

604107/011 en



Summary

IS Cabinets - IP55

1

AM Boards - IP55

2

C Consoles- IP55

3

SR Enclosures - IP65

4

Air conditioning

5

Overall dimensions

6

Mechanical and painting characteristics
RAL colour range
Code list and weights

7

Index

General characteristics and application	1/4
Product range	1/6
Selection and ordering criteria	1/7
Construction characteristics	1/14
Separated cell cabinets	1/16
Technical characteristics	1/18
Accessories common to whole range	1/20
Dissipating power	1/28
Electrical characteristics	1/30
Spare parts	1/31

General characteristics and application

1



The IS modular cabinets are ABB SACE's main product line and allow construction of medium and large sized electrical panel boards for control, instrumentation and automation, with the possibility of creating a bank of continuous cabinets for the control of complex industrial plants. They are suitable for floor installation and allow lateral and rear access as well as adjustment of the mounting plate.

A particular characteristic of the IS cabinets is the seven fold steel plate patented section built by automatic machines. This makes the welded structure stronger allowing installation of all main accessories and the continuous placement of several structures, all in compliance with IP55 protection. The seven fold sections are used for the construction of the entire structure of the cabinet: therefore, not only for the front uprights but also the back ones, the base and the head. The welding of the base, uprights and heads is done by an automatic robot.

The IS cabinet line offers a wide dimensional range, ten different versions for different types of applications and a complete line of accessories.

The above mentioned functional characteristics allow the use of IS cabinets in the most complex application (in compliance with electrical equipment requirements as specified in CEI EN 60204-1) such as panel boards and batteries for command and control of industrial plants, automatic production lines, large conditioning systems including applications such as main and secondary distribution boards. This is made possible by the availability of fixed and hinged modular panels combined with DIN rails that can be depth-adjusted for the installation of various types of equipment.

The entire line of IS cabinets has high IP55 rating, tested and certified by ABB SACE in compliance with

CEI 70-1 standards.

IS cabinets also meet UL (Underwriters Laboratories) and CSA (Canadian standards association) Type 12 standards.

In brief, the main technical and functional characteristics for IS cabinets and their components are the following:

- **wide range** consisting of 57 different sizes available in various versions; three heights (1800, 2000, 2200 mm), five different widths (400, 600, 800, 1000 and 1200 mm) and four depths (450, 600, 800 and 1000 mm);
- **manufacturing** with 2.0 mm gauge steel plate automatically welded by a robot and M6 bolts provided for earthing;
- **ABB SACE seven fold patented section** that guarantees the strength and solidity of the welded structure and obtains IP55 protection rate;
- **ten standard versions** to order the IS cabinet with a single code in the most suitable configuration for every required application: with blind door, glass door (V), double horizontal door (FV) and vertical (FV) door, cable way (VC), lectern (L-LV), suitable for Personal Computer (PC) and with cells (PM, MF);
- **IP55 protection rate** verified in compliance with CEI 70-1 norms;
- **galvanised mounting plate**, 2.5mm thick, able to guarantee protection for the parts drilled by the user. The plate is also available in the painted RAL 2004 version and depth may be adjusted at a pitch of 25 mm. The mounting of the plates is simplified by two sliding supports at the back of the cabinet;
- **palletable base plinth** consisting of four angular sections 100 mm high already fastened to the bottom of the structure and four closure flanges (to be ordered separately).

General characteristics and application

Therefore, the cabinet can be moved directly without the use of pallets;

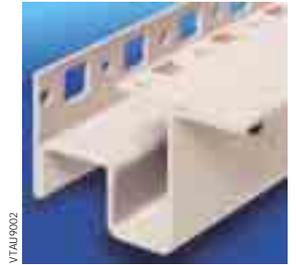
- **front doors** with 100° opening radius (can be extended to 180° with the use of special hinges) made with 2.0 mm gauge steel plate, with internal polyurethane foam gasket. The blind doors have an internal tubular section that enhances their stiffness and allows easy instalment of cabling.

In the "V" version the doors have security tempered crystal (4 mm gauge) attached internally, in order to guarantee the IP55 protection rate. The standard opening is from left to right with the possibility of modification (exchanging the mounting of the hinges and lock anchorage);

- **internal die-cast hinges**, not visible from the outside;
- **ABB SACE patented handle** with closing rods in four points and operating through the lifting of a central lever, with black opaque chrome plating;
- **cable passage** from the bottom, through removable plates (by changing the bottom and top plate the passage can be inverted);
- **the removable back panel** is assembled with screws and can be replaced by a door, it is made of 1.5 mm gauge steel plate;
- **inner door**, in painted 2.0 mm gauge steel plate, fastened to a pair of internal uprights and set at 64 mm from the external front door;
- **modular panels** fixed and hinged (with DIN drilling, blind and for measuring instrumentation) made with 1.5 mm gauge steel plate available for 600 and 800 mm width panel boards;
- **uprights suitable** for 600 mm width cabinets for the fastening of 19" Rack panels. Comprised of "L" shaped 2.0 mm gauge galvanised sections;

- **swing frame** suitable for 800 mm width cabinets for the fastening of 19" Rack panels. Made with 2.0 mm gauge painted steel plate;
- **19" Rack panels** made with 3.0 mm gauge anodised aluminium;
- **possibility of continuous banking** with a special kit of supports and gaskets that can guarantee IP55 protection rate along the cabinet joint.

Orange peel RAL 7032 is the standard colour. On request, IS cabinets can be ordered in a wide range of RAL colours (see page 7/3).



Seven fold special profile.



Photos refer to cabinets with already assembled fittings. Mounting plate side panels and base plinth must be ordered separately.

1

IS cabinets are available in ten different standard versions. Each one is marked by one or two letters. The standard versions allow IS cabinets to be ordered in the most common configurations using a single code. Inner plates, side panels, base plinths and lifting eyebolts must be ordered separately.

Basic version

The IS cabinet code (e.g. IS 2086) is related to the basic version that includes the blind door and the back panel. To order the other standard versions, add the part number of the required version to the cabinet code (e.g. IS 2086FV2, IS 2086L, IS 2086PM, etc.).

Basic cabinet

IS Cabinet with blind door and screwed-on back panel

V

IS cabinet with front glazed door

FO

IS cabinet with double blind door (top and bottom)
 F02 = Top door h=200 mm
 F04 = Top door h=400 mm

FV

IS cabinet with double vertical blind door
 FV2 = Small front door l=200 mm
 FV4 = Small front door l=400 mm
 FV5 = Double front door l=500 mm

The available ten versions allow one code to be used when ordering IS Cabinets in the most common configurations.



VTAU9130



VTAU9005



VTAU9006



VTAU9007

VC

IS cabinet with cableway and intermediate mounting rail
 VC2 = Cableway l=200 mm
 VC4 = Cableway l=400 mm

L/LV

IS cabinet with desk switchboard
 L = Front blind doors
 LV = Top front glazed door

PC

IS cabinet for Personal Computer

PM

IS cabinet without front door for cell configuration

MF

IS cabinet without front door for cell configurations and with cableway
 MF2 = Cableway l=200 mm
 MF4 = Cableway l=400 mm



VTAU9008



VTAU9009



VTAU9010



VTAU9011



VTAU9012

Selection and ordering criteria

IS modular cabinets are available in 45 different sizes:

- height from 1800 to 2200 mm;
- width from 400 to 1200 mm;
(1200 mm width cabinets are supplied with blind double front door);
- depth from 450 to 800 mm;

and in ten different versions corresponding to the most common applications.

The range and product code composition and the selection chart on pages 1.7 to 1.9 allow easy and fast selection of the product and the most suitable components for the required application.

Once the cabinet structure with the required size and version has been identified, the complementary elements can be selected from the bottom part of the chart:

- side panels;
- galvanised mounting plate (available also in the painted RAL 2004 version on page 1.17);
- base plinth (covering plates);
- painted steel plate inner door;
- uprights or swing frames for 19" Rack panels;
- panels for fixed or hinged modular circuit breakers (in this case the modular mounting plates, available in 200, 400 and 600 mm heights, are used instead of the single mounting plate).

For installations that need back access, it is possible to set up a door instead of the back panel: the "replacement of back panel with door" code combined with an IS cabinet enables the panel board to be ordered already with the back door instead of the screwed back panel.

Furthermore, a series of general accessories are also available: front and side crosspieces, anti-locking safety devices, spare locks, rain covers, eyebolts and spread bars, hinges for door opening radial up to 180°, document pockets, various locks, vertical and horizontal dividing plates, etc. (see page 1.16 and below).

All IS enclosures are supplied with a pallettable base plinth made of four 100 mm high corner sections fixed to the base of the frame, and of four covering plates (to be ordered separately). The cabinet can be moved without use of pallets. The plinth code h=100 mm (ZA 1....) includes only the four covering plates to be assembled after the cabinet installation. Base plinths 200 mm high (ZA2...) are also available.



Selection and ordering criteria

IS Cabinets, height 1800 mm (without plinth)

	Height (mm)	1800	1800	1800	1800	1800	1800	1800	1800
	Width (mm)	400	600	800	1000	1200(1)	400	600	800
	Depth (mm)	450	450	450	450	450	600	600	600
	Cabinet with blind door	IS 1844	IS 1864	IS 1884	IS 1804	IS 1824	IS 1846	IS 1866	IS 1886
	Single inner plate (2)	PF 1840	PF 1868	PF 1888	PF 1810	PF 1812	PF 1840	PF 1868	PF 1888
	Inner counterdoor	-	CP 1860	CP 1880	CP 1810	CP 1812	-	CP 1860	CP 1880
	Cabinet with front glazed door	-	IS 1864V	IS 1884V	IS 1804V	IS 1824V	-	IS 1866V	IS 1886V
	Single inner plate (2)	-	PF 1868	PF 1888	PF 1810	PF 1812	-	PF 1868	PF 1888
	Inner counterdoor	-	CP 1860	CP 1880	CP 1810	CP 1812	-	CP 1860	CP 1880
	19" Rack swing frame (33HE)	-	-	RK 2882	-	-	-	-	RK 2882
	Cabinet with double blind door (top and bottom)	Height 200 Height 400	- IS 1864FO4	IS 1884FO2 IS 1884FO4	IS 1804FO2 IS 1804FO4	IS 1824FO4	-	IS 1866FO2 IS 1866FO4	IS 1886FO2 IS 1886FO4
	Single inner plate (2)	-	PF 1868	PF 1888	PF 1810	PF 1812	-	PF 1868	PF 1888
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet with double blind door width 200 mm	Width 200 Width 400 Width 500	- - -	IS 1884FV2 IS 1884FV4	IS 1804FV2 -	IS 1824FV2 IS 1824FV4	-	-	IS 1886FV2 IS 1886FV4
	Single inner plate (2)	-	-	PF 1888	PF 1810	PF 1812	-	-	PF 1888
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet with front glazed door and left cableway	Width 200 Width 600	- -	IS 1884VC2 PF 1868	IS 1804VC2 -	IS 1824VC2	-	-	IS 1886VC2 PF 1868
	Single inner plate (2)	Width 800 Width 1000 Width 1200	- - -	PF 1888	PF 1888 PF 1810 PF 1812	-	-	-	PF 1888
	Inner counterdoor	-	-	CP 1860	CP 1880	CP 1810	-	-	CP 1860
	19" Rack swing frame (33HE)	-	-	-	RK 2882	-	-	-	-
	Cabinet with front glazed door, left cableway and back panel	Width 400 Width 600	- -	-	IS 1804VC4 PF 1868	IS 1824VC4	-	-	-
	Single inner plate (2)	Width 800 Width 1000 Width 1200	- - -	-	PF 1810	PF 1888 PF 1812	-	-	-
Inner counterdoor	-	-	-	CP 1860	CP 1880	-	-	-	
19" Rack swing frame (33HE)	-	-	-	-	RK 2882	-	-	-	
	Cabinet with desk	Blind door Top glazed door	- IS 1864L IS 1864LV	IS 1884L IS 1884LV	IS 1804L IS 1804LV	IS 1824L IS 1824LV	-	IS 1866L IS 1866LV	IS 1886L IS 1886LV
	Partial inner plate (to be completed with SA 1010 accessories and side crosspieces)	Top 643 Bottom 750	- PF 6256	PF 6258	PF 6260	PF 6262	-	PF 6256	PF 6258
	Single inner plate (2) - only for rear access	-	PF 6346	PF 6348	PF 6350	PF 6352	-	PF 6346	PF 6348
	Without inner counterdoor	-	PF 1868	PF 1888	PF 1810	PF 1812	-	PF 1868	PF 1888
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet for Personal Computer	-	-	-	-	-	-	IS 1866PC	-
	Cabinet for cell configuration without front door (to be completed with cells described on page 1/16)	-	IS 1864PM	IS 1884PM	-	-	-	IS 1866PM	IS 1886PM
	Without inner plate	-	-	-	-	-	-	-	-
	Cabinets for cells with 200 mm cableway (to be completed with cells described on page 1/16)	-	-	IS 1884MF2	IS 1804MF2	-	-	-	IS 1886MF2
	Without inner plate	-	-	-	-	-	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinets for cells with 400 mm cableway (to be completed with cells described on page 1/16)	-	-	-	IS 1804MF4	IS 1824MF4	-	-	-
	Without inner plate	-	-	-	-	-	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-

Accessories common to all cabinets

Replacement of back panel with single door (3)	-	RP 1860	RP 1880	RP 1810	RP 1812	-	RP 1860	RP 1880
Two side panels	PL 1845	PL 1860	PL 1860	PL 1860				
Plinth H. 100mm, only flanges	ZA 1445	ZA 1645	ZA 1845	ZA 1045	ZA 1245	ZA 1460	ZA 1660	ZA 1860
Plinth H. 200mm, 6 flanges and 4 angulars	ZA 2445	ZA 2645	ZA 2845	ZA 2045	ZA 2245	ZA 2460	ZA 2660	ZA 2860

(1) 1200 mm wide cabinets have double front door.

(2) Inner plates with different heights can be fixed by means of support brackets (code SA1010) and side crosspieces (see page 1/24). Furthermore, oversized inner plates are available (see page 1/20).

(3) It can be ordered only on purchasing the cabinet (it is not sold individually). To order a possible single door for the rear, select code PR... (see page 1/31).

Selection and ordering criteria

1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
1000	1200(1)	400	600	800	1000	1200(1)	600	800	1000	1200(1)
600	600	800	800	800	800	800	1000	1000	1000	1000
IS 1806	IS 1826	IS 1848	IS 1868	IS 1888	IS 1808	IS 1828	IS 1860	IS 1880	IS 1800	IS 1820
PF 1810	PF 1812	PF 1840	PF 1868	PF 1888	PF 1810	PF 1812	PF 1868	PF 1888	PF 1810	PF 1812
CP 1810	CP 1812	-	CP 1860	CP 1880	CP 1810	CP 1812	CP 1860	CP 1880	CP 1810	CP 1812
IS 1806V	IS 1826V	-	IS 1868V	IS 1888V	IS 1808V	IS 1828V	IS 1860V	IS 1880V	IS 1800V	IS 1820V
PF 1810	PF 1812	-	PF 1868	PF 1888	PF 1810	PF 1812	PF 1868	PF 1888	PF 1810	PF 1812
CP 1810	CP 1812	-	CP 1860	CP 1880	CP 1810	CP 1812	CP 1860	CP 1880	CP 1810	CP 1812
-	-	-	-	RK 2882	-	-	-	RK 2882	-	-
IS 1806FO2	-	-	IS 1868FO2	IS 1888FO2	IS 1808FO2	-	-	-	-	-
IS 1806FO4	IS 1826FO4	-	IS 1868FO4	IS 1888FO4	IS 1808FO4	IS 1828FO4	-	-	-	-
PF 1810	PF 1812	-	PF 1868	PF 1888	PF 1810	PF 1812	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 1806FV2	IS 1826FV2	-	-	IS 1888FV2	IS 1808FV2	IS 1828FV2	-	-	-	-
-	IS 1826FV4	-	-	IS 1888FV4	-	IS 1828FV4	-	-	-	-
IS 1806FV5	-	-	-	-	IS 1808FV5	-	-	-	-	-
PF 1810	PF 1812	-	-	PF 1888	PF 1810	PF 1812	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 1806VC2	IS 1826VC2	-	-	IS 1888VC2	IS 1808VC2	IS 1828VC2	-	-	-	-
-	-	-	-	PF 1868	-	-	-	-	-	-
PF 1888	-	-	-	PF 1888	PF 1888	-	-	-	-	-
PF 1810	PF 1810	-	-	-	PF 1810	PF 1810	-	-	-	-
-	PF 1812	-	-	-	-	PF 1812	-	-	-	-
CP 1880	CP 1810	-	-	CP 1860	CP 1880	CP 1810	-	-	-	-
RK 2882	-	-	-	-	RK 2882	-	-	-	-	-
IS 1806VC4	IS 1826VC4	-	-	-	IS 1808VC4	IS 1828VC4	-	-	-	-
PF 1868	-	-	-	-	PF 1868	-	-	-	-	-
-	PF 1888	-	-	-	-	PF 1888	-	-	-	-
PF 1810	-	-	-	-	PF 1810	-	-	-	-	-
-	PF 1812	-	-	-	-	PF 1812	-	-	-	-
CP 1860	CP 1880	-	-	-	CP 1860	CP 1880	-	-	-	-
-	RK 2882	-	-	-	-	RK 2882	-	-	-	-
IS 1806L	IS 1826L	-	IS 1868L	IS 1888L	IS 1808L	IS 1828L	-	-	-	-
IS 1806LV	IS 1826LV	-	IS 1868LV	IS 1888LV	IS 1808LV	IS 1828LV	-	-	-	-
PF 6260	PF 6262	-	PF 6256	PF 6258	PF 6260	PF 6262	-	-	-	-
PF 6350	PF 6352	-	PF 6346	PF 6348	PF 6350	PF 6352	-	-	-	-
PF 1810	PF 1812	-	PF 1868	PF 1888	PF 1810	PF 1812	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	IS 1868PM	IS 1888PM	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 1806MF2	-	-	-	IS 1888MF2	IS 1808MF2	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 1806MF4	IS 1826MF4	-	-	-	IS 1808MF4	IS 1828MF4	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
RP 1810	RP 1812	-	RP 1860	RP 1880	RP 1810	RP 1812	RP 1860	RP 1880	RP 1810	RP 1812
PL 1860	PL 1860	PL 1880	PL 1880	PL 1880	PL 1880	PL 1880	PL 1810	PL 1810	PL 1810	PL 1810
ZA 1060	ZA 1260	ZA 1480	ZA 1680	ZA 1880	ZA 1080	ZA 1280	ZA 1610	ZA 1810	ZA 1010	ZA 1210
ZA 2060	ZA 2260	ZA 2480	ZA 2680	ZA 2880	ZA 2080	ZA 2280	ZA 2610	ZA 2810	ZA 2010	ZA 2210

Selection and ordering criteria

IS Cabinets, height 2000 mm (without plinth)

	Height (mm)	2000	2000	2000	2000	2000	2000	2000	2000
	Width (mm)	400	600	800	1000	1200(1)	400	600	800
	Depth (mm)	450	450	450	450	450	600	600	600
	Cabinet with blind door	IS 2044	IS 2064	IS 2084	IS 2004	IS 2024	IS 2046	IS 2066	IS 2086
	Single inner plate (2)	PF 2040	PF 2068	PF 2088	PF 2010	PF 2012	PF 2040	PF 2068	PF 2088
	Inner counterdoor	-	CP 2060	CP 2080	CP 2010	CP 2012	-	CP 2060	CP 2080
	Cabinet with front glazed door	-	IS 2064V	IS 2084V	IS 2004V	IS 2024V	-	IS 2066V	IS 2086V
	Single inner plate (2)	-	PF 2068	PF 2088	PF 2010	PF 2012	-	PF 2068	PF 2088
	Inner counterdoor	-	CP 2060	CP 2080	CP 2010	CP 2012	-	CP 2060	CP 2080
	19" Rack swing frame (38HE)	-	-	RK 2883	-	-	-	-	RK 2883
	Cabinet with double blind door (top and bottom)	Height 200	IS 2064FO2	IS 2084FO2	IS 2004FO2	-	-	IS 2066FO2	IS 2086FO2
		Height 400	IS 2064FO4	IS 2084FO4	IS 2004FO4	IS 2024FO4	-	IS 2066FO4	IS 2086FO4
	Single inner plate (2)	-	PF 2068	PF 2088	PF 2010	PF 2012	-	PF 2068	PF 2088
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet with double blind door width 200 mm	Width 200	-	IS 2084FV2	IS 2004FV2	IS 2024FV2	-	-	IS 2086FV2
		Width 400	-	IS 2084FV4	-	IS 2024FV4	-	-	IS 2086FV4
		Width 500	-	-	IS 2004FV5	-	-	-	-
	Single inner plate (2)	-	-	PF 2088	PF 2010	PF 2012	-	-	PF 2088
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet with front glazed door and left cableway	Width 200	-	IS 2084VC2	IS 2004VC2	IS 2024VC2	-	-	IS 2086VC2
		Width 600	-	PF 2068	-	-	-	-	PF 2068
	Single inner plate (2)	Width 800	-	PF 2088	PF 2088	-	-	-	PF 2088
		Width 1000	-	-	PF 2010	PF 2010	-	-	-
		Width 1200	-	-	-	PF 2012	-	-	-
	Inner counterdoor	-	-	CP 2060	CP 2080	CP 2010	-	-	CP 2060
	19" Rack swing frame (38HE)	-	-	-	RK 2883	-	-	-	
	Cabinet with front glazed door, left cableway and back panel	Width 400	-	-	IS 2004VC4	IS 2024VC4	-	-	-
		Width 600	-	-	PF 2068	-	-	-	-
	Single inner plate (2)	Width 800	-	-	-	PF 2088	-	-	-
		Width 1000	-	-	PF 2010	-	-	-	-
		Width 1200	-	-	-	PF 2012	-	-	-
	Inner counterdoor	-	-	-	CP 2060	CP 2080	-	-	-
	19" Rack swing frame (38HE)	-	-	-	-	RK 2883	-	-	
	Cabinet with desk switchboard	Blind door	-	IS 2064L	IS 2084L	IS 2004L	IS 2024L	-	IS 2066L
		Top glazed door	-	IS 2064LV	IS 2084LV	IS 2004LV	IS 2024LV	-	IS 2066LV
	Partial inner plate (to be completed with SA 1010 accessories and side crosspieces)	Top 850	-	PF 1067	PF 1087	PF 1010	PF 1012	-	PF 1067
		Bottom 750	-	PF 6346	PF 6348	PF 6350	PF 6352	-	PF 6346
	Single inner plate (2) - only for rear access	-	PF 2068	PF 2088	PF 2010	PF 2012	-	PF 2068	PF 2088
	Without inner counterdoor	-	-	-	-	-	-	-	
	Cabinet for Personal Computer	-	-	-	-	-	-	IS 2066PC	-
	Cabinet for cell configuration without front door (to be completed with cells described on page 1/16)	-	IS 2064PM	IS 2084PM	-	-	-	IS 2066PM	IS 2086PM
	Without inner plate	-	-	-	-	-	-	-	-
	Cabinets for cells with 200 mm cableway (to be completed with cells described on page 1/16)	-	-	IS 2084MF2	IS 2004MF2	-	-	-	IS 2086MF2
	Without inner plate	-	-	-	-	-	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinets for cells with 400 mm cableway (to be completed with cells described on page 1/16)	-	-	-	IS 2004MF4	IS 2024MF4	-	-	-
	Without inner plate	-	-	-	-	-	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-
Accessories common to all cabinets									
	Replacement of back panel with single door (3)	-	RP 2060	RP 2080	RP 2010	RP 2012	-	RP 2060	RP 2080
	Two side panels	PL 2045	PL 2045	PL 2045	PL 2045	PL 2045	PL 2060	PL 2060	PL 2060
	Plinth H. 100mm, only flanges	ZA 1445	ZA 1645	ZA 1845	ZA 1045	ZA 1245	ZA 1460	ZA 1660	ZA 1860
	Plinth H. 200mm, 6 flanges and 4 angulars	ZA 2445	ZA 2645	ZA 2845	ZA 2045	ZA 2245	ZA 2460	ZA 2660	ZA 2860

(1) 1200 mm wide cabinets have double front door.

(2) Inner plates with different heights can be fixed by means of support brackets (code SA1010) and side crosspieces (see page 1/24). Furthermore, oversized inner plates are available (see page 1/20).

(3) It can be ordered only on purchasing the cabinet (it is not sold individually). To order a possible single door for the rear, select code PR... (see page 1/31).

Selection and ordering criteria

2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
1000	1200(1)	400	600	800	1000	1200(1)	600	800	1000	1200(1)
600	600	800	800	800	800	800	1000	1000	1000	1000
IS 2006	IS 2026	IS 2048	IS 2068	IS 2088	IS 2008	IS 2028	IS 2060	IS 2080	IS 2000	IS 2020
PF 2010	PF 2012	PF 2040	PF 2068	PF 2088	PF 2010	PF 2012	PF 2068	PF 2088	PF 2010	PF 2012
CP 2010	CP 2012	-	CP 2060	CP 2080	CP 2010	CP 2012	CP 2060	CP 2080	CP 2010	CP 2012
IS 2006V	IS 2026V	-	IS 2068V	IS 2088V	IS 2008V	IS 2028V	IS 2060V	IS 2080V	IS 2000V	IS 2020V
PF 2010	PF 2012	-	PF 2068	PF 2088	PF 2010	PF 2012	PF 2068	PF 2088	PF 2010	PF 2012
CP 2010	CP 2012	-	CP 2060	CP 2080	CP 2010	CP 2012	CP 2060	CP 2080	CP 2010	CP 2012
-	-	-	-	RK 2883	-	-	-	RK 2883	-	-
IS 2006FO2	IS 2026FO2	-	IS 2068FO2	IS 2088FO2	IS 2008FO2	IS 2028FO2	-	-	-	-
IS 2006FO4	IS 2026FO4	-	IS 2068FO4	IS 2088FO4	IS 2008FO4	IS 2028FO4	-	-	-	-
PF 2010	PF 2012	-	PF 2068	PF 2088	PF 2010	PF 2012	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 2006FV2	IS 2026FV2	-	-	IS 2088FV2	IS 2008FV2	IS 2028FV2	-	-	-	-
-	IS 2026FV4	-	-	IS 2088FV4	-	IS 2028FV4	-	-	-	-
IS 2006FV5	-	-	-	-	IS 2008FV5	-	-	-	-	-
PF 2010	PF 2012	-	-	PF 2088	PF 2010	PF 2012	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 2006VC2	IS 2026VC2	-	-	IS 2088VC2	IS 2008VC2	IS 2028VC2	-	-	-	-
-	-	-	-	PF 2068	-	-	-	-	-	-
PF 2088	-	-	-	PF 2088	PF 2088	-	-	-	-	-
PF 2010	PF 2010	-	-	-	PF 2010	PF 2010	-	-	-	-
-	PF 2012	-	-	-	-	PF 2012	-	-	-	-
CP 2080	CP 2010	-	-	CP 2060	CP 2080	CP 2010	-	-	-	-
RK 2883	-	-	-	-	RK 2883	-	-	-	-	-
IS 2006VC4	IS 2026VC4	-	-	-	IS 2008VC4	IS 2028VC4	-	-	-	-
PF 2068	-	-	-	-	PF 2068	-	-	-	-	-
-	PF 2088	-	-	-	-	PF 2088	-	-	-	-
PF 2010	-	-	-	-	PF 2010	-	-	-	-	-
-	PF 2012	-	-	-	-	PF 2012	-	-	-	-
CP 2060	CP 2080	-	-	-	CP 2060	CP 2080	-	-	-	-
-	RK 2883	-	-	-	-	RK 2883	-	-	-	-
IS 2006L	IS 2026L	-	IS 2068L	IS 2088L	IS 2008L	IS 2028L	-	-	-	-
IS 2006LV	IS 2026LV	-	IS 2068LV	IS 2088LV	IS 2008LV	IS 2028LV	-	-	-	-
PF 1010	PF 1012	-	PF 1067	PF 1087	PF 1010	-	-	-	PF 1012	-
PF 6350	PF 6352	-	PF 6346	PF 6348	PF 6350	PF 6352	-	-	-	-
PF 2010	PF 2012	-	PF 2068	PF 2088	PF 2010	PF 2012	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	IS 2068PM	IS 2088PM	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 2006MF2	-	-	-	IS 2088MF2	IS 2008MF2	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 2006MF4	IS 2026MF4	-	-	-	IS 2008MF4	IS 2028MF4	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
RP 2010	RP 2012	-	RP 2060	RP 2080	RP 2010	RP 2012	RP 2060	RP 2080	RP 2010	RP 2012
PL 2060	PL 2060	PL 2080	PL 2080	PL 2080	PL 2080	PL 2080	PL 2010	PL 2010	PL 2010	PL 2010
ZA 1060	ZA 1260	ZA 1480	ZA 1680	ZA 1880	ZA 1080	ZA 1280	ZA 1610	ZA 1810	ZA 1010	ZA 1210
ZA 2060	ZA 2260	ZA 2480	ZA 2680	ZA 2880	ZA 2080	ZA 2280	ZA 2610	ZA 2810	ZA 2010	ZA 2210

Selection and ordering criteria

IS Cabinets, height 2200 mm (without plinth)

	Height (mm)	2200	2200	2200	2200	2200	2200	2200	2200
	Width (mm)	400	600	800	1000	1200(1)	400	600	800
	Depth (mm)	450	450	450	450	450	600	600	600
	Cabinet with blind door	IS 2244	IS 2264	IS 2284	IS 2204	IS 2224	IS 2246	IS 2266	IS 2286
	Single inner plate (2)	PF 2240	PF 2260	PF 2280	PF 2210	PF 2212	PF 2240	PF 2260	PF 2280
	Inner counterdoor	-	CP 2260	CP 2280	CP 2210	CP 2212	-	CP 2260	CP 2280
	Cabinet with front glazed door	-	IS 2264V	IS 2284V	IS 2204V	IS 2224V	-	IS 2266V	IS 2286V
	Single inner plate (2)	-	PF 2260	PF 2280	PF 2210	PF 2212	-	PF 2260	PF 2280
	Inner counterdoor	-	CP 2260	CP 2280	CP 2210	CP 2212	-	CP 2260	CP 2280
	19" Rack swing frame (42HE)	-	-	RK 2884	-	-	-	-	RK 2884
	Cabinet with double blind door (top and bottom)	Height 200 Height 400	IS 2264FO2 IS 2264FO4	IS 2284FO2 IS 2284FO4	IS 2204FO2 IS 2204FO4	IS 2224FO4	-	IS 2266FO2 IS 2266FO4	IS 2286FO2 IS 2286FO4
	Single inner plate (2)	-	PF 2260	PF 2280	PF 2210	PF 2212	-	PF 2260	PF 2280
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet with double blind door width 200 mm	Width 200 Width 400 Width 500	- - -	IS 2284FV2 IS 2284FV4	IS 2204FV2	IS 2224FV2 IS 2224FV4	- -	- -	IS 2286FV2 IS 2286FV4
	Single inner plate (2)	-	-	PF 2280	PF 2210	PF 2212	-	-	PF 2280
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet with front glazed door and left cableway	Width 200 Width 600 Width 800 Width 1000 Width 1200	- - - - -	IS 2284VC2	IS 2204VC2	IS 2224VC2	- - - - -	- - - - -	IS 2286VC2
	Single inner plate (2)	-	-	PF 2260 PF 2280	PF 2280	PF 2210	- - - -	- - - -	PF 2260 PF 2280
	Inner counterdoor	-	-	CP 2260	CP 2280	CP 2210	-	-	CP 2260
	19" Rack swing frame (42HE)	-	-	-	-	RK 2884	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet with front glazed door, left cableway and back panel	Width 400 Width 600 Width 800 Width 1000 Width 1200	- - - - -	-	IS 2204VC4	IS 2224VC4	- - - - -	- - - - -	- - - - -
	Single inner plate (2)	-	-	-	PF 2260 PF 2210	PF 2280	- - - -	- - - -	- - - -
	Inner counterdoor	-	-	-	CP 2260	CP 2280	-	-	-
	19" Rack swing frame (42HE)	-	-	-	-	RK 2884	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet with desk switchboard	Blind door Top glazed door	- IS 2264L IS 2264LV	IS 2284L IS 2284LV	IS 2204L IS 2204LV	IS 2224L IS 2224LV	- -	IS 2266L IS 2266LV	IS 2286L IS 2286LV
	Partial inner plate (to be completed with SA 1010 accessories and side crosspieces)	Top 1050 Bottom 750	- PF 1267 PF 6346	PF 1287 PF 6348	PF 1210 PF 6350	PF 1212 PF 6352	- -	PF 1267 PF 6346	PF 1287 PF 6348
	Single inner plate (2) - only for rear access	-	PF 2260	PF 2280	PF 2210	PF 2212	-	PF 2260	PF 2280
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinet for Personal Computer	-	-	-	-	-	-	-	-
	Cabinet for cell configuration without front door (to be completed with cells described on page 1/16)	-	IS 2264PM	IS 2284PM	-	-	-	IS 2266PM	IS 2286PM
	Without inner plate	-	-	-	-	-	-	-	-
	Cabinets for cells with 200 mm cableway (to be completed with cells described on page 1/16)	-	-	IS 2284MF2	IS 2204MF2	-	-	-	IS 2286MF2
	Without inner plate	-	-	-	-	-	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-
	Cabinets for cells with 400 mm cableway (to be completed with cells described on page 1/16)	-	-	-	IS 2204MF4	IS 2224MF4	-	-	-
	Without inner plate	-	-	-	-	-	-	-	-
	Without inner counterdoor	-	-	-	-	-	-	-	-

Accessories common to all cabinets

Replacement of back panel with single door (3)	-	RP 2260	RP 2280	RP 2210	RP 2212	-	RP 2260	RP 2280
Two side panels	PL 2245	PL 2260	PL 2260	PL 2260				
Plinth H. 100mm, only flanges	ZA 1445	ZA 1645	ZA 1845	ZA 1045	ZA 1245	ZA 1460	ZA 1660	ZA 1860
Plinth H. 200mm, 6 flanges and 4 angulars	ZA 2445	ZA 2645	ZA 2845	ZA 2045	ZA 2245	ZA 2460	ZA 2660	ZA 2860

(1) 1200 mm wide cabinets have double front door.

