fixing the elements to be supported as well as improve air flow inside the cabinet. Installation by screws delivered with the cabinet that, by matching the vertical slots with the slots in the uprights enable a perfect adjustment on the whole length.

- **APF66** – fixed plane



SET OF FOUR FASTENERS FOR WALL MOUNT **SP020**

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

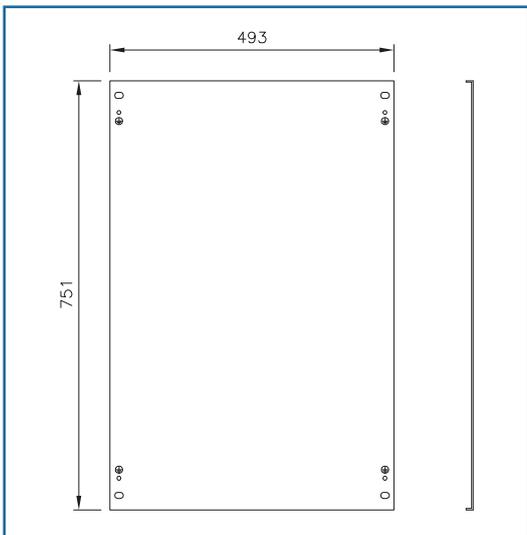
- **SP020** - no. 4 fasteners for wall mount



REAR DOOR **P0616S**

TYPE 304 s/s execution, fine satin-finished and protected, it can replace the rear panel in Items APC616C and APC616TE.

- **P0616S** - rear door



INNER PLATE **PA0575**

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

- **PA0575** - inner plate



SET OF CASTERS **RPF080**

No. 4 grey rubber casters, two of which have a double-action brake. TYPE 304 s/s support. Capacity 50 kg each wheel.

- **RPF080** - kit n. 4 casters

ACCESSORIES FOR COMPUTER CABINETS

Adjustable Feet



Skirting



Diagram Holding Pockets



Electroconductive Gasket



Lamps



Taps



IN THE SECTION "ACCESSORIES FOR CABINETS"

Cable Glands



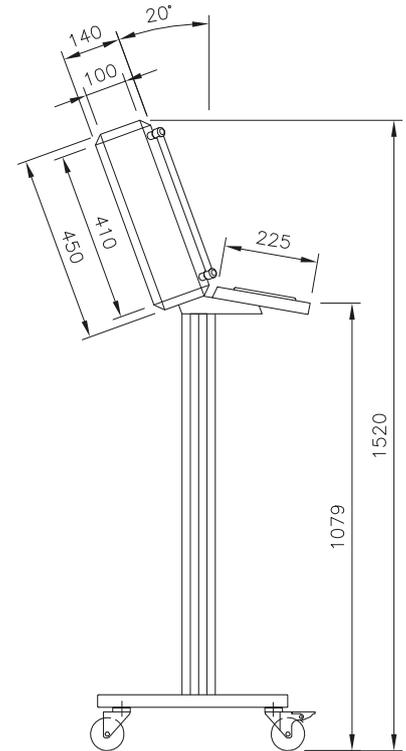
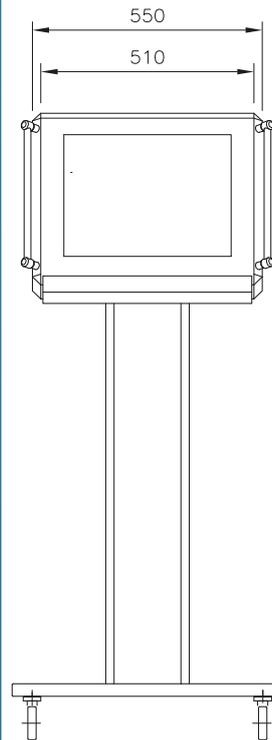
IN THE SECTION "AIR CONDITIONING"

Air Conditioning



Ventilation





CONTROL BOX



PLANE FOR KEYBOARD



PEDESTAL



HANDLE



CONSOLE CSD550J

The console CSD550J is formed by modular elements:

- control box
- keyboard rest
- pedestal with casters
- handles for displacement.

The absence of sharp corners, the ergonomic line, make this item fit for use in environments where stringent hygienic-sanitary standards must be complied with.

The console being formed by various elements, it can be configured in different ways according to the need; for instance, without wheels, or without keyboard rest; also, the order can be placed for the control boxes only, to be combined with a hanging system.

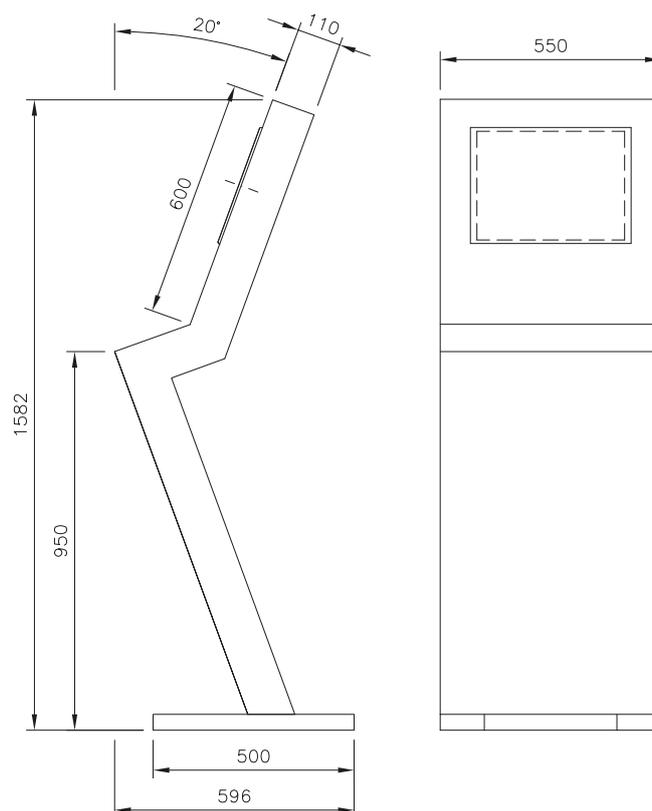
All EN 1.4307 (TYPE 304L), s/s execution, EN 1.4404 (TYPE 316L), s/s satin finished scotch brite available on request.

The box can accommodate an operator interface maximum dimensions 450x350x120 mm.; accessibility to the rear area is assured by a bolted panel.

Opening at the bottom of the column for an eventual cables entry.
Silicone seal.

Dimensions other than the standard ones are available on request.

Protection degree IP54 to EN 60 529.



CONSOLE CSD550Z

EN 1.4307 (TYPE 304L) s/s execution, satin-finished scotch brite and protected, EN 1.4404 (TYPE 316L), s/s execution available on request; provided blind and on demand with drawing split or porthole of required dimensions (maximum dimensions 480x530x90 mm). Possibility of installing an eventual keyboard.

Smart, compact and essential, no flat surfaces to avoid filth build-up while facilitating clearing; rear area accessible by taking down a bolted panel.

The rest base, which provides stability, is prearranged for the application of casters.

Silicone seal.

Dimensions other than the standard ones are available on request.

Protection degree IP44 to EN 60 529; higher protection degrees available on request.



SKIRTING



ELECTROCONDUCTIVE GASKET



DIAGRAM HOLDING POCKETS

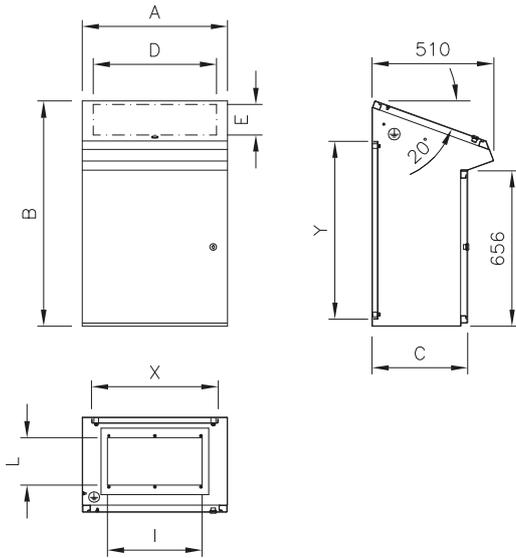


ADJUSTABLE FEET



LECTERNS

- Material: EN 1.4307 (TYPE 304L) s/s satin-finished scotch brite and protected on one side, thickness: doors 20/10 envelope 15/10.
- Enclosure obtained from a single sheet.
- Fairlead plates with seal.
- Full doors, top opening with supporting rods (for L.1200 and L.1600 n.2 supporting rods).
- Box-type door locks with 3-point transmission rods.
- Inner hinges, s/s execution, 120° opening as per CEI EN 60204-1 recommendations.
- Foamed polyurethane seal.
- Inner plate made of EN10142 sendimir galvanized sheet, secured to the bottom of the enclosure by s/s stud bolts and supported by suitable ABS rests that relieve the stud bolts of the weight of the plate and of the equipment fitted.
- Prearranged for earthing according to the regulations in force.
- Protection degree IP66 for single door lecterns, IP65 for 2-door lecterns.



ITEM	OUTSIDE SIZES			USEFUL SURFAACE		CABLE WAY		INNER PLATE	
	A	B	C	D	E	I	L	X	Y
QP0600	608	950	400	516	375	396	200	530	750
QP0800	808	950	400	716	375	596	200	730	750
QP1000	1008	950	400	916	375	796	200	930	750

IP66 EN 60 529



TYPE NEMA 4X, 12, 1, 4

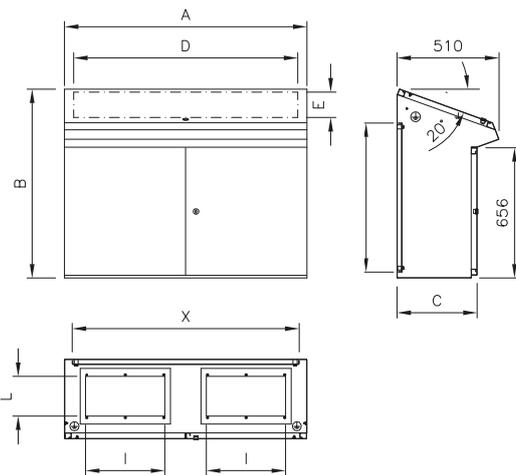
Standard UL508A - UL50 Standard 250



EN 60204-1

89/392/EEC

UL certification to be requested with the order



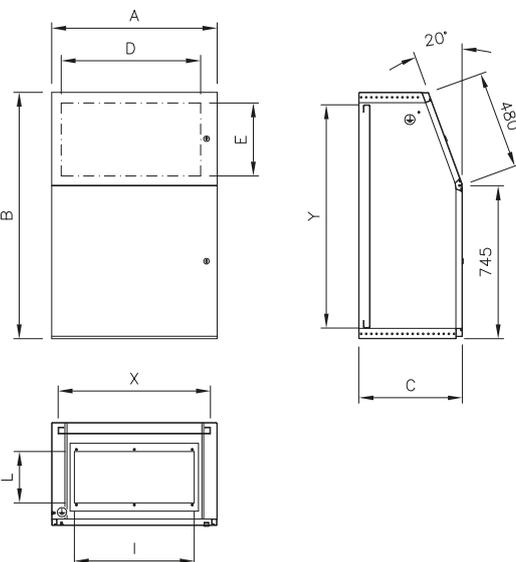
ITEM	OUTSIDE SIZES			USEFUL SURFAACE		CABLE WAY		INNER PLATE	
	A	B	C	D	E	I	L	X	Y
QP1200	1211	950	400	1119	375	396	200	1113	750
QP1600	1611	950	400	1519	375	596	200	1533	750

IP65 EN 60 529



EN 60204-1

89/392/EEC



ITEM	OUTSIDE SIZES			USEFUL SURFAACE		CABLE WAY		INNER PLATE	
	A	B	C	D	E	I	L	X	Y
QP0612	600	1200	500	474	380	380	250	537	1088
QP0812	800	1200	500	674	380	580	250	737	1088

IP66 EN 60 529



EN 60204-1

89/392/EEC

ACCESSORIES FOR LECTERNS



Adjustable Feet



Skirting



Diagram Holding Pockets



Electroconductive Gaskets



Lamps



Taps



IN THE SECTION "ACCESSORIES FOR COMPUTER CABINETS"

Casters



IN THE SECTION "ACCESSORIES FOR SMALL CABINETS"

Cable Glands



Over-Doors



Gas-Operated Springs



Grip Handles



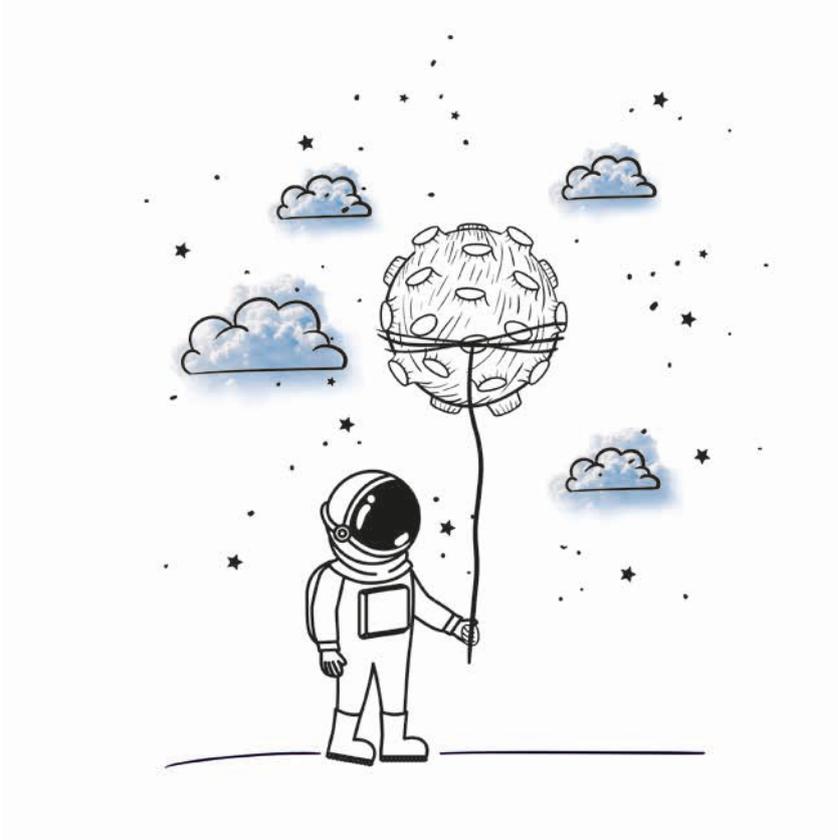
IN THE SECTION "AIR CONDITIONING"

Air Conditioning



Ventilation





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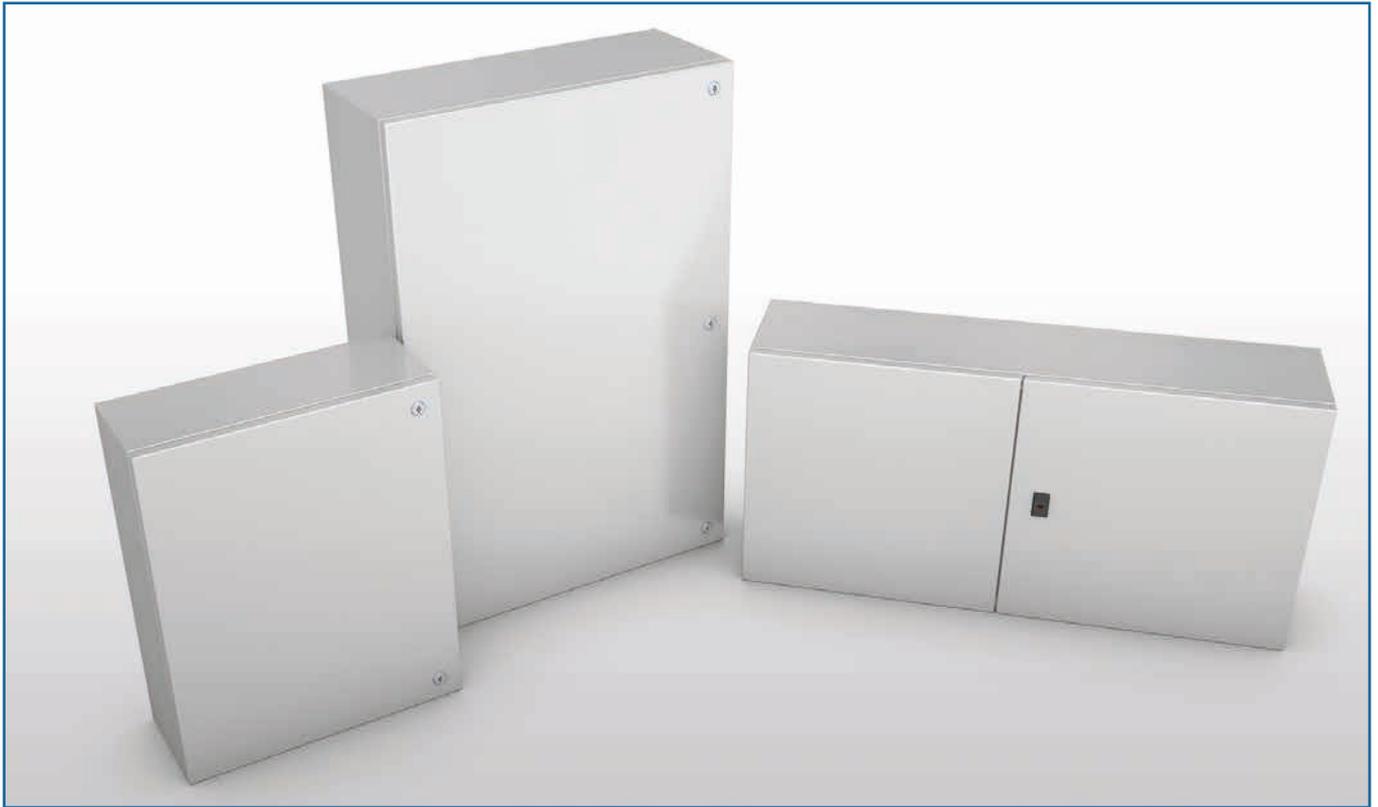
We feel so confident about the quality of our product over time that we offer unsurpassed guarantee extension.

Ask us and we will surprise you.

PRODUCT	PAG.
SMALL CABINETS	
Small cabinets QL	84
Small cabinets QV	86
Small cabinets QLP	88
Small cabinets QVP	90
Small cabinets QLSE	92
Small cabinets QS	94
Small cabinets QM	96
Accessories for small cabinets	98

3

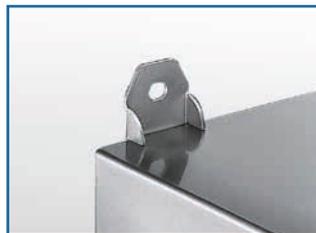
SMALL CABINETS



INSIDE DOORS



WALL FIXING LUGS



DOOR LOCKS

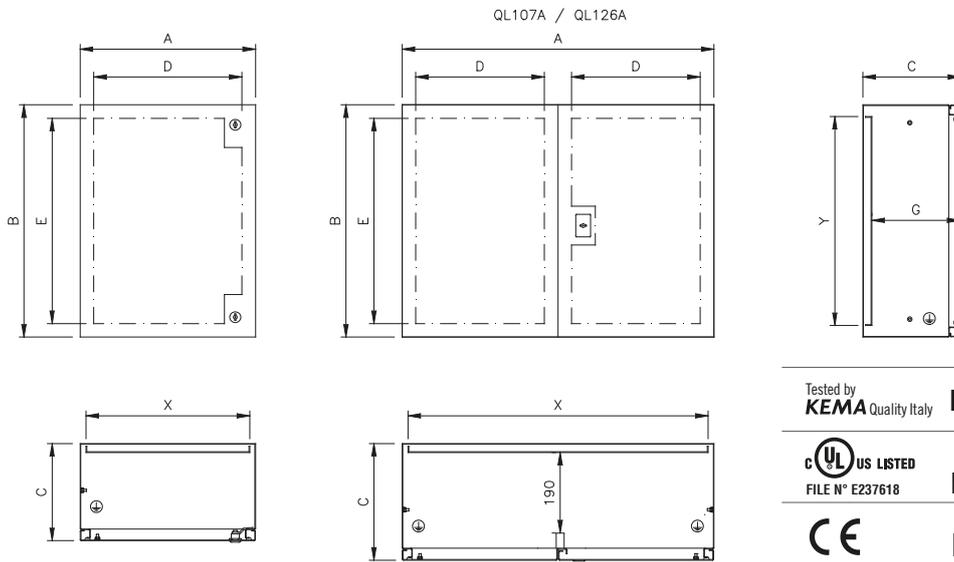


ANTI-CLOSE DEVICE



SMALL CABINETS QL

- Material: EN 1.4307 (TYPE 304L) or EN 1.4404 (TYPE 316L) s/s, finely satin-finished scotch brite and protected on 1 side.
- Enclosure obtained from a single sheet by multi-bend shaping of the enclosure front edge.
- Fairlead plate not provided.
- Full door.
- Doorlock with twin-comb mapping, standardized type $\varnothing 3$ for Low Tension, 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 or silicone.
- Inner plate of sendzimir EN 10142 galvanized sheet, secured to the bottom of the cabinet by s/s M8 threaded bolts delivered with the cabinet.
- Pre-arranged for earthing as per applicable regulations.
- Protection degree: IP66 and IP69K for one-door cabinets; IP65 for two-door cabinets.
- Back: prearranged with four inserts M6 for wall mount system.



Tested by KEMA Quality Italy	IP69K	IP66	EN 60 529
UL US LISTED FILE N° E237618	TYPE NEMA	4X, 4, 12, 1	Standard UL508A - UL50 Standard 250
CE	IK10		EN 60204-1 89/392/EEC

Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		USEFUL DEPTH	MATERIAL		THICKNESS		INNER PLATE	
	A	B	C	D	E	G	GASKET	SMALL CABINET	ENCLOSURE	DOOR	X	Y
QL23/304	200	300	150	130	230	130	polyurethane	Type 304L	1,2 mm	1,5 mm	170	240
QL33/304	300	300	180	230	230	160	polyurethane	Type 304L	1,2 mm	1,5 mm	270	240
QL34/304	300	450	200	230	380	180	polyurethane	Type 304L	1,2 mm	1,5 mm	270	390
QL36/304	300	600	250	230	530	230	polyurethane	Type 304L	1,2 mm	1,5 mm	270	540
QL43/304	450	300	200	380	230	180	polyurethane	Type 304L	1,2 mm	1,5 mm	420	240
QL44/304	450	450	200	380	380	180	polyurethane	Type 304L	1,2 mm	1,5 mm	420	390
QL46/304	450	600	250	380	530	230	polyurethane	Type 304L	1,2 mm	1,5 mm	420	540
QL46P/304	450	600	400	380	530	380	polyurethane	Type 304L	1,5 mm	1,5 mm	420	540
QL64/304	600	450	250	530	380	230	polyurethane	Type 304L	1,2 mm	1,5 mm	570	390
QL66/304	600	600	250	530	530	230	polyurethane	Type 304L	1,2 mm	1,5 mm	570	540
QL66P/304	600	600	300	530	530	280	polyurethane	Type 304L	1,2 mm	1,5 mm	570	540
QL66P4/304	600	600	400	530	530	380	polyurethane	Type 304L	1,5 mm	1,5 mm	570	540
QL67/304	600	750	250	530	680	230	polyurethane	Type 304L	1,5 mm	2 mm	570	690
QL68P/304	600	800	400	530	730	380	polyurethane	Type 304L	1,5 mm	2 mm	570	740
QL69/304	600	900	250	530	830	230	polyurethane	Type 304L	1,5 mm	2 mm	570	840
QL77/304	750	750	300	680	680	280	polyurethane	Type 304L	1,5 mm	2 mm	720	690
QL710/304	750	1000	300	680	930	280	polyurethane	Type 304L	1,5 mm	2 mm	720	940
QL812/304	800	1200	320	600	1080	300	polyurethane	Type 304L	1,5 mm	2 mm	770	1140
QL86/304	800	600	300	730	530	280	polyurethane	Type 304L	1,5 mm	2 mm	770	540
QL106/304	1000	600	300	930	530	280	polyurethane	Type 304L	1,5 mm	2 mm	970	540
QL107A/304	1000	750	300	430	680	280	polyurethane	Type 304L	1,5 mm	2 mm	970	690
QL126A/304	1200	600	300	530	530	280	polyurethane	Type 304L	1,5 mm	2 mm	1170	540
QL33S/316	300	300	180	230	230	160	silicone	Type 316L	1,5 mm	1,5 mm	270	240
QL34S/316	300	450	200	230	380	180	silicone	Type 316L	1,5 mm	1,5 mm	270	390
QL36S/316	300	600	250	230	530	230	silicone	Type 316L	1,5 mm	1,5 mm	270	540
QL43S/316	450	300	200	380	230	180	silicone	Type 316L	1,5 mm	1,5 mm	420	240
QL44S/316	450	450	200	380	380	180	silicone	Type 316L	1,5 mm	1,5 mm	420	390
QL46S/316	450	600	250	380	530	230	silicone	Type 316L	1,5 mm	1,5 mm	420	540
QL64S/316	600	450	250	530	380	230	silicone	Type 316L	1,5 mm	1,5 mm	570	390
QL66S/316	600	600	250	530	530	230	silicone	Type 316L	1,5 mm	1,5 mm	570	540
QL67S/316	600	750	250	530	680	230	silicone	Type 316L	1,5 mm	2 mm	570	690
QL69S/316	600	900	250	530	830	230	silicone	Type 316L	1,5 mm	2 mm	570	840
QL77S/316	750	750	300	680	680	280	silicone	Type 316L	1,5 mm	2 mm	720	690
QL710S/316	750	1000	300	680	930	280	silicone	Type 316L	1,5 mm	2 mm	720	940

NOTE: QL33 - QL34 - QL43 : one only doorlock - QL812 : three doorlocks
QL107A/304 - QL126 : two doors without central upright

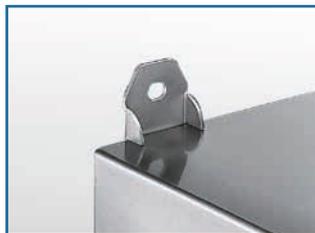
Protezione IK10 solo per armadietti porta singola
UL certification to be requested with the order



RAIN PROTECTIONS



WALL FIXING LUGS



GAS-OPERATED SPRINGS

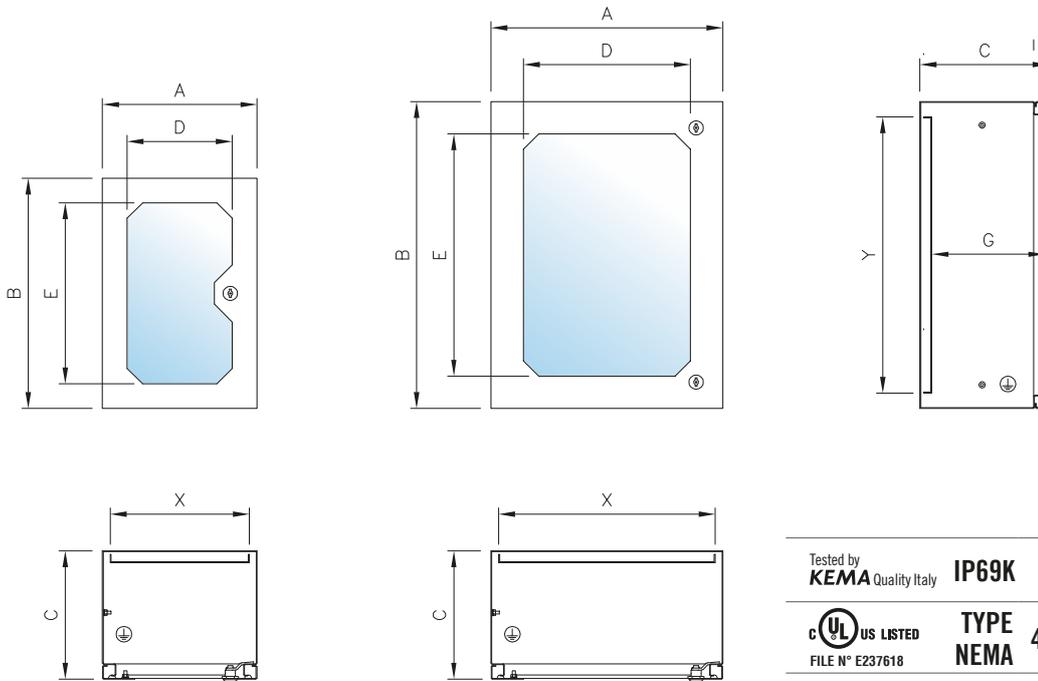


DOOR LOCKS



SMALL CABINETS QV

- Material: EN 1.4307 (TYPE 304L) or EN 1.4404 (TYPE 316L) s/s, finely satin-finished and protected on one side.
- Enclosure obtained from a single sheet shaped by multi-bending of the envelope front edge.
- Fairlead plate : not provided.
- Door with 3+3-layer shatterproof glass (compliant with the applicable accident-prevention regulations).
- The sight glass is made of polycarbonate for models QV33-QV34-QV43.
- Doorlock: twin-comb, standardized type $\varnothing 3$ for Low Tension; outside parts made of s/s.
- Inner hinges made of s/s: 120° opening according to VDI 3231 recommendations.
- Seal of foamed polyurethane or silicone.
- Inner plate made of sendzimir EN 10142 galvanized sheet, secured to the bottom of the cabinet by s/s threaded pins M8, delivered with the cabinet.
- Pre-arranged for earthing as per applicable rules.
- Protection degree: IP66 and IP69K.
- Back prearranged with four inserts M6 for wall mount system.



