stainless steel



cabinets/pc enclosures/monobloc cabinets Stainless steel cabinets are for use in both corrosive and food processing environments. Areta has been manufactured in stainless steel without changing its design structure or its accessories, thus providing all the benefits offered by the standard painted version. The range includes also the stainless steel pc enclosures and the monobloc cabinets with the same technical features of the ones in mild steel.

boxes

Stainless steel boxes are manufactured using the same construction and productive concepts of the ST and STP mild steel range.

Standard components are also in stainless steel including hinges, screws and the locking cam. The clean external finish gives the product an aesthetically very pleasant

and highly professional appearance. Boxes are placed in a Polythene bag and heavy-duty carton with clear identification labels.

terminal boxes

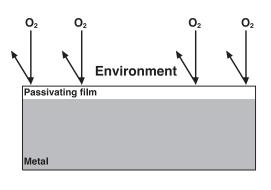
For use in corrosive and food processing environments, these stainless steel terminal boxes offer the same benefits as the stainless steel boxes. The clean external finish gives the product an aesthetically very pleasant and highly professional appearance.

control desks

Stainless steel control desks, both monobloc or modular, are provided with the same technical features of the ones in mild steel.

- features at a glance 304 grade stainless steel. 316 also available
- IP 65 protection. Cabinets IP 55
- · compatible accessories with mild steel range
- · high quality brushed finish
- modifications available on short lead times.

introduction



stainless steel

A highly corrosion resistance iron-based alloy containing between 18% and 20% chromium. Stainless steel is the strongest of the corrosion resistance materials. It exhibits many of the same resistances attributed to Fibreglass materials as well as resistance to polar solvents such as acetone. Generally 2 grades of stainless steel are available dependant on the application and environment the enclosures are to be placed. Grade 304 is the most common and is suitable for environments such as food processing or in general wet areas where a degree of corrosion resistance is required. Grade 316 material has a higher content of nickel and is generally used for highly corrosive environments such as off-shore or petro-chemical plants. Various elements of the materials are: Austenic steel: Fe + Cr (16÷28%) + Ni (6÷32%) + C (0.02÷0.1%) Ferritic steel: Fe + Cr (10.5÷30%) + C (0.02÷0.1%) Martensitic steel: Fe + Cr $(12 \div 19\%)$ + C $(0.08 \div 1.2\%)$ ETA manufactures from grade 304, offered as the standard, and the more resistant AISI316, manufactured on request. AISI304 and AISI316: chemical and physical characteristics. Grade 304 and 316 are both austenitic, with chrome percentage more than 16% and nickel percentage more than 6%. In the below table are listed the main chemical and physical characteristics of austenitic steel.

international denomination							chemic	al composit	tion			
EN 10088-2 European standard UNI 8317 Italian standard	DIN 17441	AISI (American Iron & Steel Institute)	ASTM International Standard Worldwide A240	BS British Standard 1449pt2	AFNOR NFA35-573 French standardization association	JIS Japan Industrial standard	C%	Si%	Mn%	Cr%	Ni%	Mo%
X5CrNi18-10	WN 1.4301	304	S30400	304S15	Z7CN1809	SUS304	0,08	1	2	18÷20	8÷10	0
X5CrNiMo17-12-2	WN 1.4401	316	S31600	316S31	Z7CND1711 02	SUS316	0,06	1	2	16÷18,5	10÷13	2÷2,5
mechanical properties of grade 304												
tensile strength Rm min, N/mm² 700												

0,2% yield strength Rp min N/mm²	450
mechanical properties of grade 316	
tensile strength Rm min, N/mm ²	800
0,2% yield strength Rp min N/mm²	600



228

ETA manufacturing cycle of stainless steel products ETA manufacturing process of stainless steel product follows a strict quality system to ensure ontimum product guality is achieved. The various manufacturing processes

to ensure optimum product quality is achieved. The various manufacturing processes which are constantly being reviewed and up-graded include:

- a) laser cutting operation, achieved by using high-tech precision machinery
- b) folding operation, achieved by using specific tools
- c) welding operation, achieved by using TIG technology in inert atmosphere that allows minimal heat generation around the welded area
- d) grinding, polishing operation and rounding of the edges, in order to obtain a uniform and clean surface and to avoid sharp edges
- e) gasket positioning operation, fully automated, maximises IP rating
- f) brushing operation, made by automatic process that allows for clean, even surfaces typical for hygiene requirements. As 304 is the most common grade of steel used, 120 grit level is the most popular grain finish. Other grades, e.g. 230, can be provided on request. Panels of stainless steel floor standing cabinets are pre-stained and supplied with a PVC covering to protect the material during handling
- g) assembling: the product is finally packed in plastic bags and then into a heavy-duty carton to provide protection during transportation.

technical charts

C	haracteristics	chemical resistances	steel 304 316	-	stee 304 3
		acetylene		zinc chloride	
	reliable performance	vinegar		sulphur chloride	
SENSITIVENESS	even at temperatures below zero, due to its	acid fumes		coke	
) LOW EMPERATURES	properties of high toughness	acetone (100% at 100°C)		ether (100%)	
INIPERATURES	and plasticity	acetic acid (20%)		formaldehyde	
	and plasticity	boric acid (5%)		ammonium phosphate	
		butyric acid		sodium phosphate	
	stainless steel keeps	cianidric acid (100%)		furfural (100%)	
	its mechanical characteristics	citric acid (5%)		gas of humid chlorine	
	for a period 3 times	chloridic acid			
GH FIRE	more than mild steel.			cookery gas	
SISTANCE	Consequently it allows	chromic acid (5%)		gelatine	
	to avoid additional surface	fluoridric acid		glycerine	
	treatments like painting	phosphoric acid (5%)		ethylic glycol (100%)	
	or plating	lactic acid (5%)		glucose	
		linoleic acid (100% at 100°C)		shellac	
		malic acid (10-40% at 50%C)		ammonium hydroxide (40%)	
CELLENT	recommended	muriatic acid		calcium hydroxide (10% at 100°C)	
ECHANICAL	for applications	nitric acid (10% at 80°C)		magnesium hydroxide (10% at 100°C)	
SISTANCE	in seismic areas	oleic acid (100%)		potassium hydroxide (50%)	
0.01/MUL		oxalic acid (5%)		sodium hydroxide (20%)	
		picric acid		calcium hypo chlorite 100%	
	no additional maintenance	sulfydric acid 100% humid		sodium hypo chlorite (100%)	
TTER HYGIENE	no additional maintenance	sulphuric acid, 5% boiling		milk	
	is required, other than cleaning				
		sulphuric acid, fuming		yeast	
RENGTH	stainless steel is structurally	sulphurous acid 100%		mayonnaise	
	stronger than mild steel	stearic acid (100% up to 100°C)		melasses	
		tartaric acid (10% at 100°C)		mustard	
	no deterioration	water, pure		ammonium nitrate (10-50%)	
SISTANCE	when exposed to sunlight	hydrogen peroxide (10-30%)		sodium nitrate (10-40%)	
	can be fully earthed	turpentine		mineral oils	
RTHING	can be fully earthed, unlike insulated enclosures	ethylic alcohol		vegetal oils	
		methyl alcohol (100%)		paraffin	
		melted aluminium		sodium perborate (10% up to 100°C)	
		ammonia, dry		hydrogen peroxide (10%)	
	stainless steel enclosures are easily EMC shielded	acetic anhydride (100%)		sodium peroxide (10% up to 100°C)	
VIC SHIELDING		carbon dioxide, dry		melted lead	
VIC SHIELDING		sulphurous anhydride (90%)		propane	
		aniline (100%)		soap	
		soak		sugar syrup	
		chrome bath		whey	
ORROSION				sodium silicate (100% up to 100°C)	
ESISTANCE	see chart on the side	photo fixing bath			
LOIDTANDE		photo developing bath		aluminium sulphate (10%)	
		petrol		ammonium sulphate	
		benzol, hot and cold		ferric sulphate (10%)	
		sodium bicarbonate		ferrous sulphate	
	use	beer		magnesium sulphate	
		sodium bisulphate (15% at 85°C)		nickel sulphate (30%)	
		carbon bisulphide		potassium sulphate (10% up to 100°C)	
		borax, 5% hot		copper sulphate (10%)	
		butane		sodium sulphate (10%)	
		coffee		zinc sulphate (10%)	
	is moderately priced	clorine, dry		sodium sulphide (10%)	
	and generally accepted	camphor		concentrated orange juices	
SI 304	as the norm for many	sodium carbonate (5% up to 65°C)		concentrated lemon juices	
	applications in food industry	sodium citrate, hot and cold		carbon tetrachloride (10%)	
	or chemical	chloroform (100%)		sodium thiosulfate (10-60% up to 100°C)	
				toluol	
		ammonium chloride (1%)			
		ferric chloride (5-50%)		trichlorethylene (100% at 100°C)	
		ferrous chloride (10-20%)		paintings	
		magnesium chloride (up to 20%)		wine	
		mercury chloride (10%)		whisky	
		nickel chloride (10-30%)		melted zinc	
		potassium chloride		melted sulphur	
01.04.0	contains more chromium,	sodium chloride (5%)			
SI 316	is more corrosion resistant,	risk of corrosion			
	but also more expensive				
		no corrosion			
		possibility of corrosion			