(2) Inner plates with different heights can be fixed by means of support brackets (code SA1010) and side crosspieces (see page 1/24). Furthermore, oversized inner plates are available (see page 1/20).

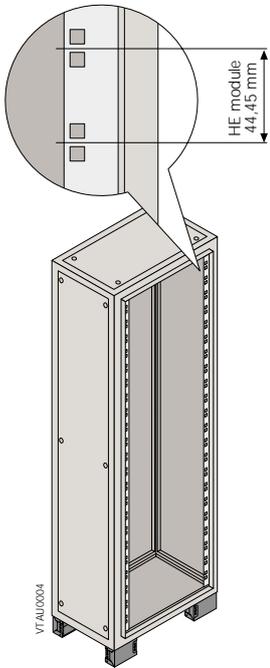
(3) It can be ordered only on purchasing the cabinet (it is not sold individually). To order a possible single door for the rear, select code PR... (see page 1/31).

Selection and ordering criteria

2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
1000	1200(1)	400	600	800	1000	1200(1)	600	800	1000	1200(1)
600	600	800	800	800	800	800	1000	1000	1000	1000
IS 2206	IS 2226	IS 2248	IS 2268	IS 2288	IS 2208	IS 2228	IS 2260	IS 2280	IS 2200	IS 2220
PF 2210	PF 2212	PF 2240	PF 2260	PF 2280	PF 2210	PF 2212	PF 2260	PF 2280	PF 2210	PF 2212
CP 2210	CP 2212	-	CP 2260	CP 2280	CP 2210	CP 2212	CP 2260	CP 2280	CP 2210	CP 2212
IS 2206V	IS 2226V	-	IS 2268V	IS 2288V	IS 2208V	IS 2228V	IS 2260V	IS 2280V	IS 2200V	IS 2220V
PF 2210	PF 2212	-	PF 2260	PF 2280	PF 2210	PF 2212	PF 2260	PF 2280	PF 2210	PF 2212
CP 2210	CP 2212	-	CP 2260	CP 2280	CP 2210	CP 2212	CP 2260	CP 2280	CP 2210	CP 2212
-	-	-	-	RK 2884	-	-	-	RK 2884	-	-
IS 2206FO2	-	-	IS 2268FO2	IS 2288FO2	IS 2208FO2	-	-	-	-	-
IS 2206FO4	IS 2226FO4	-	IS 2268FO4	IS 2288FO4	IS 2208FO4	IS 2228FO4	-	-	-	-
PF 2210	PF 2212	-	PF 2260	PF 2280	PF 2210	PF 2212	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 2206FV2	IS 2226FV2	-	-	IS 2288FV2	IS 2208FV2	IS 2228FV2	-	-	-	-
-	IS 2226FV4	-	-	IS 2288FV4	-	IS 2228FV4	-	-	-	-
IS 2206FV5	-	-	-	-	IS 2208FV5	-	-	-	-	-
PF 2210	PF 2212	-	-	PF 2280	PF 2210	PF 2212	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 2206VC2	IS 2226VC2	-	-	IS 2288VC2	IS 2208VC2	IS 2228VC2	-	-	-	-
-	-	-	-	PF 2260	-	-	-	-	-	-
PF 2280	-	-	-	PF 2280	PF 2280	-	-	-	-	-
PF 2210	PF 2210	-	-	-	PF 2210	PF 2210	-	-	-	-
-	PF 2212	-	-	-	-	PF 2212	-	-	-	-
CP 2280	CP 2210	-	-	CP 2260	CP 2280	CP 2280	-	-	-	-
RK 2884	-	-	-	-	RK 2884	-	-	-	-	-
IS 2206VC4	IS 2226VC4	-	-	-	IS 2208VC4	IS 2228VC4	-	-	-	-
PF 2260	-	-	-	-	PF 2260	-	-	-	-	-
-	PF 2280	-	-	-	-	PF 2280	-	-	-	-
PF 2210	-	-	-	-	PF 2210	-	-	-	-	-
-	PF 2212	-	-	-	-	PF 2212	-	-	-	-
CP 2260	CP 2280	-	-	-	CP 2260	CP 2280	-	-	-	-
-	-	-	-	-	-	RK 2884	-	-	-	-
IS 2206L	IS 2226L	-	IS 2268L	IS 2288L	IS 2208L	IS 2228L	-	-	-	-
IS 2206LV	IS 2226LV	-	IS 2268LV	IS 2288LV	IS 2208LV	IS 2228LV	-	-	-	-
PF 1210	PF 1212	-	PF 1267	PF 1287	PF 1210	PF 1212	-	-	-	-
PF 6350	PF 6352	-	PF 6346	PF 6348	PF 6350	PF 6352	-	-	-	-
PF 2210	PF 2212	-	PF 2260	PF 2280	PF 2210	PF 2212	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	IS 2268PM	IS 2288PM	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 2206MF2	-	-	-	IS 2288MF2	IS 2208MF2	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
IS 2206MF4	IS 2226MF4	-	-	-	IS 2208MF4	IS 2228MF4	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
RP 2210	RP 2212	-	RP 2260	RP 2280	RP 2210	RP 2212	RP 2260	RP 2280	RP 2210	RP 2212
PL 2260	PL 2260	PL 2280	PL 2280	PL 2280	PL 2280	PL 2280	PL 2210	PL 2210	PL 2210	PL 2210
ZA 1060	ZA 1260	ZA 1480	ZA 1680	ZA 1880	ZA 1080	ZA 1280	ZA 1610	ZA 1810	ZA 1010	ZA 1210
ZA 2060	ZA 2260	ZA 2480	ZA 2680	ZA 2880	ZA 2080	ZA 2280	ZA 2610	ZA 2810	ZA 2010	ZA 2210

Construction characteristics

1



19" Rack accessories

For the entire IS cabinet range mounting rails are available which are designed to house 19" Rack panels and accessories for electronic and traditional applications. 19" Rack panels are available in sizes up to 20 HE modules. Panels are built with 3.0 mm gauge aluminium in natural anodised opaque.

For the mounting of 19" Rack panels and accessories, the following solutions are available:

- 19" Rack mounting rails
- 19" Rack swing frames
- 19" Rack frames

19" Rack mounting rails are made with 2.0 mm gauge zinc plated steel plate. They are applied to 600 mm width cabinet structures with proper screws and in all three heights available, up to a maximum of 47 HE vertical modules.

19" Rack swing frames are made with 2.0 mm gauge steel plate, painted in orange peel RAL 7032. They can be hinged on both sides of the cabinets and allow easy access. Swing frames can be assembled on all 800 mm wide and 1800 or 2000 mm high cabinets, up to a maximum of 38 HE vertical modules. 19" Rack swing frames allow rotation of drawers with a maximum depth of 400 mm.

19" Rack panels and accessories can be assembled inside IS cabinet using three different methods: uprights, swing frames and front frames.



19" Rack front frames are made with 2.0 mm gauge steel plate, painted in orange peel RAL 7032. They allow the fastening of Rack 19" panels to cabinets in the "PM" version without front door.

19"Rack upright (2 off)

Version possible only on 600 mm wide IS cabinets

For cabinet	Height units	Code
1800	38 HE	RK 1800
2000	43 HE	RK 2000
2200	47 HE	RK 2200

Swing frames 19"Rack system

Version possible only on 800 mm wide cabinets

For cabinet	Height units	Code
1800	33 HE	RK 2882
2000	38 HE	RK 2883

19"Rack frontal frames in open execution

Version possible only on 600 mm wide cabinets

For cabinet	H	Height units	Code
1800	1794	37 HE	RK 3138
2000	1994	42 HE	RK 3139

19"Rack panels

Distance between holes 465 mm (for 600 mm wide IS cabinets)

Height units	Height H (mm)	Code
1 HE	44,45	HE 1901
2 HE	89,0	HE 1902
3 HE	133,0	HE 1903
4 HE	177,5	HE 1904
5 HE	222,0	HE 1905
6 HE	266,5	HE 1906
7 HE	311,0	HE 1907
8 HE	355,5	HE 1908
9 HE	400,0	HE 1909
10 HE	444,5	HE 1910
11 HE	488,0	HE 1911
12 HE	533,0	HE 1912
13 HE	577,5	HE 1913
14 HE	622,0	HE 1914
15 HE	666,5	HE 1915
16 HE	711,0	HE 1916
17 HE	755,5	HE 1917
18 HE	800,0	HE 1918
19 HE	844,5	HE 1919
20 HE	889,0	HE 1920

Screws for 19"Rack

Description	Code
Screw for fastening of panels on 19" Rack mounting rails (10 pieces)	AA 9000

Handles for 19"Rack

No. 4 handles in chromium plated steel distance between centres 90 mm	AA 5400
No. 4 handles in chromium plated steel distance between centres 111 mm	AA 5410

Construction characteristics

Modular panels (unsuitable for circuit breakers or residual current circuit breakers with depth above 68mm)

IS cabinets which are 600 and 800 mm wide can be equipped with modular panels made of 1.5 mm gauge steel plate. Modular panels are available in the DIN drilled version (for one or two rows of modular instruments), in the blind version and for measuring instruments sized 72X72 mm and 96X96 mm. All panels have a vertical pitch of 200 mm and are available in fixed or hinged versions.

The 600 mm wide DIN drilled panels allow installation of 24 DIN modules (23 in the hinged version) while the 800 mm width ones allow installation of 35 DIN modules (34 in the hinged version).

Mounting rails and dummy panels

For cabinet	Mounting rails for modular panels (2 off)	Dummy panel	
H (mm)		L= 600mm	L= 800mm
1800	MD 1808	MD 3627	MD 3697
2000	MD 2008	MD 3627	MD 3697
2200	MD 2208	MD 3627	MD 3697

Inner zinc plated modular panel

H (mm)	W (mm)	Code	H (mm)	W (mm)	Code
200	600	PF 3393	200	800	PF 3472
400	600	PF 3397	400	800	PF 3476
600	600	PF 3401	600	800	PF 3483

Kit of 4 H 38 side crosspieces for inner plates

Depth 450mm	Depth 600mm	Depth 800mm	Depth 1000mm
TS 3174	TS 3176	TS 3178	H 70 crosspieces (2 off) see page1/24

Blind panels

H (mm)	W (mm)	Code	Code
		fixed panels	hinged panel
200	600	MD 3620	MD 3660
200	800	MD 3690	MD 3720
400	600	MD 3623	MD 3663
400	800	MD 3693	MD 3723
600	600	MD 3625	MD 3665
600	800	MD 3695	MD 3725

Panels for measuring instruments

H (mm)	W (mm)	Code	Code
		fixed panels	hinged panel
200	600 for instruments 72x72	MD 3621	MD 3661
200	600 for instruments 96x96	MD 3629	—
200	800 for instruments 72x72	MD 3691	MD 3721
200	800 for instruments 96x96	MD 3699	MD 3729

Fixed panels for modular equipment

H (mm)	W (mm)	No. of DIN modules	Code
200	600	24	MD 3622
200	800	35	MD 3692
400	600	48	MD 3624
400	800	70	MD 3694

The installation of modular panels in IS cabinets requires the use of special mounting rails for modular panels that are screwed on to the cabinet structure. Each IS cabinet requires a dummy panel which is the proper width and 100 mm high to be fastened to the bottom (or top) end of the panel board. The space available for installation of modular panels is always 100 mm less than the nominal size of the cabinet. The DIN rails have to be ordered separately; the kit includes the rail, supports and small fastening parts.

Internal zinc plated modular plates are also available (600 and 800 mm wide and 200, 400, 600 mm high). Modular plates are fastened with a kit of side cross-pieces to be ordered separately according to the depth of the IS cabinet (450, 600 or 800 mm).

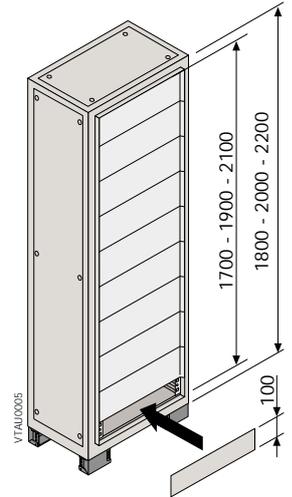
Hinged panels for modular equipment

H (mm)	W (mm)	No. of DIN modules	Code
200	600	23	MD 3662
200	800	34	MD 3722
400	600	46	MD 3664
400	800	68	MD 3724

DIN rail kit

Rail supports and fastening screws included

For cabinet	Code
W (mm)	
600	MD 7346
800	MD 7348



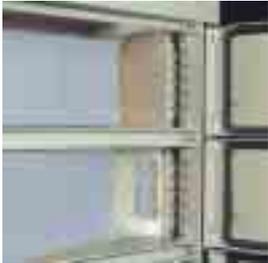
Using the modular panel, the useful space is always 100 mm less than the nominal cabinet height and a dummy panel 100 mm high must always be ordered.



Photos refer to cabinets with already assembled fittings. Mounting plate, plinths covering plate and side panels must be ordered separately.

Separated cell cabinets

1



Detail of segregated cell of the IS cabinet.

VTAP0017

PM and MF versions (separated cell cabinets)

The IS cabinets in PM and MF versions (with 200 mm or 400 mm cableway width) are used for cell or compartment executions. The cells or compartments are available in heights which are multiples of 200 mm up to a maximum of 1000 mm and include a horizontal shelf, the 2.0 mm gauge zinc plated mounting plate and the front door. The side panels are supplied already assembled on the cabinet. Each cell permits compartments with a maximum depth of 300 mm.

The useful height needed to calculate the type and number of cells that can be inserted is the same height as the structure (1800, 2000 or 2200 mm).

The following additional information must be supplied when ordering IS Cabinets in PM and MF versions:

- cableway location (right or left)
- door opening (right or left)
- cell arrangement (front board)



VTAP0018

Complete cells

Including door, plate, front crosspieces, shelves and screws

Door size		Depth	Code
H (mm)	W (mm)	(mm)	
200	600	300	SA 3263
400	600	300	SA 3463
600	600	300	SA 3663
800	600	300	SA 3863
1000	600	300	SA 3063
200	800	300	SA 3283
400	800	300	SA 3483
600	800	300	SA 3683
800	800	300	SA 3883
1000	800	300	SA 3083

Separate components (as spare parts)

They are already included in the complete cells, but can be ordered separately for configurations which are made up of partial doors and inner plates. Inner plates must be fastened on to the H38 side crosspieces (see page 1/15).

Door size		Front doors	Front crosspieces	Inner plate
H (mm)	W (mm)			
200	600	PR 2068	TS 3436	PF 3393
400	600	PR 4060	TS 3436	PF 3397
600	600	PR 6060	TS 3436	PF 3401
800	600	PR 8068	TS 3436	PF 3408
1000	600	PR 1068	TS 3436	PF 3426
200	800	PR 2088	TS 3438	PF 3472
400	800	PR 4080	TS 3438	PF 3476
600	800	PR 6080	TS 3438	PF 3483
800	800	PR 8080	TS 3438	PF 3487
1000	800	PR 1088	TS 3438	PF 3559



Technical characteristics

1



Main frame made with the seven fold section, automatically welded by a robot.



Hinged front door, made with 2.0 mm gauge steel plate, with polyurethane gasket and completed with tubular frame to allow easy assembling of cable way.



Back panel made with 1.5 mm gauge steel plate fastened to the structure by 8 screws with polyurethane gasket.



Central desk switchboard in versions L and LV (with transparent door). The switchboard is removable with the panel on the inclined surface hinged on the top side.



Two piece floor closing plate, painted 2.0 mm gauge steel plate, removable with screws.



All IS cabinets are supplied with pallettable base plinths, consisting in four angulars which are already secured to the structure base. The cabinet can be moved without using pallets. Angulars and flanges are painted in orange peel RAL 9005 black.

Technical characteristics



Kit for continuous placement of IS cabinets maintaining the IP55 protection rate.

VTAU9026



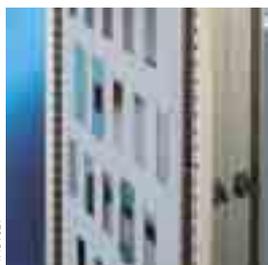
A wide range of horizontal and vertical dividers.

VTAU9027



Front insertion of the zinc plated plate is made easier by outfitted accessories that include two sliding supports at the bottom of the cabinet.

VTAU9028



Connector holder in zinc plated steel plate, available in drilled and blind versions.

VTAU9029



The side insertion of all cabled plates is simplified by using the special track.

VTAU9030



Standard handle (cod. AA 6000) with closing rods in 4 points. Made with opaque black zamak.

VTAU9031

1

Oversized inner plates

Inner plates with oversized widths can be used instead of standard inner plates when more space is required for cables. They are made in 25/10 mm gauge zinc plated steel plate and can be inserted only laterally by means of the special tracks code SA... (see page 1/21).



Description	Cabinet size (HxL)	Plate size (L)	Code
Oversized zinc plated plate	1800x400	400	PF 1841
Oversized zinc plated plate	1800x600	600	PF 1869
Oversized zinc plated plate	1800x800	800	PF 1889
Oversized zinc plated plate	1800x1000	1000	PF 1819
Oversized zinc plated plate	1800x1200	1200	PF 1813
Oversized zinc plated plate	2000x400	400	PF 2041
Oversized zinc plated plate	2000x600	600	PF 2069
Oversized zinc plated plate	2000x800	800	PF 2089
Oversized zinc plated plate	2000x1000	1000	PF 2019
Oversized zinc plated plate	2000x1200	1200	PF 2013
Oversized zinc plated plate	2200x400	400	PF 2241
Oversized zinc plated plate	2200x600	600	PF 2269
Oversized zinc plated plate	2200x800	800	PF 2289
Oversized zinc plated plate	2200x1000	1000	PF 2219
Oversized zinc plated plate	2200x1200	1200	PF 2213

Reduction plates for connectors

They close the unused slots in the connector plates or reduce the slot size. They are complete with gaskets and mounting small parts.



Description	Code
Blind plates (5 off)	AA 5820
Reduction plates from 24 to 16 poles (5 off)	AA 5830
Reduction plates from 24 to 10 poles (5 off)	AA 5840
Reduction plates from 24 to 6 poles (5 off)	AA 5850

Cabinet joining kit

Allows several cabinets to be connected keeping the IP55 protection rate. It includes supports for mechanical connection and a seal to be inserted between the rails of the joined cabinets.

Note: Before mounting fixed or rotating inner doors, modular panels, 19" Rack uprights (fixed or rotating) on more than one connected cabinet, they must be connected.



Description	Code
Cabinet joining kit	SA 1340

Connector plate

The plates, made with 2.0 mm gauge steel plate, are pre-set with holes for the installation of 24 pole connector holders. They are available in the zinc plated or RAL 2004 smooth painted versions.



For cabinet H (mm)	D (mm)	No. of slots	Zinc plated plate code
1800	450	23	PF 2838
1800	600	45	PF 2839
2000	450	25	PF 3037
2000	600	50	PF 3038
1800	450	blind	PF 2840
1800	600	blind	PF 2841
2000	450	blind	PF 2842
2000	600	blind	PF 2843

Accessories common to whole range

Plate connection kit

When there are of several connected structures it maintains the continuity of the mounting plate. Screws can be fastened only on the cabinet rear.



H (mm)	Code
1800	SA 4180
2000	SA 4200
2200	SA 4220

Tracks for lateral insertion of plates

They are used when several cabinets must be mounted next to each other. They allow easier lateral insertion of wiring plates. Tracks have two outlines, one on the top and one on the bottom, which contain balls. They are made in 25/10 gauge zinc plated steel plate and are available in five different widths.



L (mm)	Code
400	SA 1040
600	SA 1060
800	SA 1080
1000	SA 1013
1200	SA 1012

Plate reinforcement bars

2.0 mm gauge zinc plated bars to be used as reinforcement on the PF mounting plates. Complete with threaded pivots for fastening.

Their use is recommended for cabinets with a width of 1000 mm or more, in this case 2 bars are mounted horizontally. It is also possible to mount vertical reinforcements on the plate (in three available heights).



Description	Code
2 horizontal bars for cabinets W= 1000mm	TS 4100
2 horizontal bars for cabinets W= 1200mm	TS 4120
2 vertical bars for cabinets H= 1800mm	TS 4180
2 vertical bars for cabinets H= 2000mm	TS 4200
2 vertical bars for cabinets H= 2200mm	TS 4220

Plate backing kit

Allows mounting plates to be fastened adjacent to the back panel, maximising the internal space available.



Description	Code
Zinc plated internal plate backing kit	SA 1816

Accessories common to whole range

1

Anti-locking safety device

Used to avoid accidental locking of panel board doors. This device is built in steel plate subjected to passivated galvanising treatment.



Description	Code
Anti-locking device	AA 5510

Door block

When several cabinets are attached, it prevents the opening of one door before opening the adjacent one. It is therefore possible to bind the opening of the doors on a bank of cabinets to the opening of a single door.



Description	Code
Door block	AA 4910

180° opening radius hinges

Made with 2.5 mm gauge steel plate painted RAL 9005, pre-set for mounting on "IS" cabinets. The 180° opening radius is maintained also on bank-mounted cabinets.



Description	Code
Hinges for 180° door opening radius (4 off)	AA 1201
Hinges already assembled (4 off)	AA 1202

Inner rails for door

They allow the fastening of accessories (e.g. cable way) to the inside of blind doors. They are a pair of 1.2 mm gauge rails perforated at a pitch of 25 mm. They are available in three different sizes.



Description	Code
Rails for cabinets (2 off) W= 600mm	TS 4005
Rails for cabinets (2 off) W= 800mm	TS 4006
Rails for cabinets (2 off) W= 1000mm	TS 4007

Note: for width = 1200 mm use two TS 4005

Accessories common to whole range

Inserts

Suitable only for IS Cabinets with zamak handle (code AA 6000)



Description	Code
Triangular iron insert	AA 6120
FIAT type insert	AA 6160
Square insert	AA 6140
Hexagonal insert	AA 6180
Yale type insert	AA 6200

Document pockets

To be fastened to the inside of blind doors. The plastic version can be applied with the supplied adhesive. The metal versions, available in three widths, have to be screwed on to the internal rails of the door. Document pockets are painted in RAL, 2004.



Description	Code
Plastic document pocket	AA 5600
Iron steel document pocket width = 600 mm	AA 5860
Iron steel document pocket width = 800 mm	AA 5880
Iron steel document pocket width = 1000 mm	AA 5900

Keys

Description	Code
Triangular iron key	AA 1560
FIAT type key	AA 1570

Lifting eyebolts

They allow movement of cabled panel boards. They are made of steel plate subjected to a white passivated galvanising treatment.



Description	Code
Steel M12 eyebolts (4 off)	AA 9610

Lifting reinforcement

Lifting reinforcements are used to move several connected cabinets (sold in pairs). They are mounted at the connection point between cabinets and they allow better weight distribution.



Description	Code
Lifting reinforcements (2 off)	SA 1350

Accessories common to whole range

1

Internal crosspieces

A complete series of internal crosspieces, that can be assembled frontally or laterally, they allow the maximum use of the cabinet's internal space for accessories, equipment, cables, terminal boards, etc.

They are made with 2.0 mm gauge steel plate subjected to passivated galvanising treatment.



H.70 crosspieces for lateral mounting (width 20/10)

Cabinet depth (mm)	Description	Code
450	H.70 side crosspieces (2 off)	TS 3450
600	H.70 side crosspieces (2 off)	TS 3600
800	H.70 side crosspieces (2 off)	TS 3800
1000	H.70 side crosspieces (2 off)	TS 1000

H.38 crosspieces for lateral mounting (width 15/10)

Cabinet width (mm)	Description	Code
450	H.38 side crosspieces (4 off)	TS 3174
600	H.38 side crosspieces (4 off)	TS 3176
800	H.38 side crosspieces (4 off)	TS 3178

H.70 crosspieces for frontal mounting (width 20/10)

Cabinet width (mm)	Description	Code
600	H.70 front crosspieces (2 off)	TS 2600
800	H.70 front crosspieces (2 off)	TS 2800
1000	H.70 front crosspieces (2 off)	TS 2100

Transformer crosspieces

Mounted on the bottom of the IS cabinet, they are made of 3.0 mm gauge steel plate.



Description	Code
Crosspieces for cabinets (2 off) D= 450mm	TS 1450
Crosspieces for cabinets (2 off) D= 600mm	TS 1600
Crosspieces for cabinets (2 off) D= 800mm	TS 1800

Cable rails

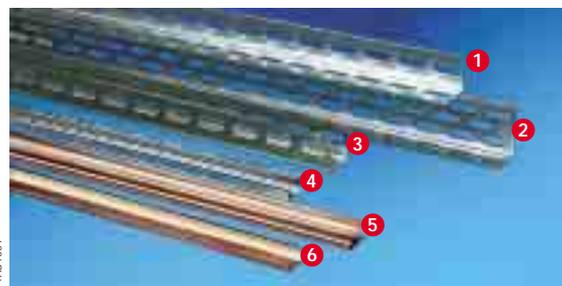
They are mounted following the length of the cabinet, and allow the anchorage of cables and accessories. Made with 3.0 mm gauge slotted steel plate. The section is "L" shaped.



Description	Code
Rails for cabinets (2 off) length = 600 mm	TS 4000
Rails for cabinets (2 off) length = 800 mm	TS 4001
Rails for cabinets (2 off) length = 1000 mm	TS 4002
Rails for cabinets (2 off) length = 1200 mm	TS 4003

Rail for accessories

"L" and "U" shaped slotted sections of 2 metre standard length, 3.0 mm gauge, suitable for the mounting of cable conduit and different equipment. Made of steel plate subjected to passivated galvanising treatment.



Description	Code
① "L" shaped slotted rails 40x40mm (2 off) length 2000mm	TS 4008
② "L" shaped slotted rails 80x40mm (2 off) length 2000mm	TS 4010
③ "U" shaped slotted rails 40x40mm (2 off) length 2000mm	TS 4009
④ EN 50024 C30 rails (2 off) length 2000mm	TS 4011
⑤ EN G32 rails (2 off) length 2000mm	TS 4012
⑥ DIN EN 5022 rails (2 off) length 2000mm	TS 4013

Accessories common to whole range

1

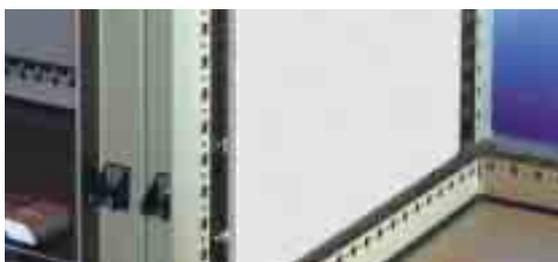
Horizontal dividers

They can be positioned using the drilling pitch of the IS cabinet mounting rails with four M6 screws. They are available in two different versions depending on the presence of the mounting plate in the cabinet. They are made with 1.5 mm gauge zinc plated steel plate. Horizontal dividers cannot be mounted on cabinets with an inner door.



Vertical dividers

They are used to separate internally several attached cabinets or separate the cable way. They are two pieces of 1.5 mm gauge steel plate. They are fastened to the bottom and top part of the structures by 8 M6 screws.



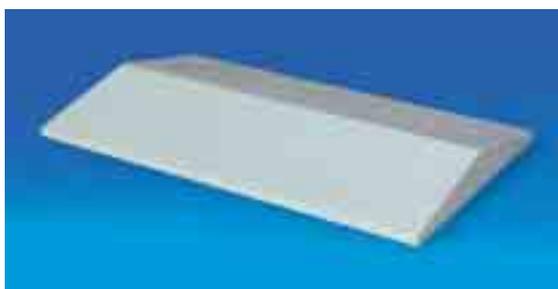
Cabinet size		(1)	
W (mm)	D (mm)	Code for cabinets without inner plate	Code for cabinets with inner plate
600	450	DR 6045	DR 6041
800	450	DR 8045	DR 8041
1000	450	DR 1045	DR 1041
1200	450	DR 1245	DR 1241
600	600	DR 6060	DR 6061
600	600	DR 3103	sliding shelf
800	600	DR 8060	DR 8061
1000	600	DR 1060	DR 1061
1200	600	DR 1260	DR 1261
600	800	DR 6080	DR 6081
800	800	DR 8080	DR 8081
1000	800	DR 1080	DR 1081
1200	800	DR 1280	DR 1281

Cabinet size		Code
H (mm)	D (mm)	
1800	450	DR 1845
1800	600	DR 1860
1800	800	DR 1880
2000	450	DR 2045
2000	600	DR 2060
2000	800	DR 2080
2200	450	DR 2245
2200	600	DR 2260
2200	800	DR 2280

(1) To be used together with TS... side crosspieces according to cabinet depth (see page 1/24).

Protection top

To improve protection against liquid and sprays of water. Made of 1.5 mm steel plate painted in orange peel RAL 7032.



Grounding cables

They are used for ground connection. Tinned copper cables in different lengths and sections are available, complete with cable terminal for M6 screws.



No. of cables	Section (mm ²)	H (mm)	W (mm)	Ø (mm)	Code
5	16	17	200	7	AA 6840
5	16	17	300	7	AA 6850
5	25	22	200	9	AA 6880
5	25	22	300	9	AA 6890

Cabinet size		Code
W (mm)	D (mm)	
600	450	TP 2821
800	450	TP 2829
1000	450	TP 2835
1200	450	TP 2841
600	600	TP 2822
800	600	TP 2830
1000	600	TP 2836
1200	600	TP 2842
600	800	TP 2823
800	800	TP 2831
1000	800	TP 2837
1200	800	TP 2843

Accessories common to whole range

1

Positioning circuit breakers

Positioning circuit breaker on front door, complete with mounting accessories. Can be mounted on cabinets, without any drilling, using the holes in the cabinet frame.



Description	Code
Positioning circuit breaker with mounting accessories	AA 7100

Spray paint

For touching-up.



Description	Code
Spray paint orange	RAL 2004
Spray paint gentian blue	RAL 5010
Spray paint green	RAL 6011
Spray paint black	RAL 9005
Spray paint grey	RAL 7032

Fluorescent lamps

Fluorescent lamps for internal illumination of the cabinets. They are supplied with brackets and screws for easy assembling using the holes in the cabinet's frame. They are made with steel plate case painted RAL 9010, with metacrylic diffuser. Internal starter and switch.



Description	Code
Fluorescent lamp 15 W-230V length 485mm	AA 7015
Fluorescent lamp 18 W-230V length 637mm	AA 7018
Fluorescent lamp 30 W-230V length 942mm	AA 7030

Supports for terminal board rail

Supports for terminal board rails made of plate subjected to passivated galvanising treatment.



Description	Code
Supports for terminal board rails (10 off)	AA 5300

Accessories common to whole range

Wiring ducts

Wiring ducts with vertical slots

The range of wiring ducts with vertical slots covers 28 different combinations of bases size 15-25-40-60-80-100-120-150 mm and heights size 17-30-40-60-80-100 mm.

All of them have slots size 8/12 mm and 4/6 mm. For all bases ranging from 25 to 150 mm a snap on base for DIN rail and bottom plate is available.

Wiring ducts with ribs are made in thermoplastic self-extinguishing material which complies with UL94V0 standards, it resists to abnormal heat and fire up to 960 °C (incandescent wire test) according to IEC 695-2-1 standards. Dimensional stability is guaranteed at a temperature from - 20 °C to + 60 °C. The duct standard length is 2 m. Ducts are painted in RAL 7030 grey. They are produced in compliance with IMQ specifications, are approved according to UL, CSA, and bear RINA certification.