Tested by KEMA Quality Italy	IP69K	IP66	EN 60 529
UL US LISTED FILE N° E237618	TYPE NEMA 4X, 4, 12, 1		Standard UL508A - UL50 Standard 250
CE			EN 60204-1 89/392/EEC

Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM.	OUTSIDE SIZES			DOOR VISIBLE		USEFUL DEPTH	MATERIAL		THICKNESS		INNER PLATE	
	A	B	C	D	E	G	GASKET	SMALL CABINET	ENCLOSURE	DOOR	X	Y
QV33/304	300	300	180	204	204	157	polyurethane	Type 304L	1,2 mm	1,5 mm	270	240
QV34/304	300	450	200	204	354	177	polyurethane	Type 304L	1,2 mm	1,5 mm	270	390
QV36/304	300	600	250	204	504	227	polyurethane	Type 304L	1,2 mm	1,5 mm	270	540
QV43/304	450	300	200	354	204	177	polyurethane	Type 304L	1,2 mm	1,5 mm	420	240
QV44/304	450	450	200	324	324	173	polyurethane	Type 304L	1,2 mm	1,5 mm	420	390
QV46/304	450	600	250	324	474	223	polyurethane	Type 304L	1,2 mm	1,5 mm	420	540
QV46P/304	450	600	400	380	530	380	polyurethane	Type 304L	1,5 mm	1,5 mm	420	540
QV64/304	600	450	250	474	324	223	polyurethane	Type 304L	1,2 mm	1,5 mm	570	390
QV66/304	600	600	250	474	474	223	polyurethane	Type 304L	1,2 mm	1,5 mm	570	540
QV66P4/304	600	600	400	474	474	380	polyurethane	Type 304L	1,5 mm	1,5 mm	570	540
QV67/304	600	750	250	474	624	223	polyurethane	Type 304L	1,5 mm	2 mm	570	690
QV68P/304	600	800	400	474	674	380	polyurethane	Type 304L	1,5 mm	2 mm	570	740
QV69/304	600	900	250	474	774	223	polyurethane	Type 304L	1,5 mm	2 mm	570	840
QV77/304	750	750	300	624	624	273	polyurethane	Type 304L	1,5 mm	2 mm	720	690
QV710/304	750	1000	300	624	874	273	polyurethane	Type 304L	1,5 mm	2 mm	720	940
QV812/304	800	1200	320	650	1075	293	polyurethane	Type 304L	1,5 mm	2 mm	770	1140
QV33S/316	300	300	180	204	204	157	silicone	Type 316L	1,5 mm	1,5 mm	270	240
QV34S/316	300	450	200	204	354	177	silicone	Type 316L	1,5 mm	1,5 mm	270	390
QV36S/316	300	600	250	204	504	227	silicone	Type 316L	1,5 mm	1,5 mm	270	540
QV43S/316	450	300	200	354	204	177	silicone	Type 316L	1,5 mm	1,5 mm	420	240
QV44S/316	450	450	200	324	324	173	silicone	Type 316L	1,5 mm	1,5 mm	420	390
QV46S/316	450	600	250	324	474	223	silicone	Type 316L	1,5 mm	1,5 mm	420	540
QV64S/316	600	450	250	474	324	223	silicone	Type 316L	1,5 mm	1,5 mm	570	390
QV66S/316	600	600	250	474	474	223	silicone	Type 316L	1,5 mm	1,5 mm	570	540
QV67S/316	600	750	250	474	624	223	silicone	Type 316L	1,5 mm	2 mm	570	690
QV69S/316	600	900	250	474	774	223	silicone	Type 316L	1,5 mm	2 mm	570	840
QV77S/316	750	750	300	624	624	273	silicone	Type 316L	1,5 mm	2 mm	720	690
QV710S/316	750	1000	300	624	874	273	silicone	Type 316L	1,5 mm	2 mm	720	940

NOTE: QV33 - QV34 - QV43 : one central doorlock, portlight made of polycarbonate 3mm thick.
QV812 : three doorlocks

UL certification to be requested with the order



SKIRTING



PEDESTALS



OVERDOORS

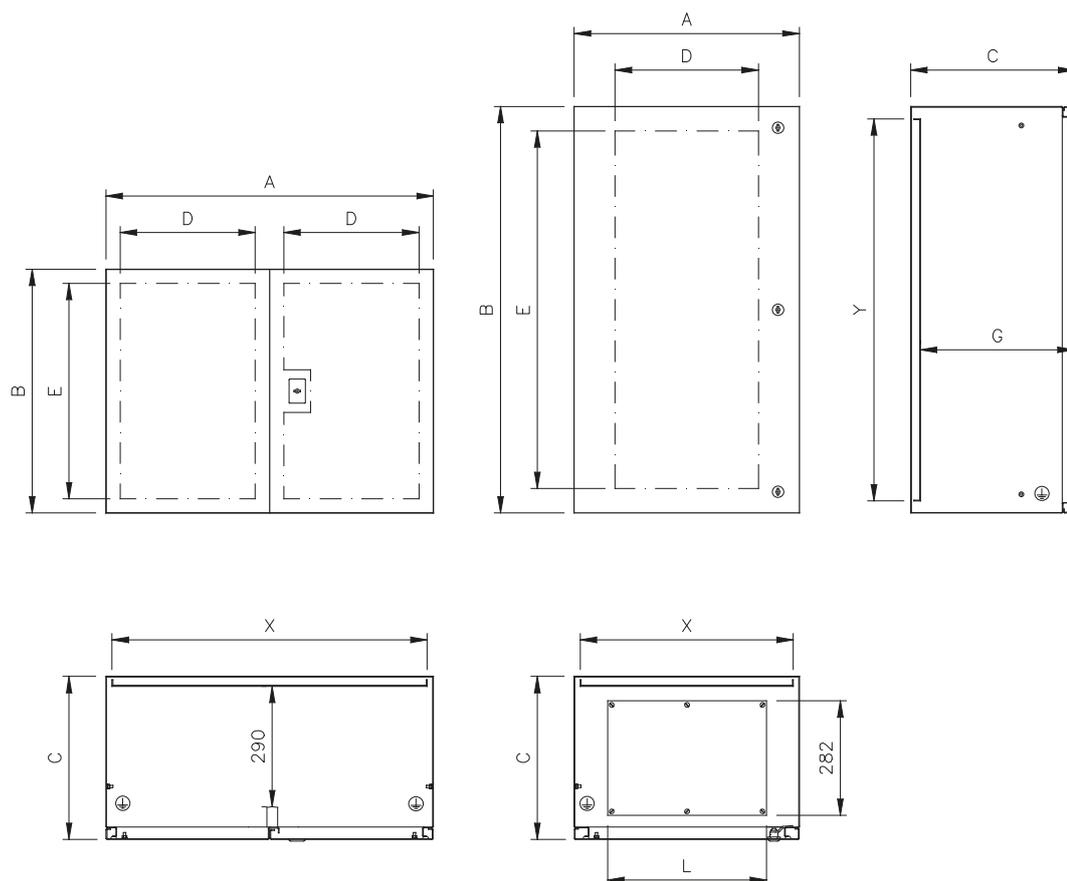


ANTI-CLOSE DEVICE



SMALL CABINETS QLP

- Material: EN 1.4307 (TYPE 304L) s/s, satin-finished scotch brite and protected on one side.
- Enclosure obtained from a single sheet, shaped by multi-bending of the envelope front edge.
- Fairlead plate with seal (only for cabinets H1200 - H1600).
- Reversible full door.
- Doorlock: twin-comb type standardized type, $\varnothing 3$ for Low Tension, s/s outside.
- S/s inner hinges: 120° opening as per CEI EN 60204-1 recommendations.
- Seals of foamed polyurethane.
- Inner plate made of sendzimir EN 10142 galvanized sheet secured to the bottom of the enclosure by M8 threaded pins delivered with the plate.
- Pre-arrangement for earthing as per applicable rules.
- Protection degree IP66 and IP69K for one-door cabinets, IP65 for two-door cabinets.
- Back: prearranged with four inserts M8 for wall mount system.



Tested by KEMA Quality Italy	IP69K	IP66	EN 60 529
UL US LISTED FILE N° E237618	TYPE NEMA	4X, 4, 12, 1	Standard UL508A - UL50 Standard 250
CE	IK10		EN 60204-1 89/392/EEC

Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		USEFUL DEPTH	CABLE PASSAGE	THICKNESS			INNER PLATE	
	A	B	C	D	E	G	L	MATERIAL	ECLOSURE	DOOR	X	Y
QLP612	600	1200	400	500	1080	380	422	Type 304L	1,5 mm	2 mm	570	1140
QLP616	605	1600	400	500	1480	372	422	Type 304L	1,5 mm	2 mm	523	1518
QLP812	800	1200	400	600	1080	380	622	Type 304L	1,5 mm	2 mm	770	1140
QLP814	800	1400	400	600	1280	380	622	Type 304L	1,5 mm	2 mm	770	1340
QLP816	805	1600	400	600	1480	372	622	Type 304L	1,5 mm	2 mm	723	1518
QLP128A	1203	800	400	500	730	380		Type 304L	1,5 mm	2 mm	1170	740
QLP168A	1603	800	400	690	710	372		Type 304L	1,5 mm	2 mm	1522	722

QLP612 : three doorlocks, fairlead plate
 QLP616 - QLP 816 : three doorlocks, fairlead plate, hoisting eyebolts, inner plate adjustable on the depth
 QLP128A - QLP168A : two doors without central upright, can be certified UL TYPE 12

Protezione IK10 solo per ARMADIETTI PORTA SINGOLA
 UL certification to be requested with the order



SKIRTING



DOOR LOCKS



ANTI-CLOSE DEVICE

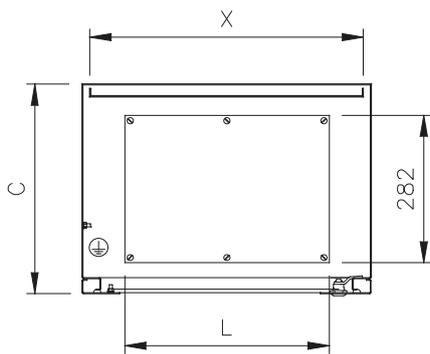
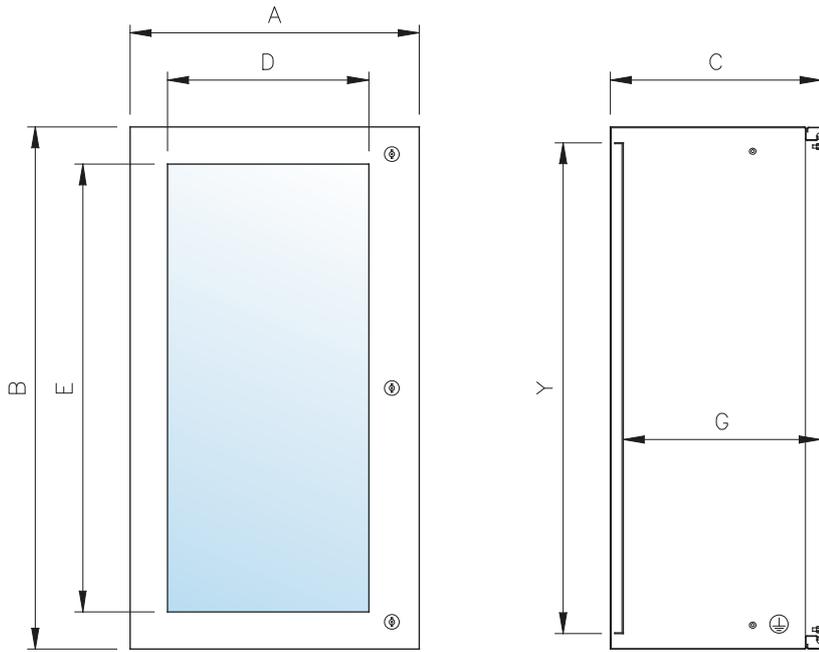


PEDESTALS



SMALL CABINETS QVP

- Material: EN 1.4307 (TYPE 304L) s/s, finely satin-finished and protected on one side.
- Enclosure obtained from a single sheet, shaped by multi-bending of the envelope front edge.
- Fairlead plate: with seal (only for cabinets H.1200 and H.1600).
- Reversible door with 3+3 shatterproof laminated glass (in compliance with the applicable accident prevention regulations).
- Door lock: twin-comb type, standardized type $\varnothing 3$ 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 enclosure by threaded pins M8.
- Pre-arranged for earthing as per applicable regulations.
- Protection degree IP66 and IP69K.
- Back: prearranged with four inserts M8 for wall mount.



Tested by KEMA Quality Italy	IP69K	IP66	EN 60 529
UL US LISTED FILE N° E237618	TYPE NEMA	4X, 4, 12, 1	Standard UL508A - UL50 Standard 250
CE			EN 60204-1 89/392/EEC

Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			DOOR VISIBLE		USEFUL DEPTH G	CABLE WAY L	THICKNESS			INNER PLATE	
	A	B	C	D	E			MATERIAL	ECLOSURE	DOOR	X	Y
QVP612	600	1200	400	450	1075	380	422	Type 304L	1.5 mm	2 mm	570	1140
QVP616	605	1600	400	440	1460	372	422	Type 304L	1.5 mm	2 mm	523	1518
QVP812	800	1200	400	650	1075	380	622	Type 304L	1.5 mm	2 mm	770	1140
QVP816	805	1600	400	640	1460	372	622	Type 304L	1.5 mm	2 mm	723	1518

QVP612 : three doorlocks, fairlead plate

QVP616 - QVP 816 : three doorlocks, fairlead plate, hoisting eyebolts, inner plate adjustable on the depth

UL certification to be requested with the order



DOOR PROTECTION



Roof for door protection, rounded corners.

SLOPING ROOF



Built-in roof, 30° slope, to prevent filth build-up while facilitating the drainage of liquids.

FEET



Adjustable feet, simple and appealing design, certified and approved for use in all those environments where compliance with hygienic-sanitary rules are the must.

WALL MOUNTS

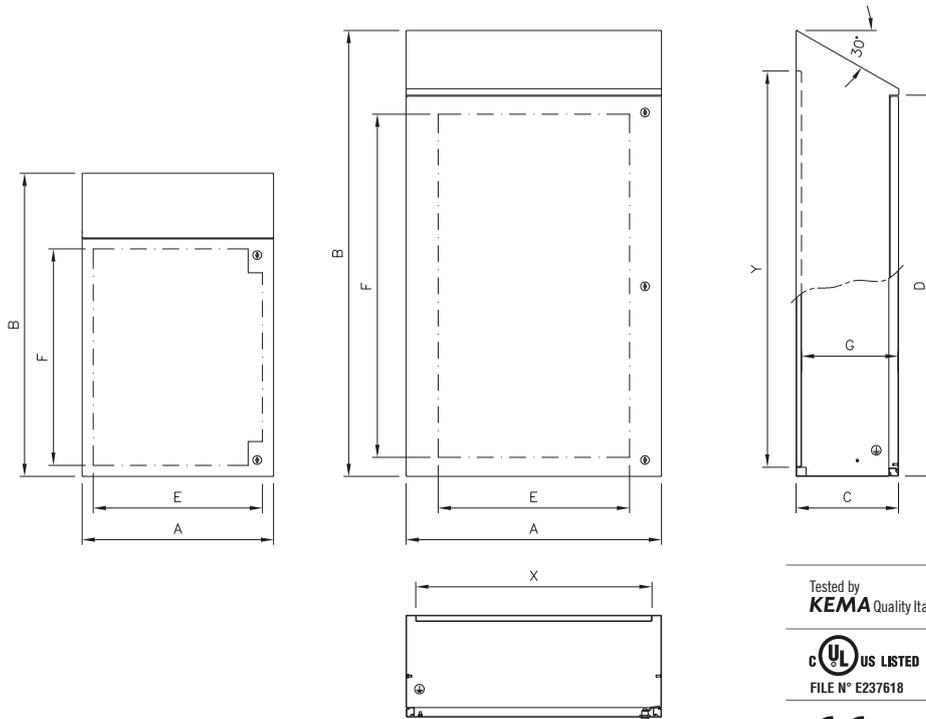


Designed to space the control board from the wall and prevent filth from building up between the two elements, and to allow cleaning.

SMALL CABINETS QLSE

The cabinet of the QLSE Line are designed for utilization in food, dairy, pharmaceutical industries in areas where extremely stringent hygienic-sanitary regulation must be complied with, while a built-in sloping roof is however necessary to protect the gap between door and enclosure as well, to prevent matters and filth from depositing.

- Material: EN 1.4307 (TYPE 304L)s/s or, on request, EN 1.4404 (TYPE 316L) satin-finish scotch brite, protected.
- Enclosure obtained from a single sheet, shaped by multiple bending of the front edge; 30° slope roof to prevent objects being put on it and to facilitate cleaning and liquid drainage.
- Full door; glazed door available on request.
- Doorlock, twin comb standardized type, Ø 3 for L.T. key; s/s outside surfaces; sanitary doorlocks on request.
- S/s inner hinges: 120° opening according to CEI EN 60204-1 recommendation.
- Seal made bicomponent of foamed polyurethane or silicone.
- Inner plate of sendzimir EN 10142 galvanized sheet, secured to the bottom of the cabinet by s/s M8 threaded bolts delivered with the cabinet.
- Prearranged for earthing as per regulations in force.
- The back of the enclosure has 4 blind holes for easy application of the wall mount system, either traditional or sanitary.
- Glazed door with glass and fairlead plate available on request.
- Protection degree: IP66 and IP69K as per EN 60 529.



Tested by KEMA Quality Italy	IP69K	IP66	EN 60 529
UL US LISTED FILE N° E237618	TYPE NEMA	4X, 4, 12, 1	Standard UL508A - UL50 Standard 250
CE	IK10		EN 60204-1 89/392/EEC

Detailed drawings per each small cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES				DOOR USEFUL SURFACE		USEFUL DEPTH G	MATERIAL		THICKNESS		INNER PLATE	
	A	B	C	D	E	F		GASKET	SMALL CABINET	ENCLOSURE	DOOR	X	Y
QLSE33/304A	300	427	180	300	230	230	158	polyurethane	Type 304L	1,2 mm	1,5 mm	240	350
QLSE34/304A	300	588	200	450	230	380	178	polyurethane	Type 304L	1,2 mm	1,5 mm	240	500
QLSE43/304A	450	438	200	300	380	230	178	polyurethane	Type 304L	1,2 mm	1,5 mm	390	350
QLSE44/304A	450	588	200	450	380	380	178	polyurethane	Type 304L	1,2 mm	1,5 mm	390	500
QLSE46/304A	450	767	250	600	380	530	228	polyurethane	Type 304L	1,2 mm	1,5 mm	390	650
QLSE64/304A	600	618	250	450	530	380	228	polyurethane	Type 304L	1,2 mm	1,5 mm	540	500
QLSE66/304A	600	767	250	600	530	530	228	polyurethane	Type 304L	1,2 mm	1,5 mm	540	650
QLSE67/304A	600	917	250	750	530	680	227	polyurethane	Type 304L	1,5 mm	2 mm	540	800
QLSE710/304A	750	1196	300	1000	680	930	277	polyurethane	Type 304L	1,5 mm	2 mm	690	1050
QLSE86/304A	800	796	300	600	730	530	277	polyurethane	Type 304L	1,5 mm	2 mm	740	650
QLSE812/304A	800	1408	320	1200	600	1080	297	polyurethane	Type 304L	1,5 mm	2 mm	740	1250
QLSE33S/316A	300	427	180	300	230	230	158	silicone	Type 316L	1,5 mm	1,5 mm	240	350
QLSE34S/316A	300	588	200	450	230	380	178	silicone	Type 316L	1,5 mm	1,5 mm	240	500
QLSE43S/316A	450	438	200	300	380	230	178	silicone	Type 316L	1,5 mm	1,5 mm	390	350
QLSE44S/316A	450	588	200	450	380	380	178	silicone	Type 316L	1,5 mm	1,5 mm	390	500
QLSE46S/316A	450	767	250	600	380	530	228	silicone	Type 316L	1,5 mm	1,5 mm	390	650
QLSE64S/316A	600	618	250	450	530	380	228	silicone	Type 316L	1,5 mm	1,5 mm	540	500
QLSE66S/316A	600	767	250	600	530	530	228	silicone	Type 316L	1,5 mm	1,5 mm	540	650
QLSE67S/316A	600	917	250	750	530	680	227	silicone	Type 316L	1,5 mm	2 mm	540	800
QLSE710S/316A	750	1196	300	1000	680	930	277	silicone	Type 316L	1,5 mm	2 mm	690	1050

NOTE: QLSE812 : three doorlocks

UL certification to be requested with the order



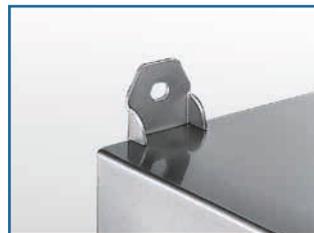
RAIN PROTECTIONS



DOOR LOCKS



WALL FIXING LUGS

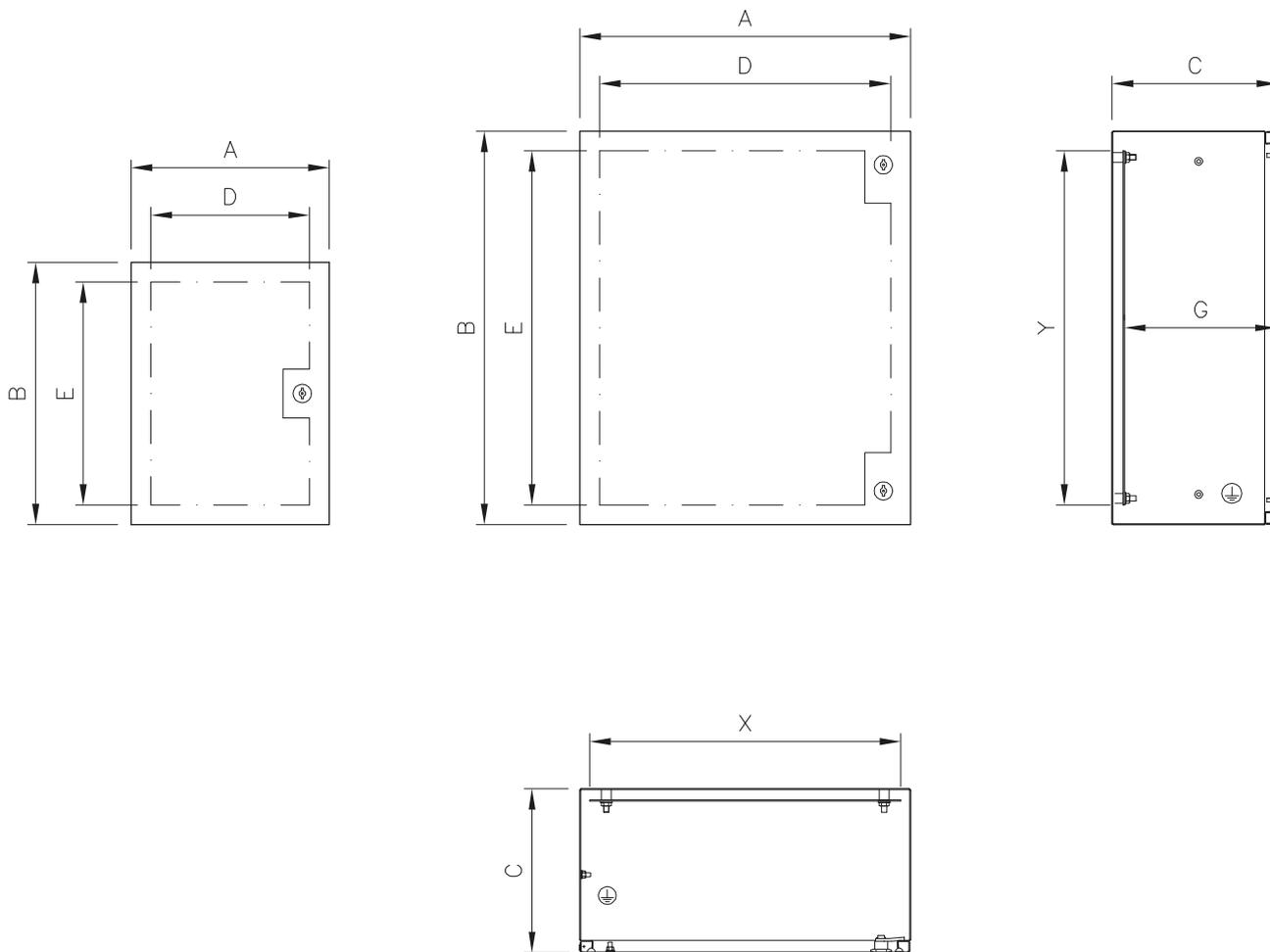


HANDLE GRIP



SMALL CABINETS QS

- Material: EN 1.4307 (TYPE 304L) s/s, finely satin-finished and protected on one side.
- Enclosure obtained from one single sheet, shaped to obtain the seal labyrinth between enclosure and door.
- Inside: threaded pins M8 to fix the plate and its rest.
- Full door.
- Twin-comb locks of the standardized type $\varnothing 3$ for Low Voltage, chromium plated.
- S/s inner hinges, 120° opening according to CEI EN 60204-1 recommendations.
- Seal of foamed polyurethane.
- Inner plate of EN 10142 sendzimir galvanized sheet secured to the bottom of the container by M8 threaded pins delivered with the cabinet.
- Prearranged for earthing according to the regulations in force.
- Protection degree IP66.
- Back: prearranged with four inserts M6 for wall mount.



**IP66
IK10**

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



EN 60204-1
89/392/EEC

Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		USEFUL DEPTH G	MATERIAL	THICKNESS		INNER PLATE	
	A	B	C	D	E			ECLOSURE	DOOR	X	Y
QS034	300	400	200	240	340	180	Type 304L	1,2 mm	1,5 mm	270	340
QS045	400	500	200	340	440	180	Type 304L	1,2 mm	1,5 mm	370	440
QS056	500	600	250	440	540	230	Type 304L	1,2 mm	1,5 mm	470	540
QS068	600	800	250	540	740	230	Type 304L	1,2 mm	1,5 mm	570	740
QS069	600	900	300	540	840	280	Type 304L	1,2 mm	1,5 mm	570	840

NOTE: QS034 : one central doorlock



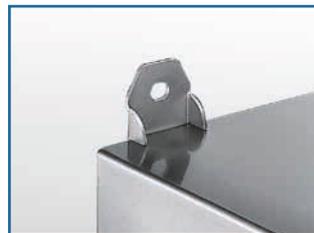
RAIN PROTECTIONS



DOOR LOCKS



WALL FIXING LUGS

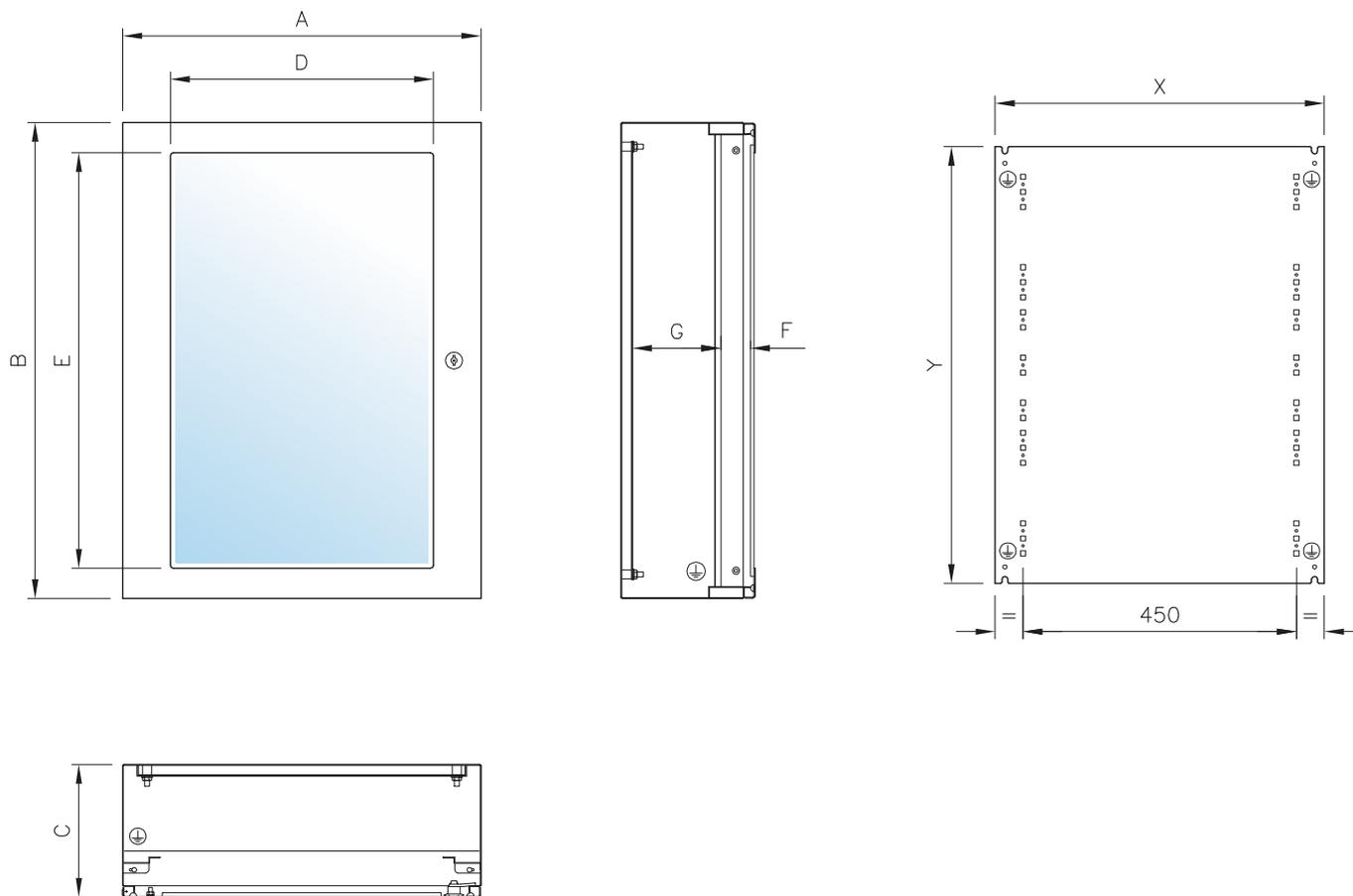


PANELS



SMALL CABINETS QM

- The new QM series is designed to accommodate modular equipment.
- Made of EN 1.4307 (TYPE 304L) s/s, finely satin finished and protected on 1 side.
- Special attention was paid, in the design stage, to the details permitting to streamline and speed up wiring, without disregarding aesthetic, which has always been the hallmark of our work.
- The enclosure is obtained from a sheet suitably shaped on the front side to obtain the “seal labyrinth” between enclosure and door.
- The door, press-forged, features 3+3 shatterproof laminated glass to meet safety and long lasting unalterability requirements.
- Single central lock, twin-comb type, standardized $\varnothing 3$ for Low Voltage. Chromium-plated with attachment for 3-point lock, starting from model QM096.
- Inner hinges, s/s, 120° opening according to CEI EN 60204-1 recommendations.
- Seal of foamed polyurethane.
- Inner plate of sendzimir galvanized sheet, pre-drilled for DIN guides assembling. The assembling of guides and the relevant modular switches can be done in the factory to facilitate introduction of the pre-assembled frame into the cabinet. The modular panels are secured to two pre-drilled side uprights fixed to the enclosure.
- Fairlead plate not included.
- Prearranged for earthing according to the regulations in force.
- Protection degree : IP65 with closed door, IP20 with open door.
- Back: prearranged with four M6 inserts for wall mount.



IP56

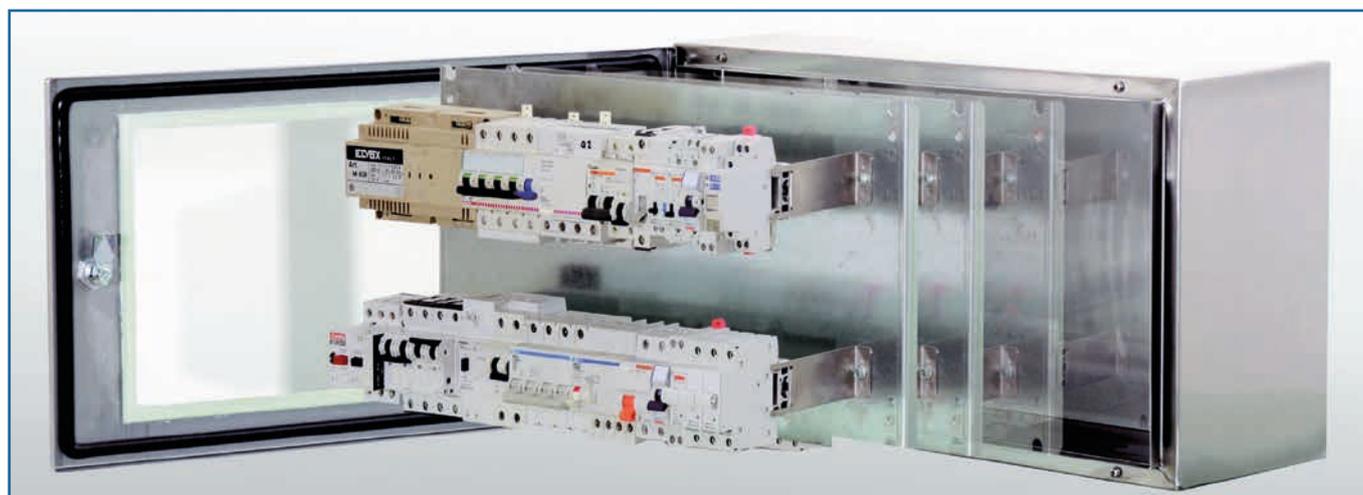
EN 60 529/97-05
EN 50 102/96-05



EN 60204-1
89/392/EEC

Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

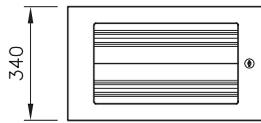
ITEM	OUTSIDE SIZES			DOOR VISIBLE		GLASS/PANEL GAP	USEFUL DEPTH	THICKNESS			INNER PLATE	
	A	B	C	D	E	F	G	MATERIAL	ECLOSURE	DOOR	X	Y
QM048	590	340	220	433	240	48	145	Type 304L	1,2 mm	1,5 mm	542	275
QM072	590	490	220	433	390	48	145	Type 304L	1,2 mm	1,5 mm	542	425
QM096	590	640	220	433	540	48	145	Type 304L	1,2 mm	1,5 mm	542	575
QM120	590	790	220	433	690	48	145	Type 304L	1,2 mm	1,5 mm	542	725
QM144	590	940	220	433	840	48	145	Type 304L	1,2 mm	1,5 mm	542	875
QM168	590	1090	220	433	990	48	145	Type 304L	1,2 mm	1,5 mm	542	1025



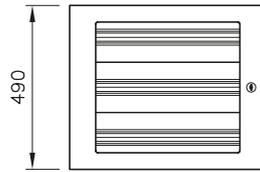
SMALL CABINETS



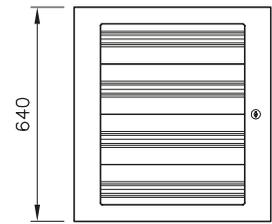
EQUIPMENT FOR MODULAR SWITCHES



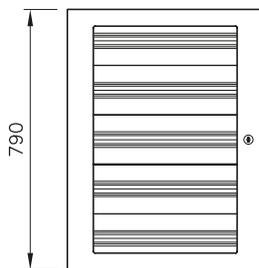
QM048
N. 48 MODULES (2 PQM150F)



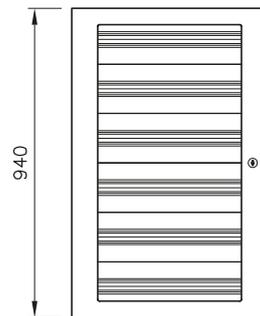
QM072
N. 72 MODULES (3 PQM150F)



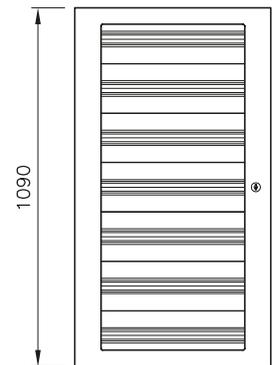
QM096
N. 72 MODULES (3 PQM200F)
N. 96 MODULES (4 PQM150F)



QM120
N. 96 MODULES (1 PQM150F + 3 PQM200F)
N. 120 MODULES (5 PQM150F)



QM144
N. 120 MODULES (2 PQM150F + 3 PQM200F)
N. 144 MODULES (6 PQM150F)

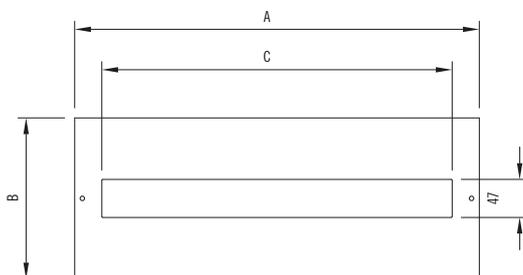


QM168
N. 144 MODULES (3 PQM150F + 3 PQM200F)
N. 168 MODULES (7 PQM150F)



PANELS

EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished, to be bolted to the cabinet frame. Available in two different heights, 150 and 200mm, either pre-drilled or full; the latter can be drilled to drawing on demand. They can accommodate no. 24 modules each plate and are spaced 50mm from the glazed door.