aret

Areta stainless steel



characteristics

Rails are made up of unique closed profile manufactured from 1.5mm AISI 304 stainless steel. The frame corners are manufactured with orthogonal joints in AISI 304 stainless steel, laser welded to the rails.

Doors manufactured from 2mm AISI 304 (AISI316 on request) satin stainless steel with tubular stiffening frame.

Hinges are made in zinc alloy, chrome plated, open 180° (Hinges manufactured from AISI 316 stainless steel on request).

Rear panel manufactured from 1.5mm AISI 304 (AISI 316 on request) satin stainless steel. Roof manufactured from 1.5mm AISI 304 (AISI 316 on request) satin stainless steel. Bottom manufactured from 1.5mm AISI 304 (AISI 316 on request) satin stainless steel.

supply includes

- structure
- · doors complete with Ø 3mm double bar locking system
- rear panel
- removable roof
- bottom with removable cable entry.

conformity and approval

CE US LISTED (UL)US LISTED 🗶 RINA

protection dearee

- IP 55 complying with EN50298; EN60529
- type 12 complying with UL508A; UL50
- impact resistance IK10 complying with EN50298; EN50102.

To be ordered separately:

• eyebolts and/or lifting brackets (see page 236).

Areta stainless steel single blank door

code		C	abinet dim	l.	usable inner area				
mod.	art.	L (*)	А	Р	W	Н	I	Ν	
	061804PR		1809	414		1700	300	1630	
	061805PR	600	1005	514	500	1700	400		
	062005PR	000	2009	514	500	1900	400		
	062006PR		2009	614			500	1000	
	081804PR		1809	414	700	1700	300	1630	
ARETX	081805PR	800		514			400		
ANEIA	082005PR	000		514			400		
	082006PR		2003	614		1300	500		
	101805PR		1809	514		1700	400	1630	
-	101806PR	1000	1003	614	900	1700	500	1030	
	102005PR	1000	2009	514	300	1900	400	1830	
	102006PR		2003	614	1	1500	500	1030	

Areta stainless steel double blank door

code		cabinet dim.			usable inner area				
mod.	art.	L (*)	A	Р	W	Н	l	Ν	
	121804PR 1800		1809	414		1700	300	1630	
ARETX	121805PR	1200	1009	514	1100	1700	400	1030	
ANLIA	122005PR	1200	2009	514	1100	1900	400	1830	
	122006PR		2009	614		1900	500		

(*) With side panels mounted overall dimension is 616. 816. 1016.