FLCC0903

Ducts with 8-12mm slots

Dimensions BxH (mm) - Colour	Metres per package	Code
15x17 - Grey RAL7030	92	05 019
25x30 - Grey RAL7030	116	05 033
40x30 - Grey RAL7030	80	05 035
60x30 - Grey RAL7030	52	05 037
25x40 - Grey RAL7030	96	05 043
40x40 - Grey RAL7030	60	05 045
60x40 - Grey RAL7030	40	05 047
80x40 - Grey RAL7030	32	05 049
100x40 - Grey RAL7030	24	05 051
120x40 - Grey RAL7030	20	05 053
25x60 - Grey RAL7030	68	05 063
40x60 - Grey RAL7030	44	05 065
60x60 - Grey RAL7030	32	05 067
80x60 - Grey RAL7030	24	05 069
100x60 - Grey RAL7030	20	05 071
120x60 - Grey RAL7030	14	05 073
25x80 - Grey RAL7030	56	05 083
40x80 - Grey RAL7030	36	05 085
60x80 - Grey RAL7030	24	05 087
80x80 - Grey RAL7030	16	05 089
100x80 - Grey RAL7030	16	05 091
120x80 - Grey RAL7030	12	05 093
25x100 - Grey RAL7030	40	05 094
40x100 - Grey RAL7030	28	05 095
60x100 - Grey RAL7030	20	05 096
80x100 - Grey RAL7030	14	05 097
100x100 - Grey RAL7030	8	05 098
150x100 - Grey RAL7030	8	05 099

Ducts with 4-6mm slots

15x17 - Grey RAL7030	92	05 119
25x30 - Grey RAL7030	116	05 133
40x30 - Grey RAL7030	80	05 135
60x30 - Grey RAL7030	52	05 137
25x40 - Grey RAL7030	96	05 143
40x40 - Grey RAL7030	60	05 145
60x40 - Grey RAL7030	40	05 147
80x40 - Grey RAL7030	32	05 149
100x40 - Grey RAL7030	24	05 151
120x40 - Grey RAL7030	20	05 153
25x60 - Grey RAL7030	68	05 163
40x60 - Grey RAL7030	44	05 165
60x60 - Grey RAL7030	32	05 167
80x60 - Grey RAL7030	24	05 169
100x60 - Grey RAL7030	20	05 171
120x60 - Grey RAL7030	14	05 173
25x80 - Grey RAL7030	56	05 183
40x80 - Grey RAL7030	36	05 185
60x80 - Grey RAL7030	24	05 187

Dimensions BxH (mm) - Colour	Metres per package	Code
80x80 - Grey RAL7030	16	05 189
100x80 - Grey RAL7030	16	05 191
120x80 - Grey RAL7030	12	05 193
25x100 - Grey RAL7030	40	05 194
40x100 - Grey RAL7030	28	05 195
60x100 - Grey RAL7030	20	05 196
80x100 - Grey RAL7030	14	05 197
100x100 - Grey RAL7030	8	05 198
150x100 - Grey RAL7030	8	05 199

Accessories for ducts

Description	Pieces per package	Code
Rivet 4 mm diameter	100	05 214
Rivet 6 mm diameter	100	05 216
Wire stop for ducts, 40 mm base	100	05 224
Wire stop for ducts, 60 mm base	100	05 226
Wire stop for ducts, 80 mm base	100	05 228
Wire stop for ducts, 100 mm base	100	05 230
Plastic nameplate	100	05 240
Easy engagement base for ducts, 25 mm base	20	05 250
Easy engagement base for ducts, 40 mm base	20	05 252
Easy engagement base for ducts, 60 mm base	20	05 254
Easy engagement base for ducts, 80 mm base	20	05 256
Easy engagement base for ducts, 100 mm base	20	05 258
Easy engagement base for ducts, 120 mm base	20	05 260
Easy engagement base for ducts, 150 mm base	20	05 262
Shears for ducts	1	05 265
Rivet gun	1	05 266

Flexible wiring ducts

Flexible wiring ducts are characterised by square section and are available in seven different sizes, with each side measuring 12,5-16-20-25-30-40-50 mm. They are made in thermoplastic material which resists to permanent temperature of 80 °C up to an extreme temperature not exceeding 100 °C, as per IEC 216 standards. Their self-extinguishing capacity complies with UL 94V2 standards and their standard length is 500 mm. They are painted in RAL 7040 light grey.

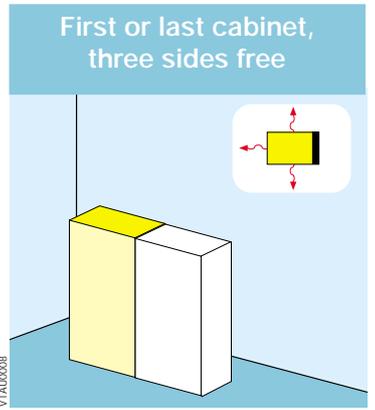
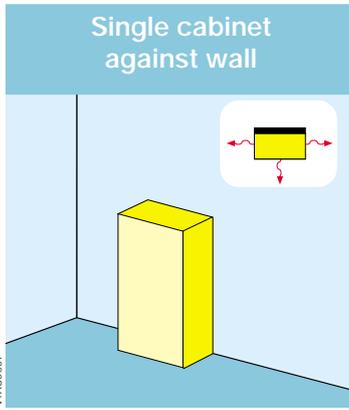
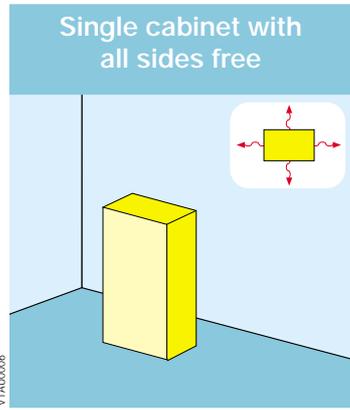
Length 500mm

Dimensions BxH (mm) - Colour	Metres per package	Code
12,5x12,5 - Grey RAL7040	112	05 400
16x16 - Grey RAL7040	84	05 402
20x20 - Grey RAL7040	112	05 405
25x25 - Grey RAL7040	70	05 410
30x30 - Grey RAL7040	50	05 415
40x40 - Grey RAL7040	50	05 420
50x50 - Grey RAL7040	32	05 425

Dissipating power

1

The dissipating power inside the IS cabinet depends on the permitted temperature-rise. (external temperature and over-temperature = 60 °C max)



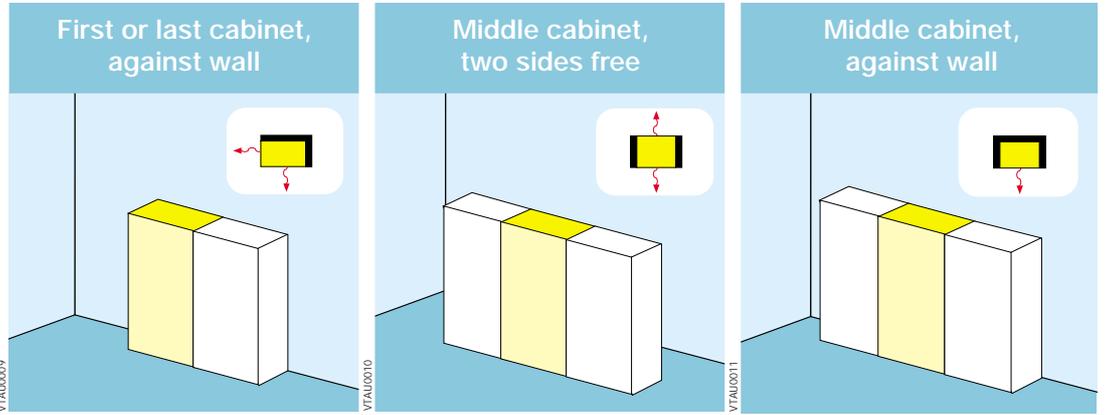
CODE	DIMENSIONS			Maximum dissipating power (Watt)			
	H(mm)	W(mm)	D(mm)	25°C	30°C	35°C	40°C
IS 1864	1800	600	450	281	352	426	503
IS 1866	1800	600	600	325	407	493	582
IS 1868	1800	600	800	399	501	607	716
IS 1860	1800	600	1000	475	597	723	853
IS 1884	1800	800	450	350	439	532	628
IS 1886	1800	800	600	399	501	607	716
IS 1888	1800	800	800	483	606	734	867
IS 1880	1800	800	1000	533	670	812	958
IS 1804	1800	1000	450	394	494	598	706
IS 1806	1800	1000	600	474	595	721	851
IS 1808	1800	1000	800	533	669	810	956
IS 1800	1800	1000	1000	612	767	929	1097
IS 1824	1800	1200	450	486	610	739	872
IS 1826	1800	1200	600	535	671	813	960
IS 1828	1800	1200	800	586	735	890	1051
IS 1820	1800	1200	1000	691	868	1051	1241
IS 2064	2000	600	450	306	384	465	549
IS 2066	2000	600	600	346	435	526	622
IS 2068	2000	600	800	412	517	626	739
IS 2060	2000	600	1000	495	620	750	886
IS 2084	2000	800	450	352	442	535	631
IS 2086	2000	800	600	412	517	626	739
IS 2088	2000	800	800	492	617	747	882
IS 2080	2000	800	1000	545	681	825	969
IS 2004	2000	1000	450	404	507	614	725
IS 2006	2000	1000	600	492	618	748	883
IS 2008	2000	1000	800	541	679	823	972
IS 2000	2000	1000	1000	632	787	950	1120
IS 2024	2000	1200	450	480	602	729	861
IS 2026	2000	1200	600	540	677	820	968
IS 2028	2000	1200	800	591	741	898	1060
IS 2020	2000	1200	1000	711	890	1075	1263
IS 2264	2200	600	450	324	406	492	581
IS 2266	2200	600	600	365	458	555	655
IS 2268	2200	600	800	448	562	681	804
IS 2260	2200	600	1000	511	641	776	916
IS 2284	2200	800	450	371	466	564	666
IS 2286	2200	800	600	448	562	681	804
IS 2288	2200	800	800	522	655	794	937
IS 2280	2200	800	1000	625	785	950	1124
IS 2204	2200	1000	450	441	554	671	792
IS 2206	2200	1000	600	511	641	776	916
IS 2208	2200	1000	800	626	786	952	1124
IS 2200	2200	1000	1000	715	865	1030	1205
IS 2224	2200	1200	450	511	641	776	917
IS 2226	2200	1200	600	611	767	929	1097
IS 2228	2200	1200	800	657	825	999	1179
IS 2220	2200	1200	1000	803	945	1115	1295

Maximum dissipating power (Watt)			
25°C	30°C	35°C	40°C
249	313	379	447
315	395	478	565
372	467	565	667
423	530	640	757
315	395	478	565
366	460	557	657
438	549	665	785
500	625	757	895
360	452	547	646
423	531	643	759
498	624	756	893
565	716	867	1033
413	518	627	740
463	581	704	831
527	661	801	946
635	807	977	1161
287	360	436	514
326	409	496	585
405	508	616	727
434	550	663	784
329	412	499	589
379	475	576	680
449	563	682	806
515	641	767	905
372	467	565	668
441	553	670	791
506	635	769	908
585	736	890	1053
421	529	640	756
499	625	758	894
563	707	856	1011
655	830	1005	1193
286	358	434	512
325	408	495	584
417	523	634	749
455	568	690	815
340	427	517	611
396	497	602	711
475	597	723	853
530	660	800	947
390	489	593	700
450	564	684	807
522	655	794	937
605	756	915	1070
448	562	680	803
501	628	761	899
576	722	875	1033
675	850	1025	1215

Maximum dissipating power (Watt)			
25°C	30°C	35°C	40°C
257	322	391	461
307	385	466	550
359	450	545	644
443	555	674	795
324	407	493	582
376	471	571	674
439	551	667	787
512	642	776	916
385	483	585	690
442	554	672	793
510	640	775	915
569	715	866	1022
441	554	671	792
512	643	779	919
563	706	855	1010
626	788	956	1128
294	369	447	528
337	423	513	605
408	512	620	732
463	585	710	837
351	441	534	630
408	512	620	732
493	619	749	885
518	648	783	923
396	497	602	711
469	588	713	841
521	653	791	934
589	740	896	1052
462	579	702	829
547	687	832	982
606	760	920	1087
646	810	986	1150
289	363	493	518
334	419	507	599
398	499	605	714
503	632	769	908
373	468	567	670
401	503	610	720
482	605	733	866
568	715	865	1020
417	523	634	748
508	637	772	911
571	717	868	1025
605	760	917	1075
490	615	745	880
549	689	835	986
637	799	968	1143
670	830	1004	1180

Dissipating power

The dissipating power inside the IS cabinet depends on the permitted temperature-rise. (external temperature and over-temperature = 60 °C max)



CODE	DIMENSIONS			Maximum dissipating power (Watt)				Maximum dissipating power (Watt)				Maximum dissipating power (Watt)			
	H(mm)	W(mm)	D(mm)	25°C	30°C	35°C	40°C	25°C	30°C	35°C	40°C	25°C	30°C	35°C	40°C
IS 1864	1800	600	450	230	288	349	413	236	297	359	424	207	260	315	372
IS 1866	1800	600	600	289	363	439	518	281	353	427	504	291	365	443	523
IS 1868	1800	600	800	339	426	516	609	327	410	496	586	324	407	493	582
IS 1860	1800	600	1000	402	505	612	723	415	520	629	743	395	495	599	707
IS 1884	1800	800	450	296	372	451	532	302	379	459	542	269	338	409	483
IS 1886	1800	800	600	339	426	516	609	353	443	536	633	328	412	499	589
IS 1888	1800	800	800	413	518	628	741	404	507	614	724	392	491	595	703
IS 1880	1800	800	1000	467	588	715	845	478	598	725	855	450	565	680	800
IS 1804	1800	1000	450	342	429	520	614	371	466	564	666	349	438	530	626
IS 1806	1800	1000	600	402	504	610	721	413	518	627	741	393	493	597	705
IS 1808	1800	1000	800	476	597	723	853	476	597	723	854	448	563	682	805
IS 1800	1800	1000	1000	524	663	803	947	532	663	805	961	500	635	765	901
IS 1824	1800	1200	450	400	502	608	717	423	530	643	759	401	503	609	719
IS 1826	1800	1200	600	471	591	716	845	471	591	716	846	452	566	686	810
IS 1828	1800	1200	800	527	661	801	946	542	680	824	973	516	647	784	925
IS 1820	1800	1200	1000	590	745	900	1045	582	730	890	1070	551	705	840	1005
IS 2064	2000	600	450	247	309	375	442	261	328	397	469	228	286	346	409
IS 2066	2000	600	600	309	387	469	554	302	378	458	541	284	357	432	510
IS 2068	2000	600	800	363	455	551	651	354	444	537	634	343	430	521	615
IS 2060	2000	600	1000	435	546	660	782	430	542	655	755	405	515	625	735
IS 2084	2000	800	450	320	401	486	574	321	403	488	577	301	378	458	540
IS 2086	2000	800	600	363	455	551	651	367	461	558	659	345	433	524	619
IS 2088	2000	800	800	431	541	656	774	410	514	622	735	411	516	625	738
IS 2080	2000	800	1000	475	597	724	855	483	604	741	863	465	581	698	813
IS 2004	2000	1000	450	370	464	562	663	378	474	574	678	357	448	543	641
IS 2006	2000	1000	600	435	546	661	781	433	544	658	777	413	518	627	740
IS 2008	2000	1000	800	481	603	730	862	506	635	769	908	473	594	720	850
IS 2000	2000	1000	1000	550	690	832	981	549	685	830	991	520	655	790	930
IS 2024	2000	1200	450	419	525	636	751	440	552	669	789	411	516	624	737
IS 2026	2000	1200	600	487	611	741	874	513	643	779	920	465	583	707	834
IS 2028	2000	1200	800	542	680	824	973	586	736	891	1052	532	667	808	954
IS 2020	2000	1200	1000	615	770	933	1078	602	755	920	1105	571	730	870	1040
IS 2264	2200	600	450	267	335	406	480	271	339	411	485	247	309	375	442
IS 2266	2200	600	600	306	383	464	548	314	394	477	563	294	369	446	527
IS 2268	2200	600	800	374	469	568	671	360	452	547	646	347	436	528	623
IS 2260	2200	600	1000	445	558	679	801	450	563	682	808	423	531	645	763
IS 2284	2200	800	450	323	406	492	580	338	424	513	606	316	397	481	568
IS 2286	2200	800	600	374	469	568	671	377	473	574	677	358	449	543	642
IS 2288	2200	800	800	450	564	683	807	439	550	666	787	425	533	646	762
IS 2280	2200	800	1000	533	644	779	919	533	670	815	963	489	615	745	879
IS 2204	2200	1000	450	371	466	564	666	393	493	598	706	374	469	568	671
IS 2206	2200	1000	600	443	556	674	795	454	569	690	814	427	536	650	767
IS 2208	2200	1000	800	509	639	774	913	538	675	817	965	493	619	750	885
IS 2200	2200	1000	1000	570	712	850	1003	571	708	855	1020	540	678	813	961
IS 2224	2200	1200	450	440	552	669	789	469	588	712	841	427	535	649	766
IS 2226	2200	1200	600	504	632	765	904	516	647	783	925	497	624	755	892
IS 2228	2200	1200	800	584	733	888	1049	594	745	903	1066	563	706	855	1010
IS 2220	2200	1200	1000	635	791	955	1102	632	780	951	1137	593	754	892	1071

ABB SACE IS Cabinets

Conformity to IEC EN 60439-1 Standards

All the ABB SACE IS cabinets are tested in ABB laboratories for conformity to IEC EN 60439-1 (CEI 17/13-1 3rd edition). The results of the tests guarantee the performance of the cabinets, and allow the final constructor to avoid further tests if ABB SACE products are used.

The following test results can be used for the conformity statement of the electrical board.

TEMPERATURE-RISE LIMIT

(Ref. par. 8.2.1)

The maximum dissipating power depends on the cabinet's internal temperature-rise limit and has to be compared with the sum of the dissipating power of all internal components in the cabinet.

DIELECTRIC PROPERTIES

(Ref. par. 8.2.2)

Nominal working tension:	400 V AC
Nominal insulation tension:	660 V AC
Nominal impulse strength tension:	8 kV

SHORT-CIRCUIT WITHSTAND STRENGTH

(Ref. par. 8.2.3)

Nominal short-circuit current (short-lived):	Phase-Phase	35 kA (1s)
	Phase-Neutral	2kA (1s)
	Phase-Ground	21 kA (1s)
Nominal short-circuit conditioned current (ABB SACE Isomax circuit breaker)		35 kA

DEGREE OF PROTECTION

(Ref. par. 8.2.7)

The ABB SACE IS cabinet, complete with door, side and back panels, are certified to IP55 rating in compliance with the IEC EN 60529 standards (CEI 7-1 Publication IEC 529).

Spare parts

AA1550	Double tongue key	PR2280	Blind door 2200x800mm (hxw)
AA6000	Zamak handle with double tongue	PT1810	Glazed door 1800x1000mm (hxw)
AA6100	Double tongue insert	PT1812	Glazed door 1800x1200mm (hxw) (2 doors l=600mm)
AA7368	Door closing rod (2 off) h=1800mm	PT1860	Glazed door 1800x600mm (hxl)
AA7370	Locking bars for door h=2000mm (2 off)	PT1880	Glazed door 1800x800mm (hxw)
AA7372	Door closing rod (2 off) h=2200mm	PT2010	Glazed door 2000x1000mm (hxw)
DR3103	Sliding horizontal divider 600x600 (WxD)	PT2012	Glazed door 2000x1200mm (hxw) (2 doors l=600mm)
MD2808	DIN rail support	PT2060	Glazed door 2000x600mm (hxw)
MD7306	DIN rail w=600mm	PT2080	Glazed door 2000x800mm (hxw)
MD7308	DIN rail w=800mm	PT2210	Glazed door 2200x1000mm (hxw)
MD7310	DIN rail w=1000mm	PT2212	Glazed door 2200x1200mm (hxw) (2 doors l=600mm)
PP1810	Back panel 1800x1000mm (hxw)	PT2260	Glazed door 2200x600mm (hxw)
PP1812	Back panel 1800x1200mm (hxw)	PT2280	Glazed door 2200x800mm (hxw)
PP1840	Back panel 1800x400mm (hxw)	SA1010	Mounting plated fixing kit
PP1860	Back panel 1800x600mm (hxw)	SA1011	Zinc plated fixing kit
PP1880	Back panel 1800x800mm (hxw)	SA1808	Vertical frame for MF h=1800
PP2010	Back panel 2000x1000mm (hxw)	SA2008	Vertical frame for MF h=2000
PP2012	Back panel 2000x1200mm (hxw)	SA2045	Floor plates 1000x450mm (lxp)
PP2040	Back panel 2000x400mm (hxw)	SA2060	Floor plates 1000x600mm (lxp)
PP2060	Back panel 2000x600mm (hxw)	SA2080	Floor plates 1000x800mm (lxp)
PP2080	Back panel 2000x800mm (hxw)	SA2208	Vertical frame for MF h=2200
PP2210	Back panel 2200x1000mm (hxw)	SA2245	Floor plates 1200x450mm (lxp)
PP2212	Back panel 2200x1200mm (hxw)	SA2260	Floor plates 1200x600mm (lxp)
PP2240	Back panel 2200x400mm (hxw)	SA2280	Floor plates 1200x800mm (lxp)
PP2260	Back panel 2200x600mm (hxw)	SA2645	Floor plates 600x450mm (lxp)
PP2280	Back panel 2200x800mm (hxw)	SA2660	Floor plates 600x600mm (lxp)
PR1800	Blind door with vertical band h=1800mm	SA2680	Floor plates 600x800mm (lxp)
PR1810	Blind door 1800x1000mm (hxw)	SA2845	Floor plates 800x450mm (lxp)
PR1812	Blind door 1800x1200mm (hxw) (2 doors l=600mm)	SA2860	Floor plates 800x600mm (lxp)
PR1840	Blind door 1800x400mm (hxw)	SA2880	Floor plates 800x800mm (lxp)
PR1860	Blind door 1800x600mm (hxw)	ZA3078	Angulars h=100mm (4 off)
PR1880	Blind door 1800x800mm (hxw)		
PR2000	Blind door with vertical band h=2000mm		
PR2010	Blind door 2000x1000mm (hxw)		
PR2012	Blind door 2000x1200mm (hxw) (2 doors l=600mm)		
PR2040	Blind door 2000x400mm (hxw)		
PR2060	Blind door 2000x600mm (hxw)		
PR2080	Blind door 2000x800mm (hxw)		
PR2200	Blind door with vertical band FV h=2200mm		
PR2210	Blind door 2200x1000mm (hxw)		
PR2212	Blind door 2200x1200mm (hxw) (2 doors l=600mm)		
PR2240	Blind door 2200x400mm (hxw)		
PR2260	Blind door 2200x600mm (hxw)		

Index

General characteristics and application	2/2
Selection and ordering criteria	2/4
Construction characteristics	2/6
Technical characteristics	2/8
Accessories common to whole range	2/10
Dissipating power	2/15
Spare parts	2/16

General characteristics and application



UL
UNDERWRITERS
LABORATORIES
INC.®
Melville USA
Certificate N° E 143042 (M)



CSA Canadian Standards
Association, Rexdale Canada
Certificate N° LR 99269

The AM panel board range allows construction of electrical panel boards for automation, command and control. In particular, it covers the intermediate market sector for automation panel boards. It features single-block containers, suitable for the creation of wall type or floor installed electrical panel boards, with the possibility of adjusting the position of the mounting plate and rear access.

In the ABB SACE range of automation cabinets, AM panel boards are in an intermediate position between SR enclosures and IS cabinets and offer a unique set of functional characteristics, combined with easy mounting.

The above-mentioned versatility allows the use of AM panel boards in the widest applicational contexts (in compliance with electrical equipment requirements as specified in CEI EN 60204-1); e.g. use of the panel boards for command and control of industrial plants and machines, for conditioning systems up to applications such as distribution boards for plants, buildings, etc.

Use as distribution boards is made possible by the availability of fixed and hinged modular panels combined to DIN rails that can be depth-adjusted for the installation of various types of instruments.

The whole range of AM Boards is characterised by IP55 protection rate, which is tested and verified in compliance with CEI 70-1 Standards.



The entire line of AM panel boards are tested and certified, by ABB Turati, to IP55 rating in compliance with CEI 70-1 standards.

AM panel boards also meet UL (Underwriters Laboratories) and CSA (Canadian standards association) standards.

In brief, the main technical and functional characteristics of AM panel boards and their components are as follows:

- manufacturing with 1.5 mm gauge steel plate automatically welded by a robot, M6 nuts applied internally for grounding;
- standard blind double front door in all board panels 1200 mm wide and all panel boards 800 and 1000 mm wide (FV4 and FV5 versions)
- IP55 protection rate verified in compliance with CEI 70-1;
- galvanised mounting plate, 2.5 mm gauge and therefore also able to guarantee protection for the parts drilled by the user. The plate is also available in the painted RAL 2004 version and depth may be adjusted at a pitch of 25 mm. In the 1800 and 2000 mm high panel boards, the mounting of the plates is simplified by two sliding supports at the back of the cabinet;
- pallettable base plinths for 1400 and 2000 mm high panel boards consisting of four 100 mm high angular sections already fastened to the bottom of the structure and four closure flanges (to be ordered separately). Therefore, the cabinet can be moved directly without the use of pallets;
- front doors with 100° opening radius (can be extended to 180° with the use of special hinges) made with 2.0 mm gauge steel plate with internal polyurethane gasket. The blind doors have an internal tubular section that improves their stiffness and allows easy assembling of cable ways. In the "V" version the doors have tempered glass (4 mm gauge) glued internally in order to guarantee the IP55 protection rate. The standard opening is from left to right with the possibility of modification (changing the mounting of the hinges and lock anchorage);
- internal die-cast hinges, not visible from the outside. Lock with double tongue insert and locking bar with two or four closing points;
- bottom cable passage with polyurethane gasket.
- back panel assembled with screws, made of 1.5 mm gauge steel plate, it is removable and can be replaced by a door;

General characteristics and application

- inner door in painted 2.0 mm gauge steel plate fastened to a pair of internal mounting rails and set at 64 mm from the outer door;
- modular panels fixed and hinged (with DIN drilling, blind and for measuring instruments) made of 1.5 mm gauge steel plate available for 600 and 800 mm width panel boards;
- mounting rails for fastening 19" Rack panels on 600 mm wide cabinets;
- 19" Rack panels made with 3.0 mm gauge anodised aluminium;
- steel plate painted inner door
- mounting rails for 19" Rack panels
- fixed or hinged panels for modular circuit breakers (in this case, the modular mounting plates, available in heights of 200, 400 and 600 mm, are used instead of the single mounting plate).

For installations that need back access, it is possible to use a door instead of the back panel: the "replacement of back panel with door" code means that the AM board can be ordered with the back door already assembled.

The standard colour is orange peel RAL 7032. On request, AM panel boards can be ordered in a wide range of RAL colours (see page 7/3).

The range of AM board is available in 36 different size

- height from 1000 to 2000 mm
- width from 600 to 1200 mm (*for width over 1200 mm are supplied with a double front door*)
- depth 200 or 300 mm and in two different versions
- with blind door
- with glazed door.

The AM board with 800 or 1000 mm widths are also available with double blind door (model FV4 and FV5).

The range composition, the product code and the tables of page 2/4 and 2/5 allow quick and easy selection of the product and the most suitable components for the required application. Besides the back panel, the code of the panel board structure also includes the blind or glazed front door (in this case the letter "V" appears).

Once the panel board structure with the required size and version is identified, it is possible to select the complementary elements from the bottom part of the chart:

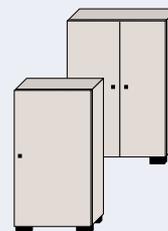
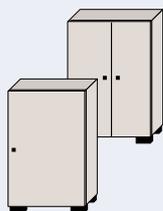
- galvanised mounting plate (available also in the RAL 2004 painted version on page 14);
- floor installed panel board base.

AM boards can be equipped with the following accessories:



Selection and ordering criteria

AM board with blind door



Height (without base)	1000								1200							
H (mm)	1000	1000	1000	1000	1000	1000	1000	1000	1200	1200	1200	1200	1200	1200	1200	1200
W (mm)	600	600	800	800	1000	1000	1200 ⁽¹⁾	1200 ⁽¹⁾	600	600	800	800	1000	1000	1200 ⁽¹⁾	1200 ⁽¹⁾
D (mm)	300	400	300	400	300	400	300	400	300	400	300	400	300	400	300	400
Code	AM 5063	AM 5064	AM 5083	AM 5084	AM 5003	AM 5004	AM 5023	AM 5024	AM 5263	AM 5264	AM 5283	AM 5284	AM 5203	AM 5204	AM 5223	AM 5224
Code for double door			AM 5083FV4	AM 5084FV4	AM 5003FV5	AM 5004FV5					AM 5283FV4	AM 5284FV4	AM 5203FV5	AM 5204FV5		

AM board with glazed door



Height (without base)	1000								1200							
H (mm)	1000	1000	1000	1000	1000	1000	1000	1000	1200	1200	1200	1200	1200	1200	1200	1200
W (mm)	600	600	800	800	1000	1000	1200	1200	600	600	800	800	1000	1000	1200	1200
D (mm)	300	400	300	400	300	400	300	400	300	400	300	400	300	400	300	400
Code	AM 5063V	AM 5064V	AM 5083V	AM 5084V	AM 5003V	AM 5004V	AM 5023V	AM 5024V	AM 5263V	AM 5264V	AM 5283V	AM 5284V	AM 5203V	AM 5204V	AM 5223V	AM 5224V

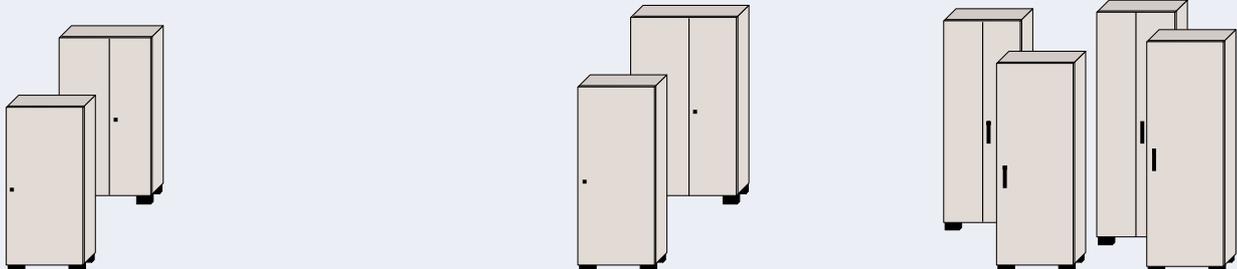
Additional item

Zinc plated mounting plate	PF 1067	PF 1087	PF 1010	PF 1012	PF 1267	PF 1287	PF 1210	PF 1212								
Inner door	CP 1060	CP 1080	CP 1010	CP 1012	CP 1260	CP 1280	CP 1210	CP 1212								
Couple of mounting rail for 19" Rack	RK 1000	-	-	-	RK 1200	-	-	-								
Replacement of back panel with door	RP 1060	RP 1080	RP 1010	RP 1012	RP 1260	RP 1280	RP 1210	RP 1212								
Base h=100mm only flanges	ZA 1630	ZA 1640	ZA 1830	ZA 1840	ZA 1030	ZA 1040	ZA 1230	ZA 1240	ZA 1630	ZA 1640	ZA 1830	ZA 1840	ZA 1030	ZA 1040	ZA 1230	ZA 1240
Base h=200mm 6 flanges + 4 angulars	ZA 2630	ZA 2640	ZA 2830	ZA 2840	ZA 2030	ZA 2040	ZA 2230	ZA 2240	ZA 2630	ZA 2640	ZA 2830	ZA 2840	ZA 2030	ZA 2040	ZA 2230	ZA 2240

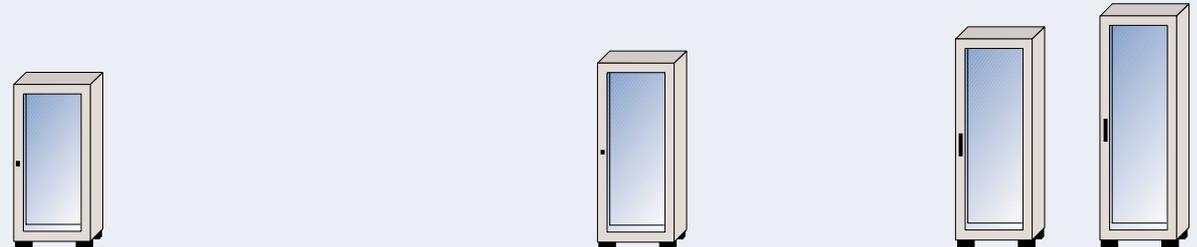
(1) 1200mm wide boards have double front door

Selection and ordering criteria

2



1400								1600								1800		2000	
1400	1400	1400	1400	1400	1400	1400	1400	1600	1600	1600	1600	1600	1600	1600	1600	1800	1800	2000	2000
600	600	800	800	1000	1000	1200 ⁽²⁾	1200 ⁽²⁾	600	600	800	800	1000	1000	1200 ⁽²⁾	1200 ⁽²⁾	600	800	600	800
300	400	300	400	300	400	300	400	300	400	300	400	300	400	300	400	400	400	400	400
AM 5463	AM 5464	AM 5483	AM 5484	AM 5403	AM 5404	AM 5423	AM 5424	AM 5663	AM 5664	AM 5683	AM 5684	AM 5603	AM 5604	AM 5623	AM 5624	AM 5864	AM 5884	AM 5964	AM 5984
		AM 5483FV4	AM 5484FV4	AM 5403FV5	AM 5404FV5					AM 5683FV4	AM 5684FV4	AM 5603FV5	AM 5604FV5				AM 5884FV4		AM 5984FV4



1400								1600								1800		2000	
1400	1400	1400	1400	1400	1400	1400	1400	1600	1600	1600	1600	1600	1600	1600	1600	1800	1800	2000	2000
600	600	800	800	1000	1000	1200	1200	600	600	800	800	1000	1000	1200	1200	600	800	600	800
300	400	300	400	300	400	300	400	300	400	300	400	300	400	300	400	400	400	400	400
AM 5463 V	AM 5464 V	AM 5483 V	AM 5484 V	AM 5403 V	AM 5404 V	AM 5423 V	AM 5424 V	AM 5663 V	AM 5664 V	AM 5683 V	AM 5684 V	AM 5603 V	AM 5604 V	AM 5623 V	AM 5624 V	AM 5864 V	AM 5884 V	AM 5964 V	AM 5984 V

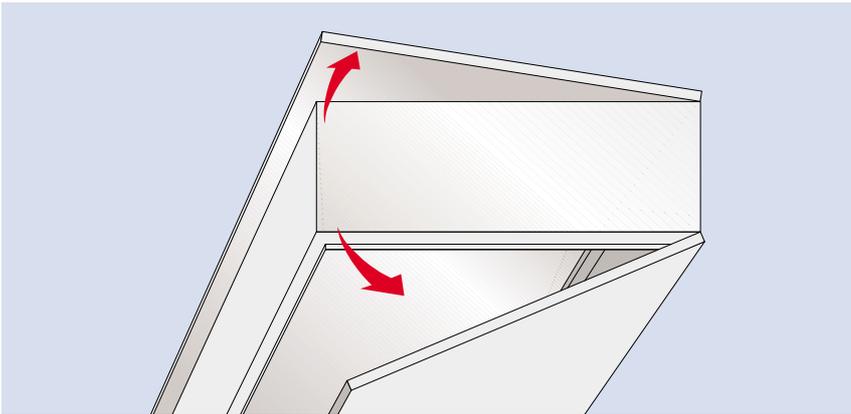
PF 1460	PF 1480	PF 1410	PF 1412	PF 1660	PF 1680	PF 1610	PF 1612	PF 1868	PF 1888	PF 2068	PF 2088
CP 1460	CP 1480	CP 1410	CP 1412	CP 1660	CP 1680	CP 1610	CP 1612	CP 1860	CP 1880	CP 2060	CP 2080
RK 1400	-	-	-	RK 1600	-	-	-	RK 1800	-	RK 2000	-
RP 1460	RP 1480	RP 1410	RP 1412	RP 1660	RP 1680	RP 1610	RP 1612	RP 1860	RP 1880	RP 2060	RP 2080
ZA 1630	ZA 1640	ZA 1830	ZA 1840	ZA 1030	ZA 1040	ZA 1230	ZA 1240	ZA 1640	ZA 1840	ZA 1640	ZA 1840
ZA 2630	ZA 2640	ZA 2830	ZA 2840	ZA 2030	ZA 2040	ZA 2230	ZA 2240	ZA 2640	ZA 2840	ZA 2640	ZA 2840

V7AUG0013

2

Back access

AM panel boards allow back access maintaining the advantages of a monobloc structure (for simplicity, low cost and solidity).