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



DIN BARS

Obtained from extruded aluminium, they come complete with brackets of galvanized steel. Not included in the panels, they must be ordered separately.

- **DINQM24** – DIN bar, complete with brackets



INNER DOORS

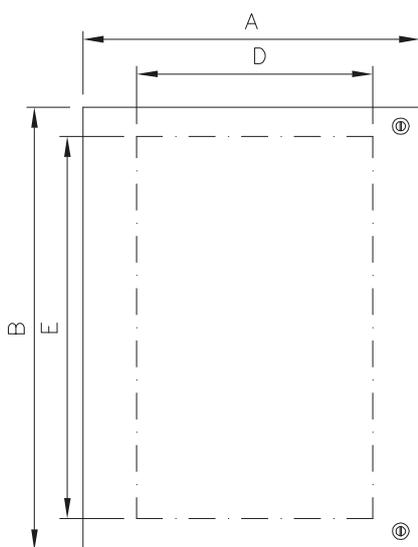
Delivered in assembling kit, to fix equipment inside the small cabinets in a protected and locked area, they can be installed on all the small cabinets of the one-door Q series.

EN 1.4307 (TYPE 304L), s/s execution, finely satin-finished and protected

by PVC adhesive film, thickness 12/10 and 15/10.

The inner door can be hinged on either the right or the 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 inner doors.

- The gap between door and inner door is 45 mm.
- Protection degree IP20.
- Drilling to drawing is possible on demand.



ITEM	SIZES		SPACE DRILLING		FOR SMALL CABINETS
	A	B	D	E	
QC033/304	256	238	156	178	QL-QV33
QC034/304	256	388	156	328	QL-QV34
QC036/304	256	538	156	478	QL-QV36
QC043/304	406	238	306	178	QL-QV43
QC044/304	406	388	306	328	QL-QV44
QC046/304	406	538	306	478	QL-QV-QLP-QVP46
QC064/304	556	388	456	328	QL-QV64
QC066/304	556	538	456	478	QL-QV-QLP-QVP66
QC067/304	556	688	456	628	QL-QV67
QC068/304	556	738	456	678	QLP-QVP68
QC069/304	556	838	456	778	QL-QV69
QC077/304	706	688	606	628	QL-QV77
QC710/304	706	938	606	878	QL-QV710
QC612/304	556	1138	456	1078	QLP-QVP612
QC812/304	756	1138	656	1078	QL-QV-QLP-QVP812
QC616/304	552	1513	452	1453	QLP-QVP616
QC816/304	752	1513	652	1453	QLP-QVP816

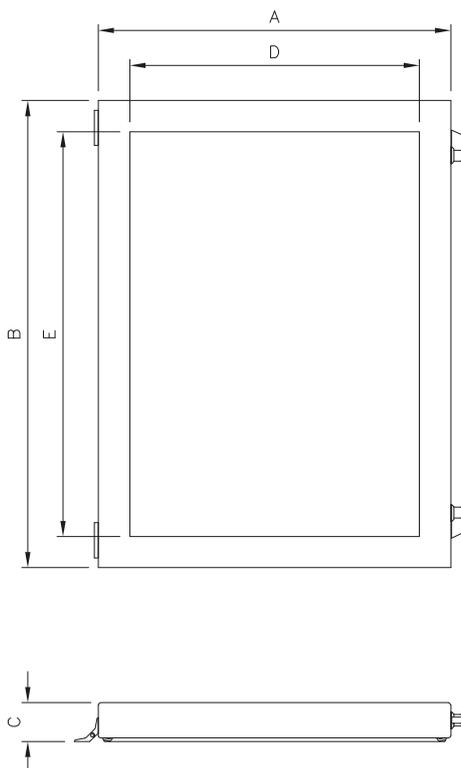
Note : Not to be used on small cabinets series QS and series QM



OVERDOORS

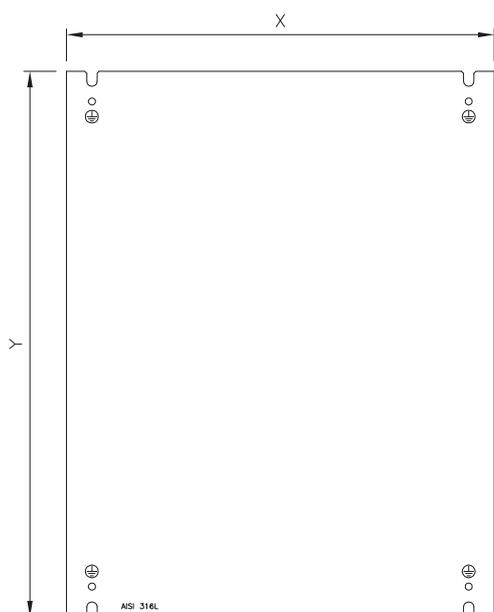
Made of EN 1.4307 (TYPE 304L) s/s, finely satin- finished, with 3+3 shatterproof laminated window, they are particularly recommended when instruments set on the outside door have to be protected. Complete with wing-nut black lock, galvanized, with Yale type key and built-in seal; 180° opening. Protection degree IP65.

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



ITEM	A	B	C	D	E
SV33/45	300	300	45	220	220
SV34/45	300	450	45	220	370
SV36/45	300	600	45	220	520
SV43/45	450	300	45	370	220
SV44/45	450	450	45	370	370
SV46/45	450	600	45	370	520
SV64/45	600	450	45	520	370
SV66/45	600	600	45	520	520
SV67/45	600	750	45	520	670
SV68/45	600	800	45	520	720
SV69/45	600	900	45	520	820
SV612/45	600	1200	45	520	1120
SV77/45	750	750	45	670	670
SV710/45	750	1000	45	670	920
SV86/45	800	600	45	720	520
SV812/45	800	1200	45	720	1120
SV106/45	1000	750	45	920	670

ITEM	A	B	C	D	E
SV33/75	300	300	75	220	220
SV34/75	300	450	75	220	370
SV36/75	300	600	75	220	520
SV43/75	450	300	75	370	220
SV44/75	450	450	75	370	370
SV46/75	450	600	75	370	520
SV64/75	600	450	75	520	370
SV66/75	600	600	75	520	520
SV67/75	600	750	75	520	670
SV68/75	600	800	75	520	720
SV69/75	600	900	75	520	820
SV612/75	600	1200	75	520	1120
SV77/75	750	750	75	670	670
SV710/75	750	1000	75	670	920
SV86/75	800	600	75	720	520
SV812/75	800	1200	75	720	1120
SV106/75	1000	750	75	920	670



S/S INNER PLATES

EN 1.4404 (TYPE 316L)s/s execution, 2B finishing; available for all the cabinets of the QL/QV series; delivered in assembling kit (replacement at customer's charge).

ITEM	SIZES		FOR SMALL CABINETS
	X	Y	
PQ033I	270	240	QL-QV33
PQ034I	270	390	QL-QV34
PQ036I	270	540	QL-QV36
PQ043I	420	240	QL-QV43
PQ044I	420	390	QL-QV44
PQ046I	420	540	QL-QV-QLP-QVP46
PQ064I	570	390	QL-QV64
PQ066I	570	540	QL-QV-QLP-QVP66
PQ067I	570	690	QL-QV67
PQ069I	570	840	QL-QV69
PQ077I	720	690	QL-QV77
PQ710I	720	940	QL-QV710
PQ812I	770	1140	812710
PQ107I	970	690	QL107

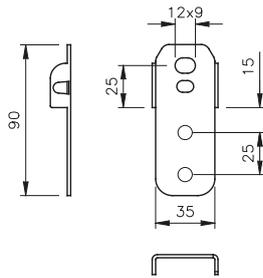


RAIN PROTECTIONS

EN 1.4307 (TYPE 304L)s/s execution, fine satin-finished and protected, they are available for all the cabinets. Recommended when the cabinets are envisaged to be installed outdoors and weather protection is therefore required.

They protrude 25mm from the front door and come in assembling kit.

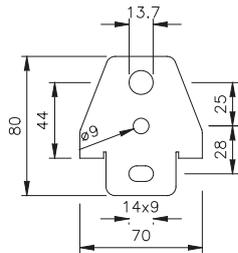
ITEM	FOR SMALL CABINETS
TP933	QL/QV33
TP934	QL/QV34 - QS034
TP936	QL/QV36
TP944	QL/QV43-44
TP945	QS045
TP946	QL/QV46
TP956	QS056
TP960	QL/QV64-66-67-69 - QS68
TP966	QL66P - QS069
TP977	QL/QV77-710
TP980	QL/QV812
TP946P	QLP/QVP46
TP960P	QLP/QVP66-68-612
TP980P	QLP/QVP812
TP9616P	QLP/QVP616
TP9816P	QLP/QVP816



WALL FIXING LUGS

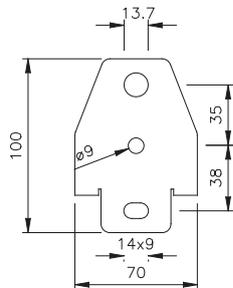
EN 1.4404 (TYPE 316L) s/s execution, they are easily set to the back of the cabinets of the “Q” series by the prearranged threaded drill. For assembling on big-sized enclosures, a second drill is foreseen at customer’s charge. Waterproofing is assured by special seals. Each kit comes complete with assembling instructions, screws, nuts and washers.

- **SP025** – wall mount kit, 4 pcs.



Realizzati in inox EN 1.4404 (TYPE 316L). Fissaggi a parete per gli armadietti QLP / QVP codici 612, 812, 814, 128A.

- **SP025QLP40** – kit fissaggi a parete da 4 pz



Realizzati in inox EN 1.4404 (TYPE 316L). Fissaggi a parete per gli armadietti QLP / QVP codici 816, 616, 168A.

- **SP025QLP60** – kit fissaggi a parete da 4 pz



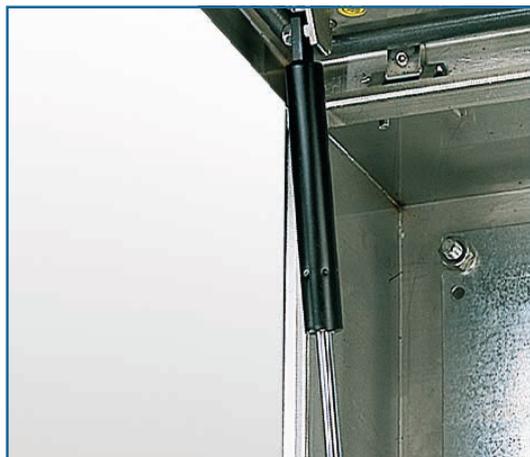
DOOR LOCKS

Per tutti i tipi di armadietti sono previste diverse serrature opzionali, tutte perfettamente intercambiabili con quelle montate in dotazione standard, sia con chiave a bassa tensione che con chiave tipo Yale.

- **QL** – cod: SG221I, SG226I, SG227I, SG215SBL-304.
- **QS** – cod: SG215ZC, SG221ZC, SG226ZC, SG227ZC, SG215S-QS.

ITEM	TYPE	EXTERNAL	MATERIAL INSERT	TONGUE
SG215SBL-304	Box lock twin-comb insert	AISI 304 S/S	AISI 304 S/S	Zinc plated
SG221I	“T” handle key EK333(*)	Black polyamides	AISI 304 S/S	AISI 304 s/s
SG226I	Wing nut lock key EK333(*)	Black polyamides	AISI 304 S/S	AISI 304 s/s
SG227I	“L” handle key EK333(*)	Black polyamides	AISI 304 S/S	AISI 304 s/s

NOTE:
 (*) Key EK333 Yale type is supplied with the lock. Different key coding can be provided on request.
 Optional key to be ordered separately: item SG205CG (not in s/s). To have also the tongue in TYPE 304 s/s please ask for item KIT SG215.



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 the 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.

- **SA910** – gas-operated spring 10 Kg (including assembling)
- **SA915** – gas-operated spring 15 Kg (including assembling)
- **SA920** – gas-operated spring 20 Kg (including assembling)
- **SA930** – gas-operated spring 30 Kg (including assembling)
- **SA940** – gas-operated spring 40 Kg (including assembling)
- **SA950** – gas-operated spring 50 Kg (including assembling)



COUNTER-WEIGHTED SUPPORT RODS

The counter-weighted support rods can be applied to all types of cabinets when the door needs to be opened upwards (seagull-wing). Handy and safe, they reach the right position automatically at opening, so as to keep the door open. Can be assembled on the right or the left side. Starting from the size 600x600 up, the use of 2 rods is recommended, one on the right side and one on the left side.

- **ASQLVDX** – support rod DX for QL/QV/QLP/QVP
- **ASQLVSX** – support rod SX for QL/QV/QLP/QVP
- **ASQSMDX** – support rod DX for QS/QM
- **ASQSMSX** – support rod SX for QS/QM

NOTE: for big-sized doors and weight exceeding 12 kg, the use of the gas-operated springs is recommended.



ANTI-CLOSE DEVICE

EN 1.4404 (TYPE 316L) s/s EXECUTION, recommended to prevent the door accidental closing. Not suitable for cabinet with upwards opening door (seagull-wing).

- **DAC05** – Delivered in assembling kit.



MANIGLIA DI PRESA **MNB**



MANIGLIA DI PRESA **MBK**

GRIP HANDLES

Made of TYPE 304 s/s rod, polished; recommended when the cabinet is used as a control box.

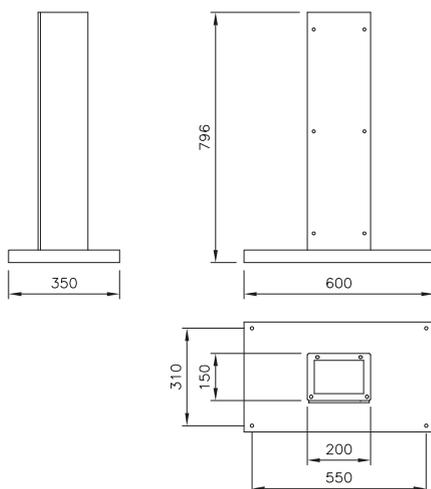
They come in assembling kit and two versions are available:

- **MNB200** – fastening distance between centres 200 mm.
- **MNB300** – fastening distance between centres 300 mm.
- **MBK300** – fastening distance between centres 275 mm.
- **MBK350** – fastening distance between centres 325 mm.
- **MBK450** – fastening distance between centres 425 mm.
- **MBK500** – fastening distance between centres 475 mm.



PEDESTALS

Ideal for use either as simple stand or cable way, they are made of EN 1.4307 (TYPE 304L) s/s and available in two versions.

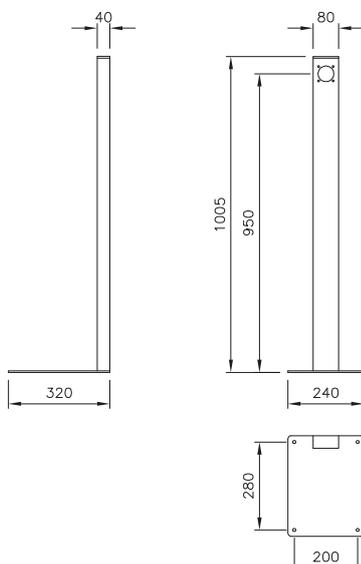


PEDESTAL SERIES PR200

Satin-finished, 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 to assure inspectability. Complete with sendzimir inner plate. Protection degree IP65. A sendzimir counterplate is also available 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.



PEDESTAL PR100

Used for pushbutton-boards and cabinets with minimum depth 125 mm, it consists of s/s channel, micropeened, not inspectable, and a predrilled plate for ground fixing.

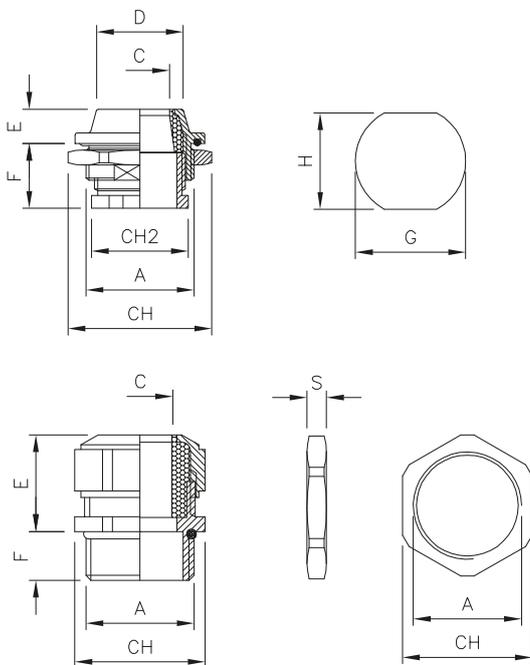


CABLE GLANDS

The cable glands, s/s execution, are to be used to prevent corrosion. This series, manufactured to UNI EN 1.4305 (TYPE 303), is particularly fit for use in wet environment and in dry/wet conditions. The FPM seal creates a barrier to the radioactive radiance of up to 2,5x10⁵ Gray, and assures excellent strength to cable pulling.

- Protection degree IP68 to EN 60 529 and IP69K to DIN 40 050-T9.
- Temperature range: -40°C + 200°C, intermittent up to 240°C.
- EMC version available on demand.

These cable glands are delivered without ring nut, which must be ordered separately when the need be.



RING NUT PG

ITEM	THREADING A	KEY	
		CH	S
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

CABLE GLAND PG

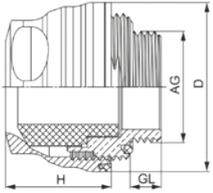
ITEM	THREADING A	CABLE DIAMETER C	KEY		
			CH	E	F
PG07303	PG7	5 ÷ 6,5	17	17	10
PG09303	PG9	8 ÷ 10,5	19	20	10
PG11303	PG11	8,5 ÷ 12	22	21	10
PG13303	PG13	11 ÷ 15	24	21	10
PG16303	PG16	11 ÷ 15	24	21	10
PG21303	PG21	16 ÷ 20,5	30	25	12
PG29303	PG29	23 ÷ 27,5	41	28	12
PG36303	PG36	30,5 ÷ 35	50	32	15

METRIC RING NUT

ITEM	THREADING A	KEY	
		CH	S
GPM12303	M12x1,5	17	3
GPM16303	M16x1,5	19	3
GPM20303	M20x1,5	24	3,5
GPM25303	M25x1,5	30	3,5
GPM32303	M32x1,5	36	4,5
GPM40303	M40x1,5	46	4,5

METRIC CABLE GLAND

ITEM	THREADING A	CABLE DIAMETER C	KEY		
			CH	E	F
PM12303/3.5-5.0	M12x1,5	3,5 ÷ 5	17	17	10
PM12303/5.0-6.5	M12x1,5	5 ÷ 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	8 ÷ 10,5	19	20	10
PM20303/8.0-15.0	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



Advice:

- **EMC** connection integrated
- **VDMA** Riboflavin cleaning test passed
- **EHEDG** 01 cleaning test passed
- **EHEDG** certificate EL class I AUX approved

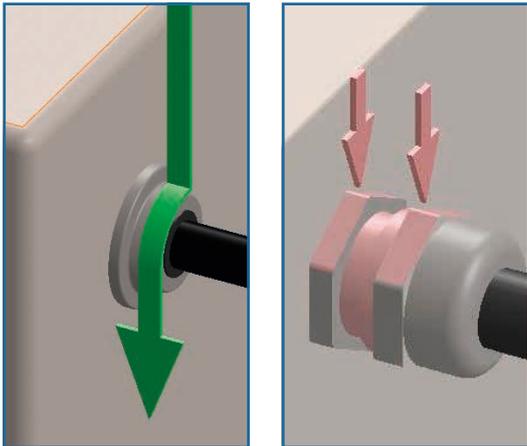
CABLE GLANDS

Metric cable glands Series PH meet the requirements for use in food, dairy, pharmaceutical industries as well as in all those environments where compliance with hygienic-sanitary regulations is a must (Directive on machinery 2006/42/EC DIN EN 1672-2-2005, Documents EHEDG 8 E 13). This is possible thanks to the technical solutions adopted and to the design criteria: 25% sloping surfaces to avoid filth build-up; radial corners; no threads; gaps in contact with the outside; tamperproof for they cannot be opened from the outside. Delivered complete with OR, standard seal on the cable and ring nut.

EN 1.4307 (TYPE 304L) s/s execution, mirror finish; the EPDM seal is fit for use in the environments for which the cable gland has been designed: gaskets made from different materials can be supplied on request.

- Protection degree IP68 as per EN 60 529 and IP69K as per DIN 40 050-T9.
- Temperature range: -40°C + 180°C, intermittent up to 40°C approx.

IDEAL FOR HIGH-PRESSURE CLEANING



SANITARY CABLE GLAND

Smooth slanting surfaces, no threads in contact with the environment, radial corners.

TRADITIONAL CABLE GLAND

Unprotected threads, sharp corners and level surfaces not draining.

ITEM	CLAMPING RANGE (MM)	AG	GL (MM)	D (MM)	SW (MM)	H (MM)
PH12050	5 - 6,5	M 12 x 1,5	6	21	14	19
PH16060	6 - 7,5	M 16 x 1,5	6	27	19 - 21	20
PH16075	7,5 - 10	M 16 x 1,5	6	27	19 - 21	20
PH20090	9 - 12	M 20 x 1,5	6	33	24 - 27	22,5
PH20110	11 - 13,5	M 20 x 1,5	6	33	24 - 27	22,5
PH25140	14 - 16	M 25 x 1,5	7	38	30	23,5
PH25150	15 - 18	M 25 x 1,5	7	38	30	23,5
PH32180	18 - 21	M 32 x 1,5	8	45	36	26,5
PH32210	21 - 25	M 32 x 1,5	8	45	36	26,5



PLUGS

EN 1.4404 (TYPE 316L) s/s execution, to close holes previously made and not used.

With only 4 items, using the appropriate centring washers, all the drills ranging between Ø 6,5 and Ø 40 mm. can be covered, including shaped drills for the cable glands of the "SANITARY" series.

ITEM	ø	RANGE GLANDS	
		FOR DRILLS	FOR CABLE GLANDS
TP0716	20	6,5 ÷ 16	PG7 - PG9 - M12 - M16
TP1624	28	16,5 ÷ 24	PG11 - PG13,5 - PG16 - M20
TP2431	35	24,5 ÷ 31	PG21 - M25
TP3140	45	31,5 ÷ 40	PG29 - M32 - M 40



SRS Wiring System



Adjustable Feet



Diagram Holding Pockets



Electroconductive Gaskets



Lamps



Taps



IN THE SECTION "CONTROL BOXES AND HANGING SYSTEMS"

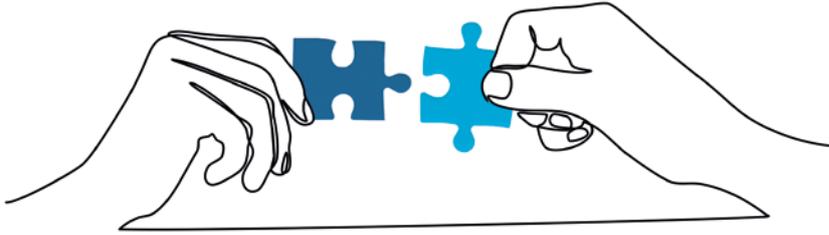
Hanging Systems



IN THE SECTION "AIR CONDITIONING"

Ventilation





Piece by piece we're making your business safer.

Spare parts always available over the years.

Assurance of a product covered by non-stop assistance. Ilinox customers are assured they will always have available, even many years later, spare parts for all the models of boxes or cabinets, including those no longer manufactured.

PRODUCT	PAG.
PUSH-BUTTON BOARDS & JUNCTION BOXES	
Pushbutton boards PE and Junction boxes DE	110
Pushbutton boards PS and Junction boxes DS	112
Accessories for DS and PS	115

4

PUSH-BUTTON BOARDS & JUNCTION BOXES



WALL-MOUNT FASTENERS



PUSHBUTTONS

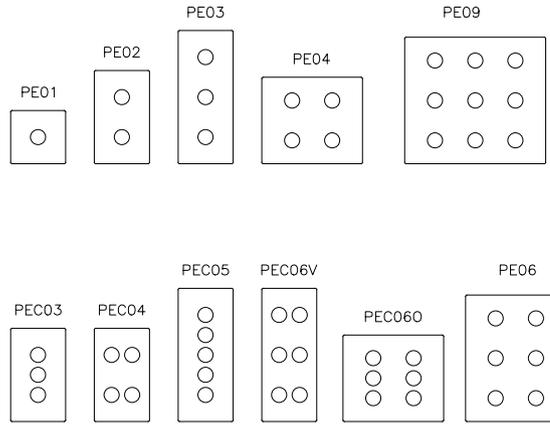
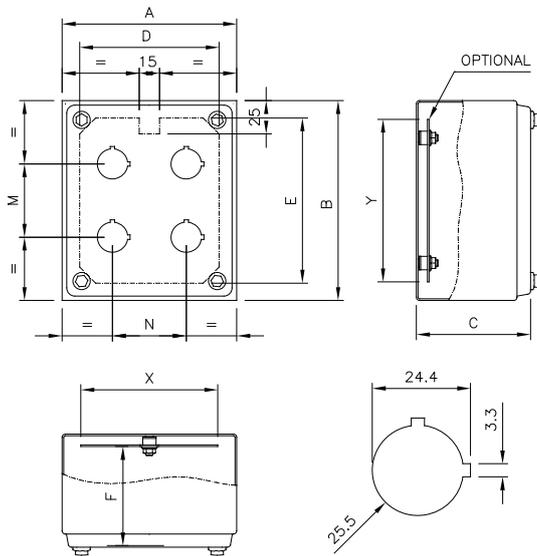


JUNCTION BOX



PUSHBUTTONS PE AND JUNCTION BOXES DE

- EN 1.4307 (TYPE 304L) s/s execution, thickness 12/10, fine satin-finish. On request, they can be made from other types of s/s and customized to meet specific requirements.
- Cutting-edge welding procedures enable to maintain unaltered the chemical formulation of the material 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 foamed silicone rubber, oil-proof and self-extinguishing.
- Protection degree IP66 and IP69K when appropriate components are properly installed, as per CEI EN 60529 rules.
- Pre-arrangement for earthing in compliance 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 \varnothing 22,5 standardized push-button panel.
- Inner plate in sendzimir execution, available on demand from models PE02, DE02, PEC03 and PEC04.



IP69K IP66 EN 60 529



TYPE NEMA 4X, 4, 1

Standard UL508A - UL50 Standard 250



IK07

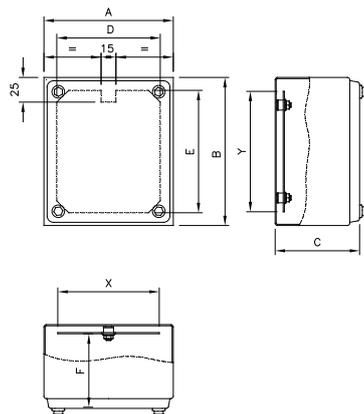
EN 60204-1 89/392/EEC

PUSHBUTTONS PE

Detailed drawings per each box can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			USEFUL SURFACE			CENTRE DISTANCE		MATERIAL		INNER PLATE (OPTIONALS)		
	A	B	C	D	E	F	M	N	TYPE	THICKNESS	ITEM	X	Y
PE01/304A	90	90	85	64	64	-	-	-	Type 304L	12/10	-	-	-
PE02/304A	90	140	85	64	114	74	55	-	Type 304L	12/10	PI02A	62	112
PEC03/304A	90	140	85	64	114	74	30,5	-	Type 304L	12/10	PI02A	62	112
PEC04/304A	90	140	85	64	114	74	55	30,5	Type 304L	12/10	PI02A	62	112
PE03/304A	90	200	85	64	174	74	55	-	Type 304L	12/10	PI03A	62	172
PEC05/304A	90	200	85	64	174	74	30,5	-	Type 304L	12/10	PI03A	62	172
PEC06V/304A	90	200	85	64	174	74	55	30,5	Type 304L	12/10	PI03A	62	172
PE04/304A	130	150	85	104	124	74	55	55	Type 304L	12/10	PI04A	102	122
PEC060/304A	130	150	85	104	124	74	30,5	55	Type 304L	12/10	PI04A	102	122
PE06/304A	190	150	100	164	124	89	55	55	Type 304L	12/10	PI06A	162	122
PE09/304A	210	190	100	184	164	89	55	55	Type 304L	12/10	PI09A	182	162

UL certification to be requested with the order



IP69K IP66 EN 60 529



TYPE NEMA 4X, 4, 1

Standard UL508A - UL50 Standard 250



IK07

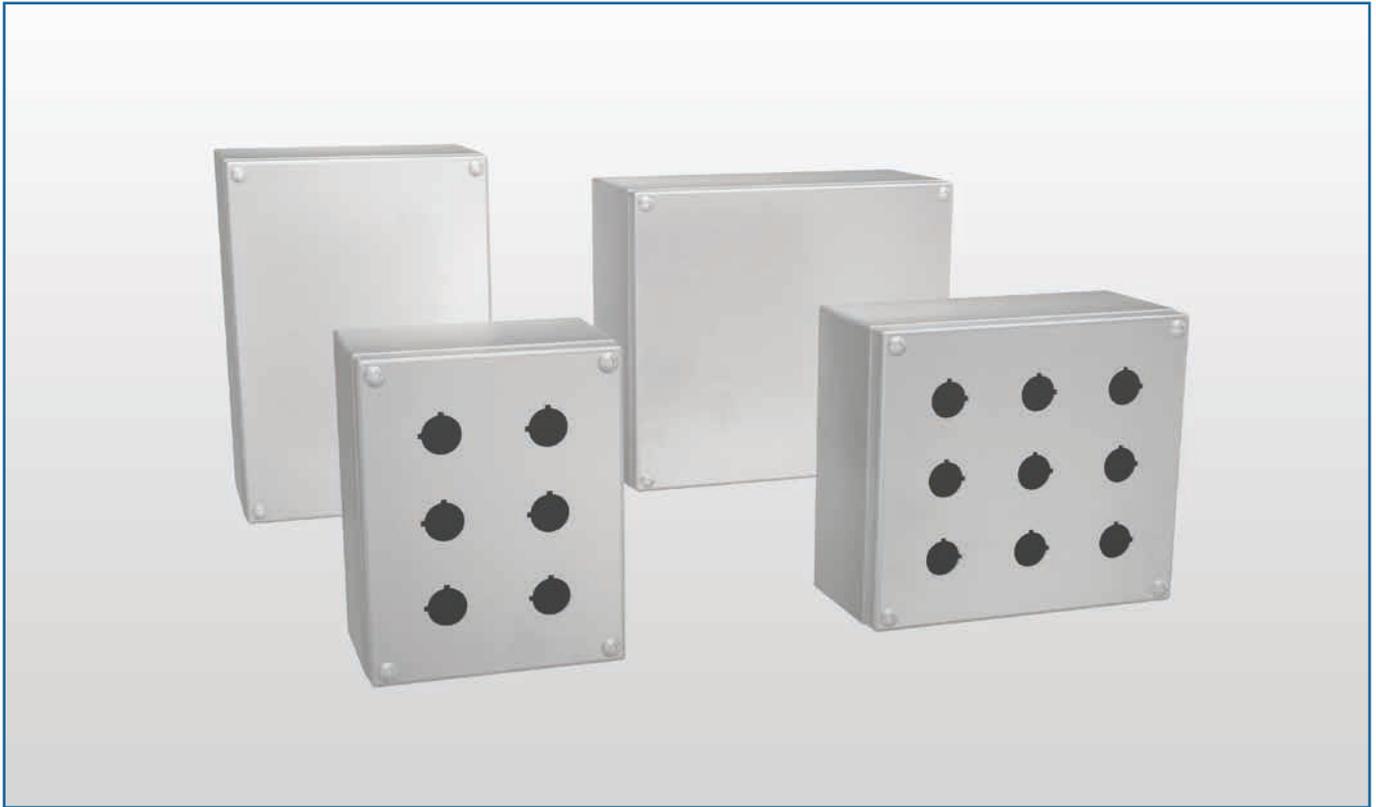
EN 60204-1 89/392/EEC

JUNCTION BOXES DE

Detailed drawings per each box can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			USEFUL SURFACE			MATERIAL		INNER PLATE (OPTIONALS)		
	A	B	C	D	E	F	TYPE	THICKNESS	ITEM	X	Y
DE01/304A	90	90	85	64	64	-	Type 304L	12/10	-	-	-
DE02/304A	90	140	85	64	114	74	Type 304L	12/10	PI02A	62	112
DE03/304A	90	200	85	64	174	74	Type 304L	12/10	PI03A	62	172
DE04/304A	130	150	85	104	124	74	Type 304L	12/10	PI04A	102	122
DE06/304A	190	150	100	164	124	89	Type 304L	12/10	PI06A	162	122
DE09/304A	210	190	100	184	164	89	Type 304L	12/10	PI09A	182	162

UL certification to be requested with the order



WALL-MOUNT FASTENERS



PUSHBUTTONS



WIRED PUSHBUTTON

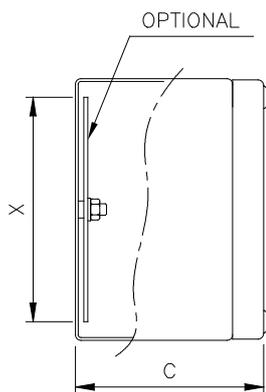
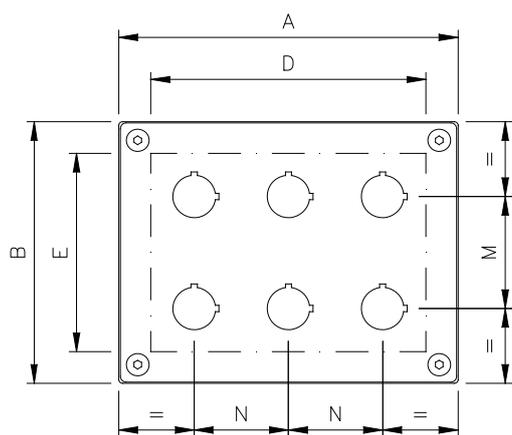


JUNCTION BOX

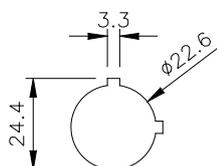
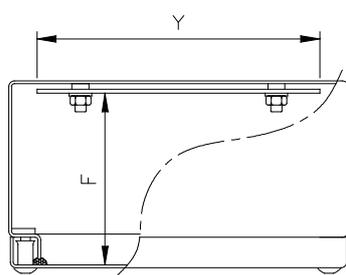
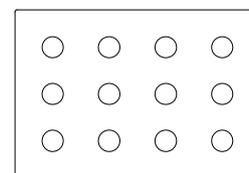


PS PUSH-BUTTON PANELS AND DS JUNCTION BOXES

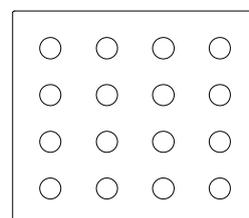
- EN 1.4307 (TYPE 304L) s/s execution, thickness 12/10, fine satin-finish. Available on demand in other types of s/s, as well as customized.
- Cutting-edge welding procedures enable to maintain unaltered the chemical formulation of the material thus avoiding corrosion in the weld areas.
- The cover is secured by special "leak-proof" M5 screws.
- Gasket made of closed-cell foamed silicone rubber, oil-proof and self-extinguishing.
- IP protection degree IP66 and IP69K, when appropriate components are properly installed, as per CEI EN 60529 rules.
- Pre-arrangement for earthing in compliance with the applicable rules. For the push-button panel, a special collar of tinned brass is supplied for positioning under a block, in direct contact with the sheet.
- On the bottom are applied S/S M6 stud bolts to secure structural steel and bars.
- The PS series has a drilled cover to accommodate the $\varnothing 22,5$ standardized push-button panel.
- Inner plate in sendzimir execution (on request).
- The enclosures of the series PS-DS can be pressurized according to CEI 64-2 and CEI 31-1 for A-SI security systems and enclosures featuring Ex-p inside overpressure.