To order a stainless steel enclosure in high grade AISI 316, please add H to the catalogue number. E.g.: ARETX-082005PRH.

To order a stainless steel enclosure in high grade AISI 316,

(*) With side panels mounted overall

please add H to the catalogue number.

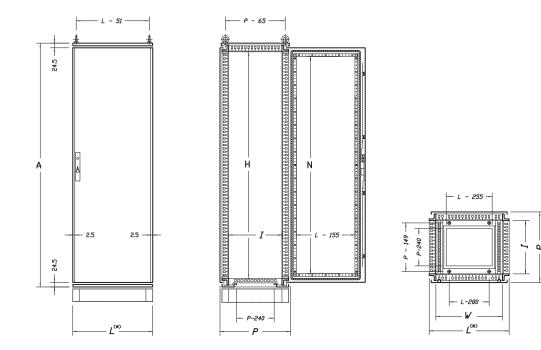
dimension is 1216.

E.g.: ARETX-082005PRH.

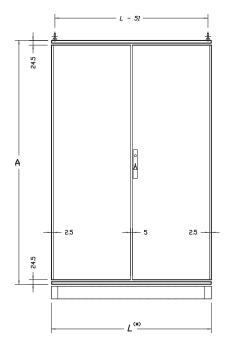


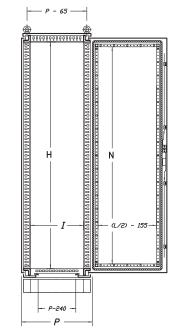
Areta stainless steel

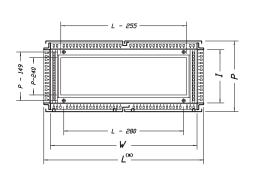
ARETA STAINLESS STEEL SINGLE BLANK DOOR



ARETA STAINLESS STEEL DOUBLE BLANK DOOR







areta

ss steel



characteristics STRUCTURE

Rails are made up of unique closed profile manufactured from 1.5mm AISI 304 stainless steel. The frame corners are manufactured with orthogonal joints in AISI 304 stainless steel, laser welded to the rails.

Doors manufactured in 2mm AISI 304 (AISI 316 on request) material

with stiffening frame and plexiglas viewing window.

Hinges are made in zinc alloy, chrome plated (hinges manufactured from AISI 316 stainless steel on request).

composition

- structure • doors with plexiglas complete with Ø 3mm double bar locking system
- hinges in zinc alloy, chrome plated
 - rear panel
 - · removable roof
 - bottom with removable cable entry.

conformity and approval

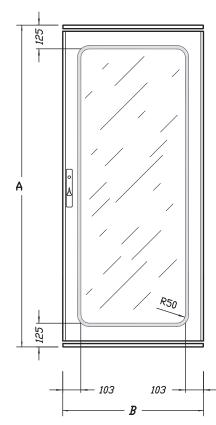
CE US LISTED (UL)US LISTED 🕐 RINA TÜV

protection degreeIP 54 complying with EN50298; EN60529

- type 12 complying with LL508A; UL50
 impact resistance IK10 complying with EN50298; EN50102.

To be ordered separately:

• eyebolts and/or lifting brackets (see page 236).



	code	cabinet dim.			В	А	
mod.	art.	width	height	depth			
	061804PX		1809	414		1809	
	061805PX	600	1009	514	600	1009	
	062005PX	000	2009	514	000	2009	
	062006PX		2009	614			
	081804PX		00 2009	414	- 800	1809	
ARETX	081805PX	800		514			
ANLIA	082005PX	000		514			
	082006PX		2003	614		2009	
	101805PX		1809	514		1809	
	101806PX	1000	1003	614	1000	1009	
	102005PX	1000	2009	514	1000	2009	
	102006PX		2009	614		2009	

To order a stainless steel enclosure in high grade AISI 316, please add H to the catalogue number. E.g.: ARETX-082005PXH.



characteristics

composition

STANDARD PLINTH:

H=100 ATZ1 - H=200 ATZ2







The reduced dimension of the corners allows the easy handling of the cabinet. The side covers can be removed from the front and from the rear.