VTAU0014

The back of AM panel boards is a screwed-on panel, it is also possible change the back panel with a door, the "replacement rear with door" code means that the AM board can be ordered with the back door already assembled.

19" Rack accessories

For the entire AM board range mounting rails are available which are designed to house 19" Rack panels and accessories for electronic and traditional applications. They are built in 2.0 mm gauge zinc plated steel. Mounting rails can be assembled on an AM board with a 600 mm width using special screws: they are available for all AM panel board heights up to a maximum of 43 HE vertical modules.

19" Rack panels are available in sizes up to 20 HE modules and are made of 3.0 mm gauge anodised aluminium, the colour is natural opaque.

19" Rack mounting rails (2 off)

Version possible only on 600mm wide AM boards

For panel H (mm)	Units of height	Code
1000	20 HE	RK 1000
1200	25 HE	RK 1200
1400	29 HE	RK 1400
1600	34 HE	RK 1600
1800	38 HE	RK 1800
2000	43 HE	RK 2000

19" Rack panel

Distance between holes 456mm

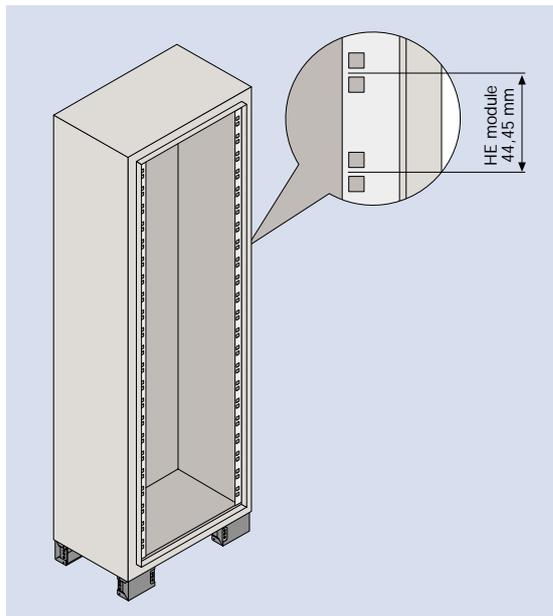
Units of height	H (mm)	Code
1 HE	44,45	HE 1901
2 HE	89,0	HE 1902
3 HE	133,0	HE 1903
4 HE	177,5	HE 1904
5 HE	222,0	HE 1905
6 HE	266,5	HE 1906
7 HE	311,0	HE 1907
8 HE	355,5	HE 1908
9 HE	400,0	HE 1909
10 HE	444,5	HE 1910
11 HE	488,0	HE 1911
12 HE	533,0	HE 1912
13 HE	577,5	HE 1913
14 HE	622,0	HE 1914
15 HE	666,5	HE 1915
16 HE	711,0	HE 1916
17 HE	755,5	HE 1917
18 HE	800,0	HE 1918
19 HE	844,5	HE 1919
20 HE	889,0	HE 1920

Screws for 19" Rack

Description	Code
Screw kits for fastening (10 off) of panel on 19" Rack rails	AA 9000

Handles for 19" Rack

4 handles in chrom. steel distance between centres 90 mm	AA 5400
4 handles in chrom. steel distance between centres 111 mm	AA 5410



VTAU0015

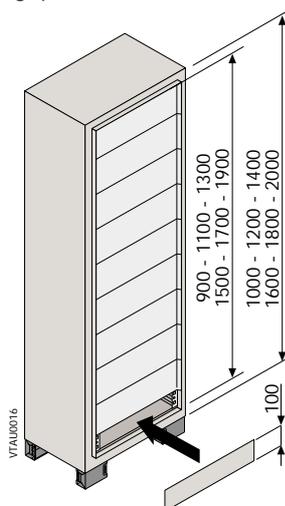
Modular panels (unsuitable for circuit breakers and residual current circuit breakers with depth above 68 mm)

AM boards can be equipped with 600 and 800 mm wide modular panels made of 1.5 mm gauge steel plate. Modular panels are available in the DIN drilled version (for one or two rows of modular instruments), in the blind version and for measuring instruments sized 72X72 mm and 96X96 mm. All panels have 200 mm vertical modularity and are available in the fixed or hinged versions.

The 600 mm wide DIN drilled panels allow installation of 24 DIN modules (23 in the hinged version) while the 800mm wide ones allow installation of 35 DIN modules (34 in the hinged version).

The installation of modular panels in AM panel boards requires the use of special mounting rails for modular panels that are screwed on to the board structure. Each AM cabinet requires a dummy panel which is the proper width and 100 mm high to be fastened to the bottom (or top) end of the panel board. The space available for installation of modular panels is always 100 mm less than the nominal size of the cabinet. The DIN rails have to be ordered separately and the kit includes the rail, supports and small fastening parts.

Internal zinc plated modular plates are also available (600 and 800 mm wide and 200, 400, 600 mm high). Modular plates are fastened with a kit of side crosspieces to be ordered separately according to the depth of the AM board (300 or 400 mm).



Upright and dummy panels

For cabinet	Upright for modular panels (2 off)	Dummy panel	
H (mm)		L= 600mm	L= 800mm
1000	MD 1007	MD 3627	MD 3697
1200	MD 1207	MD 3627	MD 3697
1400	MD 1407	MD 3627	MD 3697
1600	MD 1607	MD 3627	MD 3697
1800	MD 1807	MD 3627	MD 3697
2000	MD 2007	MD 3627	MD 3697

Inner zinc plated modular plates

H (mm)	L (mm)	Code	H (mm)	L (mm)	Code
200	600	PF 3393	200	800	PF 3472
400	600	PF 3397	400	800	PF 3476
600	600	PF 3401	600	800	PF 3483

Kit of 4 H38 side crosspieces for inner plates

Depth 300	Depth 400
TS 7185	TS 7190

Blind panels

H (mm)	W (mm)	Code fixed panels	Code hinged panels
200	600	MD 3620	MD 3660
200	800	MD 3690	MD 3720
400	600	MD 3623	MD 3663
400	800	MD 3693	MD 3723
600	600	MD 3625	MD 3665
600	800	MD 3695	MD 3725

Panels for measuring instruments

H (mm)	W (mm)	Code fixed panels	Code hinged panels
200	600 for instruments 72x72	MD 3621	MD 3661
200	600 for instruments 96x96	MD 3629	—
200	800 for instruments 72x72	MD 3691	MD 3721
200	800 for instruments 96x96	MD 3699	MD 3729

Fixed panels for modular equipment

H (mm)	W (mm)	No. of DIN modules	Code
200	600	24	MD 3622
200	800	35	MD 3692
400	600	48	MD 3624
400	800	70	MD 3694

Hinged panels for modular equipment

H (mm)	W (mm)	No. of DIN modules	Code
200	600	23	MD 3662
200	800	34	MD 3722
400	600	46	MD 3664
400	800	68	MD 3724

DIN rail kit

Rail supports and fastening screws included

For cabinet	Code
W (mm)	
600	MD 7336
800	MD 7338

Technical characteristics

2



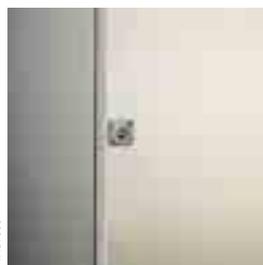
Panel board structure made of 1.5 mm gauge pressure folded steel plate, automatically welded by a robot.



Modular panels, steel plate painted RAL 7032.



Back panel 1.5 mm gauge steel plate, can be replaced with door.



Lock system can be replaced with triangular insert or handle with security key.



19" Rack fixed mounting rails "L", shaped 2.0 mm gauge steel plate for the mounting of 19" Rack panels painted in orange peel RAL 7032.



Cable slot in the bottom part, with plate and seal.

Technical characteristics



20/10mm gauge zinc plated inner plate.



Front insertion of the zinc plated plate is made easier by outfitted accessories that include two sliding supports at the bottom of the cabinet.



Palletable bases consisting of 4 angular sections (already supplied with the structure) and four removable flanges. An additional base can be used with total height of 200 mm.



Anti-locking safety devices
They are used to avoid accidental locking of panel board doors. These devices are built in steel plate subjected to passivated galvanising treatment.



Hinged frontal door, made with 2.0 mm gauge steel plate with polyurethane foam gasket.



Hinges for 180° door opening radial. Painted RAL 9005 and made of 2.5 mm gauge steel plate.

Accessories common to whole range

2

Plate backing kit

Suitable only for boards with 1800 and 2000mm heights.
Allows mounting plates to be fastened adjacent to the back panel.



Description	Code
Inner plate backing kit	MA 1818

Plate reinforcement bars

These 1.2 mm gauge zinc plated bars are to be used as reinforcement on the PF mounting plates. Complete with threaded pivots for fastening.
Their use is recommended for cabinets which are 1000 mm or more wide, in this case 2 rails are mounted horizontally. It is also possible to mount vertical reinforcements on the plate (in the three available heights).



Description	Code
Bars for board (2 off) L=1000mm	TS 4100
Bars for board (2 off) L=1200mm	TS 4120
Bars for board (2 off) H=1800mm	TS 4180
Bars for board (2 off) H=2000mm	TS 4200

Locking

Various types of inserts are available to be assembled on the inside of AM panel board handles.



Description	Code
① Double tongue closure and locking bars (spare)	AA 1510
② Triangular iron closure	AA 1800
③ Closure with "T" handle and Yale lock	AA 1820
④ Closure with "T" handle without lock	AA 1830

Keys

Description	Code
Triangular iron key	AA 1560
FIAT type key	AA 1570

Inserts

Description	Code
Triangular iron key	AA 1690
FIAT type key	AA 1710

Handles

Description	Code
"T" handle with Yale lock	AA 1730
"T" handle without lock	AA 1740

Accessories common to whole range

180° opening radius hinges

Made with 2.5 mm gauge steel plate painted RAL 9005, pre-set for mounting on "IS" cabinets. The 180° opening radius is maintained also on bank-mounted cabinets.

Note: they are supplied already assembled if ordered with the board.



Description	Code
Hinges for 180° door opening radius (4 off)	AA 1201
Hinges already assembled (4 off)	AA 1202

Anti-locking safety devices

They are used to avoid accidental locking of panel board doors. These devices are built in steel plate subjected to passivated galvanising treatment. Two versions are available and one does not require holes for mounting.

Article **AA6510** is not applicable with:

- inner door
- 19" Rack mounting rails and swing frames
- modular panels



Description	Code
Anti-locking device	AA 5510

Inner rails for door

They allow the fastening of accessories (e.g. cable ways) to the inside of blind doors. They are a pair of 1.2 mm gauge rails perforated at a pitch of 25 mm. They are available in three different sizes.



Description	Code
Rails for cabinets (2 off) W = 600mm	TS 4005
Rails for cabinets (2 off) W = 800mm	TS 4006
Rails for cabinets (2 off) W = 1000mm	TS 4007

Note: for W= 1200mm use two TS 4005

Document pockets

To be fastened to the inside of blind doors. The plastic version can be applied with the supplied adhesive. The metal versions, available in three widths, have to be screwed on to the internal rails of the door. Document pockets are painted in RAL 2004.



Description	Code
Plastic document pocket	AA 5600
Steel document pocket width = 600 mm	AA 5860
Steel document pocket width = 800 mm	AA 5880
Steel document pocket width = 1000 mm	AA 5900

Accessories common to whole range

2

Wall mounting bracket

They are made of 3.5 mm gauge steel plate, subjected to a yellow passivated galvanising treatment.



Description	Code
Wall mounting brackets (4 off)	AA 1207

Lifting eyebolts

They allow movement of cabled panel boards. They are made of steel plate subjected to a white passivated galvanising treatment.



Description	Code
Steel M12 eyebolts (4 off)	AA 9600

Grounding cables

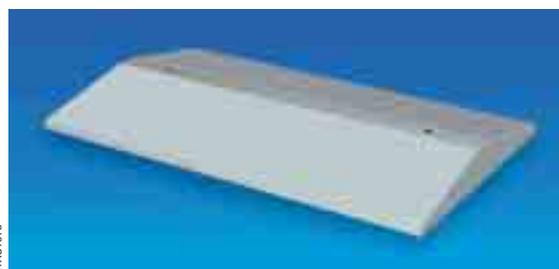
For the ground connection. Tinned copper cables in different lengths and sections are available, complete with cable terminal for M6 screws.



No.of cables	Section (mm ²)	H(mm)	L (mm)	Ø (mm)	Code
5	16	17	200	7	AA 6840
5	16	17	300	7	AA 6850
5	25	22	200	9	AA 6880
5	25	22	300	9	AA 6890

Protection top

To improve protection against liquid and sprays of water. Made of 1.5 mm steel plate painted in orange peel RAL 7032.

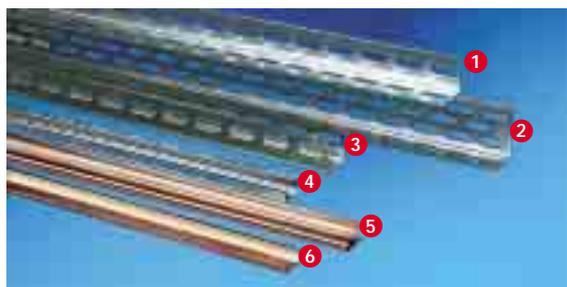


cabinet size		Code
W (mm)	D (mm)	
600	300	TP 7079
800	300	TP 7099
1000	300	TP 7019
1200	300	TP 7039
600	400	TP 7080
800	400	TP 7100
1000	400	TP 7020
1200	400	TP 7041

Accessories common to whole range

Rail for accessories

"L" and "U" shaped slotted sections of 2 metre standard length, 3.0 mm gauge, suitable for the mounting of cable conduit and different equipment. Made of steel plate subjected to passivated galvanising treatment.



Description	Code
1 "L" shaped slotted rails 40x40mm (2 off) length 2000mm	TS 4008
2 "L" shaped slotted rails 80x40mm (2 off) length 2000mm	TS 4010
3 "U" shaped slotted rails 40x40mm (2 off) length 2000mm	TS 4009
4 EN 50024 C30 rails (2 off) length 2000mm	TS 4011 
5 EN G32 rails (2 off) length 2000mm	TS 4012 
6 DIN EN 5022 rails (2 off) length 2000mm	TS 4013 

Transformer crosspieces

Mounted on the bottom of the IS cabinet, they are made of 3.0 mm gauge steel plate.



Description	Code
Crosspieces for boards D = 300 mm (2 off)	TS 7383
Crosspieces for boards D = 400 mm (2 off)	TS 7384

Fluorescent lamps

Fluorescent lamps for internal illumination of the cabinets. They are supplied with brackets and screws for easy assembling using the holes in the cabinet frame. They are made with steel plate case painted RAL 9010, with metacrylic diffuser. Internal starter and switch.



Description	Code
Fluorescent lamp 15 W-230V length 485mm	AA 7015
Fluorescent lamp 18 W-230V length 637mm	AA 7018
Fluorescent lamp 30 W-230V length 942mm	AA 7030

Positioning circuit breakers

Positioning circuit breaker on front door, complete with mounting accessories. Can be mounted on cabinets, without any drilling, using the holes in the cabinet frame.



Description	Code
Positioning circuit breaker with mounting accessories	AA 7100

Accessories common to whole range

Supports for terminal board rails

Supports for terminal board rails made of plate subjected to galvanising treatment.



Description	Code
Supports for terminal board rails (10 off)	AA 5300

Spray paint

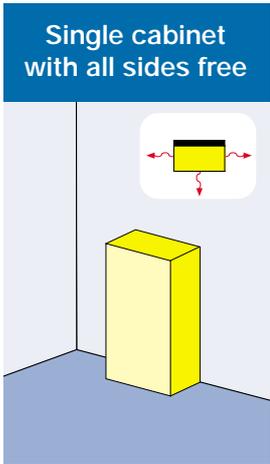
For touching-up



Description		Code
Spray paint orange	RAL 2004	VB 2004
Spray paint azure	RAL 5010	VB 5010
Spray paint green	RAL 6011	VB 6011
Spray paint black	RAL 9005	VB 9005
Spray paint grey	RAL 7032	VB 7032

Dissipating power

The dissipating power inside the AM boards depends on the permitted temperature-rise. (External temperature and over-temperature = 60 °C max).



CODE	DIMENSIONS			Maximum dissipating power (Watt)			
	H (mm)	W (mm)	D (mm)	25°C	30°C	35°C	40°C
AM 5063	1000	600	300	110	137	166	197
AM 5083	1000	800	300	146	184	222	263
AM 5003	1000	1000	300	190	238	289	341
AM 5023	1000	1200	300	235	295	358	422
AM 5064	1000	600	400	137	171	208	245
AM 5084	1000	800	400	179	224	272	321
AM 5004	1000	1000	400	237	297	360	425
AM 5024	1000	1200	400	285	358	434	512
AM 5263	1200	600	300	130	163	197	233
AM 5283	1200	800	300	176	221	268	317
AM 5203	1200	1000	300	221	278	336	397
AM 5223	1200	1200	300	281	352	427	504
AM 5264	1200	600	400	164	205	249	294
AM 5284	1200	800	400	223	280	339	400
AM 5204	1200	1000	400	272	341	413	488
AM 5224	1200	1200	400	327	411	497	587
AM 5463	1400	600	300	148	186	225	266
AM 5483	1400	800	300	195	245	297	350

CODE	DIMENSIONS			Maximum dissipating power (Watt)			
	H (mm)	W (mm)	D (mm)	25°C	30°C	35°C	40°C
AM 5403	1400	1000	300	257	323	391	461
AM 5423	1400	1200	300	312	392	475	560
AM 5464	1400	600	400	178	224	271	320
AM 5484	1400	800	400	249	313	379	447
AM 5404	1400	1000	400	303	380	460	543
AM 5424	1400	1200	400	354	444	538	635
AM 5663	1600	600	300	161	202	245	289
AM 5683	1600	800	300	222	278	337	398
AM 5603	1600	1000	300	277	347	420	496
AM 5623	1600	1200	300	327	410	497	587
AM 5664	1600	600	400	170	213	258	304
AM 5684	1600	800	400	271	339	411	485
AM 5604	1600	1000	400	319	400	485	572
AM 5624	1600	1200	400	374	469	569	671
AM 5864	1800	600	400	232	291	353	416
AM 5884	1800	800	400	293	368	446	526
AM 5964	2000	600	400	260	327	396	467
AM 5984	2000	800	400	305	383	463	547

AA 1510	Double tongue closure and locking bar	PR 1412	Blind door 1400 x 1200 mm (H x W)
AA 1550	Double tongue key	PR 1460	Blind door 1400 x 600 mm (H x W)
AA 1670	Double tongue insert	PR 1480	Blind door 1400 x 800 mm (H x W)
AA 7360	Locking bars for door H = 1000 mm (2 off)	PR 1610	Blind door 1600 x 1000 mm (H x W)
AA 7362	Locking bars for door H = 1200 mm (2 off)	PR 1612	Blind door 1600 x 1200 mm (H x W) (2 doors, 600mm wide)
AA 7364	Locking bars for door H = 1400 mm (2 off)	PR 1660	Blind door 1600 x 600 mm (H x W)
AA 7366	Locking bars for door H = 1600 mm (2 off)	PR 1680	Blind door 1600 x 800 mm (H x W)
AA 7368	Locking bars for door H = 1800 mm (2 off)	PR 1860	Blind door 1800 x 600 mm (H x W)
AA 7370	DIN rail W = 2000 mm (2 off)	PR 1880	Blind door 1800 x 800 mm (H x W)
MA 2095	Painted plate support	PR 2060	Blind door 2000 x 600 mm (H x W)
MA 2096	Zinc plated plate support	PR 2080	Blind door 2000 x 800 mm (H x W)
MD 7306	DIN rail W = 600 mm (2 off)	PT 1010	Glazed door 1000 x 1000 mm (H x W)
MD 7308	DIN rail W = 800 mm (2 off)	PT 1012	Glazed door 1000 x 1200 mm (H x W) (2 doors, 600mm wide)
MD 7310	DIN rail W = 1000 mm (2 off)	PT 1067	Glazed door 1000 x 600 mm (H x W)
PP 1010	Back panel 1000 x 1000 mm (H x W)	PT 1087	Glazed door 1000 x 800 mm (H x W)
PP 1012	Back panel 1000 x 1200 mm (H x W) (2 doors, 600mm wide)	PT 1210	Glazed door 1200 x 1000 mm (H x W)
PP 1060	Back panel 1000 x 600 mm (H x W)	PT 1212	Glazed door 1200 x 1200 mm (H x W) (2 doors, 600mm wide)
PP 1080	Back panel 1000 x 800 mm (H x W)	PT 1267	Glazed door 1200 x 600 mm (H x W)
PP 1210	Back panel 1200 x 1000 mm (H x W)	PT 1287	Glazed door 1200 x 800 mm (H x W)
PP 1260	Back panel 1200 x 600 mm (H x W)	PT 1410	Glazed door 1400 x 1000 mm (H x W)
PP 1280	Back panel 1200 x 800 mm (H x W)	PT 1412	Glazed door 1400 x 1200 mm (H x W) (2 doors, 600mm wide)
PP 1410	Back panel 1400 x 1000 mm (H x W)	PT 1460	Glazed door 1400 x 600 mm (H x W)
PP 1412	Back panel 1400 x 1200 mm (H x W) (2 doors, 600mm wide)	PT 1480	Glazed door 1400 x 800 mm (H x W)
PP 1460	Back panel 1400 x 600 mm (H x W)	PT 1610	Glazed door 1600 x 1000 mm (H x W)
PP 1480	Back panel 1400 x 800 mm (H x W)	PT 1612	Glazed door 1600 x 1200 mm (H x W) (2 doors, 600mm wide)
PP 1610	Back panel 1600 x 1000 mm (H x W)	PT 1660	Glazed door 1600 x 600 mm (H x W)
PP 1612	Back panel 1600 x 1200 mm (H x W) (2 doors, 600mm wide)	PT 1680	Glazed door 1600 x 800 mm (H x W)
PP 1660	Back panel 1600 x 600 mm (H x W)	PT 1860	Glazed door 1800 x 600 mm (H x W)
PP 1680	Back panel 1600 x 800 mm (H x W)	PT 1880	Glazed door 1800 x 800 mm (H x W)
PP 1860	Back panel 1800 x 600 mm (H x W)	PT 2060	Glazed door 2000 x 600 mm (H x W)
PP 1880	Back panel 1800 x 800 mm (H x W)	PT 2080	Glazed door 2000 x 800 mm (H x W)
PP 2060	Back panel 2000 x 600 mm (H x W)	ZA 3078	Angulars H = 100 mm (4 off)
PP 2080	Back panel 1600 x 800 mm (H x W)		
PR 1010	Blind door 1000 x 1000 mm (H x W)		
PR 1012	Blind door 1000 x 1200 mm (H x W) (2 doors, 600mm wide)		
PR 1067	Blind door 1000 x 600 mm (H x W)		
PR 1087	Blind door 1000 x 800 mm (H x W)		
PR 1210	Blind door 1200 x 1000 mm (H x W)		
PR 1212	Blind door 1200 x 1200 mm (H x W) (2 doors, 600mm wide)		
PR 1260	Blind door 1200 x 600 mm (H x W)		
PR 1287	Blind door 1200 x 800 mm (H x W)		
PR 1410	Blind door 1400 x 1000 mm (H x W)		

Index

General characteristics and application	3/2
Range composition and selection criteria	3/3
Technical characteristics	3/6
Accessories common to whole range	3/7
Spare parts	3/8

General characteristics and applications



The console, available in single-block and modular versions, completes the offer of panel boards and cabinets for automation. ABB SACE consoles are built with 1.0 mm gauge painted RAL 7032 steel plate.

The range has IP55 rating and complies with UL (Underwriters Laboratories) and CSA (Canadian standards association) standards.

All doors and panels are equipped with polyurethane foam gaskets automatically applied by a robot with continuous casting. The standard locks are the double tongue type.

The internal plates are 2.5 mm thick available in galvanised or painted (RAL 2004) versions. Their assembling depth can be adjusted on special rails at a pitch of 25 mm. They have to be ordered separately.

Cable passage on the bottom of the console is effected through removable plates.

The standard **colour** is orange peel RAL 7032. On request, a wide range of RAL colours is available (see page 7/3).

Modularity

The modular console can be ordered in the complete version or as individual elements to be mounted afterwards. Bases and mounting plate must be ordered separately.

For bases and upper consoles used separately, special closing covers are available.



Range composition and selection criteria

Upper console



Upper console
Upper console with frontal (CA series) or back opening (CD series).

The ranges of ABB SACE command consoles include a monobloc version (CU) and four modular versions (CM, CN, CA, CD).

The difference between the various versions is in the different sizes, the presence of the upper console and the possibility of opening the back panels.

Height and depth characterise each console series which is available in various standard widths from 600 to 1600 mm (the 1200 and 1600 mm width consoles are supplied with blind double front door).

Desk Switchboard



Switchboard may be combined with base and upper console or with base and top closure.

All consoles are supplied on pallettable bases consisting of four angular sections of steel plate which are 100 mm high and therefore can be easily moved with a lift truck.

The base is completed with four 100 mm high flanges (to be ordered separately) or with four supplementary angular structures and four 200 mm high flanges.

Base



Base with front (CA and CN series) or back opening (CD and CM series) that can be combined with the desk switchboard or with a top cover.



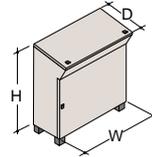
Range composition and selection criteria

CU Series

The monobloc CU series consists of a base and desk switchboard without upper console. It has a standard height of 960 mm and a depth of 470 mm. The top closing panel is equipped with a special support rod to keep it open. Once the code for the required size has been identified, the order has to be completed with the mounting plate, zinc plated, and with the optional base, 100 or 200 mm high, which have to be ordered separately.

Monobloc

CU Series Console with desk switchboard



Dimensions (mm)

H	W	D
960	600	470
960	800	470
960	1000	470
960	1200*	470

Complete version



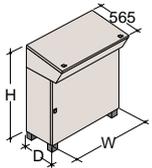
CU 6326
CU 6328
CU 6330
CU 6332

CN Series

The modular CN series consists of a base and desk switchboard without upper console. It has a standard height of 1000 mm and depth of 560 mm. The top closing panel is equipped with a special support rod to keep it open. The series can be ordered in the complete version (base and desk switchboard already assembled) or as individual elements. The mounting plate, zinc plated, and the base, 100 or 200 mm high, must be ordered separately in both cases.

Modular

CN Series Normal Console



Dimensions (mm)

H	W	D
1000	600	560
1000	800	560
1000	1000	560
1000	1200*	560

Complete version



CN 1065
CN 1085
CN 1005
CN 1025

Modular version with separate elements

Base

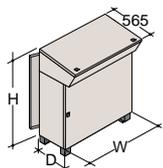


CN 7064
CA 7084
CA 7004
CA 7024

CM Series

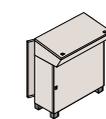
The modular CM Series consists of a base and desk switchboard. The base can also be opened from the rear. The top closing panel is equipped with a special support rod to keep it open. The series can be ordered in the complete version (base and desk switchboard already assembled) or as individual elements. The internal zinc plated plate and the base, 100 or 200 mm high, must be ordered separately in both cases. The base can be replaced with one of the CD series.

CM Series Normal console with front and back opening



Dimensions (mm)

H	W	D
1000	800	419
1000	1000	419
1000	1200*	419
1000	800	513
1000	1000	513
1000	1200*	513



CM 1841
CM 1141
CM 1241
CM 1851
CM 1151
CM 1251

Base

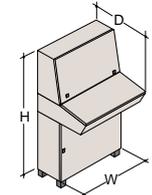


CM 7841
CD 7041
CM 7241
CD 7085
CD 7005
CD 7025

CA Series

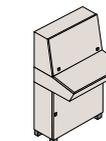
The modular CA series consists of base and desk switchboard with upper console. It has a standard height of 1350 mm and depth of 880 mm. The desk switchboard panel is equipped with a special support rod to keep it open. The series can be ordered in the complete version (base and desk switchboard already mounted) or as individual elements. The mounting plate, zinc plated, and the base, 100 or 200 mm high, must be ordered separately in both cases.