PS12H



PS16H



IP69K **IP66** EN 60 529



TYPE NEMA 4X, 12, 1, 4

Standard UL508A - UL50 Standard 250



EN 60204-1 89/392/EEC

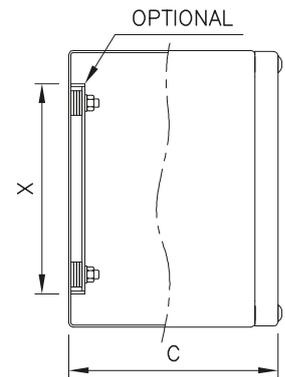
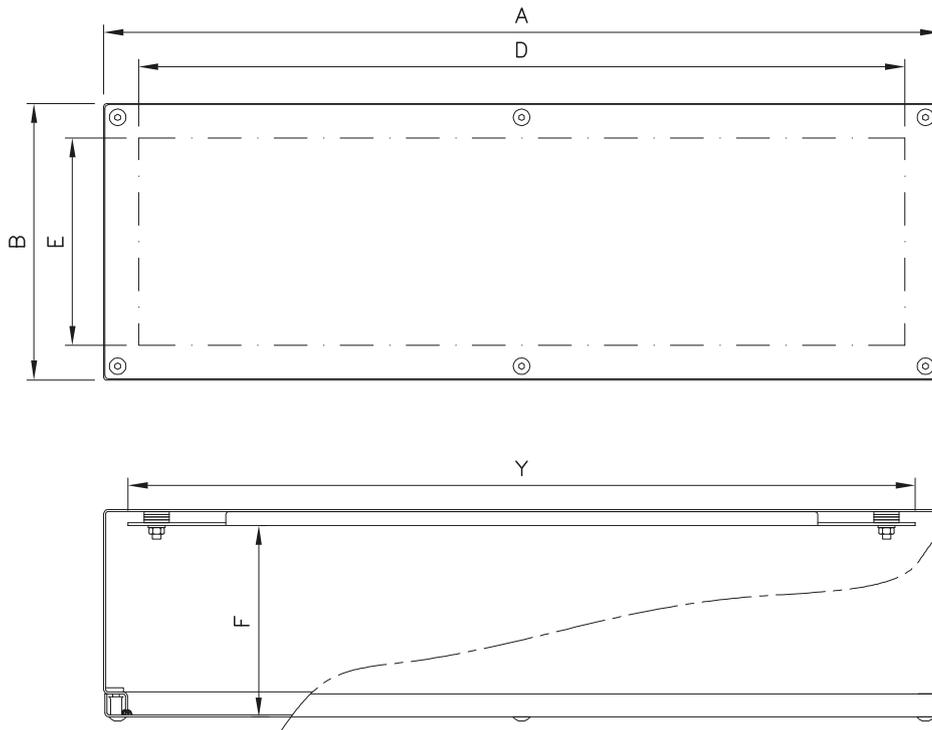
PUSHBUTTONS PS

Detailed drawings per each box can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			USEFUL SURFACE			CENTRE DISTANCE		MATERIAL		INNER PLATE (OPTIONALS)		
	A	B	C	D	E	F	M	N	TYPE	THICKNESS	ITEM	X	Y
PS12H/304	270	190	100	230	150	90	50	60	Type 304L	12/10	PI012	252	150
PS16H/304	270	240	100	230	200	90	50	60	Type 304L	12/10	PI016	252	200
PS12H/316	270	190	100	230	150	90	50	60	Type 316L	15/10	PI012	252	150
PS16H/316	270	240	100	230	200	90	50	60	Type 316L	15/10	PI016	252	200

UL certification to be requested with the order

PUSH-BUTTON BOARDS AND JUNCTION BOXES



IP69K **IP66** EN 60 529



TYPE NEMA 4X, 12, 1, 4

Standard UL508A - UL50 Standard 250



IK10

EN 60204-1 89/392/EEC

JUNCTION BOXES DS

Detailed drawings per each box can be downloaded from our site www.ilinox.com

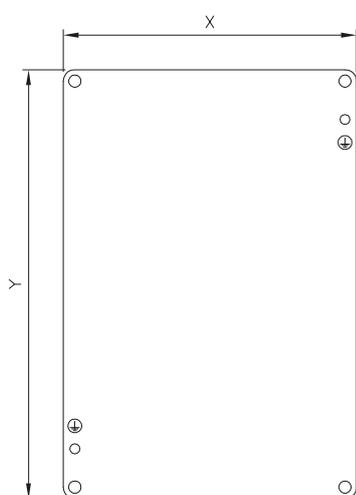
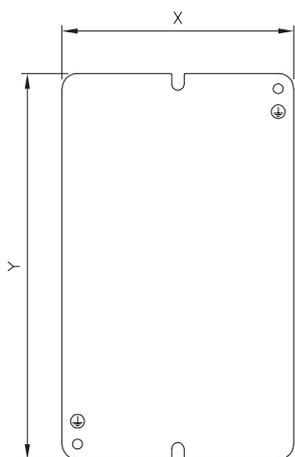
ITEM.	OUTSIDE SIZES			USEFUL SURFACE			MATERIAL		INNER PLATES (OPTIONALS)		
	A	B	C	D	E	F	TYPE	THICKNESS	ITEM	X	Y
DS012/304	270	190	125	230	150	115	Type 304L	12/10	PI012	252	150
DS016/304	270	240	125	230	200	115	Type 304L	12/10	PI016	252	200
DS020/304	320	230	150	280	190	140	Type 304L	12/10	PI020	280	190
DS025/304	320	280	150	280	240	140	Type 304L	12/10	PI025	280	240
DS043/304	400	300	150	360	260	140	Type 304L	12/10	PI043	360	260
DS010/316	210	210	125	170	170	115	Type 316L	15/10	PI010	192	170
DS012/316	270	190	125	230	150	115	Type 316L	15/10	PI012	252	150
DS016/316	270	240	125	230	200	115	Type 316L	15/10	PI016	252	200
DS020/316	320	230	150	280	190	140	Type 316L	15/10	PI020	280	190
DS025/316	320	280	150	280	240	140	Type 316L	15/10	PI025	280	240
DS040/316	400	200	150	360	160	140	Type 316L	15/10	PI040	360	160
DS060/316	600	200	150	550	150	140	Type 316L	15/10	PI060	565	152

NOTES: DS006 e DS016 n. 2 stud bolts for fixing DIN bar or inner plate.
From DS020 to DS060 n. 4 stud bolts for fixing inner plate.

UL certification to be requested with the order

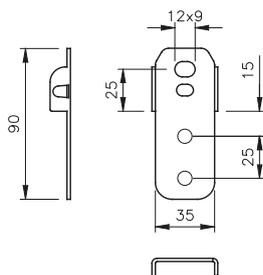
INNER PLATES

Available starting from models PS02, DS02, PE02, DE02, PEC03 and PEC04, they come in sendzimir execution and, on demand, in s/s. The plate is secured by the stud bolts set inside the enclosure.



ITEM	SIZES		MATERIAL	FOR BOX
	X	Y		
PI02A	62	112	SENDZIMIR	PE02 - DE02 - PEC03 - PEC04
PI03A	62	172	SENDZIMIR	PE03 - DE03 - PEC05 - PEC06V
PI04A	102	122	SENDZIMIR	PE04 - DE04 - PEC060
PI06A	162	122	SENDZIMIR	PE06 - DE006
PI09A	182	162	SENDZIMIR	PE09 - DE09
PI010	192	170	SENDZIMIR	DS010
PI012	252	150	SENDZIMIR	PS012 - DS012
PI016	252	200	SENDZIMIR	PS016 - DS016

ITEM	SIZES		MATERIAL	FOR BOX
	X	Y		
PI020	280	190	SENDZIMIR	DS020
PI025	280	240	SENDZIMIR	DS025
PI040	360	160	SENDZIMIR	DS040
PI043	360	260	SENDZIMIR	DS043
PI060	565	152	SENDZIMIR	DS060



WALL-MOUNT FASTENERS

TYPE 316 s/s execution, they come in assembling kit and can easily be applied by drilling two holes $\varnothing 8$ in the enclosure bottom. Water proofing and tightness to dust remains unchanged since they are equipped with suitable seals.

- **SP021** – 2 pcs kit.
- **SP025** – 4 pcs kit (for DS040, DS043, DS060)

OTHER ACCESSORIES

IN THE SECTION "ACCESSORIES FOR SMALL CABINETS"

Cable Glands



Grip Handles



IN THE SECTION "ACCESSORIES FOR CABINETS"

Electroconductive Gasket





Our secret? Help you in saving money over time.

Actual saving through premium quality performances consistent over time.

Long-lasting efficiency and superior performance of our products for real cost-efficiency. Few and simple maintenance interventions, same as cleanability and sanitary grade, unique features of stainless steel. Ilinox technological know how and skill does not fear time going by: our products are engineered and manufactured to last and keep yielding the maximum.

5

PRODUCT	PAG.
CONTROL BOX & HANGING SYSTEMS	
Control Box BK	118
Articulated arms	120
Hanging systems	122

CONTROL BOX & HANGING SYSTEMS



BRACKET GM60



SUSPENSION SYSTEM

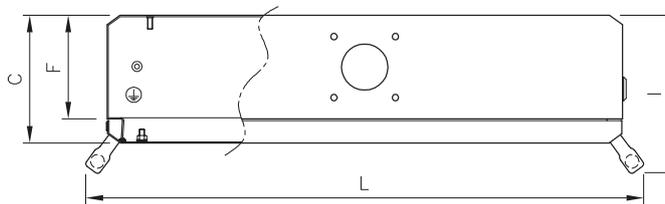
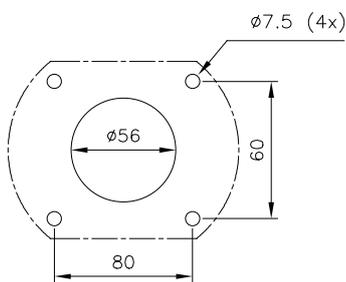
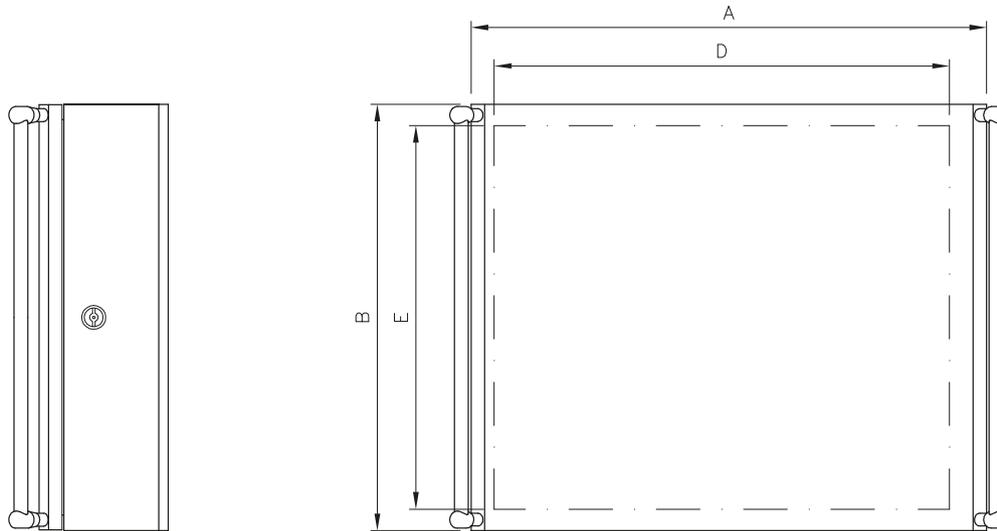


WIRED BK CONTROL BOX



CONTROL BOX SERIES BK

- EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished and protected.
- Enclosure obtained from a single sheet, thickness 15/10 shaped by multiple bends of the front edge, door with radial corners.
- Enclosures drilled for the assembling of articulated arms type TJ-TS-TL with rotary joint code GKS.
- Full door, hinged, side lock to take maximum advantage of the drilling space.
- Existing provision inner plate. Plate to require as optional.
- Ergonomic grip handles, TYPE 304 s/s, available on request.
- Inner hinges, s/s: 120° opening as per CEI EN 60204-1 recommendations.
- Foamed polyurethanic bi-component seal.
- Prearranged for earthing according to the regulations in force.
- Protection degree IP66 and IP69K.
- Twin-comb lock of the standardized type Ø 3 for Low Voltage, s/s outside.
- Joint GKS excluded (to be ordered separately).



IP69K

IP66

EN 60 529

EN 60 529/AI



IK10

EN 60-204-1 89/392/EEC

Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			USEFUL SURFACES			OVERALL DIM. WITH HANDLES	
	A	B	C	D	E	F	I	L
BK33AM	350	300	130	280	250	102	165	400
BK43AM	450	350	130	380	300	102	165	500
BK44AM	450	450	130	380	400	102	165	500
BK54AM	520	450	130	450	400	102	165	570
BK55AM	500	500	130	430	450	102	165	550
BK65AM	600	500	150	530	450	122	185	650
BK75AM	675	550	150	605	500	122	185	650
BK33A	350	300	130	280	250	102	not present	
BK43A	450	350	130	380	300	102	not present	
BK44A	450	450	130	380	400	102	not present	
BK54A	520	450	130	450	400	102	not present	
BK55A	500	500	130	430	450	102	not present	
BK65A	600	500	150	530	450	122	not present	
BK75A	675	550	150	605	500	122	not present	

UL certification to be requested with the order



BRACKET GM60



SUSPENSION SYSTEM



ARTICULATED JOINT

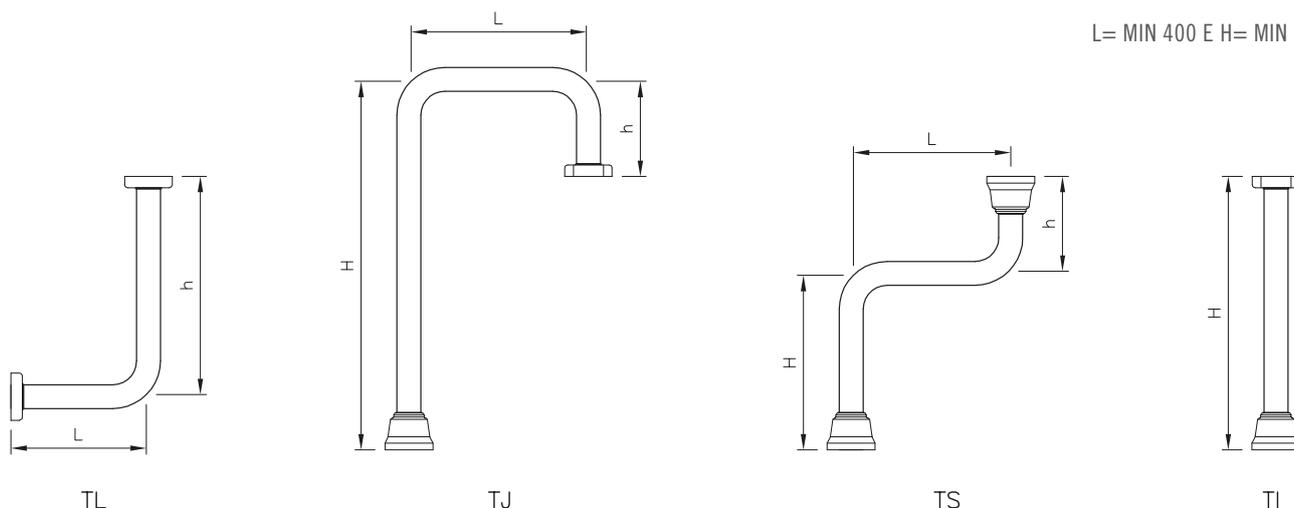


ARTICULATED ARMS

- EN 1.4307 (TYPE 304L) s/s tube execution, \varnothing . 60.3 thick.3, satin-finish: on demand polish or micro-peening finish available.
- Available bent to "L", "J" or "S" shape, or "I" shape.
- Some widths are preset and available from the stock (see table), other sizes are available on demand.
- Fixed or articulated joints can be set on the ends, to meet different needs.
- The arm is usually delivered with joints on. Since the GKSA and GCSA joint can be installed without welds, they can be fitted directly by customer after adjusting the arm to its needs.

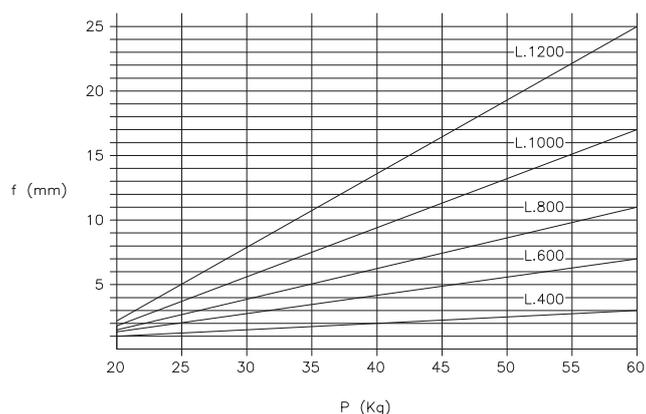
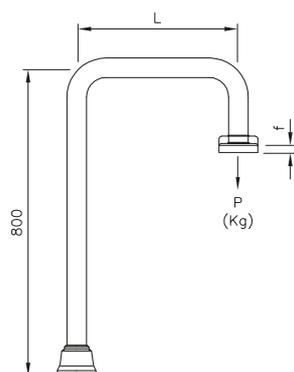
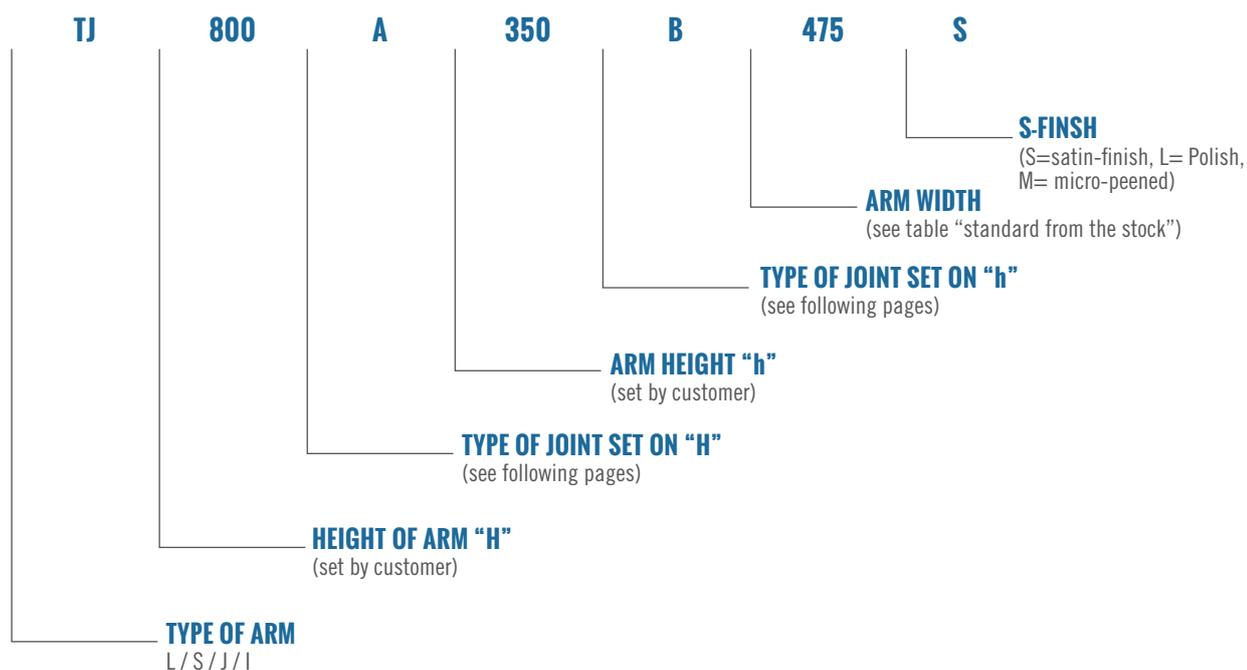
NOTE: if the arm is expected to support any item other than our boxes series BC-BK, the stiffness of the wall to be supported needs checking.

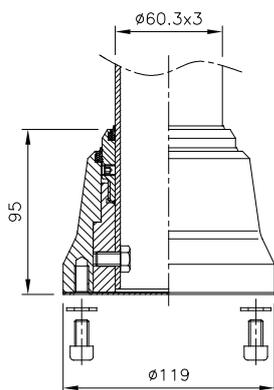
L= MIN 400 E H= MIN 240



Standard sizes from the stock: L= 400 – 475 – 550 – 625 – 700 – 775
Other sizes available on demand.

ORDERING CODE IDENTIFICATION TABLE

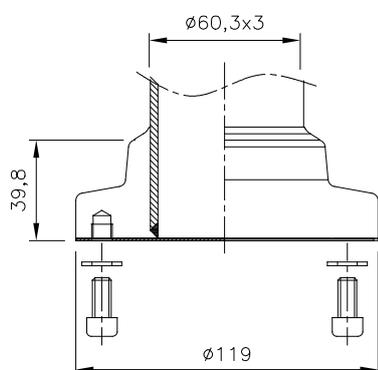




ARTICULATED JOINT GCSA ('A')

EN 1.4307 (TYPE 304L) s/s execution, complete with seal to guarantee tightness. The special form and the manufacturing criteria guarantee high stiffness and make it suitable for use either at the bottom of the arm or for coupling with big-sized control boxes or bottom-supported ones. The frame on which the joint is to be fastened must be very stiff. Since the joint can be installed without welds, it can be assembled directly by customer after adjusting the arm to its needs. The rotation angle can be limited to 85°, 175°, 265° or 355°.

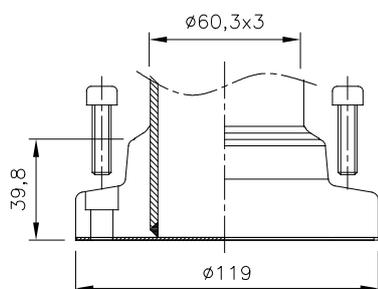
- **GCSA** – universal articulated joint, IP66 and IP69K



ARTICULATED JOINT GKSA ('B')

EN 1.4307 (TYPE 304L) s/s execution, complete with gaskets to Guarantee tightness, its simple and unitized shape makes it particularly for coupling with hanging control boxes. The joint does not require any weld, hence it can be installed directly by customer after adjusting the arm to its needs. Comes complete with a retainer that limits its rotation to 85°-175°- 265°-355°. It's possible to fix the joint.

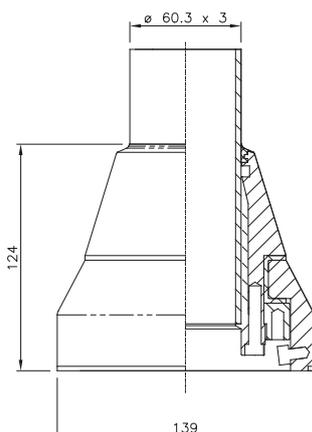
- **GKSA** – articulated joint for coupling with control boxes BK, IP66 and IP69K



ARTICULATED JOINT GKSEA ('C')

EN 1.4307 (TYPE 304L) s/s execution, complete with gaskets to Guarantee tightness, its simple and unitized shape makes it particularly for coupling with hanging control boxes. The joint does not require any weld, hence it can be installed directly by customer after adjusting the arm to its needs. Comes complete with a retainer that limits its rotation to 85°-175°- 265°-355°. It's possible to fix the joint. It's possible to fix the joint. Can be fixed from the outside of the frame on which it is set.

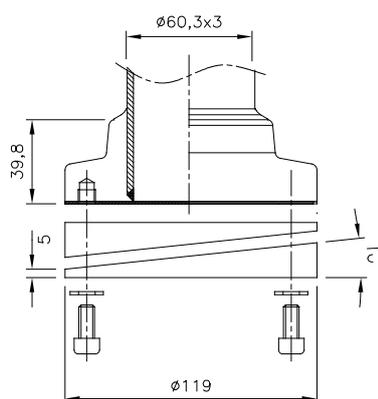
- **GKSEA** – articulated joint for coupling with control boxes BK, IP66 and IP69K



ARTICULATED JOINT GRH ('D')

EN 1.4307 (TYPE 304L) s/s execution, complete with blue seal to guarantee tightness. The special form and the manufacturing criteria guarantee high stiffness and make it suitable for use either at the bottom of the arm or for coupling with big-sized control boxes or bottom-supported ones. The frame on which the joint is to be fastened must be very stiff. Since the joint can be installed without welds, it can be assembled directly by customer after adjusting the arm to its needs. Internal clutch to guarantee easily rotation.

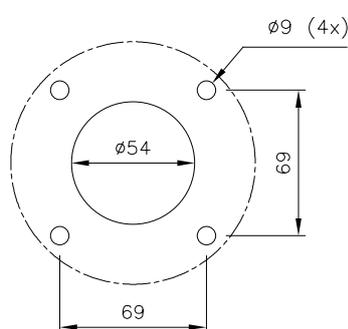
- **GRH** – universal articulated joint



ARTICULATED JOINT GKSHA ('E')

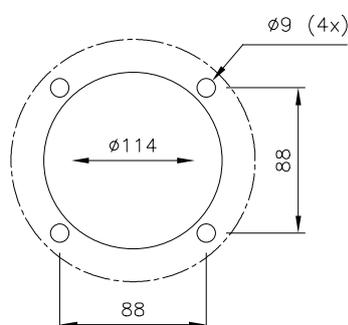
Universal articulated joint EN 1.4307 (TYPE 304L) s/s execution, complete with seal to guarantee tightness. The special form and the manufacturing criteria guarantee high stiffness and make it suitable for use either at the bottom of the arm or for coupling with big-sized control boxes or bottom-supported ones. The frame on which the joint is to be fastened must be very stiff. Since the joint can be installed without welds, it can be assembled directly by customer after adjusting the arm to its needs. The rotation angle can be limited to 85°, 175°, 265° or 355°. It's possible to fix the joint. With sloping flange 10°

- **GKSHA** – universal articulated joint for BKH, IP66 and IP69K



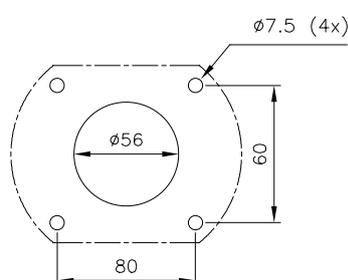
DRILLING TEMPLATE

- **TEMPLATE GCSA**



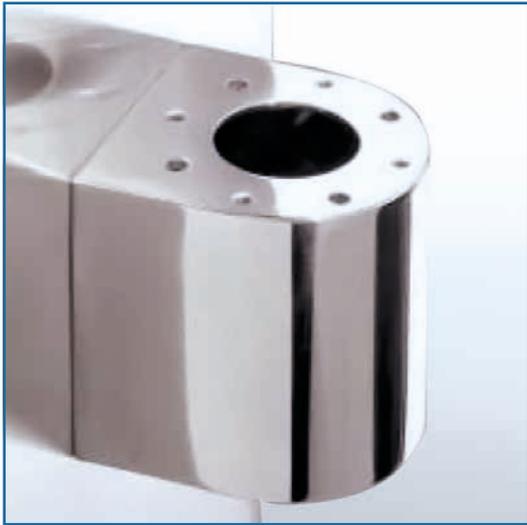
DRILLING TEMPLATE

- **TEMPLATE GRH**



DRILLING TEMPLATE

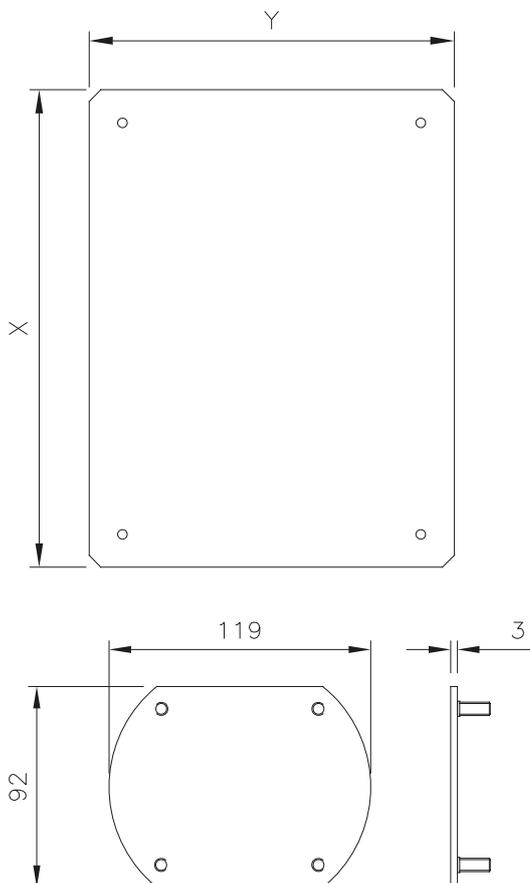
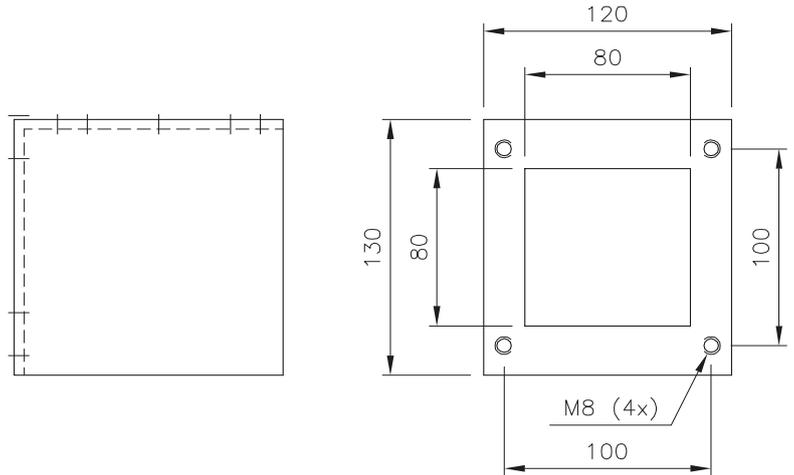
- **TEMPLATE GKSA**



BRACKET GM60

All EN 1.4307 (TYPE 304L) s/s execution, polished, sturdy and mirror or satin. To be bolted, after assembling the articulated joint with the arm, from the inside of a stiff frame. This kind of assembling avoids the presence of exposed screws and assures maximum hygienic conditions; when this is not possible, combine it with the FFM flange for outside fixing.

- **GM60** – rounded bracket mirror
- **GM60S** – rounded bracket satin



INNER PLATES

They come in sendzimir execution and, on demand, in s/s. The plate is secured by the stud bolts set inside the enclosure.

INNER PLATES BOX		
	X	H
PIBC32	333	152
PIBC43	433	227
PIBC53	505	277
PIBC64	580	327
PIBK33	306	252
PIBK43	306	406
PIBK44	406	406
PIBK54	476	406
PIBK55	456	456
PIBK65	556	456

PLUG

EN 1.4307 (TYPE 304L) s/s execution, fine satin-finish. Closing plug hole, for box item BK and BC.



We protect the quality level of our products.

Actually certified safety and reliability.