Corners: manufactured from 2mm AISI 304 stainless steel (AISI 316 on request). Cross channels: manufactured from 2mm AISI 304 stainless steel (AISI 316 on request).

REMARK: available on request a fully welded plinth with side covers.

(code		cabinet dim.		nth
mod.	art.	width	depth	В	Р
	060040		414		378
	060050	600	514	600	478
	060060		614		578
	080040		414		378
ATX1	080050	800	514	800	478
(h=100)	080060		614		578
ATX2	100040		414		378
(h=200)	100050	1000	514	1000	478
	100060		614		578
	120040		414		378
	120050	1200	514	1200	478
	120060		614		578

FRONT INSERTED MOUNTING PLATE ATPA Manufactured from sendzimir sheet steel

• thickness 2.5mm for L<1000 • thickness 3mm for L 1000.

mounting plate

code		cabinet dim.		plate	
mod.	art.	В	А	L	Н
	060180	600	1809 40		1680
	060200	000	2009	485	1880
	080180	800	1809	685	1680
ATPA	080200	000	2009	005	1880
	100180	1000	1809	885	1680
	100200	1000	2009	005	1880
	120180	1200	1809	1085	1680
	120200	1200	2009	1000	1880

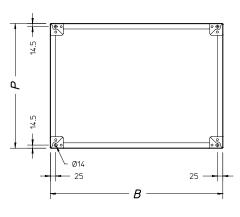
* For L 1400

Mounting plate manufactured with two parts with horizontal union and stiffening omega









To order a stainless steel enclosure in high grade AISI 316, please add H to the catalogue number. E.g.: ATX1-080050H.



To be ordered separately: • mounting accessories: WTKB-002.





SIDE INSERTED MOUNTING PLATE ATPL Manufactured from 2.5mm sendzimir sheet steel

Supply includes mounting accessories and sliding guides.

mounting plate

code		cabinet dim.		plate	
mod.	art.	В	А	L	Н
	060180	600	1809	600	1685
	060200	000	2009	000	1885
	080180	800	1809	800	1685
ATPL	080200	000	2009	000	1885
	100180	1000	1809	1000	1685
	100200	1000	2009	1000	1885
	120180		1809	1200	1685
	120200	1200	2009	1200	1885



SIDE PANELS ATFX Manufactured from 1.5mm AISI 304 stainless steel (AISI 316 on request).

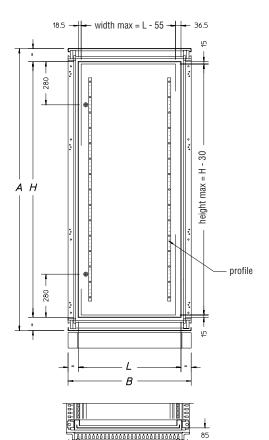
- composition
- two side panels
- rapid fasten couplers
- mounting accessories.

side panels

CO	code		et dim.
mod.	art.	height	depth
	040180		400
	050180	1800	500
ATFX	060180		600
	050200	2000	500
	060200	2000	600

To order a stainless steel enclosure in high grade AISI 316, please add H to the catalogue number. E.g.: ATFX-050200H.







INNER DOOR ATPIX

Manufactured from 2mm AISI 304 stainless steel material (AISI 316 on request) and supplied complete with vertical uprights and horizontal rails.

composition

door complete with Ø 3mm double bar locking system

hinges
 vertical uprights and horizontal rails

mounting accessories.

inner door

CO	de	cabinet dim. inner door		door	
mod.	art.	В	A	L	Н
	060180	600	1809	467	1667
	060200	000	2009	467	1867
ATPIX	080180	800	1809	667	1667
AITIA	080200	000	2009	007	1867
	100180	1000	1809	867	1667
	100200	1000	2009	007	1867

To order a stainless steel enclosure in high grade AISI 316, please add H to the catalogue number. E.g.: ATPIX-080200H.