CA Series Console with upper console and front opening



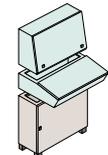
Dimensions (mm)

H	W	D
1350	800	880
1350	1000	880
1350	1200*	880
1350	1600*	880



CA 1388
CA 1308
CA 1328
CA 1368

Base

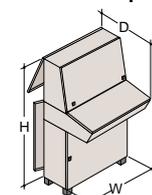


CA 7084
CA 7004
CA 7024
CA 7064

CD Series

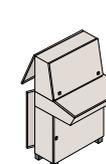
The modular CD series consists of base and desk switchboard with upper console. These series differ from the CA series, as the base and the upper console have back openings. It has a standard height of 1350 mm and depth of 990 mm. The desk switchboard panel is equipped with a special support rod to keep it open.

CD Series Console with upper console and front and back opening



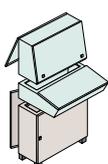
Dimensions (mm)

H	W	D
1350	800	990
1350	1000	990
1350	1200*	990
1350	1600*	990



CD 1389
CD 1309
CD 1329
CD 1369

Base



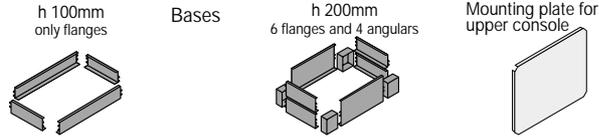
CD 7085
CD 7005
CD 7025
CD 7065

Heights do not include plinths

* 1200 and 1600 mm wide consoles are supplied with double front door.

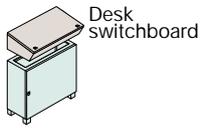
Range composition and selection criteria

Accessories



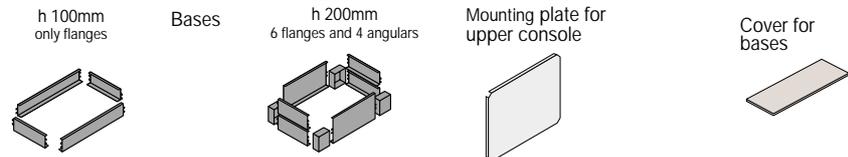
ZA 1645	ZA 2645	PF 6346		
ZA 1845	ZA 2845	PF 6348		
ZA 1045	ZA 2045	PF 6350		
ZA 1245	ZA 2245	PF 6352		

Modular version with separate elements



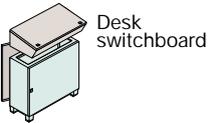
CN 6036	
CN 6038	
CN 6040	
CN 6042	

Accessories

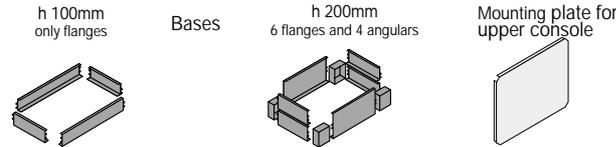


ZA 1645	ZA 2645	PF 6256	CA 6140
ZA 1845	ZA 2845	PF 6258	CA 6141
ZA 1045	ZA 2045	PF 6260	CA 6142
ZA 1245	ZA 2245	PF 6262	CA 6143

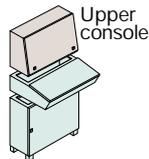
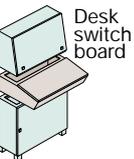
3



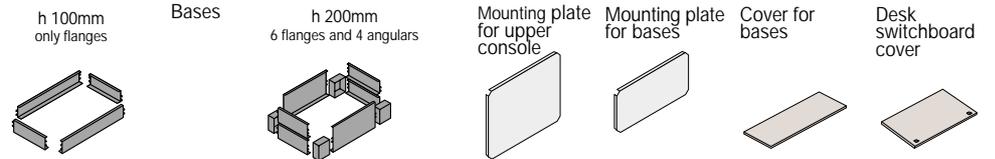
CM 3841	
CM 3041	
CM 3241	
CM 3851	
CM 3051	
CM 3251	



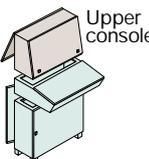
ZA 1845	ZA 2845	PF 6258	
ZA 1045	ZA 2045	PF 6260	
ZA 1245	ZA 2245	PF 6262	
ZA 1851	ZA 2851	PF 6258	
ZA 1051	ZA 2051	PF 6260	
ZA 1251	ZA 2251	PF 6262	



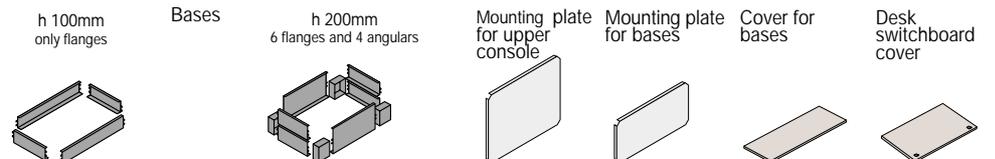
CA 6118	CA 4383
CA 6120	CA 4303
CA 6122	CA 4323
CA 6126	CA 4363



ZA 1845	ZA 2845	PF 6258	PF 6278	CA 6141	CA 6161
ZA 1045	ZA 2045	PF 6260	PF 6280	CA 6142	CA 6162
ZA 1245	ZA 2245	PF 6262	PF 6282	CA 6143	CA 6163
ZA 1145	ZA 2145	PF 6266	PF 6286	CA 6144	CA 6164



CD 6228	CD 4384
CD 6230	CD 4304
CD 6232	CD 4324
CD 6236	CD 4364



ZA 1851	ZA 2851	PF 6258	PF 6278	CD 6293	CD 6298
ZA 1051	ZA 2051	PF 6260	PF 6280	CD 6294	CD 6299
ZA 1251	ZA 2251	PF 6262	PF 6282	CD 6295	CD 6300
ZA 1151	ZA 2151	PF 6266	PF 6286	CD 6296	CD 6301

Technical characteristics



Steel plated pressure folded structure of 1.5 mm gauge.



Polyurethane foam gaskets applied by a robot with continuous casting on all opening doors.



Support bracket for desk switchboard and upper console panel.



Inner plate 2.5 mm gauge depth adjustable.



Accessories common to whole range

Document pocket

To be fastened on the inside of the front doors. The plastic version can be applied with the supplied adhesive.



Description	Code
Plastic document pocket	AA 5600

Spray paint

For touching-up.



Description	Code	
Spray paint orange	RAL 2004	VB 2004
Spray paint gentian blue	RAL 5010	VB 5010
Spray paint green	RAL 6011	VB 6011
Spray paint black	RAL 9005	VB 9005
Spray paint grey	RAL 7032	VB 7032

Spare parts

AA1481	Double tongue closure for desk switchboard
AA1482	Double tongue closure for upper cabinet
AA1511	Double tongue closure with locking bar for base upper cabinet

AA1550	Double tongue key
ZA3078	Angulars H=100 mm AM-IS (4 off)



Index

General characteristics and application	4/2
Product range	4/4
Selection and ordering criteria	4/5
Stacking	4/6
Construction characteristics	4/8
Accessories common to whole range	4/10
Electrical characteristics	4/12
Spare parts	4/13

General characteristics and application

The SR family is a complete range of control, instrumentation, automation and LV distribution enclosures. The SR range combines ABB's long experience of manufacturing high-quality IP55-rated enclosures with an advanced, patented production process.

SR enclosures are used for a wide variety of applications from control boards for large machines and automated production lines to panels for individual machines, burners, heating systems and secondary distribution boards.

SR enclosures allow the building of electric equipment which comply with CEI EN 60204-1 standards.

All enclosures in the SR range are tested and certified to IP55 rating, in accordance with the IEC 70-1 standards. SR enclosures also meet UL (US Underwriters Laboratories) and CSA (Canadian Standards Association) standards.

Secondary distribution boards can be created using the SR enclosure range of modular circuit breakers on DIN rail mountings outfitted with pre-drilled hinged modular panels.

The enclosures are available in a variety of widths (400, 600, and 800 mm). These AS/ANS type circuit boards conform to EN 60439-1 (CEI 17/13-1) standards.

The SR series of accessories (modular panels, DIN rail mounting) along with the possibility of stacking the enclosures permits both secondary and terminal distribution boards.

SR enclosures have been designed to meet most requirements of manufacturers and installers, and feature:

- wide size range
- certified IP65 ingress protection rating
- steel plate body 1.5 mm gauge
- zinc plated mounting plate (2.0 mm gauge allows threaded holes to be made easily), adjustable in depth as required using an appropriate tool
- cable passage (upper and lower) with screwed plate 2.0 gauge mm, with a sealing gasket internally applied
- full reversibility, allowing the door to be hinged on right or left
- hinged modular panels and DIN rail for modular circuit breakers and other equipment.

Orange peel RAL 7032 is the standard colour. On request, enclosures can be ordered in a wide range of RAL colours (see page 7/3)



Polyurethane foam seal is applied to the door by a robot.

VTAP0902

General characteristics and application



Construction

SR enclosures are manufactured from plain sheet to finished product using an advanced, patented production process. The automated process minimises the number of bending and soldering operations minimizing raw material scrap.



The range and product code composition allow easy and fast selection of the product and the most suitable components for the required application.

SR enclosures are available in two versions with a blind door or a glazed door and in 23 different sizes, plus another 19 created by stacking the enclosures, to meet a wide range of applications. The door is supplied together with the enclosure (single code) to reduce the number of separate items and speed installation.

Blind door enclosures typically used for automation boards are supplied complete with the zinc plated mounting plate.

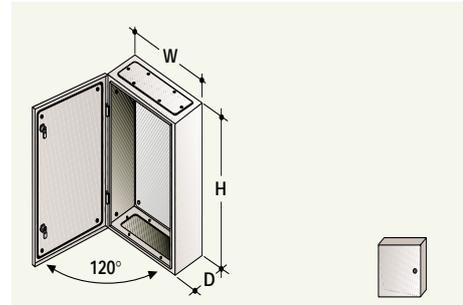
Glazed door enclosures can be also used for secondary distribution panel. They do not include the mounting plate, generally not used for modular panels. Interior equipment is implemented by choosing an appropriate kit:

- KA . . . (Automation Kit) an inner door made of painted steel plate and a zinc plated mounting plate (for control and automation configurations);
- KD. . . (Distribution Kit) made with vertical rails for mounting modular panels (ordered separately), and with a compensation panel (see page 4.7).

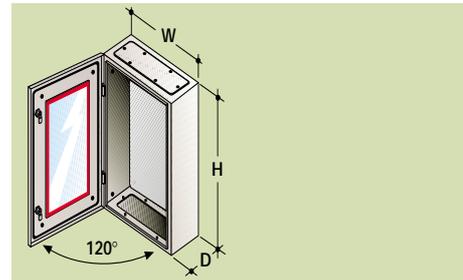
Modular panels are hinged and have 185 mm vertical modularity. They can be also installed on blind door enclosures using the KD kit.

All SR enclosures are complemented by a wide range of accessories: wall mounting brackets, protection top, locks, document pocket, spacer kits, paint spray (see pages 4.10 - 4.11).

SR enclosures can be stacked, increasing the available dimensional range (see page 4.6).



Height		300		
H	(mm)	300	300	300
L	(mm)	200	300	400
D	(mm)	150	150	150
Code		SR 3215	SR 3315	SR 3415



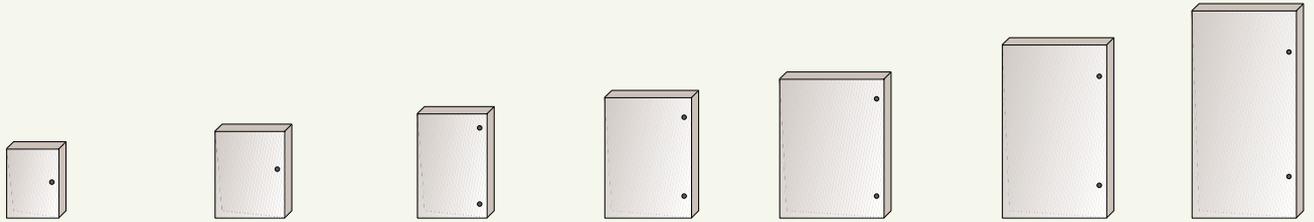
Height				
H	(mm)			
L	(mm)			
D	(mm)			
Code				
Code				
N° vertical modules (H=185mm)				
N° DIN modules per row				
Total DIN modules				
Code				

VTAU0020

The KD kit can also be installed with the blind door enclosures.

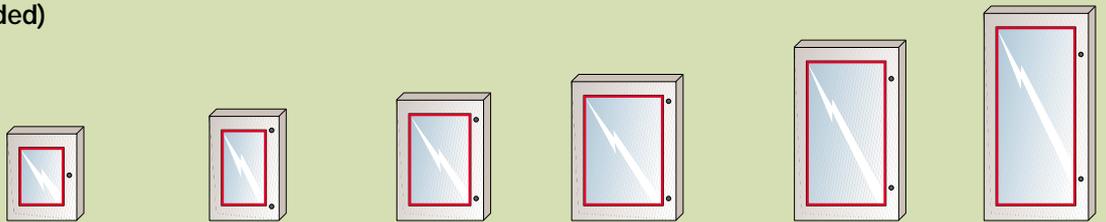
Selection and ordering criteria

Enclosures with blind door (mounting plate included)



400				500			600			700		800			1000			1200	
400	400	400	400	500	500	500	600	600	600	700	700	800	800	800	1000	1000	1000	1200	1200
300	300	400	600	300	400	400	400	400	600	500	500	600	600	800	600	600	800	600	800
150	200	200	200	200	200	250	200	250	250	200	250	250	300	300	250	300	300	300	300
SR 4315	SR 4320	SR 4420	SR 4620	SR 5320	SR 5420	SR 5425	SR 6420	SR 6425	SR 6625	SR 7520	SR 7525	SR 8625	SR 8630	SR 8830	SR 10625	SR 10630	SR 10830	SR 12630	SR 12830

Enclosures with glazed door (mounting plate not included)



				500		600		700		800		1000			1200	
				500	500	600	600	700	700	800	800	1000	1000	1000	1200	1200
				400	400	400	400	500	500	600	600	600	600	800	600	800
				200	250	200	250	200	250	250	300	250	300	300	300	300
				SR 5420V	SR 5425V	SR 6420V	SR 6425V	SR 7520V	SR 7525V	SR 8625V	SR 8630V	SR 10625V	SR 10630V	SR 10830V	SR 12630V	SR 12830V

Automation kit: blind inner door and mounting plate - IP20

				KA 5040	KA 5040	KA 6040	KA 6040	KA 7050	KA 7050	KA 8060	KA 8060	KA 1060	KA 1060	KA 1080	KA 1260	KA 1280
--	--	--	--	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

Distribution kit: uprights for modular panels

				2	2	3	3			4	4	5	5	5	6	6
				14	14	14	14			25	25	25	25	36	25	36
				28	28	42	42			100	100	125	125	180	150	216
				KD 5040	KD 5040	KD 6040	KD 6040			KD 8060	KD 8060	KD 1060	KD1060	KD 1080	KD 1260	KD 1280

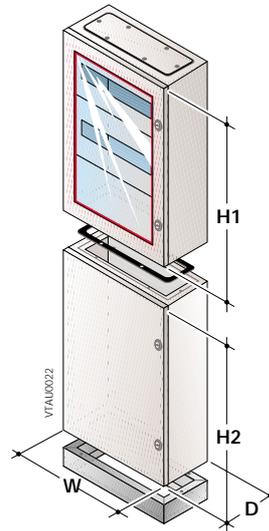
VTAM0031

Stacking

SR enclosures can be stacked achieving various height combinations (19 in all) to a maximum height of 2000 mm. Glazed doors can be stacked with blind doors indiscriminately. To stack, simply remove the gland plates and insert the IP55 gasket in closed cell neoprene (GZ...).

The stacked enclosures are mounted using the same holes and small parts used for the gland plates. The enclosures can also be floor-mounted using plinths (ZA...).

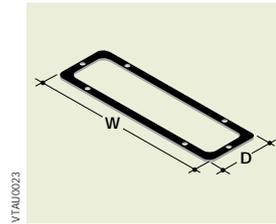
4



W (mm)	D (mm)	H1 + H2 (mm)		H total (mm)
400	200	400	400	800
400	200	400	500	900
400	200	400	600	1000
400	200	500	500	1000
400	200	500	600	1100
400	200	600	600	1200
400	250	500	500	1000
400	250	500	600	1100
400	250	600	600	1200
600	250	600	600	1200
600	250	600	800	1400
600	250	600	1000	1600
600	250	800	800	1600
600	250	800	1000	1800
600	250	1000	1000	2000
600	300	800	800	1600
600	300	800	1000	1800
600	300	800	1200	2000
600	300	1000	1000	2000

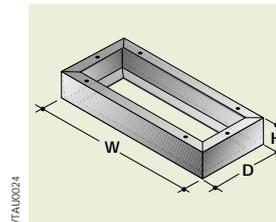
Stacking accessories

IP65 Gasket



W (mm)	D (mm)	Code
400	200	GZ 4020
400	250	GZ 4025
600	250	GZ 6025
600	300	GZ 6030
800	300	GZ 8030

Plinth



W (mm)	D (mm)	H (mm)	Code
400	200	100	ZA 4020
400	250	100	ZA 4025
600	250	100	ZA 6025
600	300	100	ZA 6030
800	300	100	ZA 8030

Modular Panels (unsuitable for circuit breakers and residual current circuit breakers with depth above 68 mm)

The hinged modular panels can be mounted on SR enclosures using the appropriate kit (KD...) made of functional uprights and compensation panels.

The modular panels have ABB SACE patented hinges that permit automatic grounding for the panel contacts when closed. Traditional grounds with cables are also possible with the same hinge.

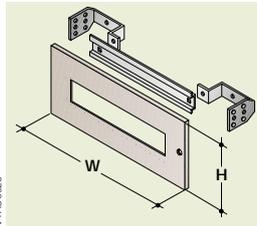
Each modular panel (PM) is outfitted with the DIN rail mounting (depth adjustable), supports and small parts.

Inside the SR enclosures, the following can be installed:

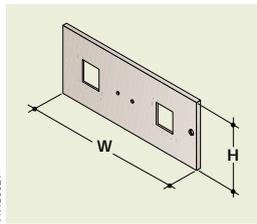
- circuit breakers and modular apparatus
- Isomax S1 and S2 moulded case circuit breakers (by placing the DIN rail mounting in backwards).

Modular and box-type circuit breakers can go side by side on the same DIN rail mounting using the AP 6000 spacers.

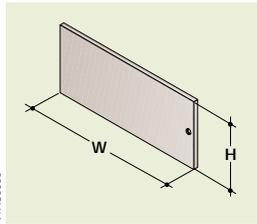
Cable channels up to a maximum size of 60x60mm will fit into the DIN rail mounting support.



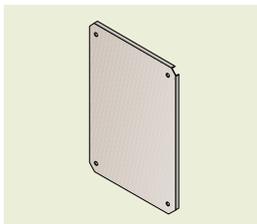
VTAL0028



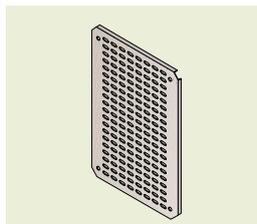
VTAL0029



VTAL0030



VTAL0031



VTAL0032

Hinged modular panels for modular equipment

Modular panel + DIN rail + mounting support

H (mm)	W (mm)	No. of DIN modules	Code
185	400	14	PM 1414
185	600	25	PM 1625
185	800	36	PM 1836

Hinged modular panels for measuring instruments

H (mm)	W (mm)	No. of slots	Code
185	400	2	PS 2476
185	600	2	PS 2676
185	800	2	PS 2876

Blind hinged modular panels

H (mm)	W (mm)	Code
185	400	PC 1406
185	600	PC 1606
185	800	PC 1806
370	600	PC 2606
370	800	PC 2806

Mounting plates (spare parts)

For enclosure type	Code	For enclosure type	Code
SR 3215	PF 3020	SR 6625	PF 6060
SR 3315	PF 3030	SR 7520	PF 7050
SR 3415	PF 3040	SR 7525	PF 7050
SR 4315	PF 4030	SR 8625	PF 8060
SR 4320	PF 4030	SR 8630	PF 8060
SR 4420	PF 4040	SR 8830	PF 8080
SR 4620	PF 4060	SR 10625	PF 1060
SR 5320	PF 5030	SR 10630	PF 1060
SR 5420	PF 5040	SR 10830	PF 1080
SR 5425	PF 5040	SR 12630	PF 1260
SR 6420	PF 6040	SR 12830	PF 1280
SR 6425	PF 6040		

Slotted mounting

For enclosure type	Code	For enclosure type	Code
SR 3215	TQ 3020	SR 6625	TQ 6060
SR 3315	TQ 3030	SR 7520	TQ 7050
SR 3415	TQ 3040	SR 7525	TQ 7050
SR 4315	TQ 4030	SR 8625	TQ 8060
SR 4320	TQ 4030	SR 8630	TQ 8060
SR 4420	TQ 4040	SR 8830	TQ 8080
SR 4620	TQ 4060	SR 10625	TQ 1060
SR 5320	TQ 5030	SR 10630	TQ 1060
SR 5420	TQ 5040	SR 10830	TQ 1080
SR 5425	TQ 5040	SR 12630	TQ 1260
SR 6420	TQ 6040	SR 12830	TQ 1280
SR 6425	TQ 6040		

Deep adapter

W(mm)	Code
600	AP 6000

To use with modular and box-type circuit breakers ABB SACE Series Isomax S1 and S2.

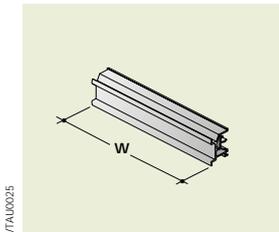
DIN rail and mounting brackets

W (mm)	No. of DIN modules	Code
400	14	GD 4006
600	25	GD 6006
800	36	GD 8006

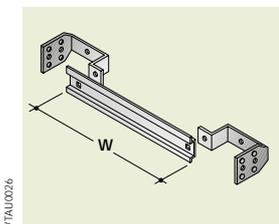
Clip nuts

Code
Nuts (20 off)
TQ 6610

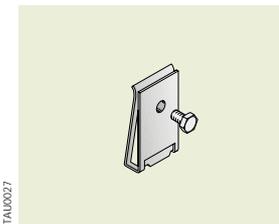
For slotted plate with hex screw M6 x 10 mm.



VTAL0025



VTAL0026



VTAL0027

Construction characteristics



Steel plate body (1.5 mm gauge), bent and soldered by automated process.



Steel plate doors (1.5 mm gauge). Application of polyurethane foam seal is robot-performed to obtain IP65 protection rating.



Internal supports for mounting the inner doors, modular panels and DIN rails



Transparent doors with tempered glass plate (4 mm gauge) secured internally per safety norms. The hinges are not visible from the outside, door opening radius up to 120°.



Aluzinc lower and upper plates (2.0 mm gauge) with polyurethane foam sealing gaskets, fastened by M6 screws.



Double tongue lock (DIN 43668-C35) and possibility to change with other locking devices.

4

Construction characteristics



Zinc plated mounting plate (2.0 mm gauge) which allows threaded holes to be easily made. Supports with small parts included. Depth adjustable using a spacer kit (ordered separately).



ABB patented modular panel hinges allow automatic grounding for panel contacts; they can also be used with traditional rubber coated cable grounds.



Steel plate inner door (1.5 mm gauge) galvanised and painted orange peel RAL 7032 colour.



Accessories (e.g. cable channels) can be easily fixed inside the blind door with inner rails.



Steel plate inner door (1.5 mm gauge) galvanised and painted orange peel RAL 7032 colour.



Wall mounting is possible with bracket kit.



Accessories common to whole range

Protection top

To improve protection against sprays of water. Made with 1.5 mm steel plate painted in orange peel RAL 7032.



VTAU9112

Enclosure sizes		Code
W (mm)	D (mm)	
200	150	TT 2015
300	150	TT 3015
400	150	TT 4015
300	200	TT 3020
400	200	TT 4020
500	200	TT 5020
600	200	TT 6020
400	250	TT 4025
500	250	TT 5025
600	250	TT 6025
600	300	TT 6030
800	300	TT 8030

Spare locks

Replacements for standard locks; the inserts are interchangeable and easily replaced by loosening one nut.



VTAU9113

	Description	Code
1	Box diameter 19 mm (spares), double tongue 7 mm type with plastic key	AA 8001
2	Box diameter 19 mm lock with safety insert and Yale key	AA 8002
3	Handle with Yale Insert and key	AA 8003
	Box diameter 19 mm with triangular iron insert	AA 5200
	Plastic key for triangular iron insert (code AA 5200)	AA 5190

Rails for accessories

Used to fix accessories (e.g. cable channels) to blind door interior. Composed of 2 zinc-plated (1.5 mm gauge) vertical traverses pre-drilled at a pitch of 25 mm.

Rails are included with 1000 and 1200 mm wide blind door enclosures.



VTAU9114

Description	Code
Blind door rails (2 off) h= 600mm	TS 6006
Blind door rails (2 off) h= 700mm	TS 7006
Blind door rails (2 off) h= 800mm	TS 8006

Neutral/Earth bar

The bars are made of electrolytic copper with pre-drilled M6 size holes at a 25 mm pitch. They can be assembled on the mounting plate using bar supports. They have to be sized according to the enclosure function and working position.



VTAU9115

Description	Code
Bars 20 x 5 mm, section length = 1000 mm (4 off)	AA 8010
Bar supports (5 off)	AA 8011

Accessories common to whole range

Wall mounting brackets

Used for wall mounting enclosures. The brackets have to be assembled using the holes on the back of the enclosure. They are made of steel plate (2.5 mm gauge), subjected to a yellow passivated galvanising treatment.



VFAUP9116

Description	Code
Wall mounting brackets (4 off)	AA 1206

Document Pocket

Made of plastic and RAL 2004 colour. The pocket can be fixed inside the blind doors more than 400 mm wide with the supplied adhesive.



VFAUP9054

Description	Code
Document pocket	AA 5600

4

Spray paint

Synthetic nitro spray for touch-up, grey RAL 7032.



VFAUP9117

Description	Code
400 ml can	VB 7032

Spacer kit to adjust depth of mounting plates

The kit contains 12 spacers for mounting plates; may adjust depth at a pitch of 25 mm.



VFAUP9118

Description	Code
25 mm length	AA 8025
50 mm length	AA 8050

Conformity to CEI EN 60439-1 Standards

Temperature-rise limit (ref. par. 8.2.1.)

The following table lists the thermal dissipation values as tested on all sizes of the SR enclosures series. The values of dissipating power (in Watt) are given according to temperature-rise limit inside the box and are compared to the sum of the dissipating power of all components installed inside the box, bearing in mind the contemporaneity factor.

Single enclosures wall mounting	Maximum dissipating power (W) overheating inside box			
	25°	30°	35°	40°
SR 3215	18	22	26	31
SR 3315	23	29	35	42
SR 3415	34	42	51	60
SR 4315	30	37	45	53
SR 4320	33	42	51	60
SR 4420	42	52	63	74
SR 4620	59	74	89	105
SR 5320	39	49	59	69
SR 5420V	47	59	72	85
SR 5425V	52	66	79	94
SR 6420V	54	67	82	96
SR 6425V	59	74	89	105
SR 6625	79	99	120	141
SR 7520V	68	86	104	122
SR 7525V	74	93	113	133
SR 8625V	94	118	143	169
SR 8630V	107	134	162	191
SR 8830	114	142	173	204
SR 10625V	95	118	143	169
SR 10630V	103	130	156	185
SR 10830V	142	178	215	254
SR 12630V	123	155	187	220
SR 12830V	168	210	255	300

Dielectric Properties

(ref. par. 8.2.2.)

Nominal working voltage:	400 V AC
Nominal insulation voltage:	500 V AC

Short-circuit withstand strength

(ref. par. 8.2.3.)

All the circuit breakers that limit the short-circuit current to less than a 17 kA peak can be installed, according to a nominal breaking capacity.

Effectiveness of the protective circuit

(ref. par. 8.2.4.)

The electrical continuity between enclosures and panels and between enclosures and inner doors is guaranteed by the ABB SACE patented hinges provided with the panels. Electrical continuity between enclosures and doors is realised by connecting M6 nuts to the ground.

Air and superficial insulation life

(ref. par. 8.2.5.)

Distances are respected by following the ABB SACE assembly, mounting and connecting instructions.

Mechanical Operation

(ref. par. 8.2.6.)

Mechanical operation is verified if the assembling instructions of all ABB SACE components are followed.

Degree of Protection

(ref. par. 8.2.7.)

The ABB SR enclosure series are tested and certified to IP55 rating in compliance with the CEI EN 60529 standards (CEI 70 -1 Publication IEC 529).

Spare parts

AA 1203	M6x14 screws and nuts for flanges (16 off)
AA 8001	Double tongue closure and key
FL 3215	Cable passage plates for SR3215 (2 off)
FL 3315	Cable passage plates for SR3315-SR4315 (2 off)
FL 3415	Cable passage plates for SR3415 (2 off)
FL 4320	Cable passage plates for SR4320-SR5320 (2 off)
FL 4420	Cable passage plates for SR4420-SR5420-SR6420 (2 off)
FL 4425	Cable passage plates for SR5425-SR6425 (2 off)
FL 4620	Cable passage plates for SR4620 (2 off)
FL 6625	Cable passage plates for SR6625-SR8625-SR10625 (2 off)
FL 7520	Cable passage plates for SR7520 (2 off)
FL 7525	Cable passage plates for SR7525 (2 off)
FL 8630	Cable passage plates for SR8630-SR10630-SR12630 (2 off)
FL 8830	Cable passage plates for SR8830-SR10830-SR12830 (2 off)
PR 1066	Blind door 1000 x 600 mm (H x W)
PR 1086	Blind door 1000 x 800 mm (H x W)
PR 1266	Blind door 1200 x 600 mm (H x W)
PR 1286	Blind door 1200 x 800 mm (H x W)

PR 3026	Blind door 300 x 200 mm (H x W)
PR 3006	Blind door 300 x 300 mm (H x W)
PR 3046	Blind door 300 x 400 mm (H x W)
PR 4036	Blind door 400 x 300 mm (H x W)
PR 4046	Blind door 400 x 400 mm (H x W)
PR 4066	Blind door 400 x 600 mm (H x W)
PR 5036	Blind door 500 x 300 mm (H x W)
PR 5046	Blind door 600 x 400 mm (H x W)
PR 6046	Blind door 600 x 400 mm (H x W)
PR 6066	Blind door 600 x 600 mm (H x W)
PR 7056	Blind door 700 x 500 mm (H x W)
PR 8066	Blind door 800 x 600 mm (H x W)
PR 8086	Blind door 800 x 800 mm (H x W)
PT 1066	Glazed door 1000 x 600 mm (H x W)
PT 1086	Glazed door 1000 x 800 mm (H x W)
PT 1266	Glazed door 1200 x 600 mm (H x W)
PT 1286	Glazed door 1200 x 800 mm (H x W)
PT 5046	Glazed door 500 x 400 mm (H x W)
PT 6046	Glazed door 600 x 400 mm (H x W)
PT 7056	Glazed door 700 x 500 mm (H x W)
PT 8066	Glazed door 800 x 600 mm (H x W)

Index

General characteristics and application	5/2
Selection and ordering criteria	5/4
Operation and selection	5/6
Technical data	5/10
Declaration of conformity	5/14
Power supply voltage (AC)	5/15
Spare parts	5/16

Introduction

Heat, dust and moisture are the major causes of incorrect working of controls and settings in electric equipment, especially when considering of the high sensitivity of electronic components that have to record the input signals and working of logic equipment. There are several methods and products for cooling the electrical boards:

- air condensed air conditioners;
- water condensed air conditioners;
- air-air heat exchangers;
- gas pipe heat exchangers;
- air-water exchangers;
- filter or filter-less fans;

Each of these systems is able to cool in a different way and with different application limits, and consequently with advantages and disadvantages in according to the type of application for which they were manufactured. In order to keep the ideal climatic conditions inside an electric board, the range of ABB's conditioners allows different types of installation.

Ventilation

The fans (or ventilators), together with the air filter kit, are used when the temperature inside the electrical board exceeds the ambient temperature. The ventilators are cheap and efficient, and have a unlimited degree of protection. The scheduled cleaning of all filtering elements is the only precaution needed.

Air Conditioners

These systems are able to keep temperatures inside the electrical board lower than the ambient temperature, warranting a high degree of protection against dust, and water (IP54).

ABB SACE proposes a wide range of types based on the required refrigeration depending on the assembling position (door, wall, ceiling, on the board side) and on the installation type (outside, inside or semi-embedded).