Ilinox customers are always assured that our products are regularly tested.

All our products are tested and certified according to the most stringent international standards. The trademark and the certification code affixed guarantee that the product purchased has been checked and approved according to the most exacting quality standards.

PRODUCT	PAG.
IECEX ATEX LINE	
Directive 2014/34/UE "ATEX"	128
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Small cabinets QLP-EX	136
Connectors DS-EX	138

6

IECEX ATEX LINE



Product line "ATEX"

In today's manufacturing, each processing stage can be a source of risks susceptible to explosions which, unless kept under control, can result in extensive injury to persons as well as in damage to the environment and the machinery. This risk exists in many companies in the chemical, petrochemical and pharmaceutical sector, where the production of potentially harmful gas-originated atmospheres can become extremely actual.

Not to be disregarded are also certain manufacturing conditions where the presence of fine organic powders from wood processing, light metal machining, in feed-stuff factories and in mills producing meals for the food industry can in turn produce the build-up of easily inflammable powders.

A strong sense of responsibility is required from all those who manufacture machinery or provide components engineered to operate on plants being classified as dangerous, in order to minimize the risks for human life.

To this effect, the regulations and directives in force at European and international level take into consideration the increased need for commitment to safety.

Directive 2014/34/UE "ATEX" (ATMOSPHERES EXPLOSIBLES)

The Directive is MANDATORY since 1st July 2003.

The Directive applies to protection Equipment or Systems designed to operate in areas exposed to the risk of explosion. "Equipment, means the machines, materials, fixed or mobile devices, controls, instruments and detection and prevention systems which, on their own or when combined, are intended for the production, transport, storage, measuring, adjustment, conversion of energy and for the transformation of materials that, due to their own specific potential priming sources, are at risk of causing explosion."

In order to be potentially explosive, there must be in the atmosphere the simultaneous presence of the three conditions of the so-called flame triangle.

PRIMING (flame, electric arc, hot body, impact, friction among surfaces)

COMBURENT (air, oxygen)

FUEL (gas, vapours, dusts, mists)

The priming conditions takes place when a specific mix occurs between comburent and fuel.

It is very important for the person in charge with the equipment operation to classify the area of installation, to make sure the materials used comply with the intended use.

The explosion-proofing requirements are quite demanding.

Ilinox containers meet these standards. Relentless research and development, pooled with a continuously expanding program, guarantee the connector blocks and the s/s boxes for areas Ex 1 and 2 with explosive gases and for areas EX 21 and 22 with explosive dusts.

The relevant conformity certificate compliant with Directive 2014/34/UE is available for all containers.

With long-lasting skill and utmost professional accuracy, Ilinox manufactures its enclosures exclusively from stainless steel, for complex and hazardous applications.

Great attention is paid mainly to Directives, laws and regulations having international validity and it is exactly within this frame that a key role is played by the close contact with engineering certifying Bodies.



GROUPS OF EQUIPMENT

GROUP	
I	Equipment intended for use in underground jobs in mines or in the relevant surface plants, exposed to the risk of firedamp burst and/or flammable powders.
II	Appliances intended for use in other environments where the presence of explosive atmospheres is possible.

GROUP II		
SUBSTANCE	AREA	DESCRIPTION
GAS "G"	0	Place where an explosive atmosphere formed by a mixture of air and flammable substances in the form of gas, vapour or mist is present either continuously or for long periods, or often (1.000 h/year at least).
	1	Place where an explosive atmosphere formed by a mixture of air and flammable substances in the form of gas, vapour or mist is present occasionally during routine operation (More than 10 , up to 1.000 h/year)
	2	Place where an explosive atmosphere formed by a mixture of air and flammable substances in the form of gas, vapour or mist is unlikely to occur during routine operation but, when present, only lasts shortly (NEVER longer than 10 h/year)
DUST "D"	20	Place where an explosive atmosphere in the form of a fog of a combustible dust is present in the air, either continuously, for long periods, or often.
	21	Place where an explosive atmosphere in the form of a fog of combustible dust is likely to occur occasionally during routine operation.
	22	Place where an explosive atmosphere in the form of a fog of combustible dusts in the air is unlikely to occur during routine operation but, when present, only lasts shortly. (NOT longer than 10 h/year)

CLASS OF THE EQUIPMENT	AREA	PROTECTION LEVEL	PROTECTION METHOD SERVICEABLE
1G	0	Very high	ia ÷ ma
2G	1	High	d ÷ e ÷ ib ÷ m ÷ o ÷ q ÷ p
3G	2	Standard	N
1D	20	Very high	IP6X
2D	21	High	IP6X
3D	22	Standard	IP6X (Conductor powders) IP5X (Non-conductor powders)

The protection method applied to higher classes can be applied to lower classes, too.

Protection methods

- Containment
- Prevention
- Insulation

Containment

The limitation of the explosion must permit to confine the explosion in a clearly defined place without propagation to the surrounding atmosphere. (d)

Prevention

The specificity of this method is to increase reliability of the electric components which, in routine operation, cannot make sparks nor reach surface temperatures capable of priming the explosive mixture. (ia ÷ ib ÷ e ÷ n)

Insulation

The specificity of this method is to physically separate or isolate the live electric components or hot surfaces from the explosive mixture, to prevent contact with the priming source. (p ÷ ma ÷ m ÷ o ÷ q)

Description of protection methods

ia ÷ ma	Inherent safety: use of components that cannot produce arcs or sparks.
ma ÷ m	Capping: closing the components into small tight caps.
d	Explosion-proofing: Closing the dangerous parts into strong cases thus limiting the explosion.
e	Increased safety: Take measures to avoid the formation of hot spots. Only for NON sparking equipment.
o	Immersion into oil: protection of the hazardous areas by dipping them into dielectric oil.
q	Under sand: filling static components with sand to isolate the hot spots from the atmosphere.
p	Inner overpressure: filling the cases with overpressurized inert gas to prevent hazardous atmosphere from entering.
n	<p>Simplified protection: Type A for NON sparking equipment, it consists in the application of the following increased safety criteria: Case protection degree IP54 or IP44 Unlosable gaskets, if any. Impact strength 1 ÷ 3,5 J Protection grid for fragile parts, mesh NOT more than 50x50 Monitoring of surface temperature</p> <p>Type B for SPARKLING equipment, it consists of the application of the increased safety criteria indicated for class A, limited venting with suitable gaskets and cable glands.</p>



For protection methods “d” ÷ “i” and, sometimes, “n” three classifications exist as follows:
II GA ÷ II GB ÷ II GC, the difference consisting in the type of gas present in the installation area.

The protection degree required for an higher class can apply also to lower ones.

Temperature Classes

The temperature class is related with the maximum temperature, which MUST NOT be overcome in the casings or the exposed hot spots, in case of any failure.

TEMPERATURE CLASS	T1	T2	T3	T4	T5	T6
Max Surface Temp. (°C)	450	300	200	135	100	85

ILINOX

has achieved the ATEX and “IECEx” certification for the connector blocks type DS and the Cabinets type QL - QLP with single and solid door.

The types mentioned above can be used in the electric protection type “eb”, “tb” (only for QL-EX and QLP-EX), “eb”, “ta” (only for DS-EX), or whenever the IP protection degree is the only tightness degree required.

The choice of the type of protection is always the Fitter’s responsibility.

Marking: enclosures are considered components, hence they DO NOT bear the CE MARK. Example of marking:

Marking for small cabinets QL and QLP



Marking for connector blocks DS



Our enclosures are fit for:

- Class 1D (area 20) for connector blocks Series DS-EX
- Class 2G (area 1) and 2D (area 21)

An higher approval covers the lower classes, as well, hence they are also fit for:

- Class 3G (area 2) and 3D (area 22)

For class 1G (area 0) the enclosure can be delivered with only the declaration of the IP degree and, possibly, a declaration for the materials employed, the validation procedure being at the charge of the Fitter of the equipment.

MARKING LEGEND

II	- Equipment Group
1- 2 - 3	- Equipment Class
G	- Fit for environments with presence of Gas
D	- Suitable for environments with presence of Dust (Explosive dusts)
U	- Identification of component status
EPT 18 ATEX 3029U	- Number of CE exam Certificate as issued by EUROFIN PRODUCT TESTING
IECEx EUT 18.0016 U	- Number of IECEx TR Certificate

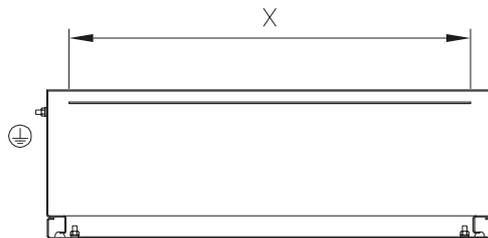
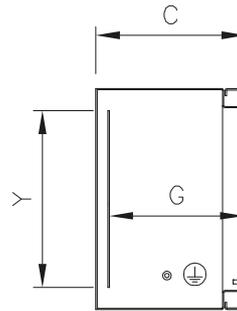
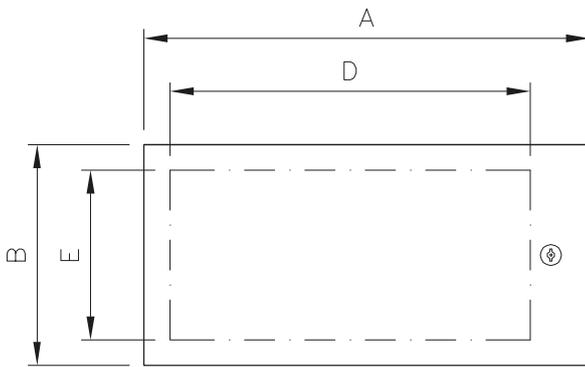
Deliverables:

- a - Declaration of Conformity
- b - Use and Maintenance Manual
- c - Declaration of IP tightness (NOT mandatory)
- d - Declaration of materials employed in manufacturing (NOT mandatory)



SMALL CABINETS SERIES QL - EX

- Material: stainless steel EN 1.4307 (TYPE 304L) or EN 1.4404 (TYPE 316L) scotch brite satin-finish and protection on one side.
- Enclosure obtained from a single sheet, shaped by multi-bending of the envelope front edge.
- Fairlead not included.
- Single full door.
- Locks: twin comb, standardized type Ø 3 for low voltage, s/s outer parts.
- S/s inner hinges: 120° opening as per CEI EN 60204-1 recommendations.
- Seal made of foamed polyurethane or silicone foam.
- The enclosure can be used under the following Maximum Temperatures on the outer surface: from -20°C to + 60°C with seal of bicomponent foamed polyurethan, from -40°C to + 180°C with seal of bicomponent silicone foam.
- Inner plate of EN 10142 sendzimir galvanized sheet, secured to the enclosure bottom by M8 threaded pins, delivered with the cabinet.
- Prearranged for earthing in compliance with the applicable regulations in force.
- Drillings, if any, to comply with the parameters indicated in the instruction manual.
- Protection degree: IP66 (CEI EN 60529).
- Certificates for areas 1 – 2 – 21 -22



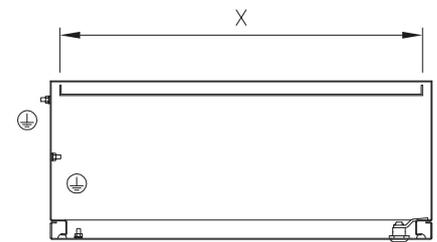
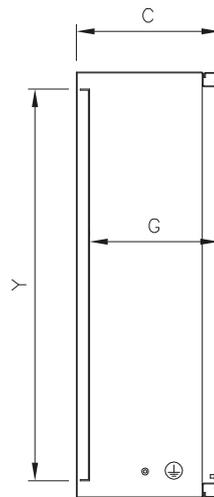
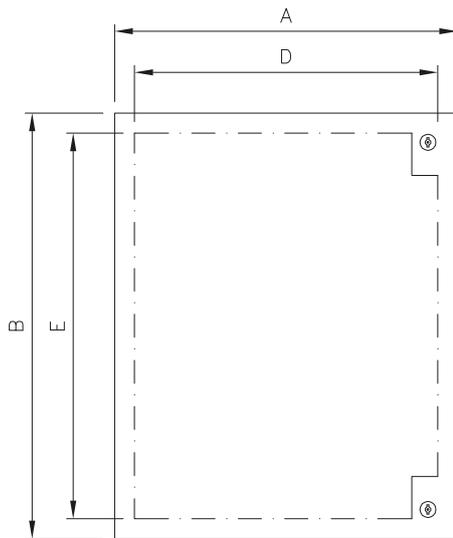
 II 2 GD IP66
 IECEx EUT 18.0016 U
 Ex eb IIC Gb
 Ex tb IIIC Db
 EPT 18 ATEX 3029 U
 NB: 0477

 US LISTED
 FILE N° E237618

Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		USEFUL DEPTH G	MATERIAL		THICKNESS		INNER PLATE	
	A	B	C	D	E		GASKET	CABINET	ECLOSURE	DOOR	X	Y
QL33/304-EX	300	300	180	230	230	160	polyurethane	Type 304L	1,2 mm	1,5 mm	270	240
QL34/304-EX	300	450	200	230	380	180	polyurethane	Type 304L	1,2 mm	1,5 mm	270	390
QL43/304-EX	450	300	200	380	230	180	polyurethane	Type 304L	1,2 mm	1,5 mm	420	240
QL33S/316-EX	300	300	180	230	230	160	silicone	Type 316L	1,5 mm	1,5 mm	270	240
QL34S/316-EX	300	450	200	230	380	180	silicone	Type 316L	1,5 mm	1,5 mm	270	390
QL43S/316-EX	450	300	200	380	230	180	silicone	Type 316L	1,5 mm	1,5 mm	420	240

UL certification to be requested with the order



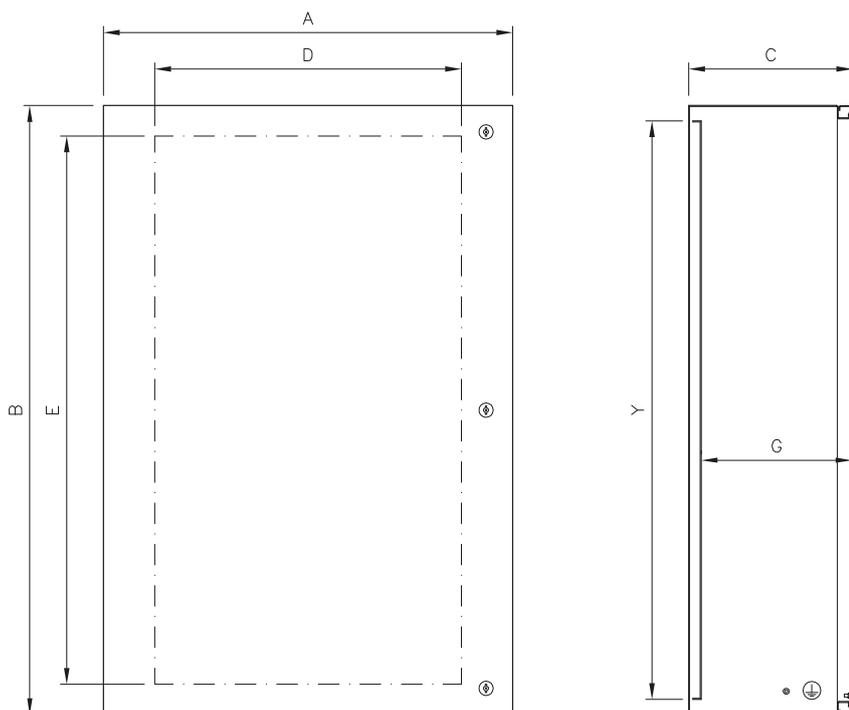
II 2 GD IP66
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	A	B	C	D	E		GASKET	CABINET	ECLOSURE	DOOR	X	Y
QL36/304-EX	300	600	250	230	530	230	polyurethane	Type 304L	1,2 mm	1,5 mm	270	540
QL44/304-EX	450	450	200	380	380	180	polyurethane	Type 304L	1,2 mm	1,5 mm	420	390
QL46/304-EX	450	600	250	380	530	230	polyurethane	Type 304L	1,2 mm	1,5 mm	420	540
QL46P/304-EX	450	600	400	380	530	380	polyurethane	Type 304L	1,5 mm	1,5 mm	420	540
QL64/304-EX	600	450	250	530	380	230	polyurethane	Type 304L	1,2 mm	1,5 mm	570	390
QL66/304-EX	600	600	250	530	530	230	polyurethane	Type 304L	1,2 mm	1,5 mm	570	540
QL66P/304-EX	600	600	300	530	530	280	polyurethane	Type 304L	1,2 mm	1,5 mm	570	540
QL66P4/304-EX	600	600	400	530	530	380	polyurethane	Type 304L	1,5 mm	1,5 mm	570	540
QL67/304-EX	600	750	250	530	680	230	polyurethane	Type 304L	1,5 mm	2 mm	570	690
QL68P/304-EX	600	800	400	530	730	380	polyurethane	Type 304L	1,5 mm	2 mm	570	740
QL69/304-EX	600	900	250	530	830	230	polyurethane	Type 304L	1,5 mm	2 mm	570	840
QL77/304-EX	750	750	300	680	680	280	polyurethane	Type 304L	1,5 mm	2 mm	720	690
QL710/304-EX	750	1000	300	680	930	280	polyurethane	Type 304L	1,5 mm	2 mm	720	940
QL86/304-EX	800	600	300	730	530	280	poliuretano	Type 304L	1,5 mm	2 mm	770	540
QL36S/316-EX	300	600	250	230	530	230	silicone	Type 316L	1,5 mm	1,5 mm	270	540
QL44S/316-EX	450	450	200	380	380	180	silicone	Type 316L	1,5 mm	1,5 mm	420	390
QL46S/316-EX	450	600	250	380	530	230	silicone	Type 316L	1,5 mm	1,5 mm	420	540
QL64S/316-EX	600	450	250	530	380	230	silicone	Type 316L	1,5 mm	1,5 mm	570	390
QL66S/316-EX	600	600	250	530	530	230	silicone	Type 316L	1,5 mm	1,5 mm	570	540
QL67S/316-EX	600	750	250	530	680	230	silicone	Type 316L	1,5 mm	2 mm	570	690
QL69S/316-EX	600	900	250	530	830	230	silicone	Type 316L	1,5 mm	2 mm	570	840
QL77S/316-EX	750	750	300	680	680	280	silicone	Type 316L	1,5 mm	2 mm	720	690
QL710S/316-EX	750	1000	300	680	930	280	silicone	Type 316L	1,5 mm	2 mm	720	940

UL certification to be requested with the order



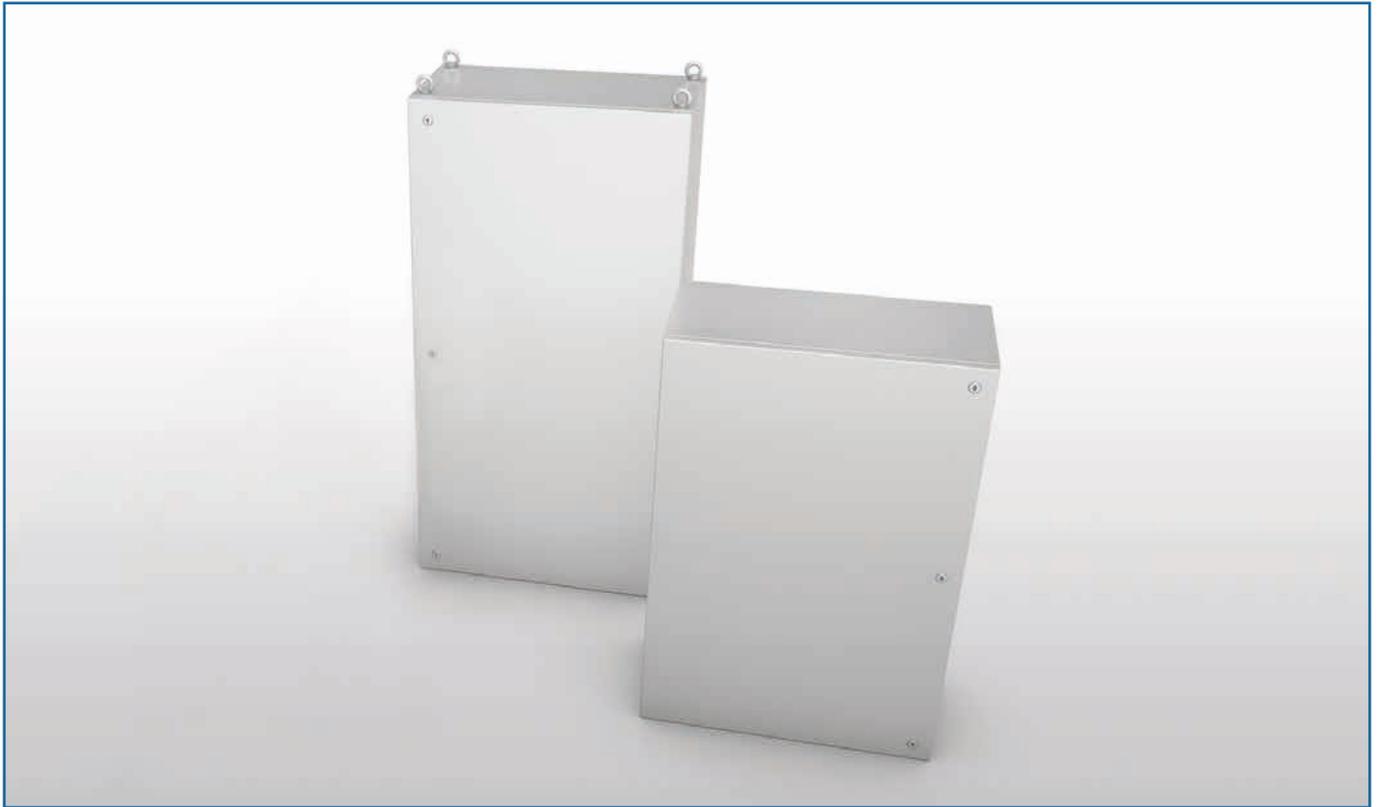
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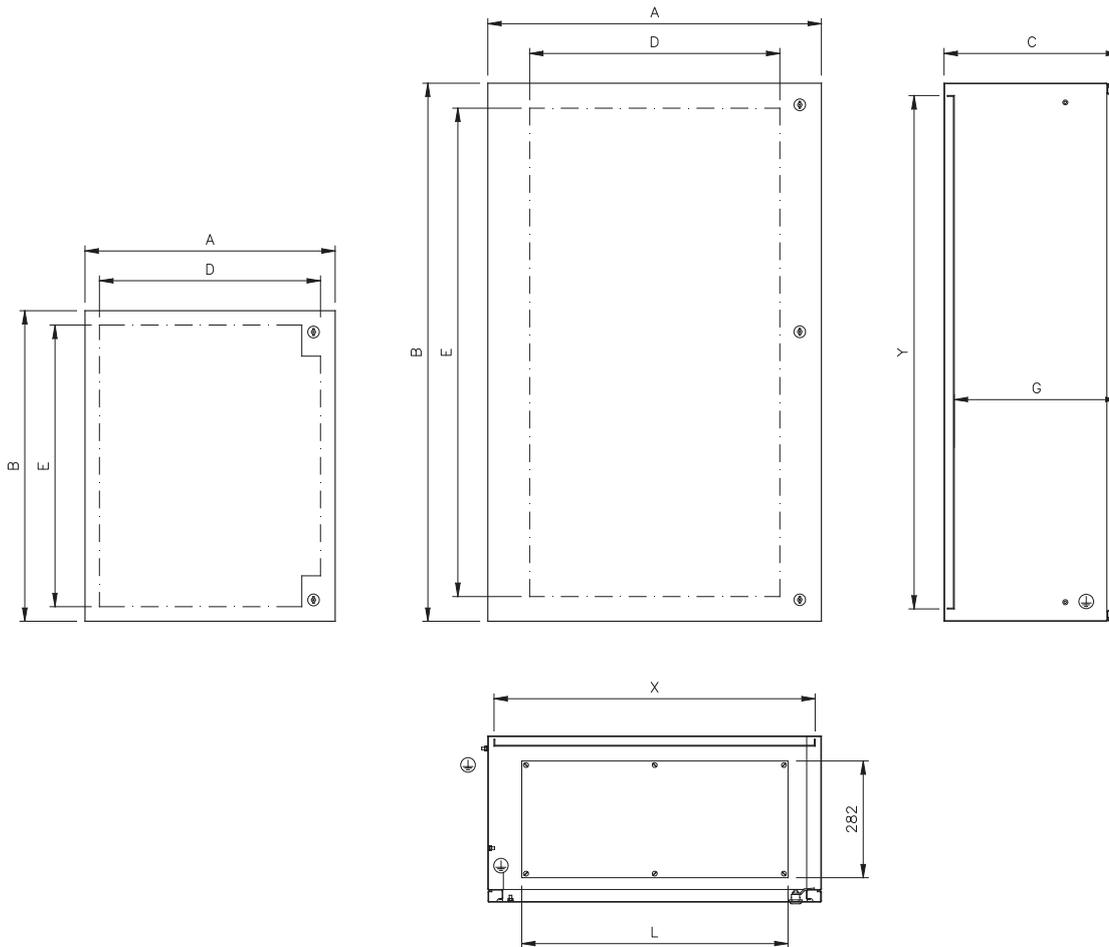
ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		USEFUL DEPTH G	MATERIAL		THICKNESS		INNER PLATE	
	A	B	C	D	E		GASKET	CABINET	ECLOSURE	DOOR	X	Y
QL812/304-EX	800	1200	320	600	1080	300	polyurethane	Type 304L	1,5 mm	2 mm	770	1140
QL812S/304-EX	800	1200	320	600	1080	300	silicone	Type 304L	1,5 mm	2 mm	770	1140

UL certification to be requested with the order



SMALL CABINETS SERIES QLP - EX

- Material: EN 1.4307 (TYPE 304L) s/s, scotch brite, satin-finish and protected on one side.
- Enclosure obtained from a single sheet, shaped by multi-bending of the enclosure front edge.
- Door Locks: twin-comb mapping, standardized type Ø 3 for Low Tension, s/s outside parts.
- S/s inner hinges: 120° opening as per CEI EN 60204-1 recommendations.
- Seal made of foamed polyurethane or silicone foam.
- The enclosure can be used at the following Maximum Temperatures on the outer surface: from -20°C to + 60°C with seal of bi-component foamed polyurethane from -40°C to + 180°C with seal of bi-component silicone foam.
- Inner plate: EN 10142 sendzimir galvanized sheet execution, secured to the bottom of the enclosure by M8 threaded pins delivered with the enclosure.
- Prearranged for earthing in compliance with the applicable regulations in force.
- Drillings, if any, to comply with the parameters indicated in the instruction manual.
- Protection degree: IP66 (CEI EN 60529).
- Certificates for areas 1 – 2 – 21 -22
- Fairlead not provided.



Ex II 2 GD IP66
 IECEx EUT 18.0016 U
 Ex eb IIC Gb
 Ex tb IIIC Db
 EPT 18 ATEX 3029 U
 NB: 0477

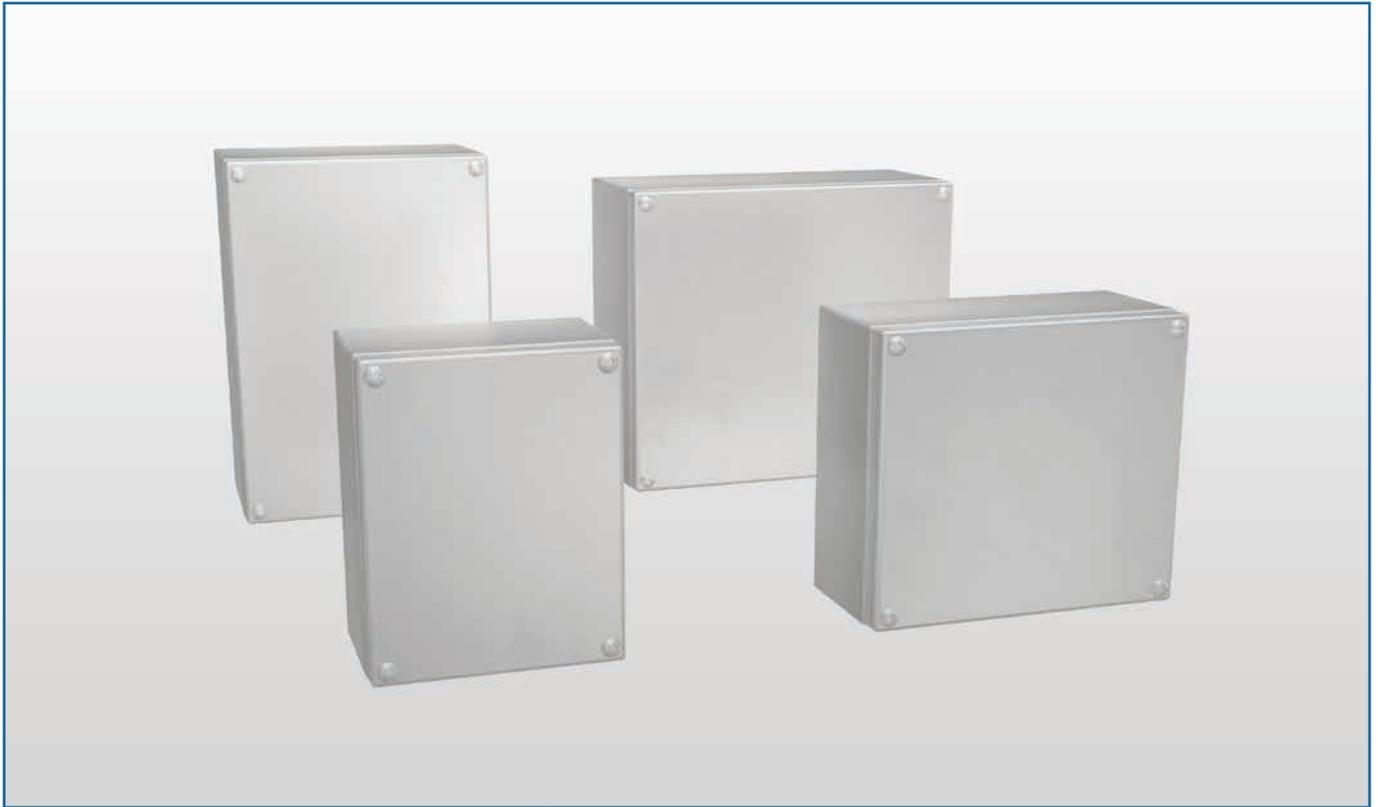
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Detailed drawings per each cabinet can be downloaded from our site www.ilinox.com

ITEM	OUTSIDE SIZES			DOOR USEFUL SURFACE		USEFUL DEPTH	MATERIAL		THICKNESS		INNER PLATE		CABLE WAY
	A	B	C	D	E	G	GASKET	CABINET	ECLOSURE	DOOR	X	Y	L
QLP612-EX	600	1200	400	530	1130	380	polyurethane	Type 304L	1,5 mm	2 mm	570	1140	422
QLP616-EX	605	1600	400	400	1460	372	polyurethane	Type 304L	1,5 mm	2 mm	521	1521	422
QLP812-EX	800	1200	400	600	1080	380	polyurethane	Type 304L	1,5 mm	2 mm	770	1140	622
QLP816-EX	805	1600	400	600	1480	372	polyurethane	Type 304L	1,5 mm	2 mm	721	1521	622
QLP612S-EX	600	1200	400	530	1130	380	silicone	Type 304L	1,5 mm	2 mm	570	1140	422
QLP616S-EX	605	1600	400	400	1460	372	silicone	Type 304L	1,5 mm	2 mm	521	1521	422
QLP812S-EX	800	1200	400	600	1080	380	silicone	Type 304L	1,5 mm	2 mm	770	1140	622
QLP816S-EX	805	1600	400	600	1480	372	silicone	Type 304L	1,5 mm	2 mm	721	1521	622

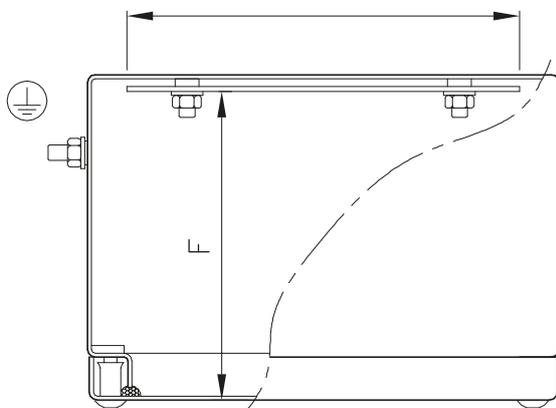
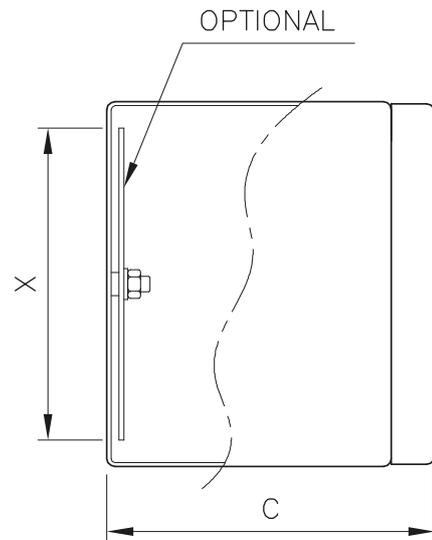
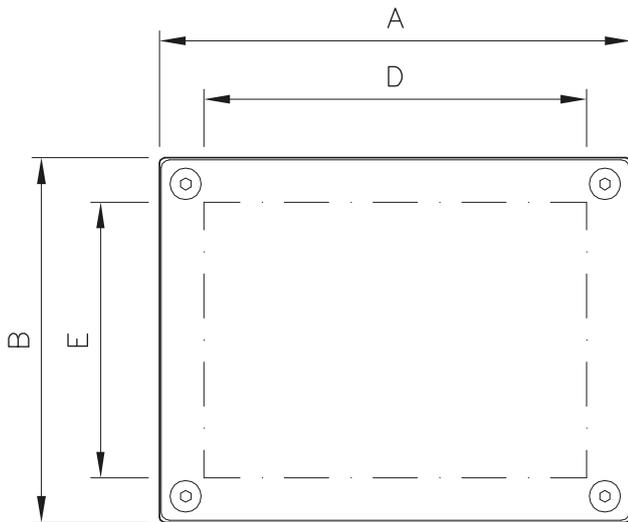
NOTES: QLP612 - QLP812 : three doorlocks
 QLP616 - QLP816 : three doorlocks, hoisting eyebolts.