90° STAINLESS STEEL HINGE WTCE-090001XH

Manufactured in AISI 316 stainless steel material. Supply includes 4 pieces, with pins and clips in AISI 316 material.

Available on request.

STAINLESS STEEL MOUNTING ACCESSORIES WTAX Available on request.

1. REAR PANEL FIXING BRACKETS WTAX-100H Manufactured in AISI 316 material. Supply includes 8 pieces.

2. SIDE PANELS FIXING BRACKETS WTAX-200H Manufactured in AISI 316 material. Supply includes 16 pieces.

> 3. DOOR LOCKING POINTS WTAX-300H Manufactured in AISI 316 material. Supply includes 4 pieces.







LEVELLING FEET WTPX They can be applied on the cabinet structure or plinth.

They make easier the floor cleaning and adjust different heights.

composition 4 pieces, plates and mounting accessories.



180° CHROME HINGES WTCE-180001C Supply includes 4 pieces.

180° HINGES AISI 316 STAINLESS STEEL WTCE-180001X Supply includes 4 pieces.

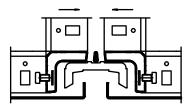


EYEBOLTS WTGS-001X M12 lifting eyebolts. Stainless steel. Supply includes 4 pieces.



LIFTING BRACKETS WTSS-001 5mm zincpassivated sheet steel lifting brackets. Supply includes 4 pieces.





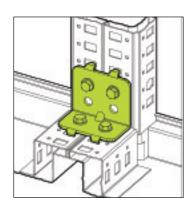
JOINING KIT ATKU-002X To be used to join two cabinets together.

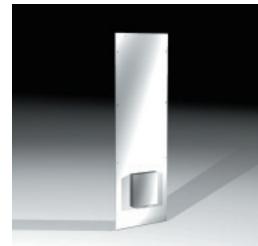
It is better to use lifting brackets WTSS-001 instead of lifting eyebolts. Supply includes union spacers, fixing accessories and gasket to guarantee IP protection degree.

Upon request available in chrome plated material (ATKU-002C).

REINFORCING BRACKETS ATKU-003

Manufactured from 4mm zincpassivated sheet steel. To be used to grant more rigidity to cabinets joined in a suite. Supply includes: 4 pieces, mounting accessories.





SHROUD FOR FILTER FANS Installing a shroud over a filter fan and exhaust filter, the protection degree of the enclosure is maintained.

characteristics

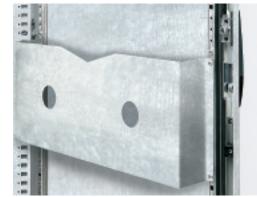
Manufactured from 1.2mm stainless steel AISI 304.

COMPOSITION Single piece with mounting accessories.

protection degree IP 55.



code			
mod.	art.	for filter fan	for filter grid
WTCVX	005	WT300/300V WI200/200V	WT330 WI230
	010	WT305/305V WT308/308V WI205/205V	WT335 WI235
	015	WT310/310V WT315/315V WI210/210V	WT340 WI240



PLAN POCKET WTTS

Large size plan manufactured from 1.5mm stainless steel. COMPOSITION Supply includes: 1 plan pocket complete with mounting screws.

> Width 600mm WTTS - 000600X Width 800mm WTTS - 000800X Width 1000mm WTTS - 001000X



Areta stainless steel



ARETA MODULAR STAINLESS STEEL Upon request, power distribution boards in stainless steel are available.

Upon request, power distribution boards in stainless steel are available. (Cubicles made in sendzimir sheet steel).

conformity and approval



protection degree Structure with glazed door: • IP 54 complying with EN50298; EN60529 • type 12 complying with UL508A; UL50.