Air-Air Heat Exchangers

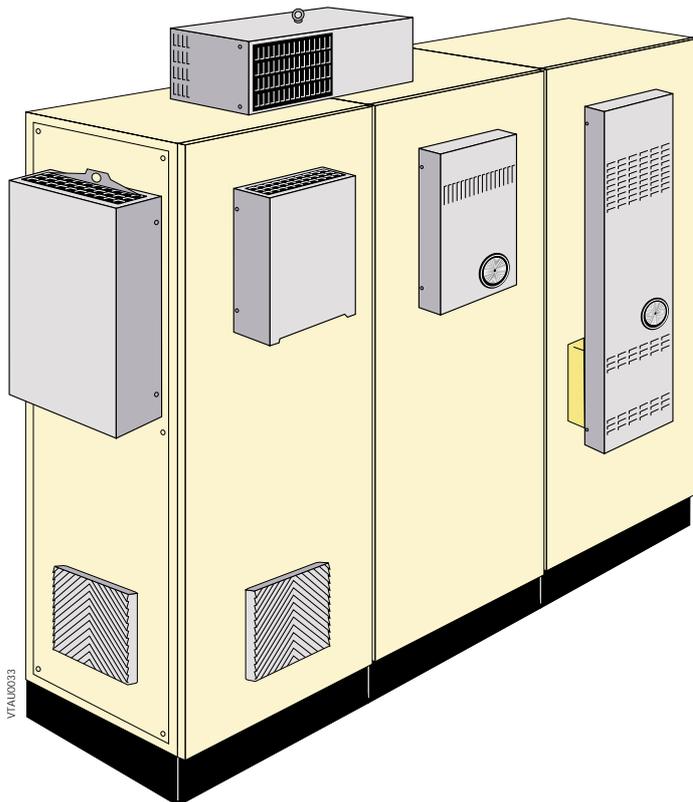
These systems are suitable when an inner board temperature higher than the outer is allowed and a protection degree IP54 is required.

The yield of exchangers is shown as W/K (Watt/Kelvin). This value shows the capability to remove heat for each centigrade degree of difference between ambient temperature and temperature inside the electrical board. In some cases, the heat exchanger can be more expensive than the conditioners.

Heaters for Electrical Boards

Condensation of moisture inside the electrical boards can oxidise the inner with losses of insulation and dielectric rigidity. The anti-condensation resistors keep an optimum operating temperature eliminating the risk of oxidation.

5 The range of ABB's conditioners allows different types of installation

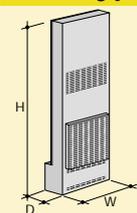




Selection and ordering criteria

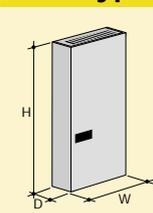
The table shows the full range of available equipment (conditioners, exchangers, heaters and ventilators), when selecting the suitable equipment for the different application requirements, refer to pages 5.10 and 5.12. On request conditioners with are available higher freezing yield.

Wall-type extra-flat conditioners IP54



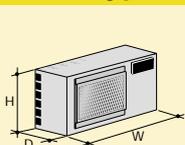
Code	Freezing yield (W)	Absorbed power (W)	Standard supply (V-/Hz)	Absorbed current starting (A)	Absorbed current working (A)	Evaporator (m³/h)	Air flow Condenser (m³/h)	H (mm)	W (mm)	D (mm)	Weight (kg)
VZ 1000	1000	537	230/50	10,5	3	200	400	1510	380	105	50
VZ 1450	1450	690	230/50	15,8	3,8	200	600	1510	380	105	50
VZ 1700	1700	850	230/50-60	19	4,3	400	800	1510	380	105	56
VZ 2100	2100	1000	230/50-60	21,7	4,7	400	1400	1510	380	105	60

Wall-type conditioners IP54



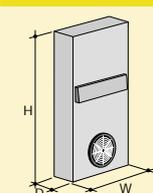
Code	Freezing yield (W)	Absorbed power (W)	Standard supply (V-/Hz)	Absorbed current starting (A)	Absorbed current working (A)	Evaporator (m³/h)	Air flow Condenser (m³/h)	H (mm)	W (mm)	D (mm)	Weight (kg)
VZ1055	550	289	230/50-60	7,8	2,1	340	550	605	305	215	25
VZ 1066	660	386	230/50	9,8	2,3	340	550	605	305	215	26
VZ 1085	850	436	230/50	10,8	2,6	340	550	605	305	215	26
VZ 1080	1080	540	230/50	12,4	2,9	300	965	1000	400	230	38
VZ 1014	1450	664	230/50	15,5	3,6	550	965	1000	400	230	39
VZ 1730	1730	885	230/50-60	21,6	4,7	550	965	1000	400	230	39
VZ 1021	2100	990	230/50-60	21,9	4,8	550	965	1000	400	230	40

Roof-type conditioners IP54



Code	Freezing yield (W)	Absorbed power (W)	Standard supply (V-/Hz)	Absorbed current starting (A)	Absorbed current working (A)	Evaporator (m³/h)	Air flow Condenser (m³/h)	H (mm)	W (mm)	D (mm)	Weight (kg)
VZ 6501	650	450	230/50	8,9	2,3	550	965	300	600	400	25
VZ 1001	1000	570	230/50	12,5	3,3	550	965	300	600	400	26
VZ 1451	1450	632	230/50	15	3,6	550	965	300	600	400	28
VZ 1651	1650	900	230/50-60	21,5	4,5	550	965	300	600	400	30

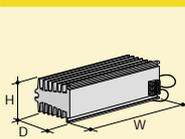
Heat exchanger (air to air) for wall-type IP54



Code	Thermal yield (W/K)	Absorbed power (W)	Standard supply (V-/Hz)	Absorbed current working (A)	external circ. fan (m³/h)	Air flow external circ. fan (m³/h)	H (mm)	W (mm)	D (mm)	Weight (kg)
VS 4233	35	150	230/50-60	0,7	450	450	782	318	86	10
VS 6268	80	150	230/50-60	0,7	500	500	1250	318	107	18

(1)Thermal yield is valid for temperature difference of 1 °C between external and internal temperature.

Heater for electrical board IP20



Code	Standard supply (V-/50-60 Hz)	Absorbed current starting (board internal temperature)			Absorbed current working (board internal temperature)			H (mm)	W (mm)	D (mm)	Weight (kg)
		(0°C)	(20°C)	(40°C)	(0°C)	(20°C)	(40°C)				
VA 6930	110 ÷ 265	500W	300W	250W	40W	15W	6W	55	150	40	0,5
VA 6950	110 ÷ 265	160W	150W	140W	60W	35W	15W	80	200	75	1,3

Thermostat IP30

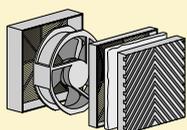


Code	Standard supply (V-)	Contact load		Temperature range (°C)	H (mm)	W (mm)	D (mm)	Weight (kg)
		load Ω (A)	load L (A)					
VA 6900	250	5	2	10 ÷ 60	71	71	27,5	0,11

VTAL0034

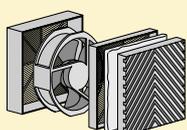
Selection and ordering criteria

Ventilation kit with 115V AC fan IP42



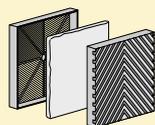
Watt	Air flow (m ³ /h)		□ (mm)	Grey kit	Grey kit including drilling	Air flow direction
	50Hz	60Hz				
15	50	58	130	VE 5420	VE 5430	Reversible by turning fan
35	220	255	255	VE 5460	VE 5470	Reversible by turning fan
67	540	323	323	VE 5480	VE 5490	Only intake

Ventilation kit with 230V AC Fan IP42



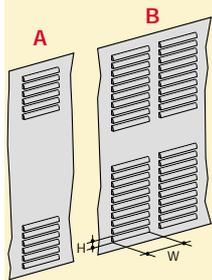
Watt	Air flow (m ³ /h)		□ (mm)	Grey kit	Grey kit including drilling	Air flow direction
	50Hz	60Hz				
15	50	58	130	VE 5380	VE 5390	Reversible by turning fan
35	220	255	255	VE 5580	VE 5590	Reversible by turning fan
67	540	323	323	VE 5680	VE 5690	Only intake

Air filter kit IP42



Surface area (cm ²)	□ (mm)	Grey kit	Grey kit including drilling
30	130	VE 5320	VE 5330
132	255	VE 5520	VE 5530
256	323	VE 5620	VE 5630

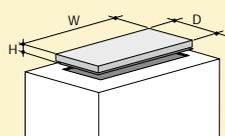
Air grating IP20



Code with filter	Code without filter	Ventilation air inlet surface (cm ²)		Number of tabs	Tabs sizer	
		with filter	without filter		H (mm)	W (mm)
A VG 5700	VG 5710	21	52	6	6	145
B VG 5720	VG 5730	69	174	20 (2 rows x10)	6	145

The tabs will be symmetrically punched at their base and the top of side panels or front blind door (front and back)

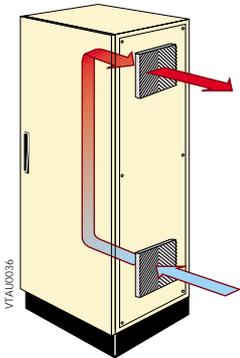
Aeration hood IP20



Code	Aeration air inlet surface (cm ²)	Colour	H (mm)	W (mm)	D (mm)
VG 5050	220	RAL 7032	60	440	280

For correct efficiency of natural aeration, the hood placed on the top of the cabinet needs an air passage filter kit installed in the lower part of the cabinet.

Overall dimensions page 6/22

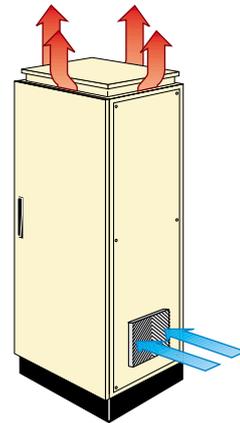


Fans (ventilators)

The operation of the ventilation kit is simple: the ambient air, which is cooler than the air inside the board, comes in from the bottom and is filtered of impurities. The air flows through the equipment cooling it, the warmer air rises to the upper part and exits from the upper air filter. In this way, a low over-pressure will be created inside preventing dust penetration.

Inlet and outlet filters provide a speedy heat exchange. With the ventilator off, no condensation and moisture can occur.

The air filters do not have a ventilator and, for efficient operation, a periodical change or cleaning of the filter media, by shaking or by using compressed air, must be scheduled.



Calculation of ventilator flow

The dissipating power is given from the sum of dissipating power of each device, from conductors (even considering the contemporaneity coefficient), once it is calculated and after setting the maximum allowable temperature inside the board, that must be compatible with the operational of the installed equipment, the following formula is to be applied:

$$Q = \frac{P \cdot k_1 \cdot k_2}{\rho \cdot c_p \cdot \Delta T} \cdot 3600$$

where:

Q = ventilator air flow (m³/h)

P = dissipating power (W)

ρ = air density (1.293 kg/m³ per T= 0°C at 0 metres on sea level)

c_p = air specific heat (1004 sec/kilo K for T= 0°C, at 0 metres on sea level)

k_1 = factor depending on external temperature (value 1 a +0°C – value 1.128 at 35°C)

k_2 = factor depending on the height above sea level (or better from the atmospheric pressure)

ΔT = difference between the T inside the board and the environment T.

Coefficients k_1 and k_2 need to reflect the value of air density as a function of temperature and atmospheric pressure. In both cases, for different ambient temperature and quotas, use intermediate values.

In order to convert the air flow in m³/h, in compliance with fan catalogues, the results must be multiplied by 3600.

In order to simplify calculations the following formula can be used:

$$Q = \frac{P}{\Delta T} \cdot 3,5$$

The formula is obtained from the first assuming T = 35°C at height of 1000 m.

Most of the installations are within these conditions with a large safety margin.

Ventilation Kit, consisting of plastic grating, filter and fan. To be fixed to the lower part of the board.

The air filter Kit does not include the fan and has to be assembled to the upper part of the board.



Conditioner

Conditioners keep the internal temperature of the board within a fixed range. They are available for wall or board roof assembling versions and are also available in four extra-slim 105 mm thick wall versions.

Calculation of the conditioner needs the following data:

- **dissipating power in Watts** (depends on the type and quantity of equipment and conductors inserted in the panel board);
- **maximum internal temperature** required;
- **environment temperature** (referred to the place where the panel board is installed);
- **equivalent cooling surface** (the sum of the external surfaces conveying heat inward/outward). To calculate it, the method established in CEI 17-43 Standard can be used;
- **thermal power** absorbed or dissipated by the cabinet surface, depending on the differential (internal-external) temperature (if the external temperature is lower than the inner temperature the heat flows towards the outside and vice versa);
- **nominal characteristics** of the conditioner and refrigerating yield: in our case, ABB SACE conditioners work with external temperatures between 20 and 55°C, keeping inside board temperature values between 25 and 45° C. The nominal condition of reference is 35° C inside and outside the panel board: if this condition varies, the refrigerating power of the conditioner will require some modifications to be taken for correct design (refer to the "Refrigerating power correction factor" table below).

Example of conditioner selection

Data:

Internal dissipating power 400 Watt
Internal temperature 35° C
Forecast environmental temperature 40° C

Equivalent cooling surface (Ae) (e.g IS 2086 2000X800X600mm) 5,7m²

Note: in this case a cooling surface for an installation exposed on all four sides is considered; otherwise the cooling surface must be calculated as described in CEI 17-43 norm.

Since the external temperature is higher than the inner one, the heat tends to go from the outside to the inside of the panel board. For conditioner design the total dissipating power is given from: equipment generated power (copper conductor included, 400 Watt in the example) and the power transmitted by the environment towards the inside of the panel board through the steel plated external surfaces. It is calculated with the formula:

$$P = K \cdot Ae \cdot \Delta T = 5,5 \cdot 5,7 \cdot 5 = 156,75W$$

The total dissipating power is therefore:

$$P_{tot} = 400 + 156,75 = 556,75W$$

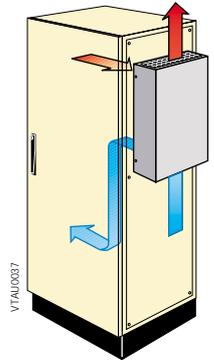
At this point the total power value obtained for the selection of the conditioner can be used. Correct designing must also consider the effects of the environment in which the conditioner has to operate. In our example (inner T = 25° C and external T = 40° C) the refrigerating power correction factor k = 0.94 is taken from table 1.

Therefore, the effective P_{eff} power to be used for design of the conditioner is:

$$P_{eff} = P_{tot}/K = 556,75/0,94 = 592,3 \text{ Watt}$$

For example, it will be possible to select, the VZ 1066 conditioner with a cooling power is of 660 Watt for a wall installation of the board.

If the internal temperature is higher than the external, to calculate the total dissipating power it is necessary to subtract, the heat naturally transmitted through the wall toward the outside from the equipment generated power.



Formula to calculate the power transmitted to the environment:

$$P = K \cdot Ae \cdot \Delta T$$

where:

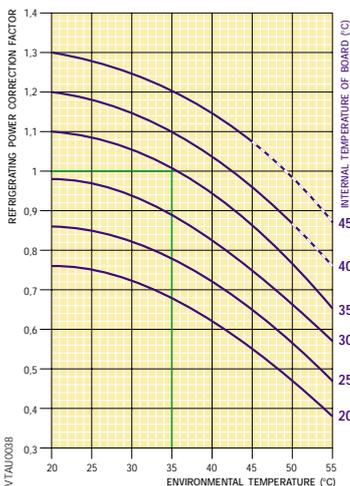
P = power transmitted by the environment (W)
K = coefficient of heat exchange for painted steel plate
K=5,5 W/m² · K

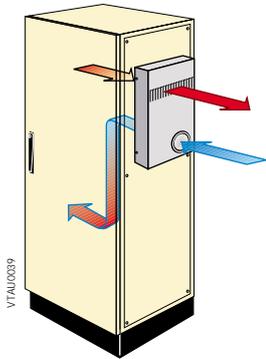
Ae = cabinet free surface (m²)

ΔT = (Ti - Te)

Ti = internal temperature

Te = external temperature





Heat exchanger

Heat exchangers cool the cabinet's inner hot air by means of thermal exchange with colder air coming from the outside keeping the two air fluxes isolated.

For this reason, exchangers can be used only if $T_i > T_e$ (inner temperature > external temperature). Their use is recommended when board installation is in dusty industrial environments. In fact, heat exchangers allow the air to cool of inside the board without mixing it with the cooling air coming from outside, maintaining the IP54 protection rate and therefore preventing the penetration of impurities inside the electric panel board.

Since $T_i > T_e$ condition must be always true, the power generated by the equipment installed inside the panel board will be dissipated by the exchanger and the surface of the board.

The exchangers have to be designed depending on their specific power W/K (Watt/Kelvin) or exchangeable power for each degree of difference between external and internal temperatures.

Formula to calculate the power transmitted to the environment:

$$P = K \cdot Ae \cdot \Delta T$$

where:

P = power transmitted by the environment (W)

K = coefficient of heat exchange for painted steel plate
 $K = 5,5 \text{ W/m}^2 \cdot \text{K}$

Ae = cabinet free surface (m^2)

$\Delta T = (T_i - T_e)$

T_i = internal temperature

T_e = external temperature

Example of selection of an heat exchanger

Data:

Internal dissipating power 640 Watt

Internal temperature 35° C

Forecast environmental temperature 25° C

Equivalent cooling surface (Ae) (e.g IS 2086 2000x800x600mm) 5,7 m^2

Note: in this case a cooling surface is considered for an installation exposed on all four sides; otherwise the cooling surface must be calculated as described in CEI 17-43 Standards.

Since the external temperature is lower than the internal one, the heat tends to go from the inside to the outside of the panel board and therefore contributes naturally to a part of the necessary dissipation.

The power transmitted to the environment through the external steel plate surfaces of the board is calculated with the formula:

$$P = K \cdot Ae \cdot \Delta T = 5,5 \cdot 5,7 \cdot 10 = 313,5 \text{ W}$$

In this case, the total dissipating power is:

$$P_{tot} = 640 - 313,5 = 326,5 \text{ W}$$

The exchanger will therefore have to dissipate:

$$P_{spec} = P_{tot} : \Delta T = 326,5 : 10 = 32,65 \text{ W/K}$$

In this condition, the heat exchanger VS 4233 with a specific power is 35 W/K is suitable for the installation.



Operation and selection

Heater for electric cabinet

Heaters prevent the condensation of atmospheric humidity inside the electrical board that can cause a slow but progressive alteration of the surface of the materials which affects their insulation.

Heaters are composed of automatically regulated resistors and the heat produced depends on the inner temperature of the electrical board.

Two versions are available and can be installed on steel standard sections DIN EN50022, satisfying every requirement:

- VA 6930 for wall-type boards (maximum height 1200 mm)
- VA 6950 for floor boards or for larger sizes.

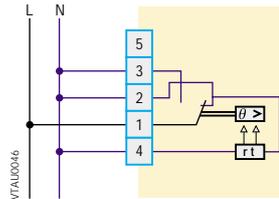
The dissipating element is made with material complying with UNI 3569 DIN1725 standards (Al Mg Si alloy).

To maximise the efficiency of the heaters place it towards the bottom part of the enclosure.

Thermostat for temperature regulation

The thermostat is used to command the running of ventilators, conditioners, exchangers and anticondensation heaters. It has a regulation field from 10 up to 60° C, with steps of about 1° C and can be snap-assembled on DIN EN50022 structural steel.

Inside the regulation knob there is a manual device used to limit the setting range (min-max) of the temperature. For correct installation the ventilation must not pass through the thermostat from side to side but from the bottom to the top, and the thermostat must not be placed close to heat sources.



CE



CE

Technical data

VZ 1055 - VZ 1066
VZ 1085



Wall or door-type conditioning systems (H 805 W 305 D 215)



VFAU9124

Model		VZ 1055	VZ 1066	VZ 1085
Freezing Yield (DIN 3168 - L35L35)	W	550	660	850
Total power required	W	289	386	436
Standard electric supply	V~(single phase)	230	230	230
Frequency	Hz	50/60	50	50
Absorbed current	starting	7,8	9,8	10,8
	working	2,1	2,3	2,6
Continuous ampere rating	A	4	5	5
Air evaporator capacity	m ³ /h	340	340	340
Capacitor air flow	m ³ /h	550	550	550
Contact side protection degree		IP 54	IP 54	IP54
Freezing gas (standard)		R 134 A	R 134 A	R 134 A
Admitted environmental temperature	°C	20 ÷ 55	20 ÷ 55	20 ÷ 55
Noise	dB(A)	62	62	62
Approximate weight	kg	25	26	26
Standard painting	RAL	orange peel 7032	orange peel 7032	orange peel 7032

VZ 1080 - VZ 1014
VZ 1730 - VZ 1021



Wall or Door-type Conditioning Systems (H 1000 W 400 D 300)



VFAU9125

Model		VZ 1080	VZ 1014	VZ 1730	VZ 1021
Freezing Yield (DIN 3168 - L35L35)	W	1080	1450	1730	2100
Total power required	W	540	664	885	990
Standard electric supply	V~(single phase)	230	230	230	230
Frequency	Hz	50	50	50/60	50/60
Absorbed current	starting	12,4	15,5	21,6	21,9
	working	2,9	3,6	4,7	4,8
Continuous ampere rating	A	6	6	8	8
Air evaporator capacity	m ³ /h	300	550	550	550
Capacitor air flow	m ³ /h	965	965	965	965
Contact side protection degree		IP 54	IP 54	IP54	IP54
Freezing gas (standard)		R 134 A	R 134 A	R 134 A	R 134 A
Admitted environmental temperature	°C	20 ÷ 55	20 ÷ 55	20 ÷ 55	20 ÷ 55
Noise	dB(A)	62	62	62	62
Approximate weight	kg	38	39	39	40
Standard painting	RAL	orange peel 7032	orange peel 7032	orange peel 7032	orange peel 7032

VZ 6501 - VZ 1001
VZ 1451 - VZ 1651



Roof-type conditioning system (H 300 W 600 D 400)

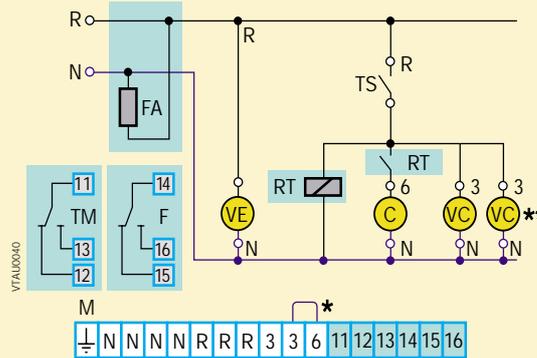


VFAU9126

Model		VZ 6501	VZ 1001	VZ 1451	VZ 1651
Freezing Yield (DIN 3168 - L35L35)	W	650	1000	1450	1650
Total power required	W	450	570	632	900
Standard electric supply	V~(single phase)	230	230	230	230
Frequency	Hz	50	50	50	50/60
Absorbed current	starting	8,9	12,5	15	21,5
	working	2,3	3,3	3,6	4,5
Continuous ampere rating	A	4	6	6	8
Air evaporator capacity	m ³ /h	550	550	550	550
Capacitor air flow	m ³ /h	965	965	965	965
Contact side protection degree		IP 54	IP 54	IP 54	IP54
Freezing gas (standard)		R 134 A	R 134 A	R 134 A	R 134 A
Admitted environmental temperature	°C	20 ÷ 55	20 ÷ 55	20 ÷ 55	20 ÷ 55
Noise	dB(A)	62	62	62	62
Approximate weight	kg	25	26	28	30
Standard painting	RAL	orange peel 7032	orange peel 7032	orange peel 7032	orange peel 7032

Standard equipment

- Pre-set inside control thermostat at 35° C
- Inside terminal board
- Powder paint protection
- Integral Seal IP54 between conditioning system and electrical board
- Corrugated-board packaging
- User's and maintenance guide

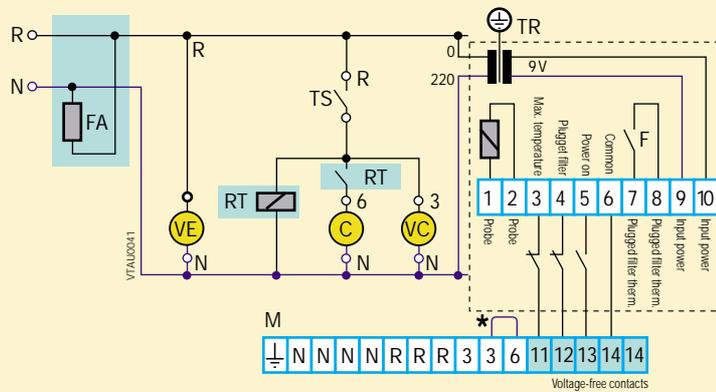


Captions of wiring diagrams

- C Compressor
- F Flow meter (or thermostat on capacitor) for air filter
- FA *RC* filter (suppressor)
- M Main terminal board
- RT Timer relay
- TM Thermostat for maximum internal temperature
- TS Control thermostat
- VC Capacitor fan
- VE Evaporator fan
- * if it is not RT-mounted
- Optional accessory

Standard equipment

- Pre-set inside control thermostat at 35° C
- Diagnostic electronic module
- Inside terminal board
- Powder paint protection
- Easy to change polyurethane air filter
- Condensation dissipator with "high level"
- Lifting eyebolt
- Integral Seal IP54
- Corrugated-board packaging
- User's and maintenance guide

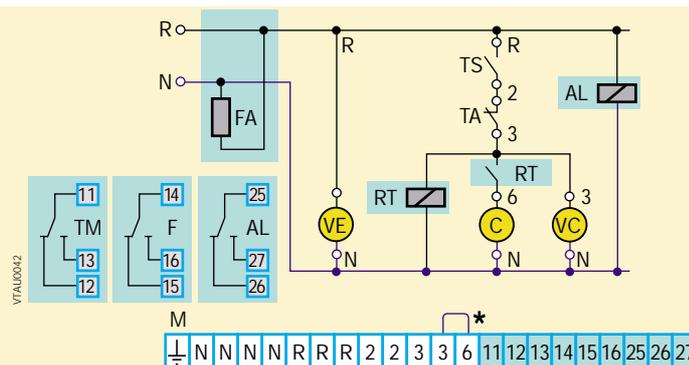


Captions of wiring diagrams

- C Compressor
- F Flow meter (or thermostat on capacitor) for air filter
- FA *RC* filter (suppressor)
- M Main terminal board
- RT Timer relay (delay for compressor start)
- TR Transformer
- TS Control thermostat
- VC Capacitor fan
- VE Evaporator fan
- * if it is not RT-mounted
- Optional accessory
- 11 Max. temperature signal (NC)
- 12 Plugged filter signal
- 13 Voltage signal (NO)
- 14 Common for alarm signals

Standard equipment

- Pre-set inside control thermostat at 35° C
- Anti-freezing thermostat
- Inside terminal board
- Powder paint protection
- Easy to change polyurethane air filter
- Condensation dissipator with "high level"
- Lifting eyebolt
- Integral Seal IP54
- Corrugated-board packaging
- User's and maintenance guide



Captions of wiring diagrams

- AL Condensation level alarm
- C Compressor
- F Flow meter (or thermostat on capacitor) for air filter
- FA *RC* filter (suppressor)
- M Main terminal board
- MD Electronic diagnostic module
- RT Timer relay (delay for compressor start)
- TA Anti-freezing thermostat
- TM Thermostat for maximum internal temperature
- TS Control thermostat
- VC Capacitor fan
- VE Evaporator fan
- * if it is not RT-mounted
- Optional accessory

Technical data

VZ 1000 - VZ 1450
VZ 1700 - 2100



VTAUP127

Extra-flat conditioning systems for wall or door-type (H 1510 W 480 D 115+60)

Model		VZ 1000	VZ 1450	VZ 1700	VZ 2100
Freezing Yield (DIN 3168 - L35L35)	W	1000	1450	1700	2100
Total power required	W	537	690	850	1000
Standard electric supply	V~(single phase)	230	230	230	230
Frequency	Hz	50	50	50/60	50/60
Absorbed current	starting	10,5	15,8	19	21,7
	working	3	3,8	4,3	4,7
Continuous ampere rating	A	4	6	6	6
Air evaporator capacity	m ³ /h	200	200	400	400
Capacitor air flow	m ³ /h	400	600	800	1400
Contact side protection degree		IP54	IP54	IP54	IP54
Freezing gas (standard)		R 134 A	R 134 A	R 134 A	R 134 A
Admitted environmental temperature	°C	20 ÷ 55	20 ÷ 55	20 ÷ 55	20 ÷ 55
Noise	dB(A)	63	64	66	68
Approximate weight	kg	50	52	56	60
Standard painting	RAL	orange peel 7032	orange peel 7032	orange peel 7032	orange peel 7032

VS 4433 - VS 6268



VTAUP128

Heat Exchangers (H 782 W 318 D 86) (H 1250 W 318 D)

Model		VS 4233	VS 6268
Specific power $\Delta 1^{\circ}\text{C}$ (1)	W/K	35	80
Total power required	W	150	150
Standard electric supply (single phase)	V~/Hz	230/50-60	230/50-60
Absorbed current	A	0,7	0,7
Inside circuit air flow	m ³ /h	450	500
Outside circuit air flow	m ³ /h	450	500
Protection degree		IP54	IP54
Working temperature range	°C	-5 ÷ 55	-5 ÷ 55
Noise	dB(A)	63	68
Approximate weight	kg	10	18
Standard painting	RAL	orange peel 7032	orange peel 7032

(1) Specific power for differential temperature 1° C (between inside and outside)

15W - 35W - 67W



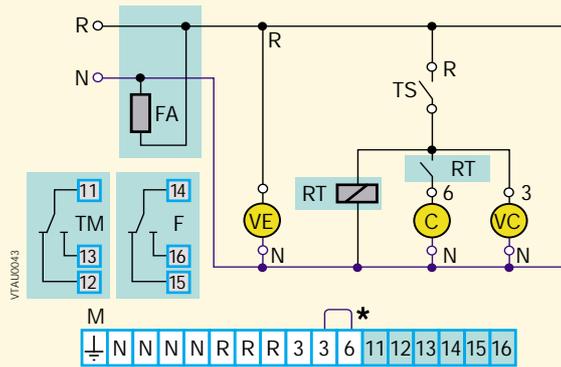
VTAUP129

Ventilators (spare parts)

Model	VF 5020		VF 5100		VF 5030		VF 5110		VF 5040		VF 5120	
For power of:	15W		15W		35W		35W		67W		67W	
Power supply (single-phase)	115		230		115		230		115		230	
Frequency	50	60	50	60	50	60	50	60	50/60	50/60	50/60	50/60
Total absorbed power	15	13	15	14	35	32	35	32	75	67	75	67
Absorbed current	250	210	120	100	380	360	190	180	680	320	680	320
Capacitor	-	-	-	-	-	-	-	-	10	2	10	2
Fan speed (RPM)	2600	2900	2600	2900	2700	3200	2700	3200	2580	2550	2580	2550
Fan (only) air flow	162	192	162	192	318	372	318	372	820	820	820	820
Noise	37	41	37	41	52	56	52	56	65	65	65	65
Working temperature	-40 ÷ 70		-40 ÷ 70		-40 ÷ 70		-40 ÷ 70		-40 ÷ 50		-40 ÷ 50	
Weight	0,55		0,55		0,76		0,76		1,3		1,3	
Dimensions	119x119x38		119x119x38		172x172x38		172x172x38		195x195x73		195x195x73	
Homologation	UL-CSA-VDE		UL-CSA-VDE		UL-CSA-VDE		UL-CSA-VDE		UL-VDE		UL-VDE	

Standard equipment

- Pre-set inside control thermostat at 35° C
- Internal terminal board
- Powder paint protection
- Easy to change polyurethane air filter
- Integral Seal IP54 between conditioning system and electrical board
- Corrugated-board packaging
- User's and maintenance guide

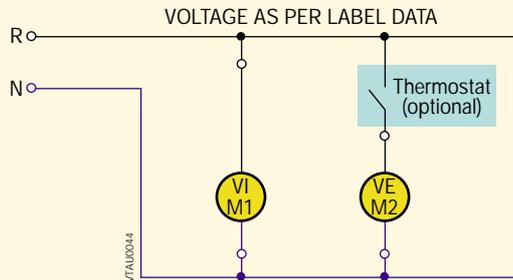


Captions of wiring diagrams

- C** Compressor
- F** Flow meter (or thermostat on capacitor) for air filter
- FA** "RC" filter (suppressor)
- M** Main terminal board
- RT** Timer relay (delay for compressor start)
- TM** Thermostat for maximum internal temperature
- TS** Control thermostat
- VC** Capacitor fan
- VE** Evaporator fan
- *** if it is not RT-mounted
- **** Only for VZ 1700 and VZ 2100
- Optional accessory

Standard equipment

- Integral Seal IP54
- Corrugated-board packaging.
- Power supply cable 3x1.5 mm² section 2 meter long