UL certification to be requested with the order



CONNECTOR BLOCKS DS - EX

- Made of EN 1.4307 (TYPE 304L) or EN 1.4404 (TYPE 316L) s/s, scotch brite, satin-finish, protected on one side.
- The state-of-the-art welding methods adopted permit to maintain unaltered the chemical composition of the material, thus avoiding corrosion phenomena in the weld areas.
- The cover is secured by special "leak-proof" screws M5.
- Seal made of silicone foam.
- The enclosure can be used at the following Maximum Temperatures on the outer surface: from -40°C to + 180°C.
- Pre-arranged for earthing in compliance with the applicable regulations in force.
- S/s stud bolts M6 are set to the bottom to secure bars and structural sections.
- Inner plate in sendzimir execution (on request).
- Drillings, if any, are possible in compliance with the parameters indicated in the instruction manuals.
- Protection degree IP66 (CEI EN 60529).
- Certificates for area 1 - 2 - 20 - 21 -22



II 1D 2G IP66
 IECEx EUT 18.0016 U
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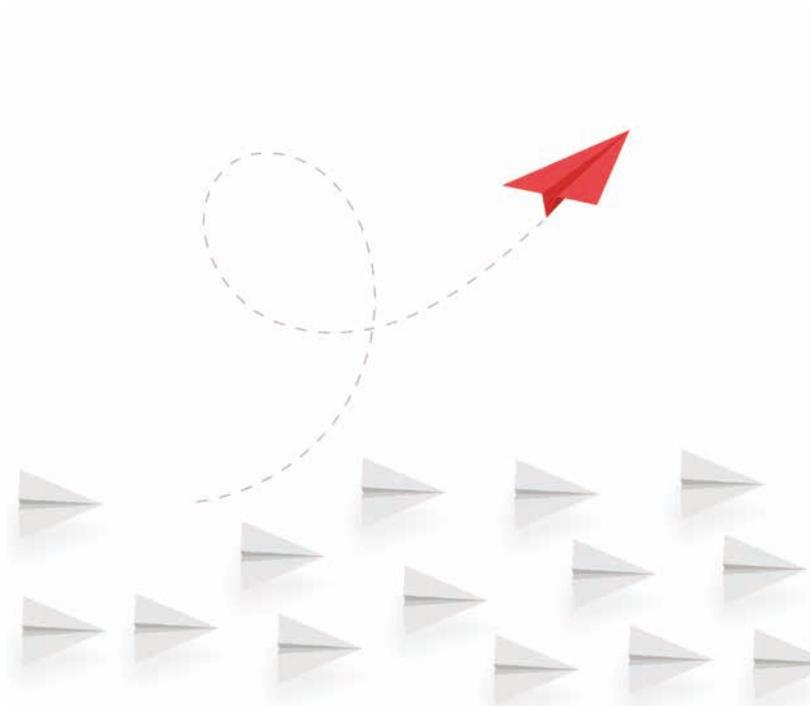
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ITEM	OUTSIDE SIZES			USEFUL SURFACES			MATERIAL			INNER PLATES (OPTIONAL)		
	A	B	C	D	E	F	GASKET	TYPE	THICKNESS	ITEM	X	Y
DS009/304-EX	210	190	125	170	150	118	silicone	Type 304L	1,2 mm	PI009	192	150
DS012/304-EX	270	190	125	230	150	118	silicone	Type 304L	1,2 mm	PI012	252	150
DS016/304-EX	270	240	125	230	200	118	silicone	Type 304L	1,2 mm	PI016	252	200
DS020/304-EX	320	230	150	280	190	143	silicone	Type 304L	1,2 mm	PI020	280	190
DS025/304-EX	320	280	150	280	240	143	silicone	Type 304L	1,2 mm	PI025	280	240
DS043/304-EX	400	300	150	360	260	143	silicone	Type 304L	1,2 mm	PI043	360	260
DS006/316-EX	190	150	125	150	110	118	silicone	Type 316L	1,5 mm	PI006	172	110
DS010/316-EX	210	210	125	170	170	118	silicone	Type 316L	1,5 mm	PI010	192	170
DS012/316-EX	270	190	125	230	150	118	silicone	Type 316L	1,5 mm	PI012	252	150
DS016/316-EX	270	240	125	230	200	118	silicone	Type 316L	1,5 mm	PI016	252	200
DS020/316-EX	320	230	150	280	190	143	silicone	Type 316L	1,5 mm	PI020	280	190
DS025/316-EX	320	280	150	280	240	143	silicone	Type 316L	1,5 mm	PI025	280	240
DS040/316-EX	400	200	150	360	160	143	silicone	Type 316L	1,5 mm	PI040	360	160
DS060/316-EX	600	200	150	550	150	143	silicone	Type 316L	1,5 mm	PI060	565	152

NOTES: from DS006 to DS016 no. 2 studbolts to secure the DIN bar or the inner plate
 from DS020 to DS060 no. 4 studbolts to secure the inner plate

UL certification to be requested with the order



Think different! Our after-sale follow-up makes the difference.

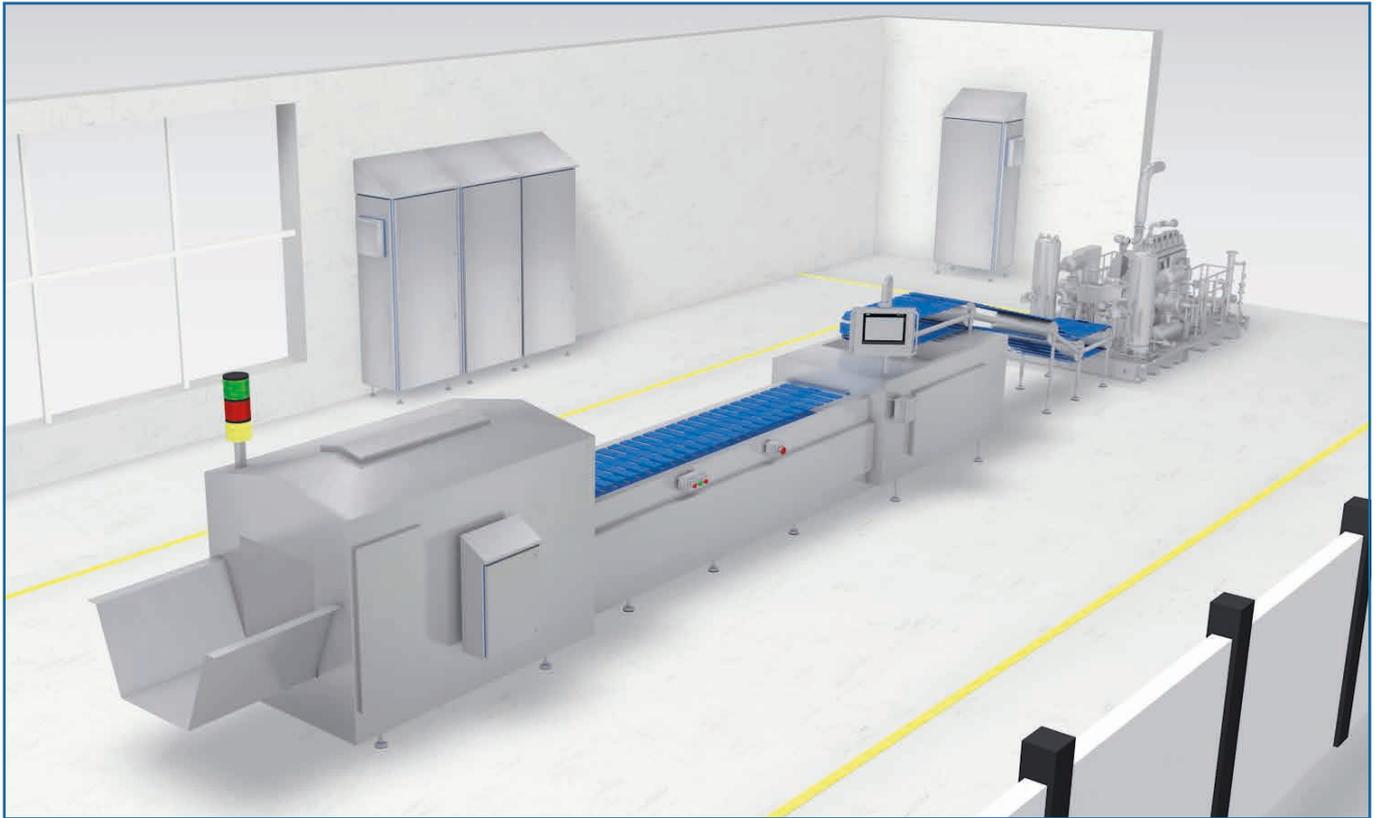
Advice before, during and after purchase. For all your requirements, Ilinox is there.

Through our agents present all over the national territory and the companies represented in the major European towns, inhouse trained skilled personnel, on call every day, to ensure you an accurate pre-sale advice and a timely solution to any problems. Each technician is a great expert of our products.

	PRODUCT	PAG.
	HYGIENIC DESIGN LINE	
	Small Cabinets QSH	144
	Junction boxes DEH and pushbutton boards PEH	146
	Control box BKH	148
	Cabinets CXH	150
	Accessories for Hygienic Design Line	152

7

HYGIENIC DESIGN LINE



It is commonly thought that everything to do with the pharmaceutical and food sector is something we can undoubtedly be absolutely sure about and that foodstuffs, not to mention pharmaceuticals, are produced and treated according to levels of “**Superior Quality**”, so as to guarantee to consumers that the places and equipment involved in the production chain have been engineered in an optimal manner for their intended use and that all necessary measures have been taken in order to guarantee the safety and wholesomeness of the food products.

We would also like to believe that the work of each individual worker, whatever his or her position, is carried out in the awareness of those human and professional ethics that should be applied by all those who are responsible for the safeguarding of our wellbeing and health.

This is what we would like to believe and what we expect both for ourselves and for future generations.

It is clear to all of us that the fundamental aim is the **prevention of microbial contamination of food products**.

Such contamination may originate from raw materials, but a product could also be contaminated by micro-organisms during processing and packaging. If the design characteristics of the machinery are inadequate, this makes for difficulty in cleaning in-between slots and cracks where residues may be trapped, thus enabling micro-organisms to survive and proliferate leading to potential cross-contaminations of subsequent product batches.

Cleaning is thus a question of great importance. Machinery that is difficult to clean will require more rigorous procedures, the use of more aggressive chemicals, and extended cleaning and decontamination cycles. This all entails higher costs, lower production and a shorter life for the machinery.

One of the materials most commonly utilised in the manufacture of machinery for the food industry is stainless steel, which offers excellent protection against corrosion, total lack of toxicity, resistance to both low and high temperatures, good workability and lifetime.

The series 300 austenite steels, such as TYPE 304 - DIN 1.4301, TYPE 304L – DIN 1.4307 and TYPE 316L – DIN 1.4404, provide an excellent guarantee in most applications.

Surface finishings are just as important. The smoother the surface, the lower the risks of clinging dirt and hence the easier it is to clean.

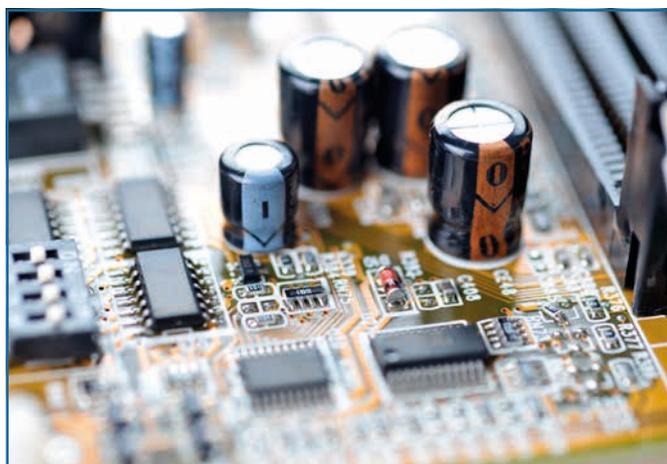
Also of fundamental importance is the use of Polymeric and/or Elastomer materials having specific properties of resistance to chemicals, operating temperatures, steam, mechanical stress, and hydrophobicity, cleanability and resistance to abrasion, to name but a few of the stringent characteristics required for use in food and pharmaceutical environments.

For its products Ilinox utilises silicone rubber, which is suitable for applications up to 180°C. To this end, machines are designed, manufactured and installed in accordance with criteria of absolute hygiene so as to avoid negative effects on the quality of foodstuffs or pharmaceuticals, following guidelines giving fundamental indications as to how to tackle the above mentioned problems.

First and foremost among these are the **EHEDG Guidelines (European Hygienic Engineering & Design Group)**, a Body composed of a panel of experts who work together to define the criteria for the sanitary planning of the machines, followed by the well known FDA (Food and Drugs Administration) Guidelines, and those of ASME BPE (Bio Processing Equipment), to name but a few of the most important and authoritative.

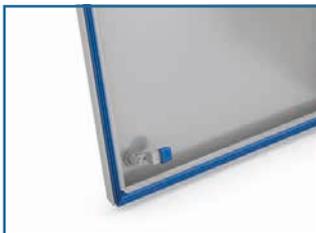
Improvisation and approximation have never led to satisfactory results; only those companies that are diligent and well prepared are suitable partners in your requirements of **“Superior Quality”**.

Ilinox has always been mindful of all these considerations, above all when the interests of everyone are at stake and when your expectations of quality do not allow you to accept any compromise whatsoever.





REMOVABLE GASKET



The gasket, made of blue silicon to point out filth, can be removed and sanitized.

NO GAPS



Door protection roof, with flush gasket, rounded corners, no gaps.

SLOPING ROOF



Built-in roof, 30° slope, to prevent build-up of filth and facilitate drainage of liquids.

EASY CLEANING

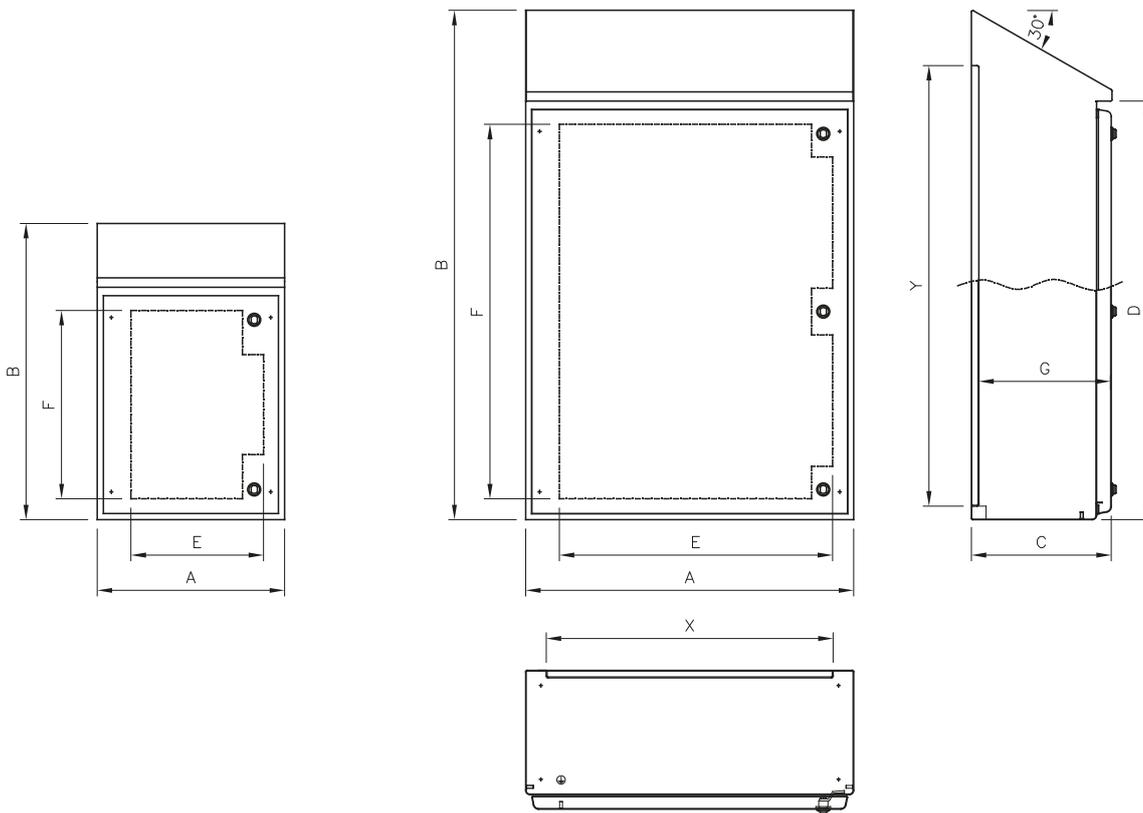


The distance between the sloping roof and the door does not create gaps while facilitating cleaning.

SMALL CABINETS QSH

The small cabinets of the QSH Line meet the requirements for use in food, dairy, pharmaceutical industries as well as in all those environments where hygienic-sanitary regulations must absolutely be complied with (Directive on machinery 2006/42/EC DIN EN 1672-2-2005, Documents EHEDG 8 E 13).

- Material: EN 1.4307 (TYPE 304L) or, on request, EN 1.4404 (TYPE 316L) finely satin-finish.
- Enclosure obtained from a single sheet, shaped by multiple bending of the front edge; 30° slope roof to facilitate cleaning and liquid drainage.
- Full and Solid front door (max. weight admitted 12 kg).
- Roof shaped 30° slope to prevent filth build-up while facilitating the drainage of liquids and cleaning activities.
- Doorlock without recesses and/or gaps; outside surfaces made of EN 1.4404 (TYPE 316L), shaped as per sanitary regulations DIN EN 1672-2 and DIN EN 14159.
- Inner hinges: 120° opening according to CEI EN 60204-1 recommendation.
- Removable Gasket, made in a single piece molded light blue silicon, cleanable and sterilizable.
- Inner plate made of galvanized sheet sendzimir EN 10142 secured to the bottom of the enclosure by threaded pins M8 welded inside of the enclosure.
- Pre-arrangement for earthing in compliance with the applicable rules.
- Sendzimir inner plate to be ordered separately.
- Protection degree: IP66, IP69K.



IK10 IP66 IP69K

EN 60 529



TYPE NEMA 4X, 12, 1, 4

Standard UL508A - UL50
Standard 250



EN 60204-1
89/392/EEC

Low voltage directive 2014-35-UE

ITEM	OUTSIDE				MATERIAL	THICKNESS		INNER PLATE		AVAILABILITY
	L	h DOOR	H	P		ENCLOSURE	DOOR	X	Y	
QSH45A/304L	400	500	637	200	TYPE 304L	15/10	15/10	312	550	YES
QSH55A/304L	500	500	637	200	TYPE 304L	15/10	15/10	412	550	YES
QSH66A/304L	600	600	737	200	TYPE 304L	15/10	15/10	512	650	YES
QSH7A/304L	600	750	916	250	TYPE 304L	15/10	15/10	512	800	YES
QSH79A/304L	700	900	1095	300	TYPE 304L	15/10	15/10	612	950	YES
QSH88A/304L	800	800	990	300	TYPE 304L	15/10	15/10	712	850	YES
QSH612A/304L	600	1200	1390	300	TYPE 304L	15/10	15/10	512	1250	YES
QSH616A/304L	600	1600	1845	380	TYPE 304L	15/10	15/10	512	1650	on demand
QSH812A/304L	800	1200	1390	300	TYPE 304L	15/10	15/10	712	1250	YES
QSH816A/304L	800	1600	1845	380	TYPE 304L	15/10	15/10	712	1650	on demand
QSH45A/316L	400	500	637	200	TYPE 316L	15/10	15/10	312	550	on demand
QSH55A/316L	500	500	637	200	TYPE 316L	15/10	15/10	412	550	on demand
QSH66A/316L	600	600	737	200	TYPE 316L	15/10	15/10	512	650	on demand
QSH7A/316L	600	750	916	250	TYPE 316L	15/10	15/10	512	800	on demand
QSH79A/316L	700	900	1095	300	TYPE 316L	15/10	15/10	612	950	on demand
QSH88A/316L	800	800	990	300	TYPE 316L	15/10	15/10	712	850	on demand
QSH612A/316L	600	1200	1390	300	TYPE 316L	15/10	15/10	512	1250	on demand
QSH616A/316L	600	1600	1845	380	TYPE 316L	15/10	15/10	512	1650	on demand
QSH812A/316L	800	1200	1290	300	TYPE 316L	15/10	15/10	712	1250	on demand
QSH816A/316L	800	1600	1845	380	TYPE 316L	15/10	15/10	712	1650	on demand

UL certification to be requested with the order



Customized convex blind nut with under head special design for anti-loss purpose equipped with gasket. Threaded path length foreseen for guarantee a certain mechanical stop, to avoid excessive gasket compression.



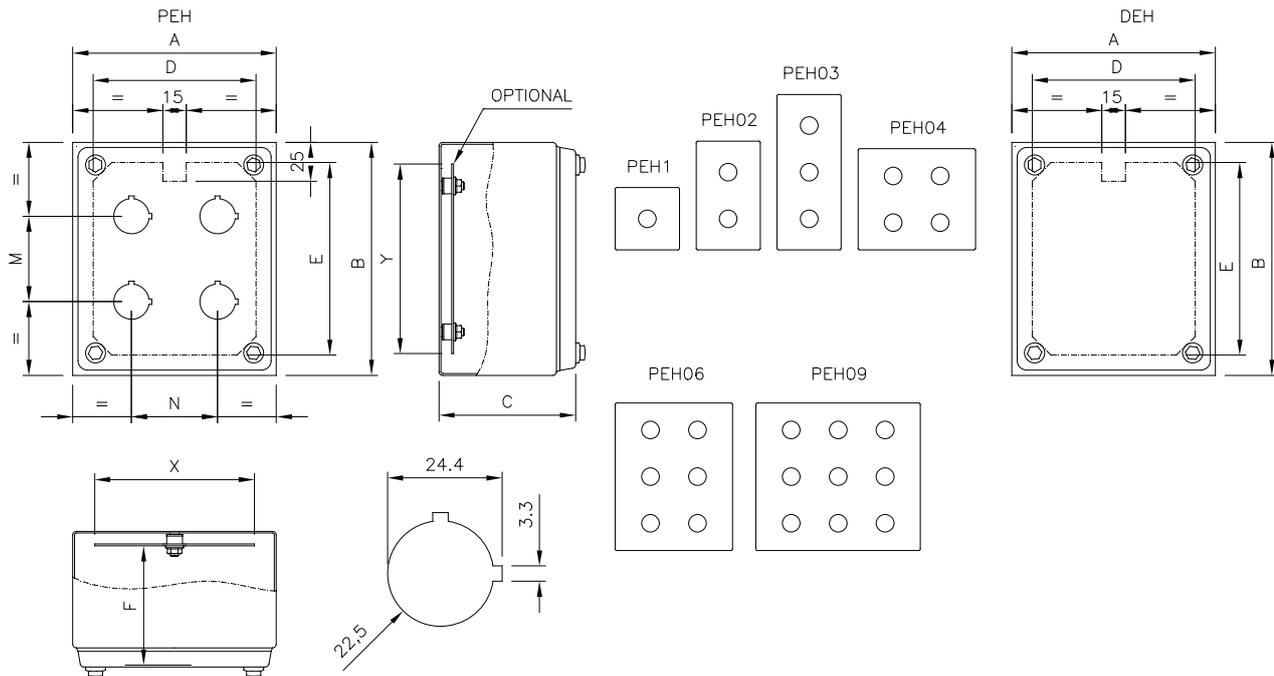
The gasket, made of blue silicon to point out filth, can be removed and sanitized. Calibrated softness kept in place by the special screw.



The case can be used both for the industrial PE/DE line as per PEH/DEH hygienic line.

PUSH-BUTTONS “PEH” AND JUNCTION BOXES “DEH”

- Material: EN 1.4404 (TYPE 316L) finely satin-finished, thickness 12/10 for main body and door. On demand different types of s/s ca be supply.
- The cover is secured by screws provided with sealing and leak-proof washers.
- Removable Gasket, made in a single piece molded light blue silicon, cleanable and sterilizable.
- Pre-arrangement for earthing in compliance with the applicable rules.
- All boxes are complete of stud bolts to secure the DIN bar, if any.
- The PEH Series features drilled cover to accommodate the Ø 22,5 standardized push-button panel.
- Inner plate in sendzimir execution, available on demand (NOT for model DEH01, PEH01).
- Protection degree: IP66, IP69K.



PEH IK07 IP66 IP69K EN 60 529 US LISTED FILE N° E237618 **TYPE NEMA 4X, 12, 1, 4** Standard UL508A - UL50 Standard 250 EN 60204-1 89/392/EEC Low voltage directive 2014-35-UE

ITEM	OUTSIDE SIZES			DOOR USEFUL SIZE			CENTRE DISTANCE		MATERIALS			INNER PLATE		
	A	B	C	D	E	F	M	N	GASKET	TYPE	THICKNESS	ITEM	X	Y
PEH01/316A	90	90	85	64	64	-	-	-	Silicone stampato	Type 316L	1,2 mm	-	-	-
PEH02/316A	90	140	85	64	114	74	55	-	Silicone stampato	Type 316L	1,2 mm	PIO2A	62	112
PEH03/316A	90	200	85	64	174	74	55	-	Silicone stampato	Type 316L	1,2 mm	PIO3A	62	172
PEH04/316A	130	150	85	104	124	74	55	55	Silicone stampato	Type 316L	1,2 mm	PIO4A	102	122
PEH06/316A	190	150	100	164	124	89	55	55	Silicone stampato	Type 316L	1,2 mm	PIO6A	162	122
PEH09/316A	210	190	100	184	164	89	55	55	Silicone stampato	Type 316L	1,2 mm	PIO9A	182	162

DEH IK07 IP66 IP69K EN 60 529 US LISTED FILE N° E237618 **TYPE NEMA 4X, 12, 1, 4** Standard UL508A - UL50 Standard 250 EN 60204-1 89/392/EEC Low voltage directive 2014-35-UE

ITEM	OUTSIDE SIZES			DOOR USEFUL SIZE			MATERIALS			INNER PLATE		
	A	B	C	D	E	F	GASKET	TYPE	THICKNESS	ITEM	X	Y
DEH01/316A	90	90	85	64	64	-	Silicone stampato	Type 316L	1,2 mm	-	-	-
DEH02/316A	90	140	85	64	114	74	Silicone stampato	Type 316L	1,2 mm	PIO2A	62	112
DEH03/316A	90	200	85	64	174	74	Silicone stampato	Type 316L	1,2 mm	PIO3A	62	172
DEH04/316A	130	150	85	104	124	74	Silicone stampato	Type 316L	1,2 mm	PIO4A	102	122
DEH06/316A	190	150	100	164	124	89	Silicone stampato	Type 316L	1,2 mm	PIO6A	162	122
DEH09/316A	210	190	100	184	164	89	Silicone stampato	Type 316L	1,2 mm	PIO9A	182	162

UL certification to be requested with the order



Smooth rounded surfaces, designed for facilitate cleaning without grooves where filth might deposit and remain.



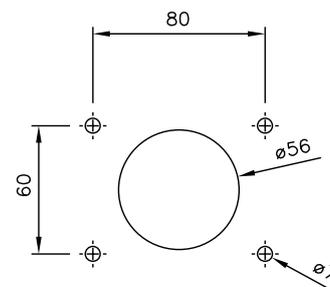
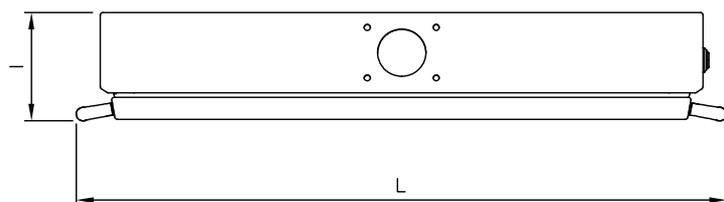
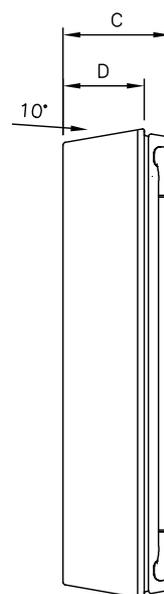
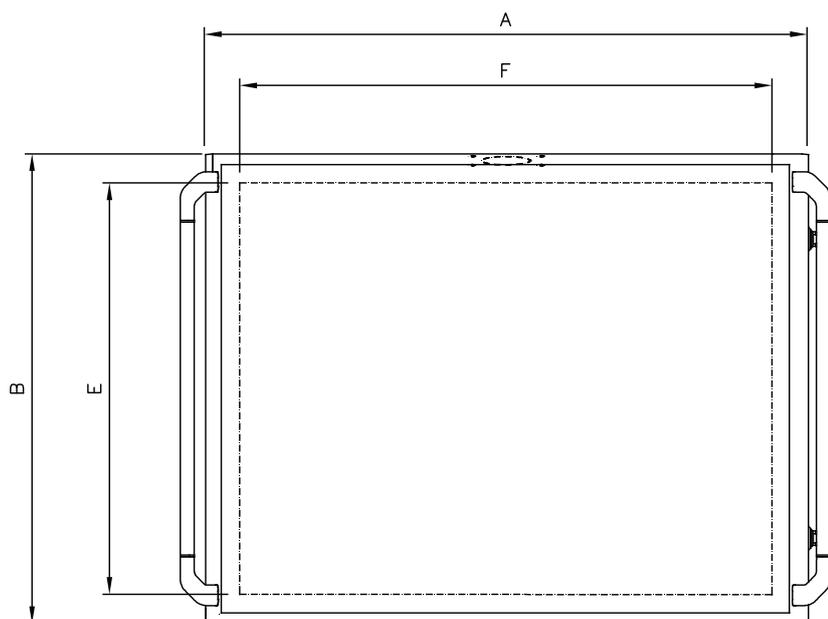
Smooth and finely satin round bended door complete of perimetral single piece silicon gasket.



The gasket, made of blue silicon to point out filth, can be removed and sanitized.

CONTROL BOX HYGIENIC SERIES BKH

- EN 1.4307 (TYPE 304L) s/s execution, finely satin-finished and protected.
- Enclosure obtained from a single sheet, thickness 15/10 shaped.
- Enclosures drilled for the assembling of articulated arms type TJ-TS-TL with rotary joint code GKSHA.
- 10° slope roof to facilitate cleaning and liquid drainage.
- Full door, hinged, side lock to take maximum advantage of the drilling space.
- Inner plate not provided.
- Ergonomic grip handles, TYPE 304 s/s.
- Inner hinges, s/s: 100° opening as per CEI EN 60204-1 recommendations.
- Seal removable, cleanable and sterilizable, made of moulded silicone.
- Prearranged for earthing according to the regulations in force.
- Protection degree IP66 and IP69K
- Doorlock without recesses and/or gaps; outside surfaces made of EN 1.4404 (TYPE 316L) s/s, shaped as per sanitary regulations DIN EN 1672-2 and DIN EN 14159; opening by removable key, zama execution.
- Box compatible with joint GKSHA.



IK10 IP66 IP69K

EN 60 529



TYPE NEMA 4X, 12, 1, 4

Standard UL508A - UL50 Standard 250



EN 60204-1 89/392/EEC

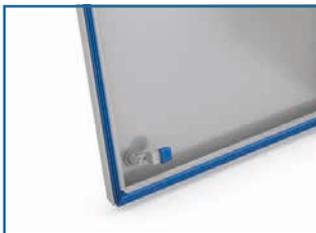
Low voltage directive 2014-35-UE

ITEM	OUTSIDE SIZES			USEFUL SURFACE			OVERALL DIM. WITH HANDLES	
	A	B	C	D	E	F	I	L
BKH43A/304L	450	350	125	94	281	368	127	505
BKH54A/304L	550	450	125	94	381	468	127	605
BKH65A/304L	600	500	125	94	431	518	127	655
BKH75A/304L	700	550	125	94	481	618	127	755

UL certification to be requested with the order



REMOVABLE GASKET



The gasket, made of blue silicon to point out filth, can be removed and sanitized.

NO GAPS



Door protection roof, with flush gasket, rounded corners, no gaps.

SLOPING ROOF



Built-in roof, 30° slope, to prevent build-up of filth and facilitate drainage of liquids.