Areta pc in stainless steel with pull-out keyboard



characteristics

The pc front with pull-out keyboard includes:

- structure in AISI 304 material with rear panel. AISI 316 on request
- top glazed door in stainless steel for monitor viewing
- pull-out keyboard drawer with mouse support
- lower door in stainless steel
- sealed box for keyboard
- adhesive double side tape for keyboard fixing
- gasket and mounting accessories
- monitor support.

protection degree

• IP 55.

dimensions			code	
width	height	height depth mod.		art.
600	1800	600	ATPCX	061806CE
600	2000	600	ATPCX	062006CE

To be ordered separately:

• side panels ATFX (see page 234)

• plinth H=100, H=200 (see page 233).

To order a stainless steel enclosure in high grade AISI 316, please add H to the catalogue number. E.g.: ATPCX-061806CEH



Asso, aerial view of the main facility of Special Eta and the manufacturing site of stainless steel enclosures.

oc cabinet



characteristics

STRUCTURE

Manufactured from 1.5mm AISI 304 material with removable rear panel. Door manufactured from 2mm AISI 304 material with stiffening frame. Available in AISI 316 on request. Hinges in zinc alloy, chrome plated.

composition

- cabinet structure
- · door complete with Ø 3mm double bar locking system
- · adjustable cable entry.

conformity and approval



protection degree

- IP 55 with complying EN50298; EN60529
 type 12 with complying UL508A; UL50
 impact resistance IK10 complying with EN50298; EN50102.

To be ordered separetely:

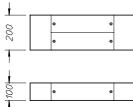
- eyebolts (see page 241)
- mounting plate (see page 241).

dimensions			code		
L	Н	Р	mod.	art.	
600	1600	400	ATB8X	061604PR	
600	1800	400	ATB8X	061804PR	
600	1800	500	ATB8X	061805PR	
600	2000	400	ATB8X	062004PR	
600	2000	500	ATB8X	062005PR	
800	1600	400	ATB8X	081604PR	
800	1800	400	ATB8X	081804PR	
800	1800	500	ATB8X	081805PR	
800	2000	400	ATB8X	082004PR	
800	2000	500	ATB8X	082005PR	
1000	1800	400	ATB8X	101804PR	
1000	2000	400	ATB8X	102004PR	
1200	1800	400	ATB8X	121804PR	
1200	1800	500	ATB8X	121805PR	
1200	2000	400	ATB8X	122004PR	

To order a stainless steel enclosure in high grade AISI 316, please add H to the catalogue number. E.g.: ATB8X-062005PRH. Available on request.

ATB8

complementary accessories



To order a stainless steel enclosure in high grade AISI 316, please add H to the catalogue number. E.g.: ATX6-060050H.

В

10



Corners: manufactured from 2mm AISI 304 stainless steel (AISI 316 on request). Cross channels: manufactured from 2mm AISI 304 stainless steel (AISI 316 on request).

composition • 4 corners

• cross channels.

Remark: available on request a fully welded plinth with side covers.

code		cabinet dim.		plinth	
mod.	art.	width	depth	В	Р
ATX6 (H=100) ATX7 (H=200)	060040	- 600	400	600	340
	060050		500		440
	080040	800	400	800	340
	080050		500		440
	100040	1000	400	1000	340
	120040	1200	400	1200	340
	120050		500		440

MOUNTING PLATE ATPA Manufactured from sendzimir sheet steel

Manufactured from sendzimir sheet steel • thickness 2.5mm for L<1000 • thickness 3mm for L 1000.

mounting plate

code		cabinet dim.		plate	
mod.	art.	В	A	L	Н
ATPA	060160	600	1609	485	1480
	060180		1809		1680
	060200		2009		1880
	080160	800	1609	685	1480
	080180		1809		1680
	080200		2009		1880
	100180	1000	1809	885	1680
	100200		2009		1880
	120180	1200	1809	1085	1680
	120200		2009		1880

To be ordered separately:

• mounting accessories: WTAC-002.

WTGS-003 Zincpassivated M12 lifting eyebolts. Supply includes 4 pieces with nuts and washers.