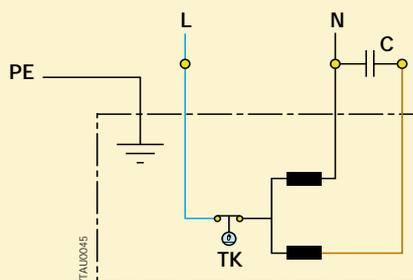
Captions of wiring diagrams

- VI** Internal fan
- VE** External fan
- Optional accessory

Standard equipment in ventilators Kit

- Grated cover
- Filter media
- Filter base
- Fan
- Fan protection
- Corrugated-board packaging

WIRING DIAGRAM FOR 67W VENTILATOR



Declaration of conformity

Conditioners and heat exchangers

ABB declares under its responsibility that conditioning systems and exchangers comply with the provisions of following standards:
89/382/EEC, 89/336/EEC, 91/368/EEC, 93/44/EEC

Reference standards: UNI EN 292, UNI EN 294, EN 50081-2, EN 50082-2, EN-55011, CEI EN 60204-1

Thermostats

ABB declares under its responsibility that thermostats for temperature adjustments comply with the following standards:
73/23/EEC, 93/68/EEC, 89/336/EEC

Reference standards: EN 50081-1, EN 50082-1, EN 60730 T1 T2-9 VDE 0631 12/83

Power supply voltage (AC)

Code	Single phase						Three-phase				
	230V 50Hz	230V 60Hz	230V 50-60Hz	110V 50Hz	115V 60Hz	110-115V 50-60Hz	400V 50Hz	415V 50Hz	460V 60Hz	380-420 50Hz	440-480V 60Hz
VS4233			std		ar						
VS6268			"		ar						
VZ1000	std	nds	8%	5%	5%	5%	nds	nds	nds	nds	nds
VZ1001	"	"	8%	5%	5%	5%	"	"	"	"	"
VZ1014	"	"	8%	5%	5%	5%	"	"	"	"	"
VZ1021	nds	"	std	dar	dar	dar	12%	12%	12%	15%	15%
VZ1055	"	"	"	5%	5%	5%	nds	nds	nds	nds	nds
VZ1066	std	"	8%	5%	5%	5%	"	"	"	"	"
VZ1080	"	"	8%	5%	5%	5%	"	"	"	"	"
VZ1085	"	"	8%	5%	5%	5%	"	"	"	"	"
VZ1450	"	"	8%	5%	5%	5%	"	"	"	"	"
VZ1451	"	"	8%	5%	5%	5%	"	"	"	"	"
VZ1651	nds	"	std	dar	dar	dar	12%	12%	12%	15%	15%
VZ1700	"	"	"	"	"	"	nds	nds	nds	nds	nds
VZ1730	"	"	"	"	"	"	12%	12%	12%	15%	15%
VZ2100	"	"	"	"	"	"	12%	12%	12%	15%	15%
VZ6501	std	"	8%	5%	5%	5%	nds	nds	nds	nds	nds

ar = on request without price increase

dar = available on request

n% = available with price increased of %, delivery to be defined

nds = not available

std = standard version

Spare parts

VE5370	Grey fan holder for 15W ventilator	VF 5100	Ventilator 15 W 230 V AC 50/60 Hz
VE5570	Grey fan holder for 35W ventilator	VF 5110	Ventilator 35 W 230 V AC 50/60 Hz
VC 5340N	Grated cover black 250 x 250 mm (H x W)	VF 5120	Ventilator 67 W 230 V AC 50/60 Hz
VC 5340	Grated cover 320 x 320 mm (H x W)	VF 5350	Filter cloth 120 x 120 mm (H x W)
VC 5340N	Black grated cover 320 x 320 mm (H x W)	VF 5550	Filter cloth 250 x 250 mm (H x W)
VF 5020	Ventilator 15 W 115 V AC 50/60 Hz	VF 5650	Filter cloth 320 x 320 mm (H x W)
VF 5030	Ventilator 35 W 115 V AC 50/60 Hz	VG 5000	Iron strainer 400 x 500 (H x W) for double ventil. tabs
VF 5040	Ventilator 67 W 115 V AC 50/60 Hz	VG 5010	Iron strainer 250 x 250 (H x W) for ventilation tabs

Index

IS Cabinets

Basic version/Blind or glazed door	6/2
Inner plates/Dimensions for floor fixing	6/3
FO2, FO4 versions/FV2, FV4, FV5 versions	6/4
VC2, VC4 versions/PC version	6/5
L version/LV version	6/6
19" Rack frame/19" Rack front frame	6/7
PM versions/MF2, MF4 versions	6/8
Cell composition for PM and MF versions	6/9
Inner counterdoor/MD modular system	6/10
Modular panels	6/11

AM Boards

Basic version/Blind or glazed door	6/12
Inner plates/Dimensions for floor fixing/Drilling template for wall mounting	6/13
FV4, FV5 versions/MD modular system	6/14
Modular panels	6/15
Inner counterdoor/19" Rack frame	6/16

C Consoles

Dimensions for floor fixing/CU-CN series consoles	6/17
CM series consoles	6/18
CA-CD series consoles	6/19

SR Enclosures

Basic version	6/20
Dimensions for wall fixing/Inner counterdoors/Inner plates	6/21

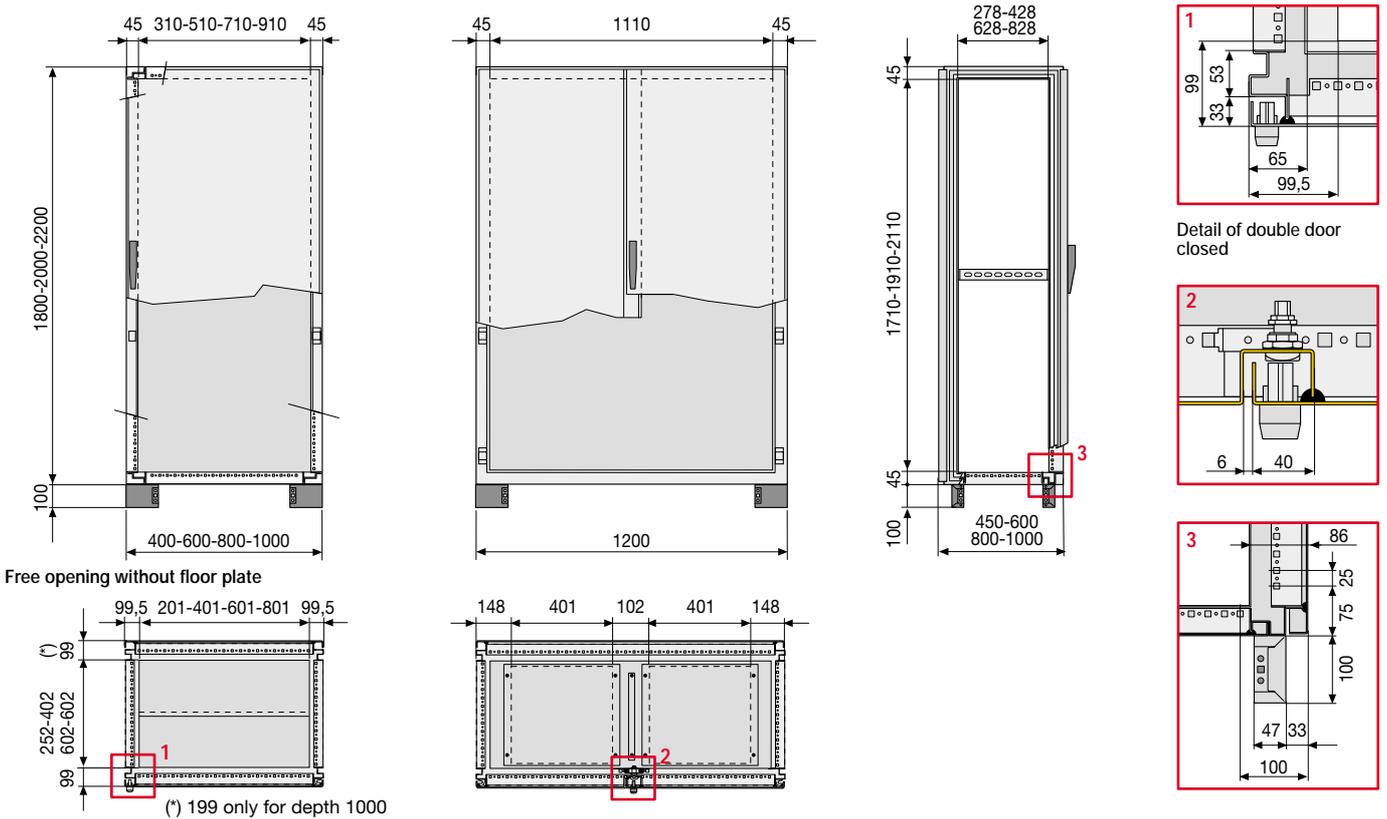
Air conditioning

Air filter kit/Aeration hood	6/22
Ventilation kit with fan	6/23
Wall-type conditioners	6/24
Extra-flat conditioners for wall or door-type	6/25
Roof-type conditioners	6/25
Heat exchangers	6/26

Overall dimensions

IS Cabinets

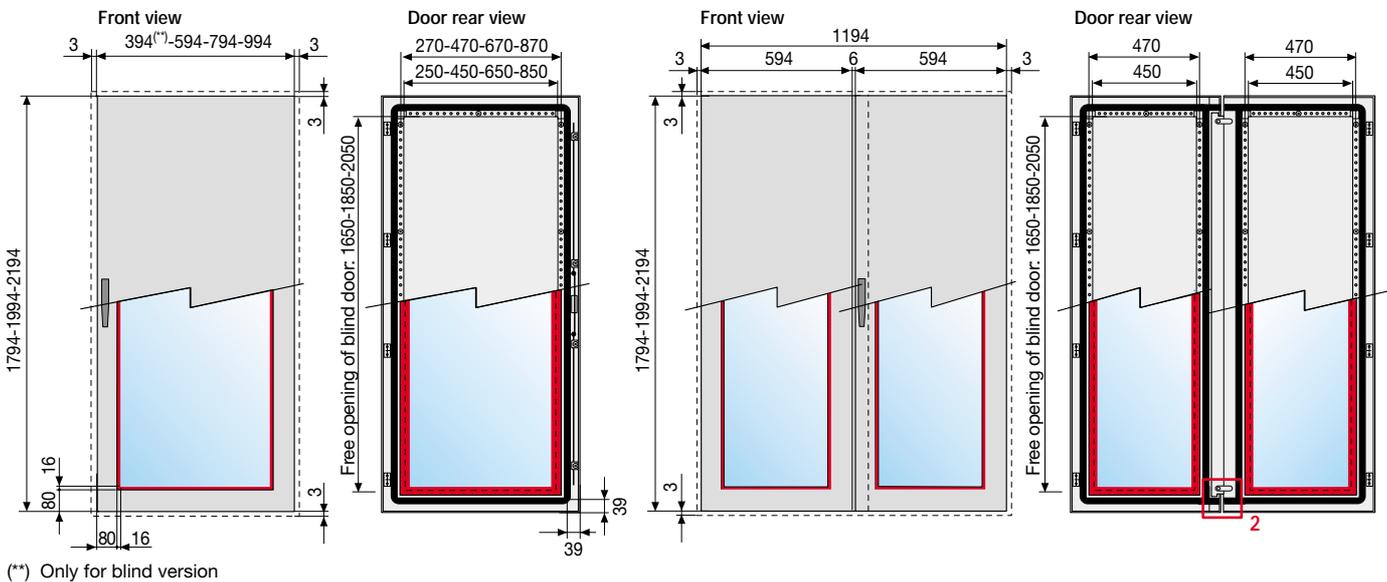
Basic version



Blind or glazed door

Tempered and silk-screen printed crystal (4 mm thickness) according to UNI 7142 standards

Cabinets, width 1200 mm Double door

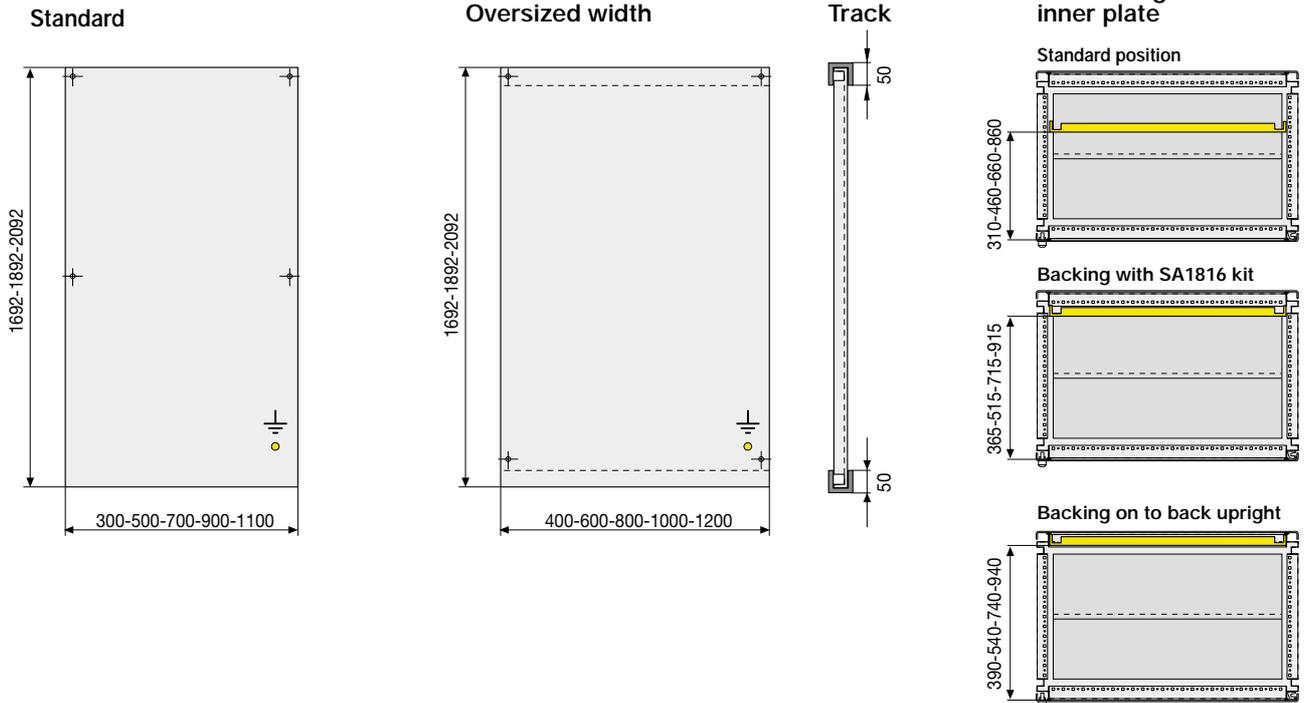


All dimensions are shown in millimetres

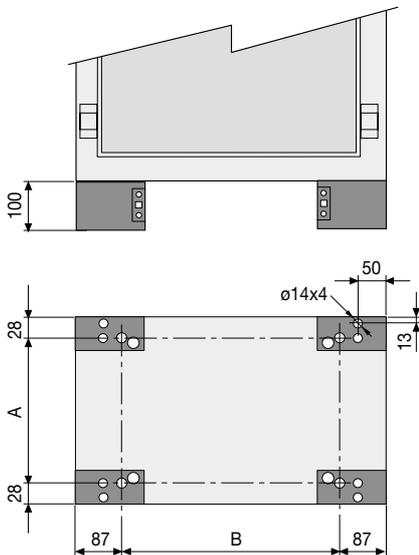
Overall dimensions

IS Cabinets

Inner plates



Dimensions for floor fixing



A	B	For cabinets size wxd
329	426	600x450
479	426	600x600
679	426	600x800
879	426	600x1000
329	626	800x450
479	626	800x600
679	626	800x800
879	626	800x1000
329	826	1000x450
479	826	1000x600
679	826	1000x800
879	826	1000x1000
329	1026	1200x450
479	1026	1200x600
679	1026	1200x800
879	1026	1200x1000

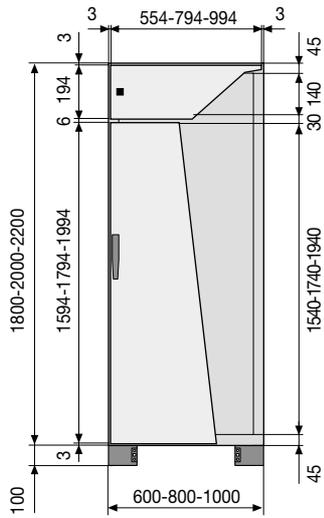
All dimensions are shown in millimetres

Overall dimensions

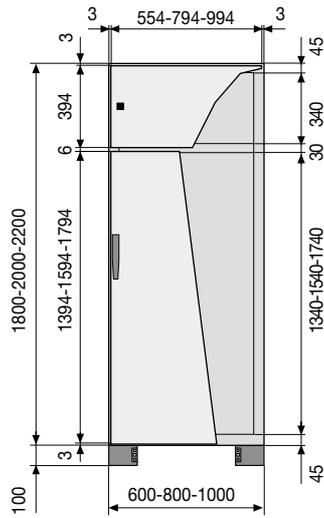
IS Cabinets

FO2, FO4 versions

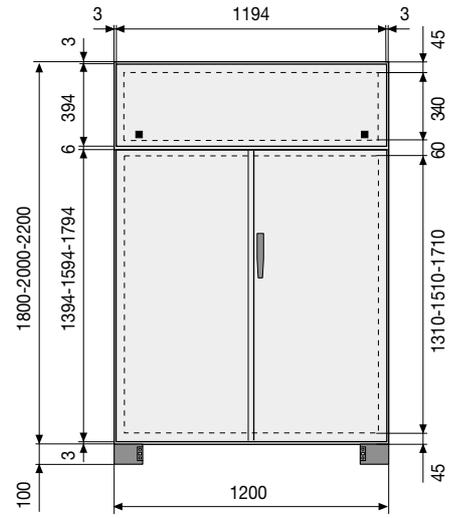
FO2



FO4

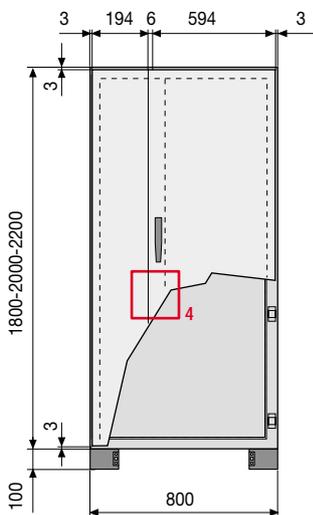


FO4

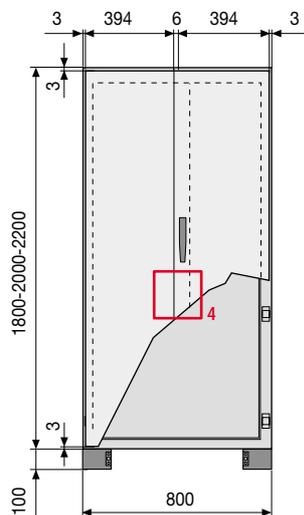


FV2, FV4, FV5 versions

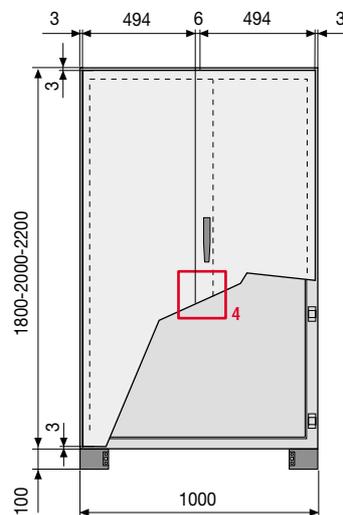
FV2



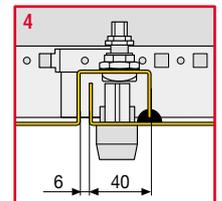
FV4



FV5



Detail of closed double door



VFAL0034P

All dimensions are shown in millimetres

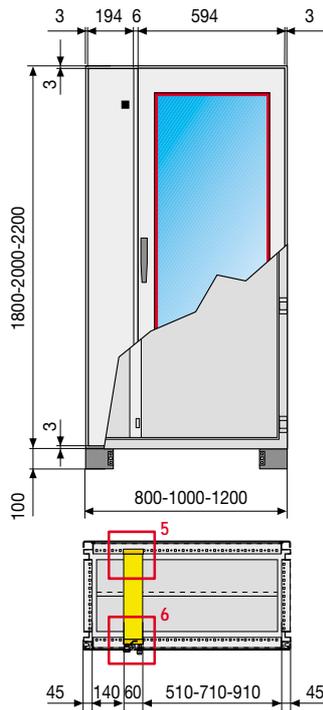
Overall dimensions

IS Cabinets

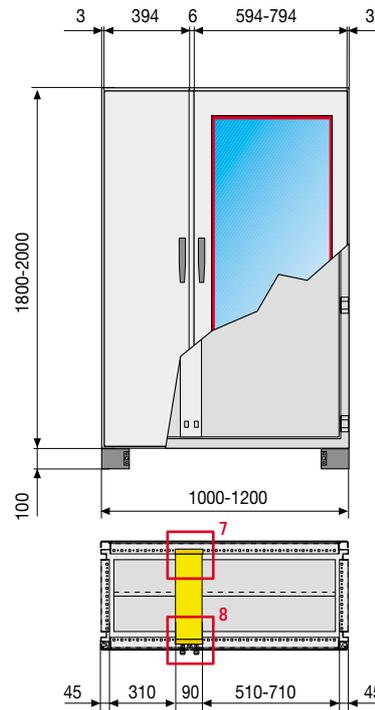
VC2, VC4 versions

Tempered and silk-screen printed crystal
(4 mm thickness) according to UNI 7142 standards

VC2

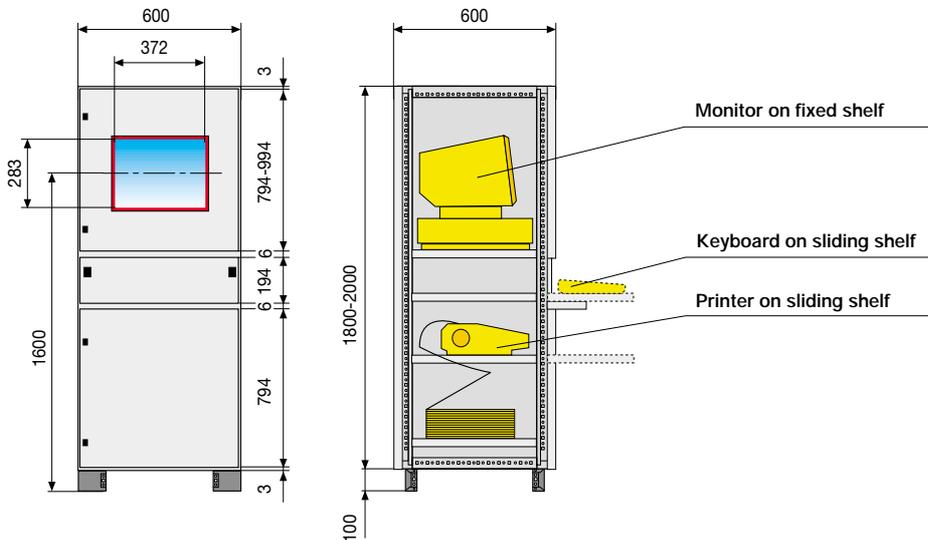


VC4



PC version

Tempered and silk-screen printed crystal
(4 mm thickness) according to UNI 7142 standards



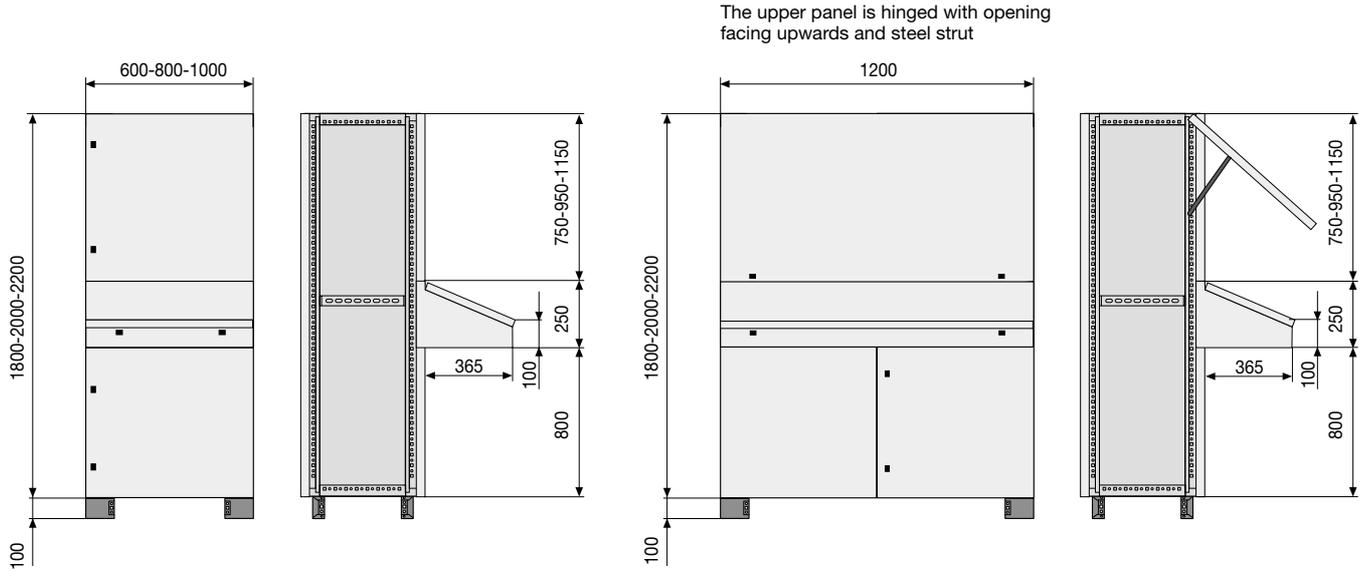
VF140350

All dimensions are shown in millimetres

Overall dimensions

IS Cabinets

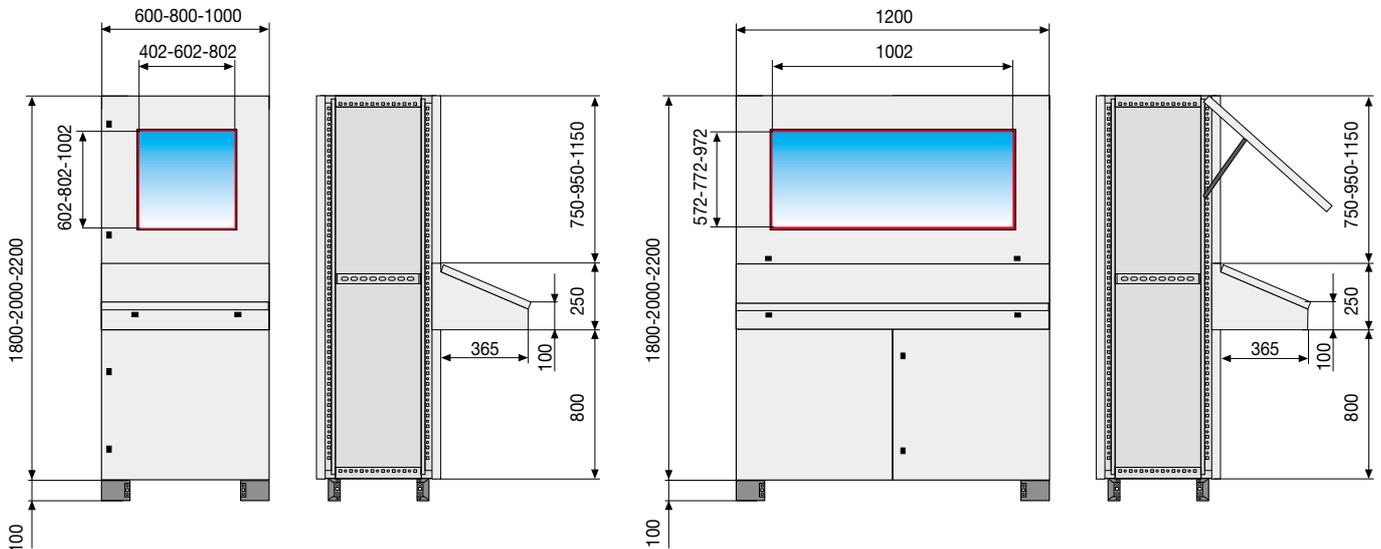
L version



LV version

Tempered and silk-screen printed crystal
(4 mm thickness) according to UNI 7142 standards

The upper panel is hinged with opening facing upwards and steel strut

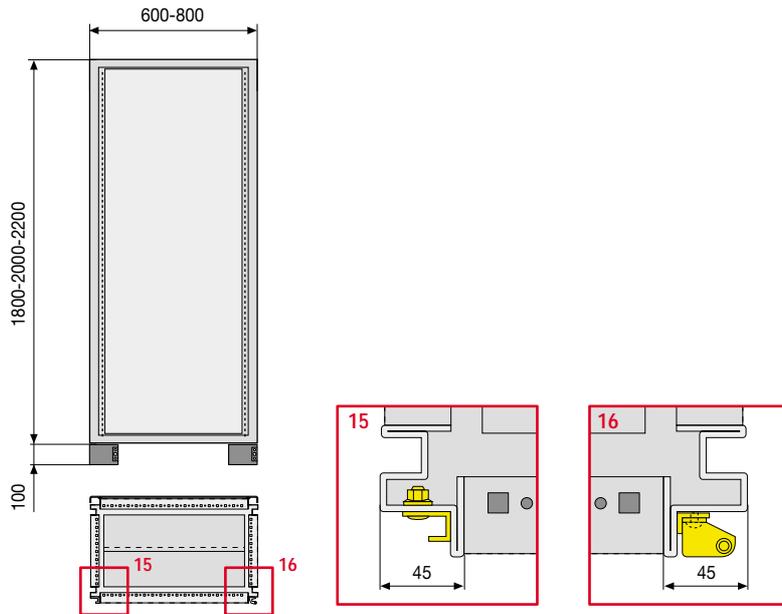


All dimensions are shown in millimetres

Overall dimensions

IS Cabinets

PM version

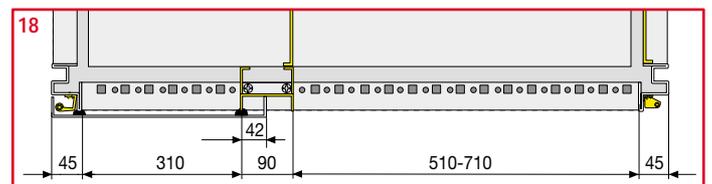
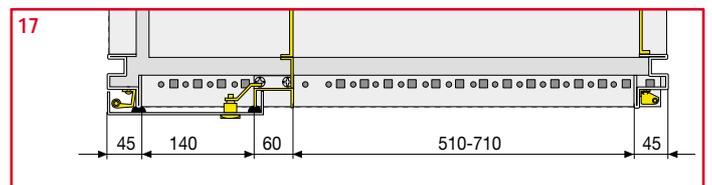
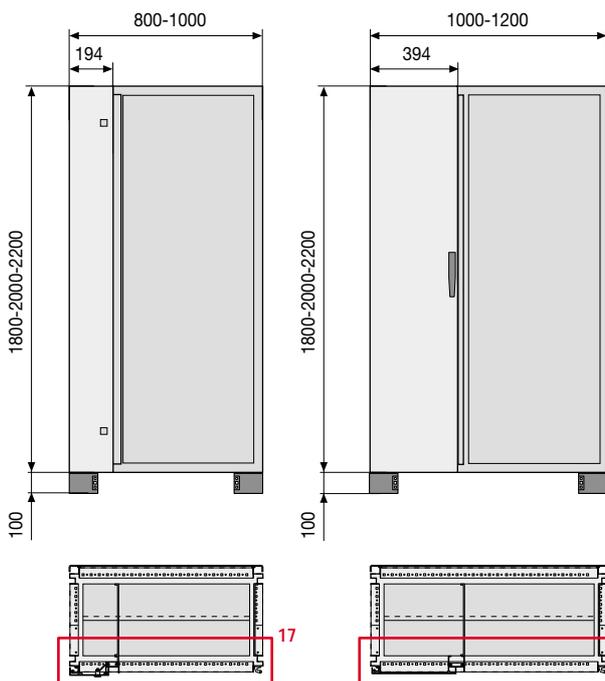


6

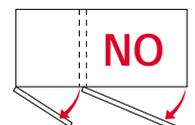
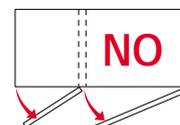
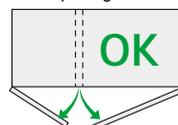
MF2, MF4 version