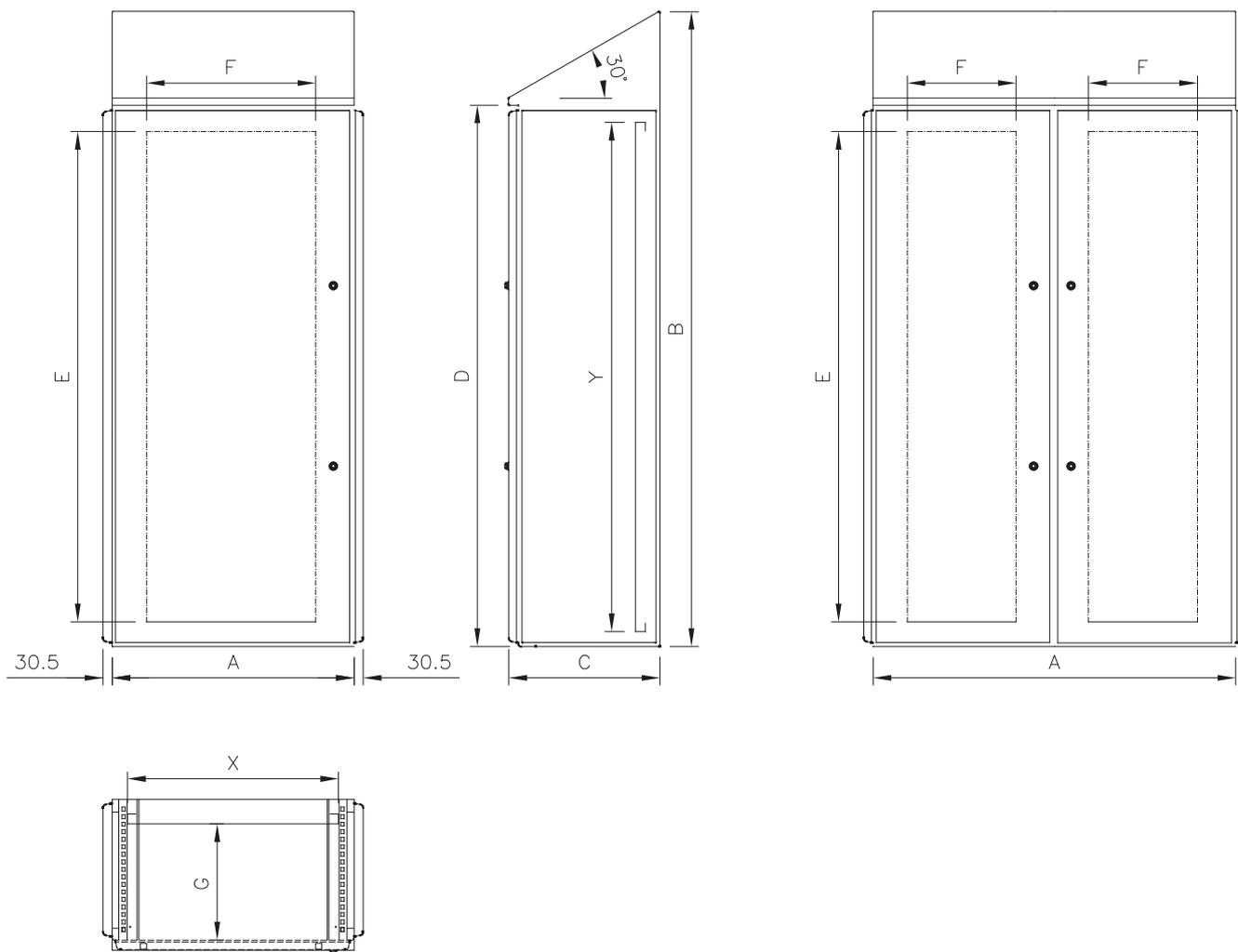
EASY CLEANING



The distance between the sloping roof and the door does not create gaps while facilitating cleaning.

MONOBLOC HYGIENIC CABINETS WITH REMOVABLE SIDE PANELS SERIES CXH

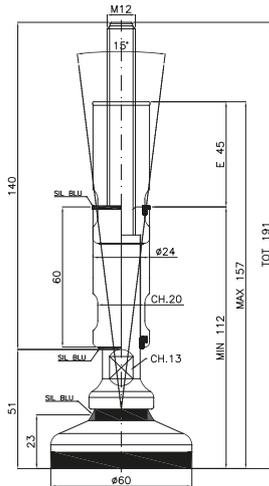
- Material: EN 1.4307 (TYPE 304L) s/s, finely satin-finished and protected, thickness: door 20/10, envelope and sides 15/10.
- Front door, full or with 3+3 laminate shatterproof glass, stiffening s/s inner frame, drilled to support equipment and/or secure cableways and accessories.*The full door can also be equipped with partial windows and different materials can be used (polycarbonate or aluminium for silk printing) on demand.
- Rear side not accessible and ceiling not removable, 30° slope roof to prevent objects being put on it and to facilitate cleaning and liquid drainage.
- Side panels, bolted and removable, to be ordered separately (item: CXH85)
- Doorlock without recesses and/or gaps; outside surfaces made of EN 1.4404 (TYPE 316L) s/s, shaped as per sanitary regulations DIN EN 1672-2 and DIN EN 14159; opening by removable key, zama execution.
- The cabinet bottom can be equipped with fairlead plates: enbloc, to be ordered separately.
- Seal removable, cleanable and sterilizable, made of moulded silicone.
- Sendzimir inner plate to be ordered separately.
- Slide guides item GSPH
- Intermediate plate for cabinets in series: PAH0117
- Pre-arranged for earthing as per regulations in force.
- Protection degree: IP66 and IP69K



IK10 IP66 IP69K EN 60 529  Low voltage directive 2014-35-UE

ITEM	OUTSIDE SIZES				DOOR USEFUL SIZE		USEFUL DEPTH G	INNER PLATE		
	A	B	C	D	E	F		ITEM	X	Y
CXH0485A*	400	2111	500	1800	1630	160	385	-	-	-
CXH0685A	600	2111	500	1800	1630	360	385	PA0517	497	1692
CXH0885A	800	2111	500	1800	1630	560	385	PA0717	697	1692

*Achievable on request



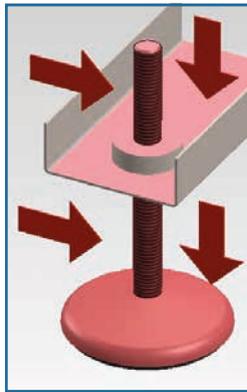
FEET

Adjustable feet, simple and appealing design, certified and approved for use in food, dairy, pharmaceutical industries and in all those environments where compliance with hygienic-sanitary rules are a must. The seals guarantee tightness on all mobile surfaces; the ring nut acting as a lock-nut covers the threaded pin. The ground rest plate adhere perfectly, thus assuring stability with vibration proof effect thanks to the NBR rubber insert.

EN 1.4307 (TYPE 304L) polished s/s execution.

Our feet can make up for floor unevenness up to a 10° angle.

- Cod: **PSDXH27120/3A**



SANITARY FOOT

Smooth surfaces, perfectly draining, no threads, sharp corners or gaps where filth could be trapped. Seals on all moving surfaces.

TRADITIONAL FOOT

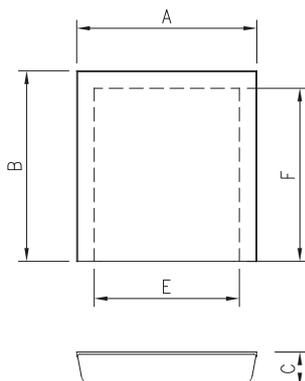
Unprotected threads, undercuts, sharp corners and level, not draining surfaces.

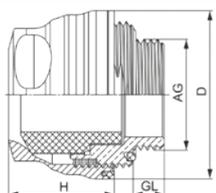


STAINLESS STEEL LABYRINTH CASING HYGIENIC SERIES KLHD

Smooth rounded surfaces, they are designed to space the control board from the wall to facilitate clearing and avoid cavities where filth might deposit.

ARTICOLO	A	B	C	D	E
KLHD10	150	180	32	120	165
KLHD14	320	340	64	290	325

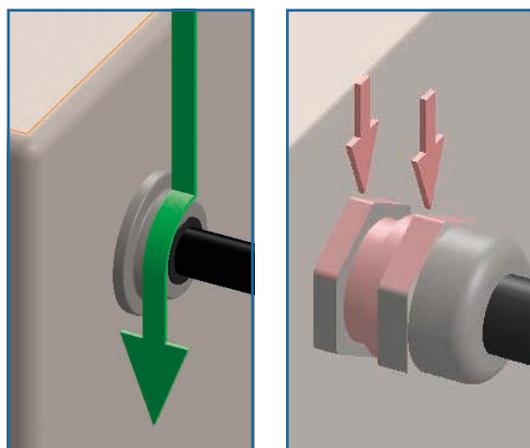




Advice:

- **EMC** connection integrated
- **VDMA** Riboflavin cleaning test passed
- **EHEDG** 01 cleaning test passed
- **EHEDG** certificate EL class I AUX approved

IDEAL FOR HIGH-PRESSURE CLEANING



CABLE GLANDS

Metric cable glands Series PH meet the requirements for use in food, dairy, pharmaceutical industries as well as in all those environments where compliance with hygienic-sanitary regulations is a must (Directive on machinery 2006/42/EC DIN EN 1672-2-2005, Documents EHEDG 8 E 13). This is possible thanks to the technical solutions adopted and to the design criteria: 25% sloping surfaces to avoid filth build-up; radial corners; no threads; gaps in contact with the outside; tamperproof for they cannot be opened from the outside. Delivered complete with OR, standard seal on the cable and ring nut.

EN 1.4307 (TYPE 304L) s/s execution, mirror finish; the EPDM seal is fit for use in the environments for which the cable gland has been designed: gaskets made from different materials can be supplied on request.

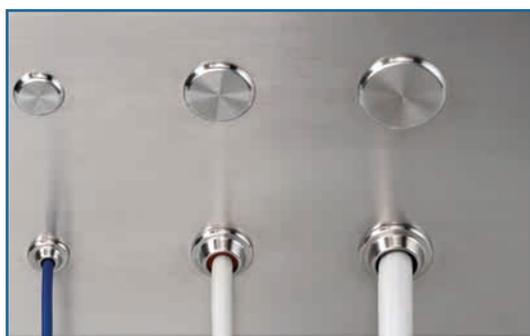
- Protection degree IP68 as per EN 60 529 and IP69K as per DIN 40 050-T9.
- Temperature range: -40°C + 180°C, intermittent up to 40°C approx.

SANITARY CABLE GLAND

Smooth slanting surfaces, no threads in contact with the environment, radial corners.

TRADITIONAL CABLE GLAND

Unprotected threads, sharp corners and level surfaces not draining.



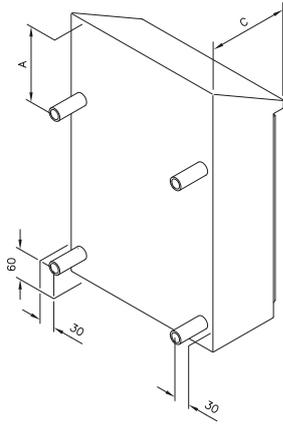
CABLE GLANDS

ITEM	CLAMPING RANGE (MM)	AG	GL (MM)	D (MM)	SW (MM)	H (MM)
PH12050	5 – 6,5	M 12 x 1,5	6	21	14	19
PH16060	6 – 7,5	M 16 x 1,5	6	27	19 – 21	20
PH16075	7,5 – 10	M 16 x 1,5	6	27	19 – 21	20
PH20090	9 – 12	M 20 x 1,5	6	33	24 – 27	22,5
PH20110	11 – 13,5	M 20 x 1,5	6	33	24 – 27	22,5
PH25140	14 – 16	M 25 x 1,5	7	38	30	23,5
PH25150	15 – 18	M 25 x 1,5	7	38	30	23,5
PH32180	18 – 21	M 32 x 1,5	8	45	36	26,5
PH32210	21 – 25	M 32 x 1,5	8	45	36	26,5



PLUGS

ITEM	ø	FOR DRILLS		FOR CABLE GLANDS
TP0716	20	6,5	÷ 16	M12 – M16
TP1624	28	16,5	÷ 24	M20
TP2431	35	24,5	÷ 31	M25
TP3140	45	31,5	÷ 40	M32 – M 40



WALL MOUNTS

The wall mounts of the sanitary line have been designed to space the control board from the wall and prevent filth from building-up between the two elements, and to allow cleaning.

Cylindrical shape with no threads or gaps in contact with the environment; the threaded parts are protected by OR.

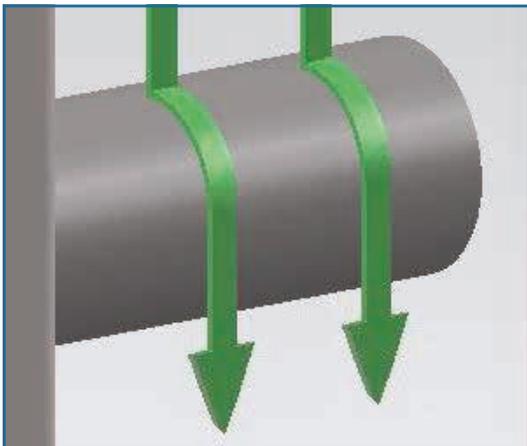
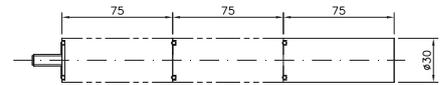
EN 1.4307 (TYPE 304L) s/s execution, satin finish, available with 75mm standard length, can be coupled to space the control board from the wall 75mm, 150mm and 225mm.

To avoid criticalities from an hygienic-sanitary point of view, the small cabinets of the QSH and QLSE line have no drilling; some blind holes are however present in the back wall, to identify the exact positions of the wall mount drills.

- **DIST75QSD** 4-pcs pack of wall mounts.

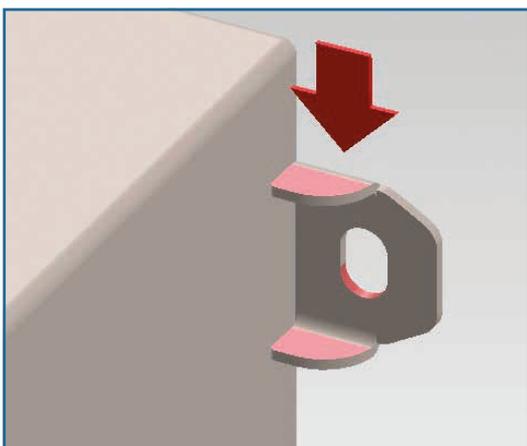


C	A
DEPHT	
180	187
200	198
250	227
300	256
320	267



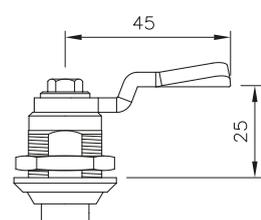
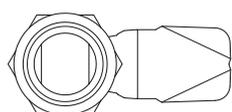
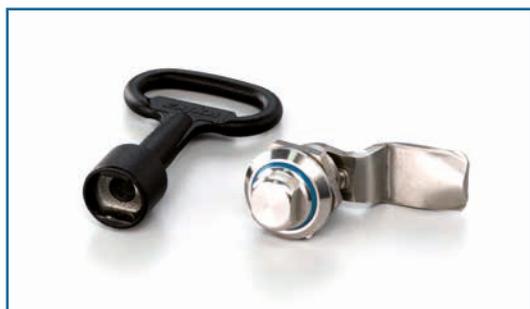
SANITARY WALL MOUNT SYSTEM

Smooth rounded surfaces, they are designed to space the control board from the wall to facilitate clearing and avoid cavities where filth might deposit.



TRADITIONAL WALL MOUNT SYSTEM

Designed to secure the control board close to a wall, filth can build up between the two elements. Level surfaces and undercuts.



DOORLOCK

The Sanitary doorlocks are manufactured to comply with hygienic-sanitary regulations DIN EN 1672-2 and DIN EN 14159. No gap where filth might deposit in the part in contact with the environment; complete with seal to prevent cracking between the rotating bushing and the fixed body.

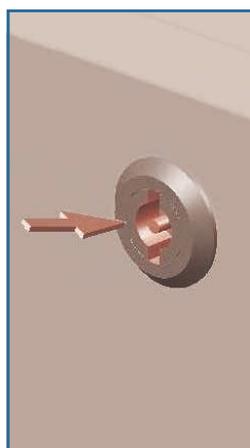
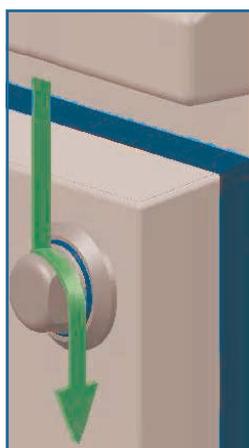
Opening and closing, on . turn, require an appropriate key or other suitable tool.

The body of the doorlock is made of EN 1.4571 (TYPE 316TI) s/s, while the tongue inside the cabinet is made of galvanized steel (EN 1.4307 - Type 304L) s/s on request).

Protection degree IP69K as per DIN 40 050-T9.

Standard on the cabinets of the QSH line, they are optional on the cabinets of the QLSE line.

- **SG460-30-HD** – Sanitary doorlock for cabinets QL-QLSE
- **SG460-32-HD** – Sanitary doorlock for cabinets QSH
- **SG368-94** – Sanitary key



- **SANITARY DOORLOCK** – Smooth, perfectly draining surfaces, without gaps where filth might build-up. Seal to avoid gaps between bushing and body.
- **TRADITIONAL DOORLOCK** – Recessed cut for key entry, inside which filth can build-up.



We love Ilinox. The future starts here.

Reliability of the brand.

The Ilinox brand means experience, transparency, responsible entrepreneurial skill. We have been providing certainties for over 30 years, not by words but through actions. That's why choosing Ilinox means backing the future.

	PRODUCT	PAG.
AIR CONDITIONING LINE		
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Fans and filters KV – KG		168
Protection casings KL		171
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Condensate prevention heaters RH		174
Room thermostats KS-KT		175

8

AIR CONDITIONING

CHOOSING THE COOLING SYSTEM

The cabinet heat exchange must first of all be calculated in order to identify the most appropriate cooling system.

HEAT EXCHANGE CALCULATION

Calculating the heat load to be dissipated represents the essential step when choosing a 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 to be maintained inside the panel, the control board sizes and set-up conditions. Concerning the quantity of heat produced by the inner components, the data on the technical sheets of the components themselves must be checked and evaluated. No need to say that the possibility that several units may work simultaneously should be taken into consideration when making this calculation.

Also, as already mentioned, the temperature of the room where the electrical cabinet is installed must be carefully evaluated. In fact, an exchange takes place among the panel surfaces and the environment. If the outside temperature is lower than the inner one, the 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 must be added to the heat dissipated by the equipment. On 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 comply with 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 according to the above mentioned standard.

An approximate calculation is however possible following the method below:

TYPE OF 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 = CABINET WIDTH (m)	H = CABINET HEIGHT (m)	P = CABINET DEPTH (m)
		
Detached, exposed on all sides	Back panel close to a wall	Left side close to a wall
		
Right side close to a wall	Left side and back panel close to a wall	Right side and back panel close to a wall
		
Right and left side close to a wall	Embedded with sides and back panel close to a wall	Fully embedded with top side covered

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 required inner temperature and the cabinet outside temperature and k is the heat transmission coefficient (approx. 5.5 W/Km^2), 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 an approximate calculation of the PV power.”

HEAT PRODUCED COMPARED TO POWER ABSORBED	
Electric/electronic component	Heat produced in W
Transformers – Inverter - Drives	5% of the power
Feeders of electronic components	10% of the power
Coils of relays and counters	5% of the power
Glow lamps	95% of the power
PLC	150 W
Numerical controls	200 W

The data in the table are approximate mean values that require checking according to the equipment actually in use

The following example can facilitate understanding:

In a control board with a total surface of 5.3 m^2 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%. Basing on the table, we will have the following total load:

HEAT PRODUCED COMPARED TO POWER ABSORBED		
Transformer 15000 x 5/100	750 W	Total power transformed into heat PV = 1795 W
Lamp 100 x 95/100	95 W	
PLC	150 W	
Inverter 2000 x 80/100 x 5/100	800 W	

Assuming that the above panel is installed in a room with 40°C temperature and that its temperature is kept at 30°C (-10°C), these data must be related to the total surface of the panel itself.

The thermal power transmitted to the inside will be as follows:

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

The total thermal load will be equal to

$$Pe = 1795 - (-291.5) = 2086.5 \text{ W}$$

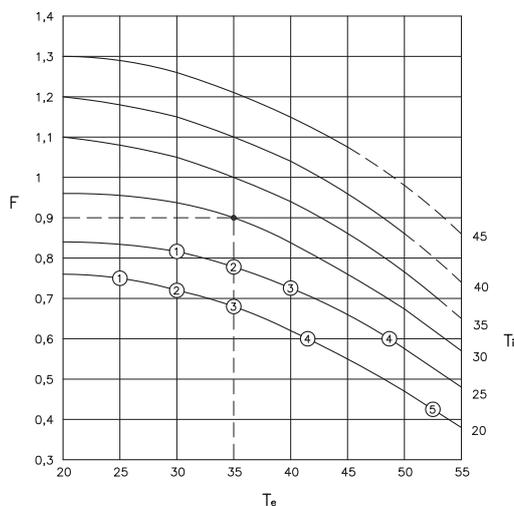
When the irradiating surface of the cabinet cannot dissipate the thermal load produced by the equipment inside it, the most appropriate cooling system between conditioning and ventilation has to be chosen.



AIR CONDITIONING

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 safeguard its reliability, the conditioner should be carefully sized, in order to select 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:



(*) Where:

- The room temperature is shown on the axis of abscissas as T_e
- The correction factor F is shown on the axis of the ordinates
- The curves correspond to the temperature inside the T_i board, the dashed section indicating the area that can the air conditioner can cover only for short
- The circled numbers indicate extreme work conditions, as a function of the percentage of the outdoor relative humidity:

- 1 - 80 %
- 2 - 60 %
- 3 - 40 %
- 4 - 30 %
- 5 - 20 %

Setting the temperature inside the board to below the values indicated, condensate forms on the electric components as doors are opened, since the dew point is reached.

Example of correction on the yield:

For outside temperature of 35°C and 30°C inside, the correction factor is 0,9. Therefore, to achieve 1.000 W in these conditions, an air conditioner featuring a rated yield (L35L35) of $1.000 / 0,9 = 1,112$ W is required. Viceversa, an air conditioner having a 2.000 W rated yield, gives 900 W in these conditions.

Once this value is determined, the actual yield of an air conditioner can be set according to the following formula:

$$\text{Air conditioner rated power} = \frac{\text{Required Cooling Power}}{\text{Correction Factor}}$$

For example, for a 45°C outside temperature and 35°C inside one, the correction factor is 0.85. This means that, in those conditions, an air conditioner with 1000 W rated power yields 850 W and that an air conditioner featuring a 1176 W (1000 W / 0.85) rated yield is required to obtain a 1000W yield.

When the use of an air-cooled air conditioner is decided, the following must be taken into consideration:

- The outside of the air conditioner must be uncluttered, to avoid a poor yield of the same or even the compressor stoppage following the tripping of the protection device.
- A standard air conditioner can run with minimum outside temperature 20° and maximum 55°C.
- The board inside temperature must be maintained between 25°C and 45°. Higher temperatures can be dangerous for both the air conditioner and the components inside the board, while lower temperatures can give rise to condensate on the components following the door opening.
- Certain voltage and frequency values are indicated for each air conditioner, along with the corresponding permitted allowances. We recommend to never exceed such allowances, to avoid jeopardizing the equipment reliability and functionality.
- Always check for the presence of particular substances in the air, which might damage the materials the conditioner is made of. Also advisable check for the presence of any source of heat close to the cooling unit, its possible exposure to atmospheric agents and the presence of stray currents which may cause corrosion. Also, make sure the air does not contain oil or solvent fog, which might damage the standard polyurethane filters.
- Air always contain some steam, and the steam contained in the air inside the board to be conditioned condensates on the cold battery of the conditioner itself. If the cabinet is tight to the outside, once all this steam is removed, no more condensate will form. If, in contrast, the cabinet is open (even in case of small openings) water will form continuously and must be removed through the pipe the air conditioner is equipped with. This tube must be free from clogging and have no air-traps, to avoid condensate from entering the control board after a certain time. Also, a microswitch should be provided on the door of the board, to automatically stop the conditioner running, thus avoiding most of the cooling power from being dissipated to condensate the steam. It is however advisable to not open and close the doors continually, otherwise the compressor inside protection could stop its running.



VENTILATION

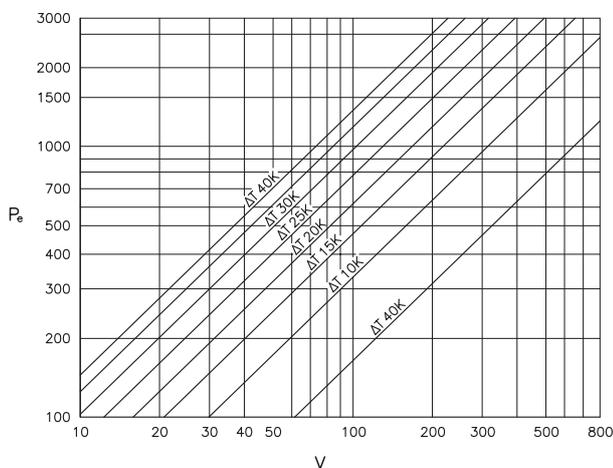
Cooling system recommended when the outside temperature is constantly lower than the inside one. Proper sizing of the fan requires good knowledge of the heat power to be dissipated (see THERMAL CALCULATION Schedule), as well as the difference between inside and outside temperature, while the value of the fan minimum air flowrate will be derived from the chart.

A grid with fan must always be matched with a grid without fan.

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

Troubles and damages can be avoided:

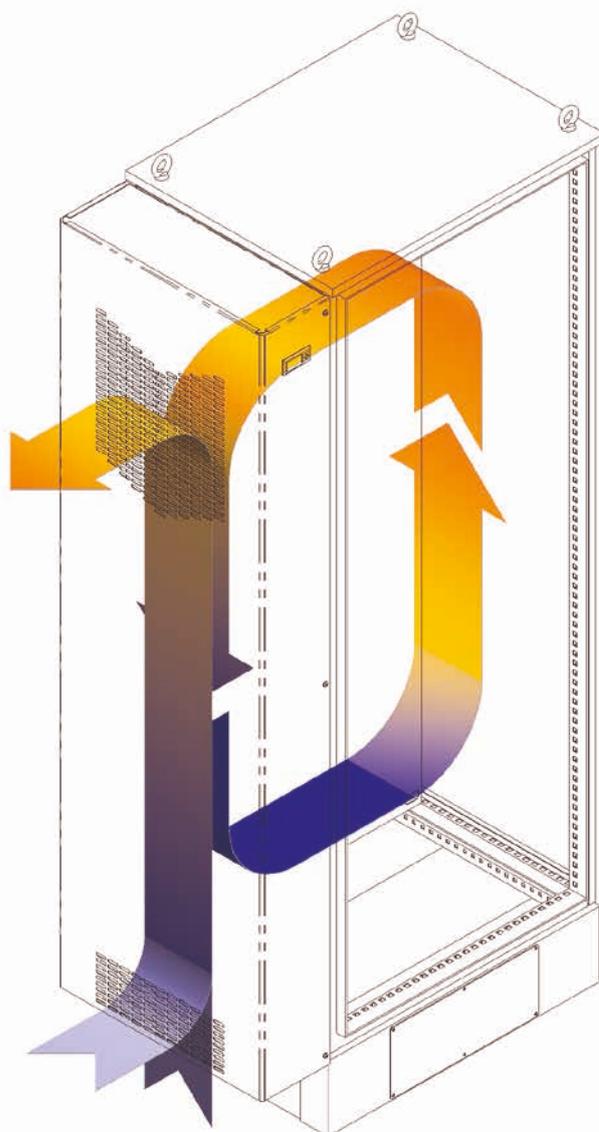
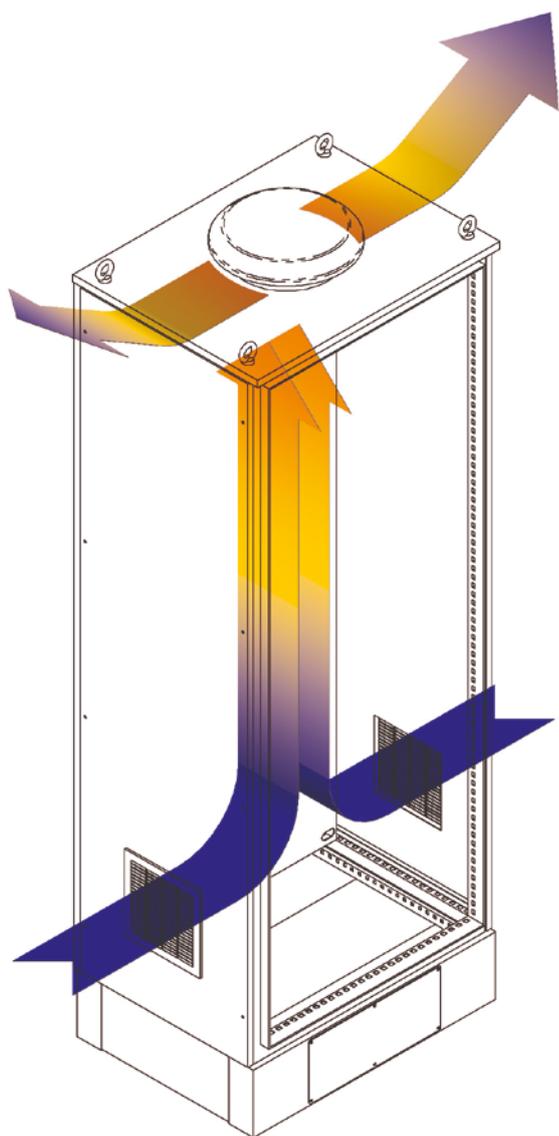
- Making sure the outside temperature is always lower than the inside one
- Cleaning the filters regularly, and replacing them, if the need be (which can be done also while the fan is running)
- Choosing a fan slightly oversized compared to the theoretical calculations: a flow greater than required will cause no damage while providing a certain safety margin.

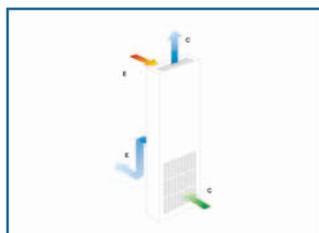


P_e = Dissipated thermal power as Watt

V = Air flow (m³h)

- The following is to be determined in advance:
 - The thermal power dissipated by the electric equipment.
 - The maximum temperature admitted 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.

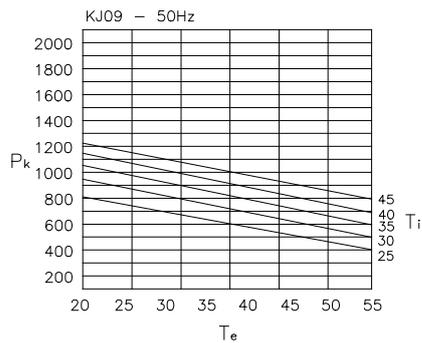
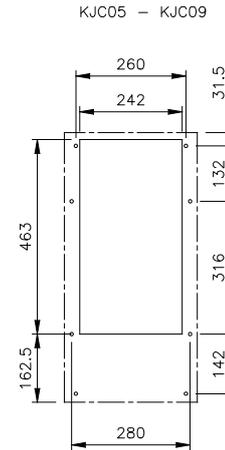
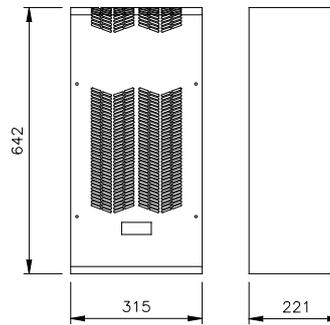
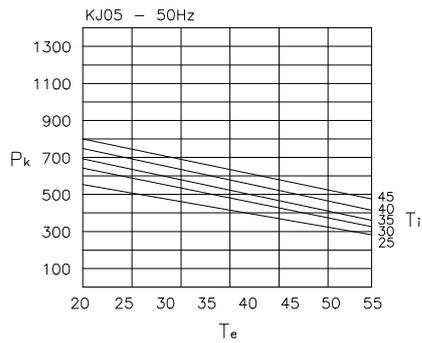
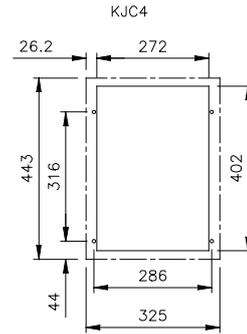
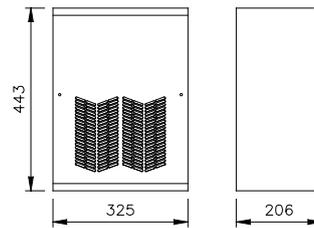
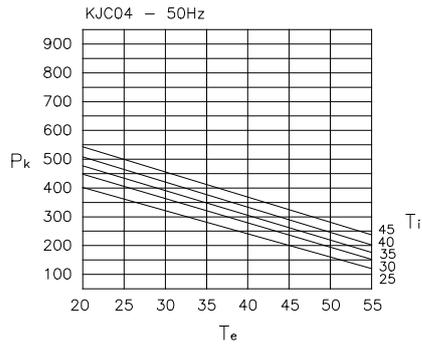




AIR CONDITIONERS FOR WALL OR DOOR MOUNT SERIES KJ

STANDARD FEATURES AND EQUIPMENT:

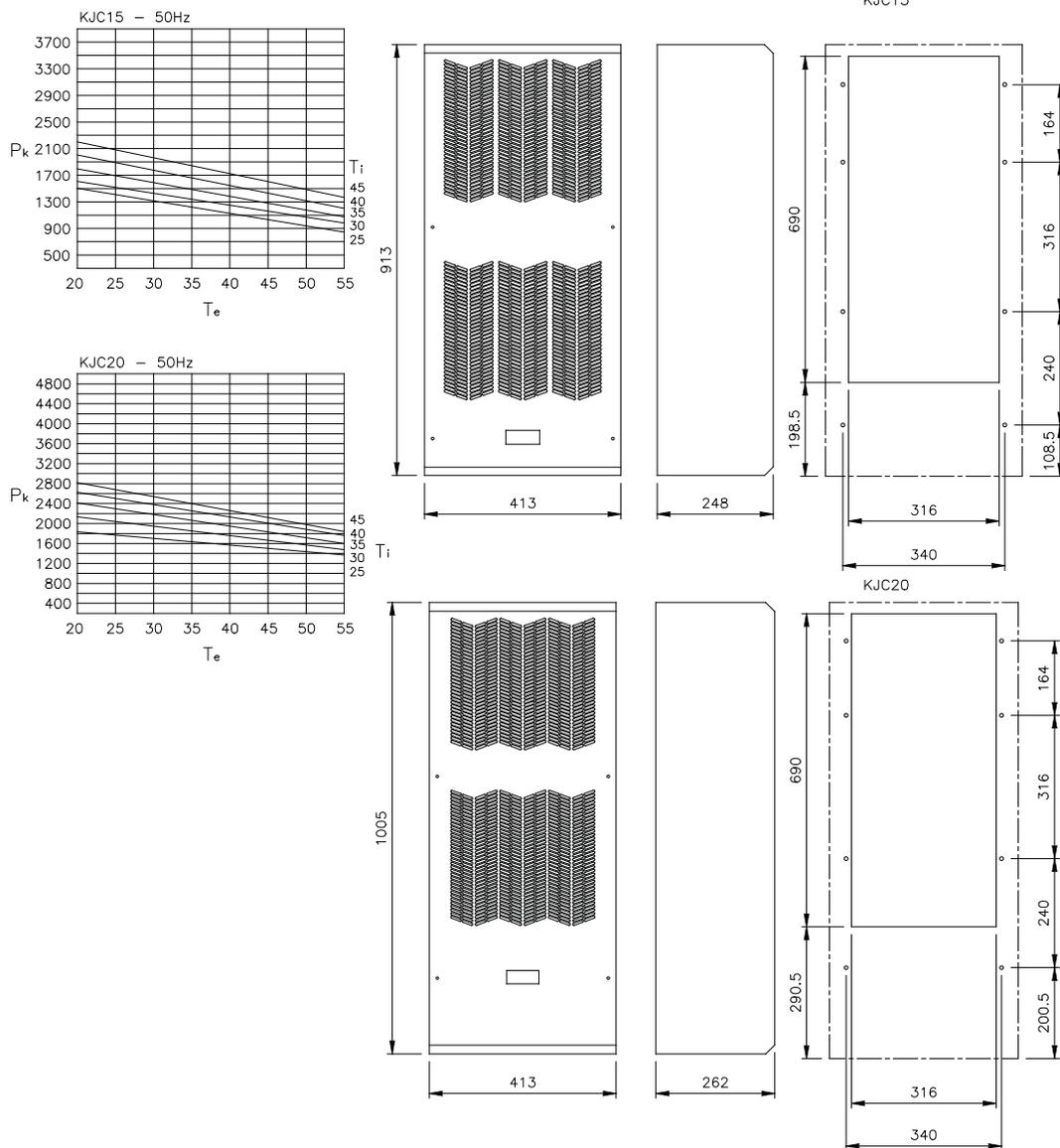
- Optional grid and filter, easy to install
- Assembling from the outside
- Display on the whole range
- Outside enclosure made of TYPE 304 s/s finely satin-finished and protected
- Inside frame made of sendzimir steel, with cut-proof sheet
- Easy connection by electrical connector
- Steam trap flanged to the inner structural frame, set on the bottom, outwards
- Anti-drip net
- IP 54 seal between conditioner and cabinet, according to CEI EN 60529 (CEI 70/1)
- Condensing battery with cleaning action
- Eco-coolant R134a
- Use and maintenance Manual
- Operating at 50/60 Hz



Detailed drawings of drilling are available on the website www.ilinox.com

ITEM	REFRIGERATING YIELD DIN3168		ABSORBED POWER		SUPPLY V	STARTING CURRENT A	FUSES GG A	NOISE DB	WEIGHT KG	FOR DEPTH SIDE
	50HZ	60HZ	50HZ	60HZ						
KJC04-230	360	380	190	220	230 V - 50/60 Hz single-phase	9,8	4	55	17	500
KJC05-230	560	580	310	340	230 V - 50/60 Hz single-phase	15	4	61	26	500
KJC09-230	850	900	420	600	230 V - 50/60 Hz single-phase	20	6	65	26	500

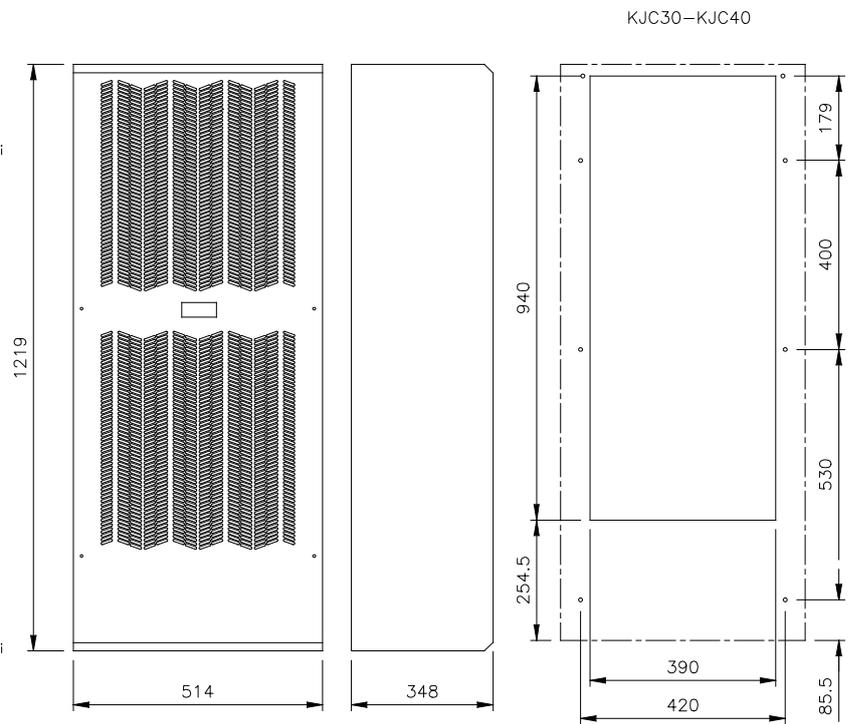
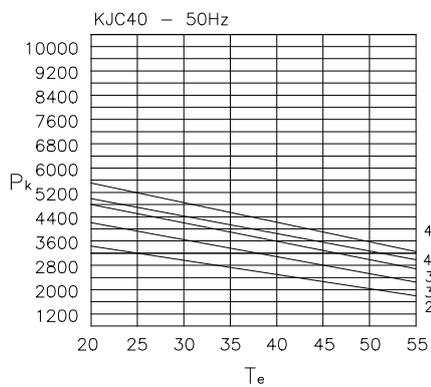
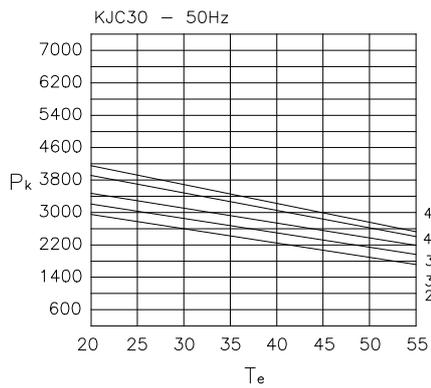
UL certification to be requested with the order



Detailed drawings of drilling are available on the website www.ilinox.com

ITEM	REFRIGERATING YIELD DIN3168		ABSORBED POWER		SUPPLY V	STARTING CURRENT A	FUSES GG A	NOISE DB	WEIGHT KG	FOR DEPTH SIDE
	50HZ	60HZ	50HZ	60HZ						
KJC15-230	1500	1600	750	825	230 V - 50/60 Hz single-phase	28	8	65	42	500
KJC20-400	2000	2100	1120	1240	400V / 460V - 50/60 Hz 3-phase	18	6	68	44	500

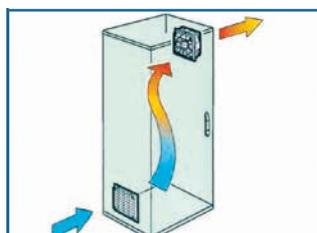
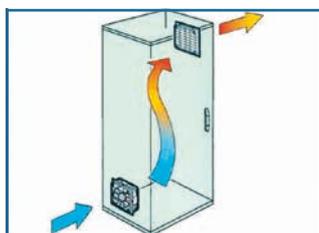
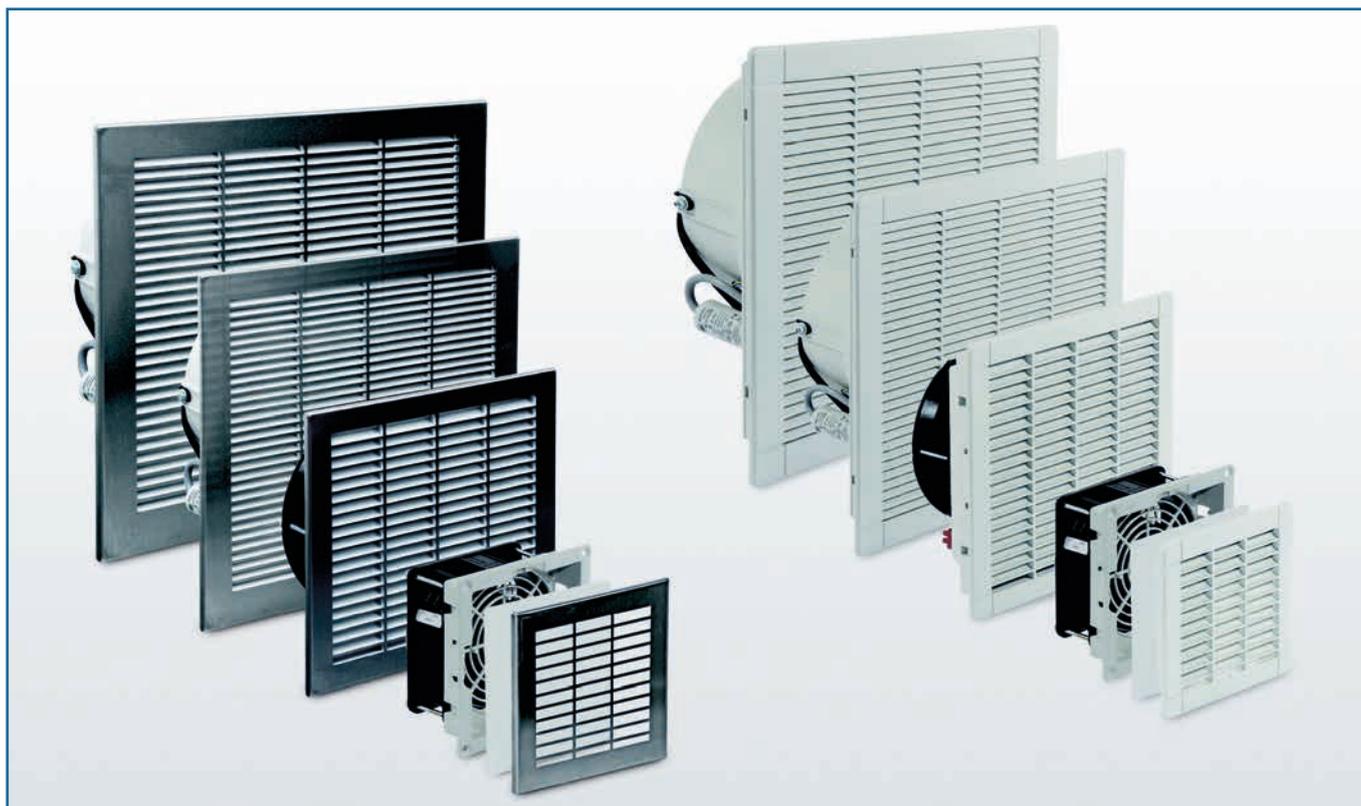
UL certification to be requested with the order



Detailed drawings of drilling are available on the website www.ilinox.com

ITEM	REFRIGERATING YIELD DIN3168		ABSORBED POWER		SUPPLY V	STARTING CURRENT A	FUSES GG A	NOISE DB	WEIGHT KG	FOR DEPTH SIDE
	W 50HZ	W 60HZ	W 50HZ	W 60HZ						
KJC30-400	2850	3000	1370	1510	400V / 460V - 50/60 Hz 3-phase	35	6	70	86	600
KJC40-400	4000	4100	1730	1950	400V / 460V - 50/60 Hz 3-phase	25	8	70	86	600

UL certification to be requested with the order



VENTILATION UNITS KV - KG

STANDARD FEATURES AND OUTFITTING

- Protection degree IP54.
- Grid inner body made of ABS plastic, self-extinguishing according to UL 94V-0, resistant to temperatures ranging from -10°C a +70°C, colour RAL7035.
- Outside grids with shutters type slot for condensate drainage; available both in EN 1.4307 (TYPE 304L) s/s finely satin-finished and protected, and ABS plastic self-extinguishing according to UL 94V-0, resistant to temperatures from -10°C a +70°C, colour RAL 7035.
- Filters: fit for retaining powders of granulometry up to 10 micron.
- Axial fans with conveyor, grids and filter, working in intake and extraction mode (see table).
- Motor set on ball bearings, non-stop running for 30.000 h.
- Compliant with CEI 17-13/1 (IEC439-1), CEI 61-28 (IEC342-1).

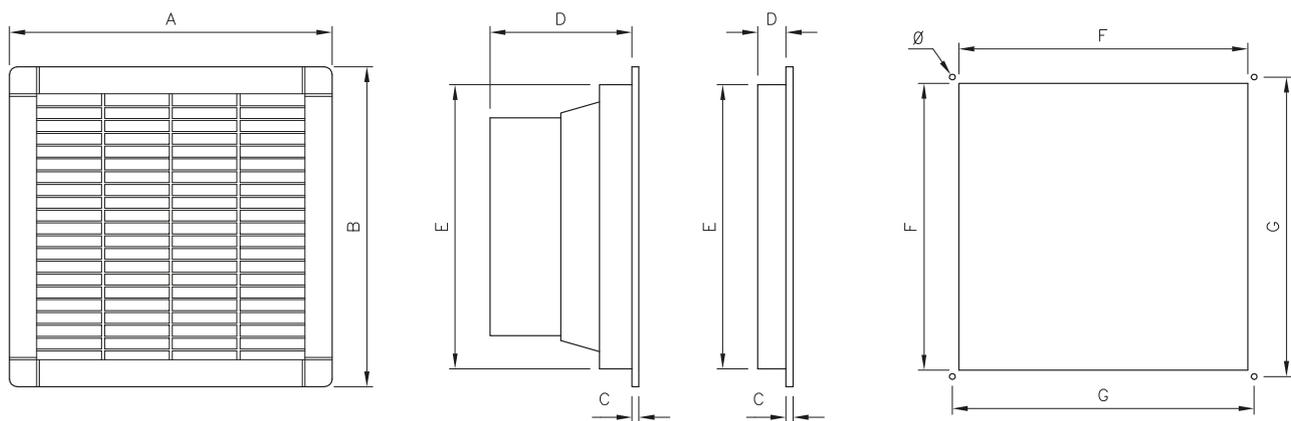
ITEM	OPERATION	VOLTAGE (V)	FREQUENCY (HZ)	POWER (W)	ABSORPTION (A)	NOISE (DB)	REVOL. (RPM)	AIR FLOW		MATERIAL
								FREE (M3/H)	W/FILTER (M3/H)	
KV10P/220	Intake/Extraction	220	50/60	13	0,10	30	2400	24	14	ABS
KV10P/110	Intake/Extraction	110	50/60	13	0,14	30	2400	24	14	ABS
KV10P/24	Intake/Extraction	24	DC	4	0,16	35	2400	24	14	ABS
KV10A/220	Intake/Extraction	220	50/60	13	0,10	30	2400	24	14	ABS+INOX
KV10A/110	Intake/Extraction	110	50/60	13	0,14	30	2400	24	14	ABS+INOX
KV10A/24	Intake/Extraction	24	DC	4	0,16	35	2400	24	14	ABS+INOX
KV12P/220	Intake/Extraction	220	50/60	22	0,14	43	2850	55	40	ABS
KV12P/110	Intake/Extraction	110	50/60	22	0,26	43	2850	55	40	ABS
KV12P/24	Intake/Extraction	24	DC	13	0,37	45	2850	55	40	ABS
KV12A/220	Intake/Extraction	220	50/60	22	0,14	43	2850	55	40	ABS+INOX
KV12A/110	Intake/Extraction	110	50/60	22	0,26	43	2850	55	40	ABS+INOX
KV12A/24	Intake/Extraction	24	DC	13	0,37	45	2850	55	40	ABS+INOX
KV14P/220	Intake/Extraction	220	50/60	40	0,17	53	2800	230	180	ABS
KV14P/110	Intake/Extraction	110	50/60	40	0,34	53	2800	230	180	ABS
KV14P/24	Intake/Extraction	24	DC	26	1,08	61	2800	230	180	ABS
KV14PM/220I	Intake	220	50/60	70	0,40	65	2775	370	250	ABS
KV14PM/220E	Extraction	220	50/60	70	0,40	65	2775	370	250	ABS
KV14A/220	Intake/Extraction	220	50/60	40	0,17	53	2800	230	180	ABS+INOX
KV14A/110	Intake/Extraction	110	50/60	40	0,34	53	2800	230	180	ABS+INOX
KV14A/24	Intake/Extraction	24	DC	26	1,08	61	2800	230	180	ABS+INOX
KV14AM/220I	Intake	220	50/60	70	0,40	65	2775	370	250	ABS+INOX
KV14AM/220E	Extraction	220	50/60	70	0,40	65	2775	370	250	ABS+INOX
KV20P/220I	Intake	220	50/60	70	0,40	65	2775	500	370	ABS
KV20P/220E	Extraction	220	50/60	70	0,40	65	2775	500	370	ABS
KV20P/110I	Intake	110	50/60	70	0,55	65	2775	500	370	ABS
KV20P/110E	Extraction	110	50/60	70	0,55	65	2775	500	370	ABS
KV20PM/220I	Intake	220	50/60	130	0,55	72	2685	630	470	ABS
KV20PM/220E	Extraction	220	50/60	130	0,55	72	2685	630	470	ABS
KV20A/220I	Intake	220	50/60	70	0,40	65	2775	500	370	ABS+INOX
KV20A/220E	Extraction	220	50/60	70	0,40	65	2775	500	370	ABS+INOX
KV20A/110I	Intake	110	50/60	70	0,55	65	2775	500	370	ABS+INOX
KV20A/110E	Extraction	110	50/60	70	0,55	65	2775	500	370	ABS+INOX
KV20AM/220I	Intake	220	50/60	130	0,55	72	2685	630	470	ABS+INOX
KV20AM/220E	Extraction	220	50/60	130	0,55	72	2685	630	470	ABS+INOX

Note: with counter doors the useful space for applying fans is minor.

FILTERS

STANDARD FEATURES AND OUTFITTING

- Protection degree IP54
- Grid inner body made of ABS plastic, self-extinguishing according to UL94V-0, resistant to temperatures ranging from -10°C a +70°C, colour RAL7035.
- Outside grids with shutters type slot for condensate drainage; available both in EN 1.4307 (TYPE 304L) s/s finely satin-finished and protected, and ABS plastic self-extinguishing according to UL94V-0, resistant to temperatures from -10°C a +70°C, colour RAL 7035.
- Filters: fit for retaining powders of granulometry up to 10 micron.
- Compliant with CEI 17-13/1 (IEC439-1), CEI 61-28 (IEC342-1).

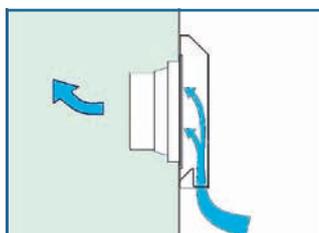
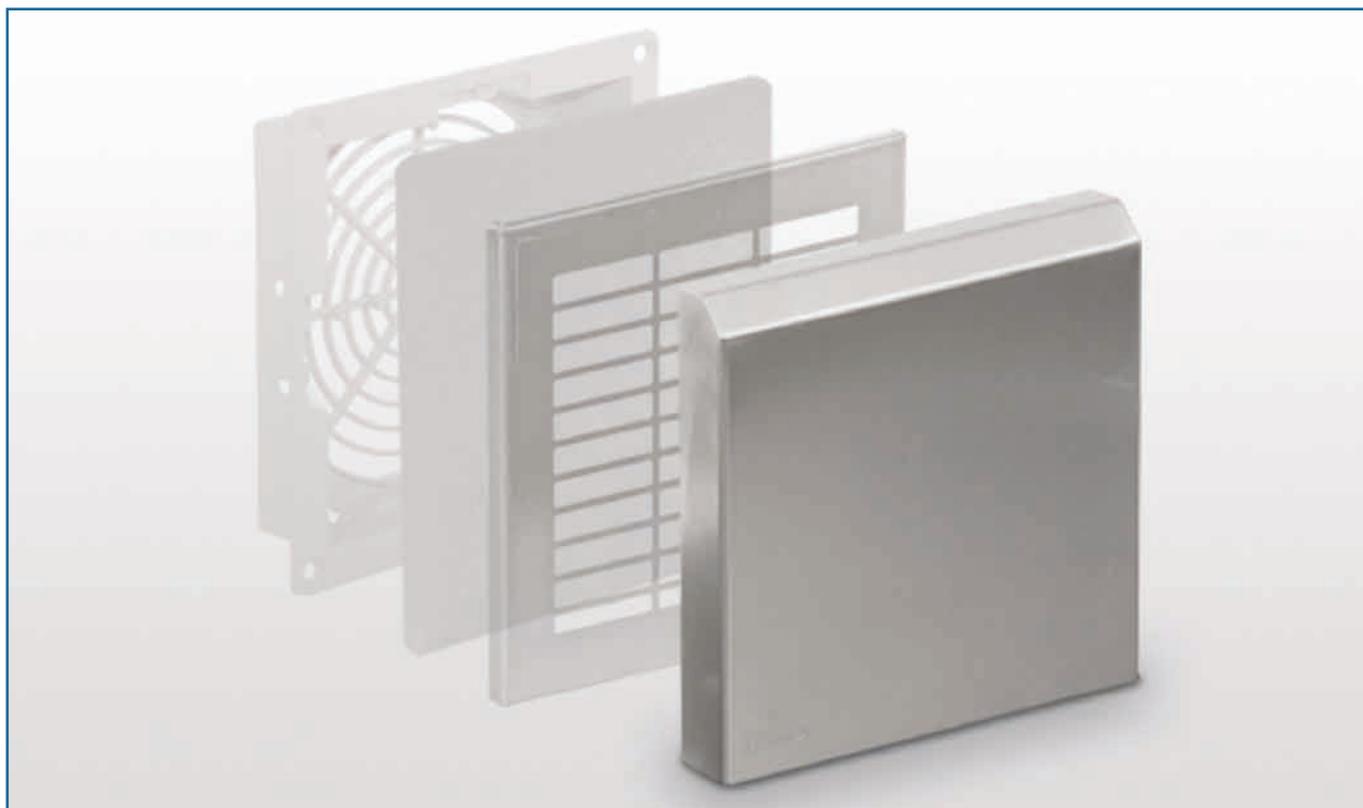


FAN DIMENSIONS DATA

MODEL	A	B	C	D	E	KG.	F	G	Ø
KV10P...	114	114	4	53	90	0,3	92	-	-
KV10A...	116	116	4	53	90	0,38	92	-	-
KV12P...	150	150	5,5	71	124	0,78	125	131	4,5
KV12A...	152	152	5,5	71	124	0,78	125	131	4,5
KV14P...	250	250	5,5	118	220	1,6	224	234	4,5
KV14A...	252	252	5,5	118	220	1,6	224	234	4,5
KV20P...	325	325	6,5	145	284	3	291	302	4,5
KV20A...	327	327	6,5	145	284	3	291	302	4,5

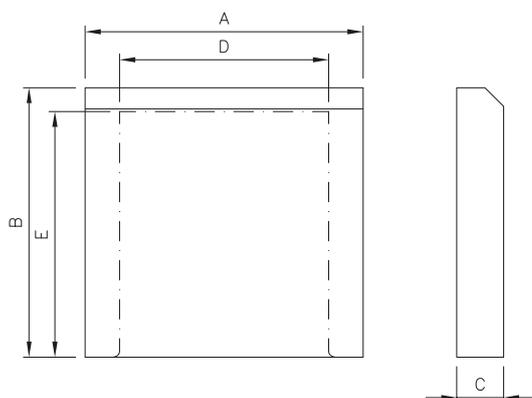
FILTERING UNIT DIMENSIONS DATA

MODEL	A	B	C	D	E	KG.	F	G	Ø
KCGEP10P	114	114	4	53	90	0,06	92	-	-
KCGEP10A	116	116	4	53	90	0,22	92	-	-
KCGEP12P	150	150	5,5	71	124	0,16	125	131	4,5
KCGEP12A	152	152	5,5	71	124	0,35	125	131	4,5
KCGEP14P	250	250	5,5	118	180	0,42	224	234	4,5
KCGEP14A	252	252	5,5	118	180	0,91	224	234	4,5
KCGEP20P	325	325	6,5	145	284	0,64	291	302	4,5
KCGEP20A	327	327	6,5	145	284	1,47	291	302	4,5

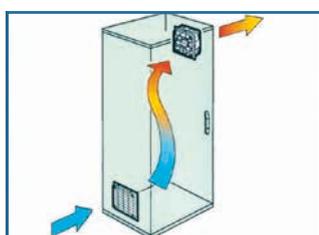


STAINLESS STEEL LABYRINTH CASING KL

EN 1.4307 (TYPE 304L), s/s casing, upward air inflow, for application on grids, thus assuring improved splash protection. A kit to achieve protection degree IP55 is included in the package.



ITEM	A	B	C	D	E
KL10-55	170	180	32	120	160
KL12-55	215	210	36	160	190
KL14-55	320	340	64	265	305
KL20-55	390	400	100	335	365



ROOF MOUNT VENTILATING UNITS KR

For use when cabinet ventilation through the roof is practical and cost-effective. Extraction mode operation.

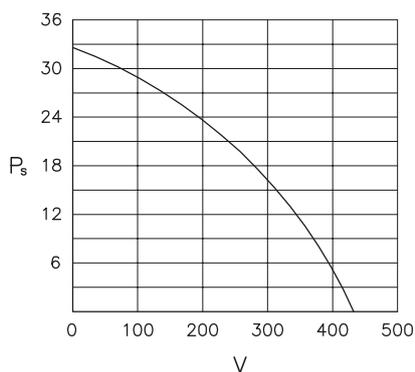
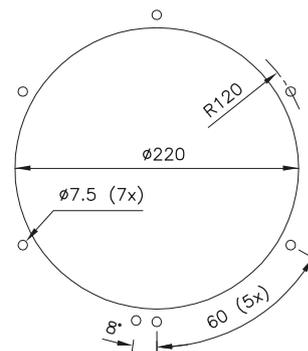
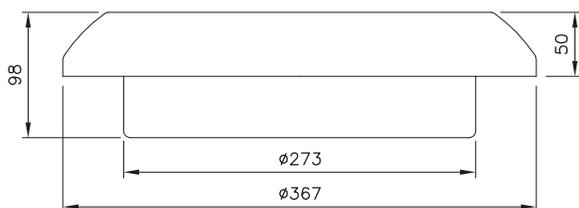
Easy installation, except for the filter pack it is accommodated inside the roof unit itself.

The outside casing is made of EN 1.4307 (TYPE 304L) or EN 1.4404 (TYPE 316L) stainless steel, finely satin-finished.

The single phase motor is engineered for high performance but low noise levels.

Centrifugal axial fan set on ball bearings, to maintain high efficiency even with high levels of static pressure (poor conditions of filters).

The whole system features IP45 or IP55 protection degree depending on the filter in use, and meets the essential requirements of Directive on Machinery 89/392/CE and the European standards UNI EN 292 parte I, II, UNI EN 294; CEI 44-5 and 6 (IEC 204-1 and 2).



V = volume d'aria in m³/h
Ps = pressione statica in mm. di colonna d'acqua

MODEL		KR20/45	KR20/55
Supply voltage	V	230	230
Frequency	Hz	50/60	50/60
Absorbed current	A	0.25	0.25
Door (free suction)	m ³ /h	430	430
Rpm	Rpm	2550	2550
Noise	dBA	64	64
Max. temperature	°C	50	50
Protection degree	IP	45	55

ROOF MOUNT EXTRACTION FAN

The unit can be delivered without motor, protection degree IP55, to be used simply as filter. To increase the air flow and when a high protection degree is not required (max IP23), the filtering units can be avoided. Without filters it becomes an effective natural aeration system. Waterproofing is assured by the labyrinth system.



ITEM	FOR ARTICLE	PROTECTION DEGREE
KFKR20/45	KRG20/45 - KR20/45	IP45
KFKR20/55	KRG20/55 - KR20/55	IP55

ITEM	PROTECTION DEGREE
KRG20/45	IP45
KRG20/55	IP55

ANTI-CONDENSATE HEATERS RH

Engineered to prevent condensate building-up inside the control boards and to keep 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.

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

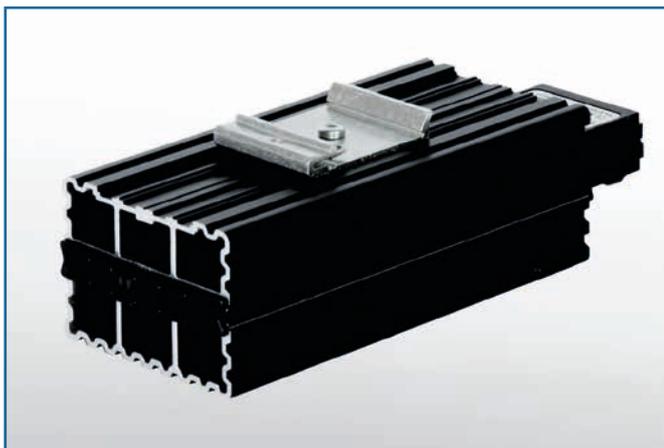
The radiator body is made of anodized aluminium section bars.

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

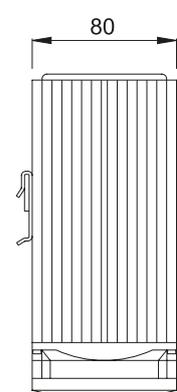
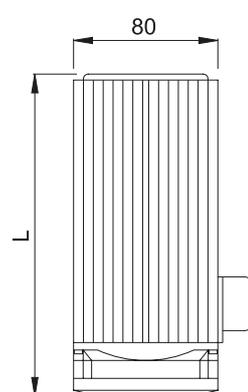
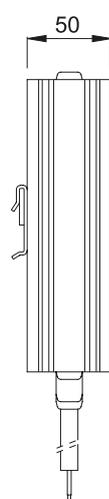
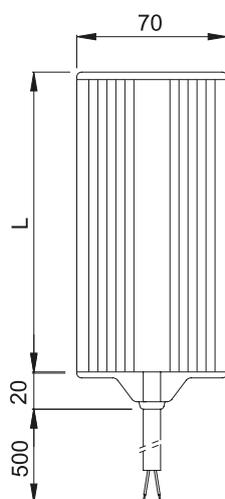
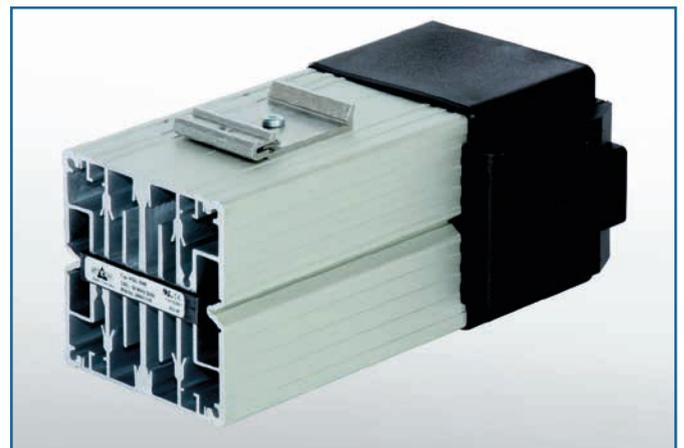
Protection degree IP20.

	RH060	RH100	RH150	RH250	RH400
Thermal power	60 W	100 W	150 W	250 W	400 W
Max Amperage	120-240V AC/DC	120-240V AC/DC	120-240V AC/DC	230V AC 50/60 Hz	230V AC 50/60 Hz
Lenght	140	140	220	182	222
Weight	0.40 Kg	0.50 Kg	0.70 Kg	1.10 Kg	1.40 Kg

RH060 - RH100 - RH150



RH250 - RH400





THERMOSTATS

Bimetal electro-mechanical thermostats.

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

- **KS011**
- **KT011**

Regulation range:	da 0 a + 60°C
Type of contact	snap
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
Fixing	on 35mm DIN rail, EN 50022
Sizes	60x33x43
Weight	40g
Protection degree	IP20
Certifications	UL FILE N° E164102