MF2

MF4



Correct mounting of door opening



VFAU0053

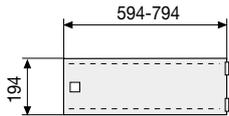
All dimensions are shown in millimetres

Overall dimensions

IS Cabinets

Cell composition for PM and MF versions

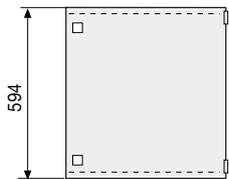
Doors



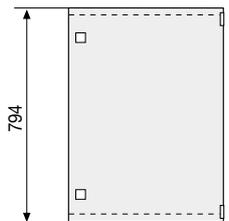
Code
PR 2068
PR 2088



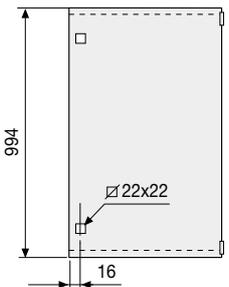
Code
PR 4060
PR 4080



Code
PR 6060
PR 6080

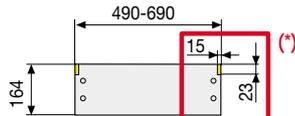


Code
PR 8068
PR 8080

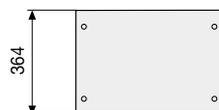


Code
PR 1068
PR 1088

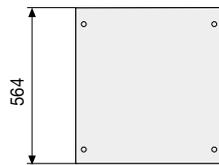
Inner plates



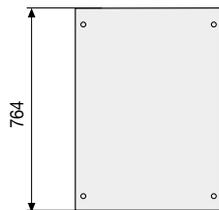
Code
PF 3393
PF 3472



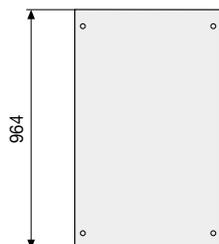
Code
PF 3397
PF 3476



Code
PF 3401
PF 3483

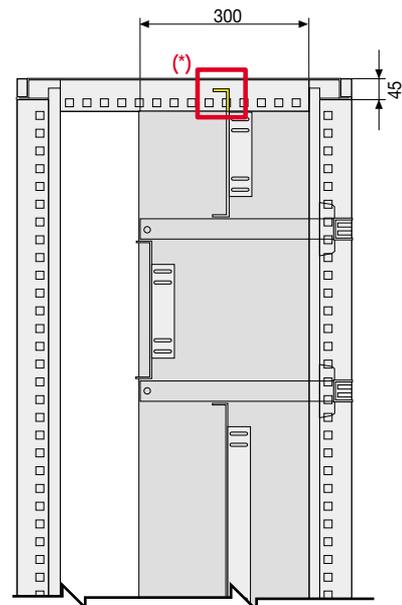
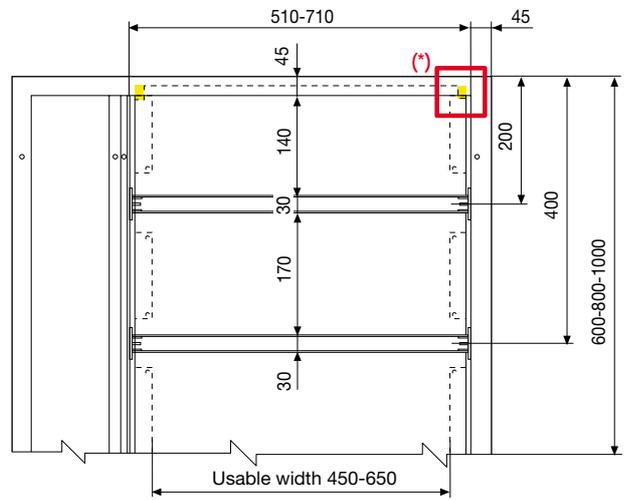


Code
PF 3408
PF 3487



Code
PF 3426
PF 3559

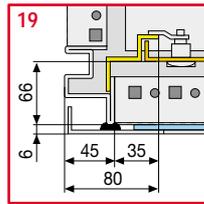
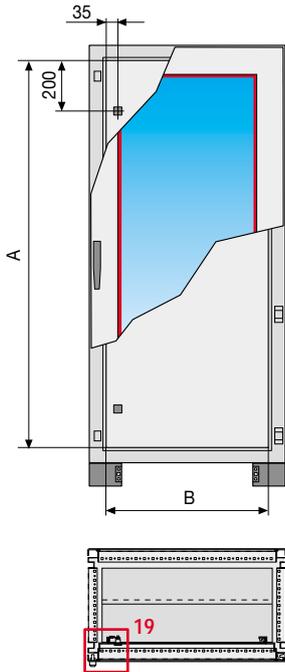
(* Removing must be executed only on plates to be placed on cabinet top



Overall dimensions

IS Cabinets

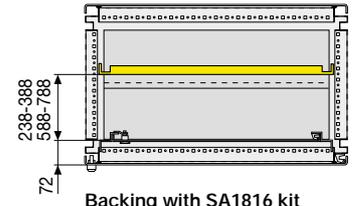
Inner counterdoor



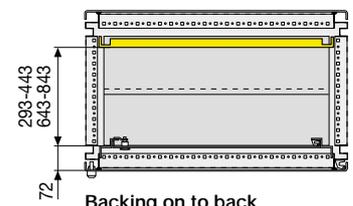
Code	A	B	For cabinets (hxl)
CP 1860	1700	460	1800x600
CP 1880	1700	660	1800x800
CP 1810	1700	860	1800x1000
CP 1812	1675	527x2	1800x1200
CP 2060	1900	460	2000x600
CP 2080	1900	660	2000x800
CP 2010	1900	860	2000x1000
CP 2012	1875	527x2	2000x1200
CP 2260	2100	460	2200x600
CP 2280	2100	660	2200x800
CP 2210	2100	860	2200x1000
CP 2212	2075	527x2	2200x1200

Positioning of inner plate

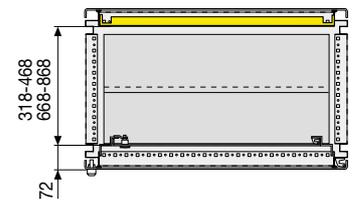
Standard position



Backing with SA1816 kit

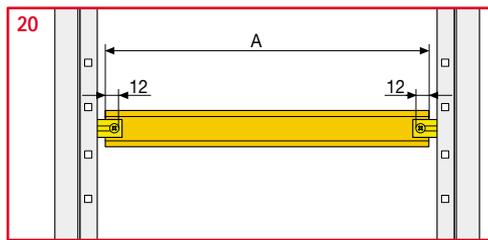
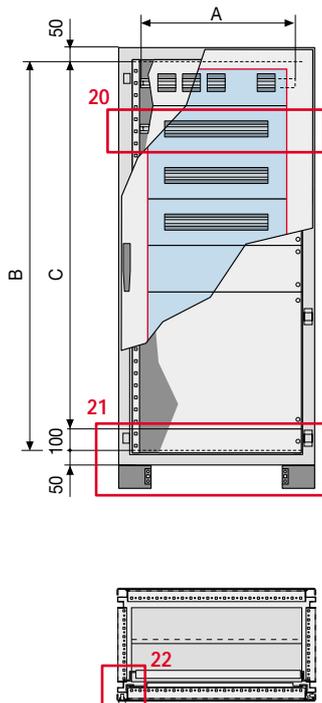


Backing on to back upright

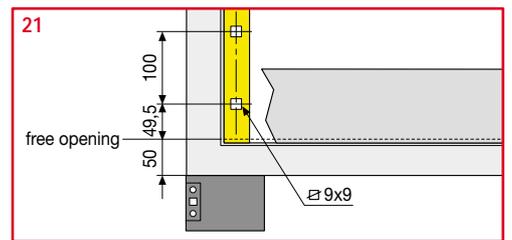


6

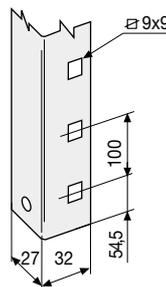
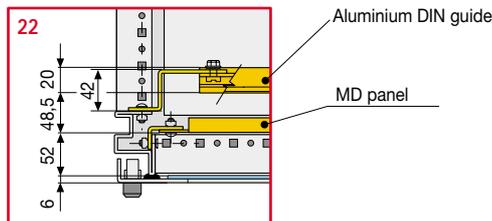
MD Modular system



DIN rail kit	A	For cabinets (h)
MD 7346	465	600
MD 7348	665	800



2 uprights for modular panels	B	C	For cabinets (h)
MD 1808	1700	1600	1800
MD 2008	1900	1800	2000
MD 2208	2100	2000	2200



YFAU0055

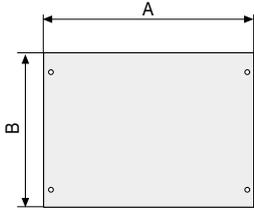
All dimensions are shown in millimetres

Overall dimensions

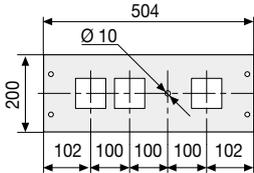
IS Cabinets

Modular panels for 600/800 mm wide

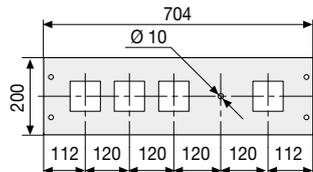
Fixed front panels



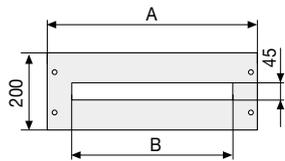
Code	A	B	For cabinets width
MD 3620	504	200	600
MD 3623	504	400	600
MD 3625	504	600	600
MD 3690	704	200	800
MD 3693	704	400	800
MD 3695	704	600	800



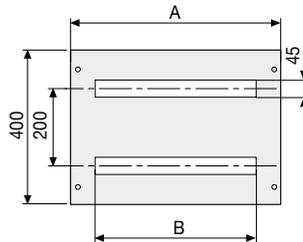
Code	For cabinets width	
MD 3621	3 instrum. 72x72	600
MD 3629	3 instrum. 96x96	600



Code	For cabinets width	
MD 3691	4 instrum. 72x72	800
MD 3699	4 instrum. 96x96	800

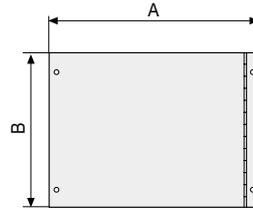


Code	A	B	For cabinets width
MD 3622	504	422	600
MD 3692	704	615	800

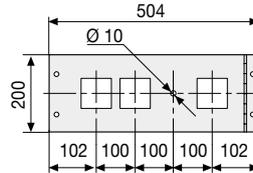


Code	A	B	For cabinets width
MD 3624	504	422	600
MD 3694	704	615	800

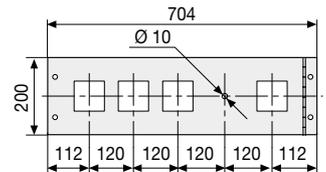
Hinged front panels



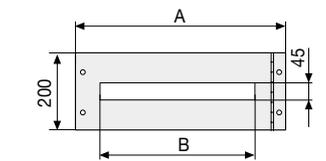
Code	A	B	For cabinets width
MD 3660	504	200	600
MD 3663	504	400	600
MD 3665	504	600	600
MD 3720	704	200	800
MD 3723	704	400	800
MD 3725	704	600	800



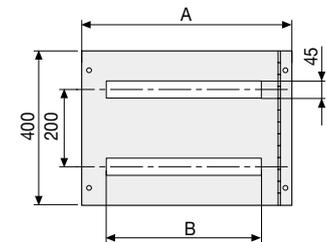
Code	For cabinets width	
MD 3661	3 instrum. 72x72	600



Code	For cabinets width	
MD 3721	4 instrum. 72x72	800
MD 3729	4 instrum. 96x96	800

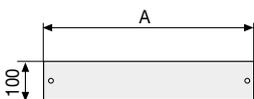


Code	A	B	For cabinets width
MD 3662	504	404	600
MD 3722	704	598	800



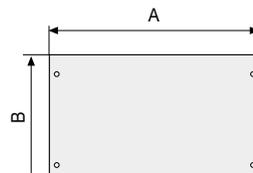
Code	A	B	For cabinets width
MD 3664	504	404	600
MD 3724	704	598	800

Dummy panel



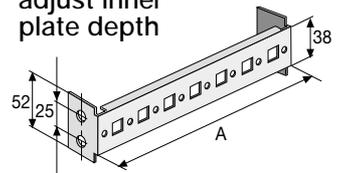
Code	A	For cabinets width
MD 3627	504	600
MD 3697	704	800

Inner plates



Code	A	B	For cabinets width
PF 3393	490	164	600
PF 3397	490	364	600
PF 3401	490	564	600
PF 3472	690	164	800
PF 3476	690	364	800
PF 3483	690	564	800

Side crosspiece to adjust inner plate depth



Code	A	For cabinets depth
TS 3174	276	450
TS 3176	426	600
TS 3178	626	800

package contains 4 crosspieces

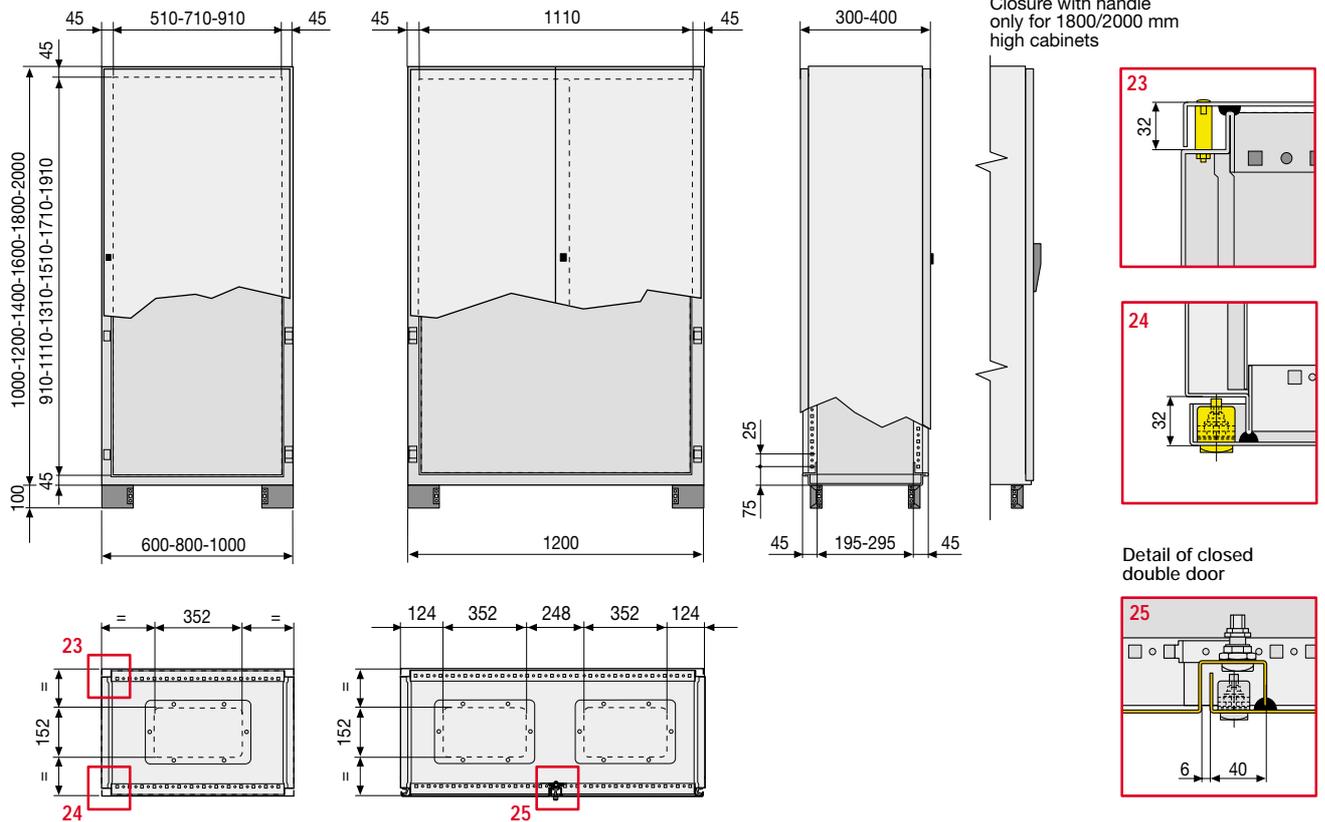
VF7A0056

All dimensions are shown in millimetres

Overall dimensions

AM Boards

Basic version

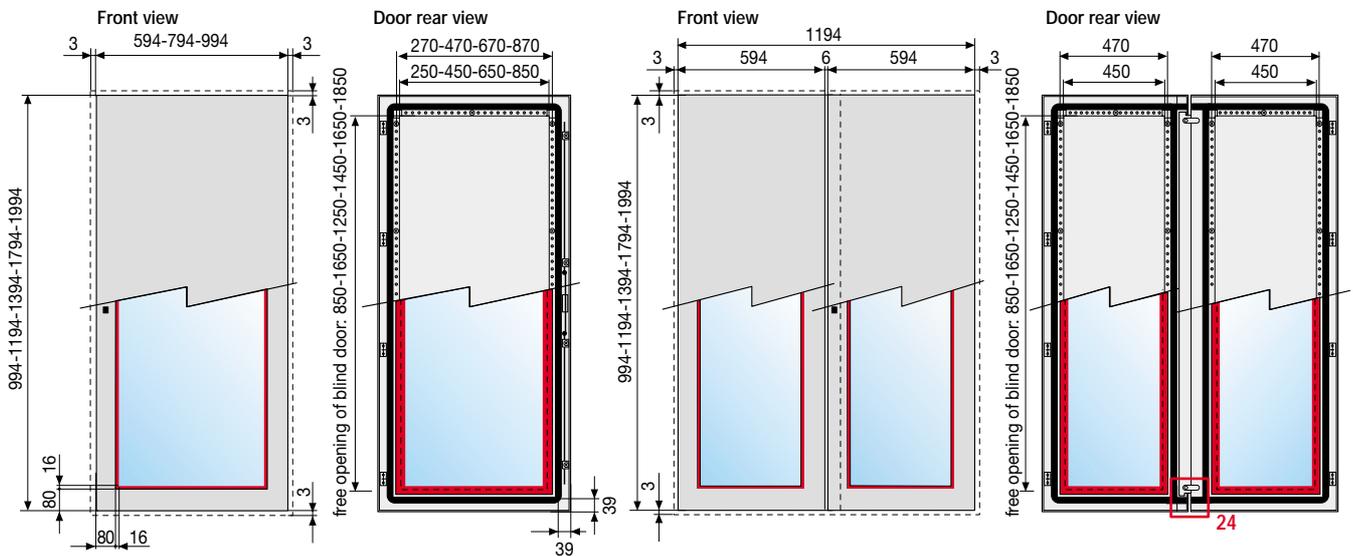


Blind or glazed door

Tempered and silk-screen printed crystal (4 mm thickness) according to UNI 7142 standards

Boards, width 1200 mm

Double door



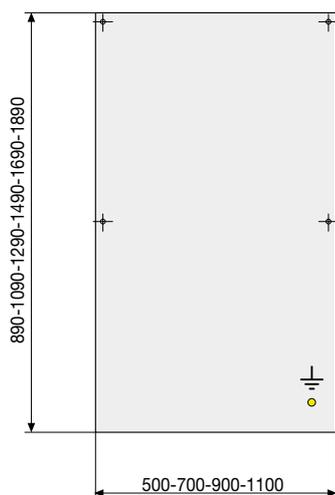
VFA00257

All dimensions are shown in millimetres

Overall dimensions

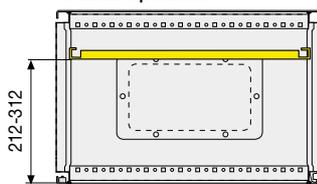
AM Boards

Inner plates

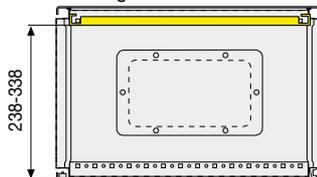


Positioning of inner plate

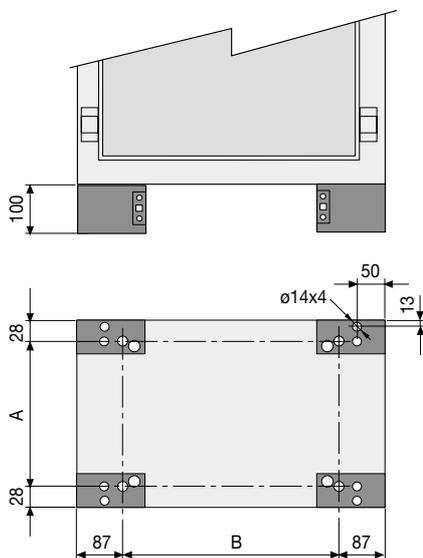
Standard position



Backing

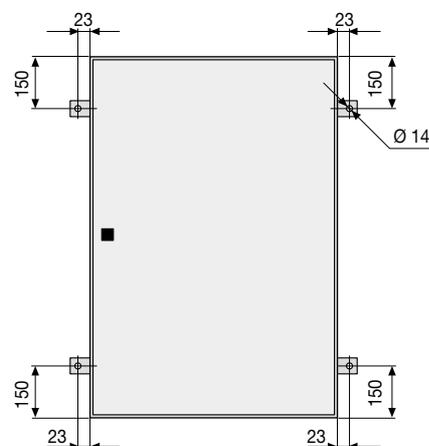


Dimensions for floor fixing



A	B	For cabinet wxd
181	426	600x300
181	626	800x300
181	826	1000x300
181	1026	1200x300
281	426	600x400
281	626	800x400
281	826	1000x400
281	1026	1200x400

Drilling template for wall mounting



Code

AA 1209

VFAU005B

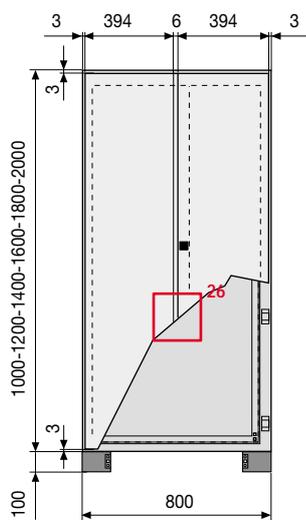
All dimensions are shown in millimetres

Overall dimensions

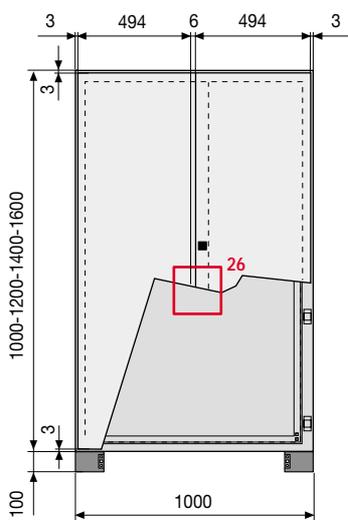
AM Boards

FV4, FV5 version

FV4



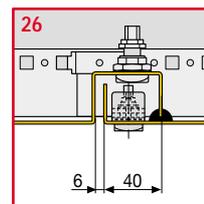
FV5



Closure with handle only for 1800/2000 mm high cabinets

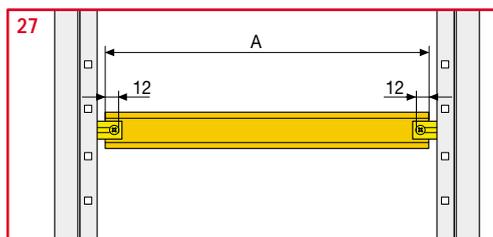
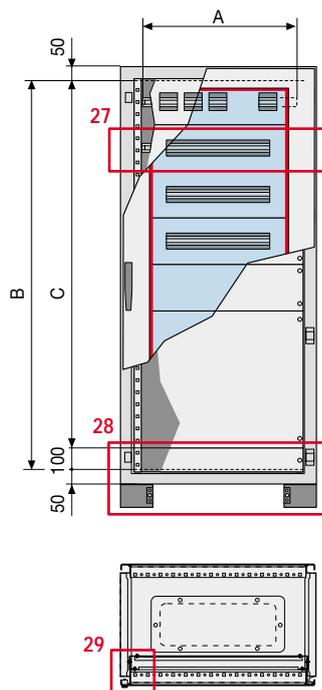


Detail of closed double door

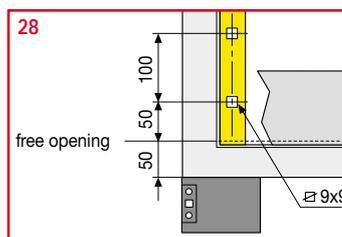


6

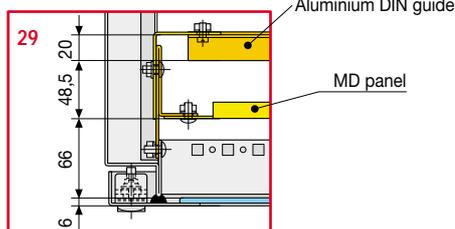
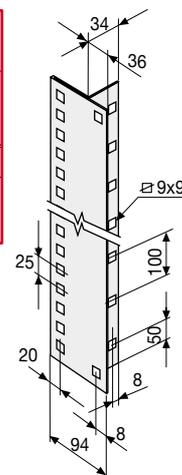
MD modular system



DIN rail kit	A	For cabinets (h)
MD 7336	465	600
MD 7338	665	800



2 uprights for modular panels	B	C	For cabinets (h)
MD 1007	900	800	1000
MD 1207	1100	1000	1200
MD 1407	1300	1200	1400
MD 1607	1500	1400	1600
MD 1807	1700	1600	1800
MD 2007	1900	1800	2000



VFAL0059

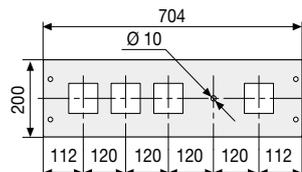
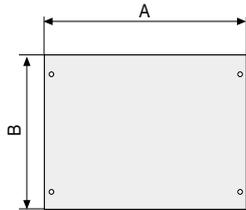
All dimensions are shown in millimetres

Overall dimensions

AM Boards

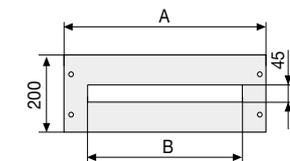
Modular panels for 600/800 mm wide boards

Fixed front panels

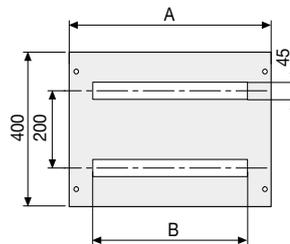


Code	A	B	For cabinets width
MD 3620	504	200	600
MD 3623	504	400	600
MD 3625	504	600	600
MD 3690	704	200	800
MD 3693	704	400	800
MD 3695	704	600	800

Code			For cabinets width
MD 3691	4 instrum.	72x72	800
MD 3699	4 instrum.	96x96	800

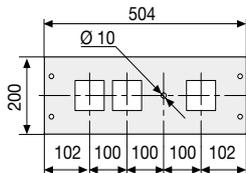


Code	A	B	For cabinets width
MD 3622	504	422	600
MD 3692	704	615	800

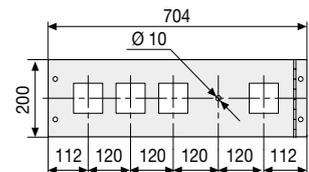
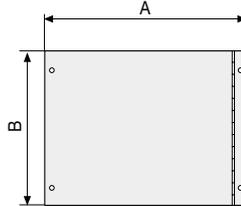


Code	A	B	For cabinets width
MD 3624	504	422	600
MD 3694	704	615	800

Code			For cabinets width
MD 3621	3 instrum.	72x72	600
MD 3629	3 instrum.	96x96	600

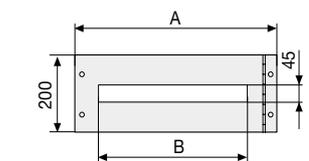


Hinged front panels

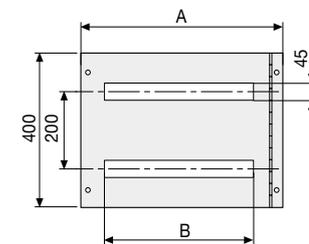


Code	A	B	For cabinets width
MD 3660	504	200	600
MD 3663	504	400	600
MD 3665	504	600	600
MD 3720	704	200	800
MD 3723	704	400	800
MD 3725	704	600	800

Code			For cabinets width
MD 3721	4 instrum.	72x72	800
MD 3729	4 instrum.	96x96	800

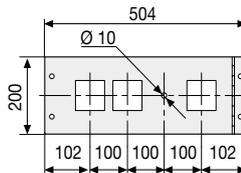


Code	A	B	For cabinets width
MD 3662	504	404	600
MD 3722	704	598	800

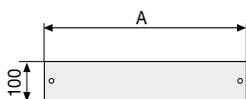


Code	A	B	For cabinets width
MD 3664	504	404	600
MD 3724	704	598	800

Code			For cabinets width
MD 3661	3 instrum.	72x72	600

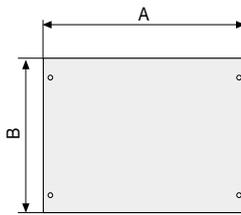


Dummy panel



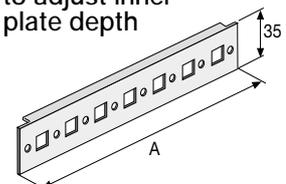
Code	A	For cabinets width
MD 3627	504	600
MD 3697	704	800

Inner plates



Code	A	B	For cabinets width
PF 3393	490	164	600
PF 3397	490	364	600
PF 3401	490	564	600
PF 3472	690	164	800
PF 3476	690	364	800
PF 3483	690	564	800

Side crosspiece to adjust inner plate depth



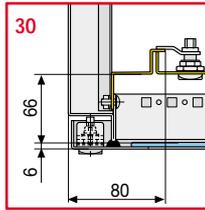
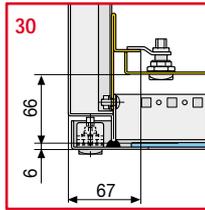
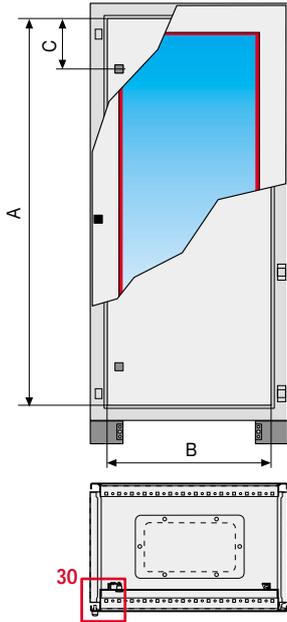
Code	A	For cabinets depth
TS 7185	227	300
TS 7190	327	400

Package contains 4 crosspieces

Overall dimensions

AM Boards

Inner counterdoor

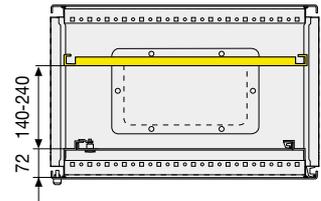


Code	A	B	C	For cabinets (h x w)
CP 1060	900	492	450	1000x600
CP 1080	900	692	450	1000x800
CP 1010	900	892	450	1000x1000
CP 1012	900	544x2	450	1000x1200
CP 1260	1100	492	550	1200x600
CP 1280	1100	692	550	1200x800
CP 1210	1100	892	550	1200x1000
CP 1212	1100	544x2	550	1200x1200
CP 1460	1300	492	110	1400x600
CP 1480	1300	692	110	1400x800
CP 1410	1300	892	110	1400x1000
CP 1412	1300	544x2	110	1400x1200
CP 1660	1500	492	110	1600x600
CP 1680	1500	692	110	1600x800
CP 1610	1500	892	110	1600x1000
CP 1612	1500	544x2	110	1600x1200

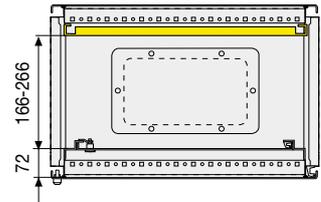
Code	A	B	C	For cabinets (h x w)
CP 1860	1700	460	200	1800x600
CP 1880	1700	660	200	1800x800
CP 2060	1900	460	200	2000x600
CP 2080	1900	660	200	2000x800

Positioning of inner plate

Standard position



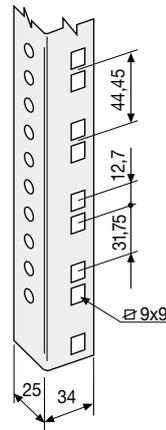
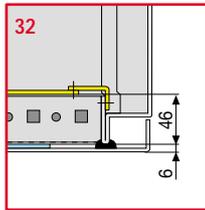
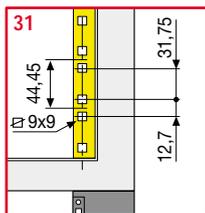
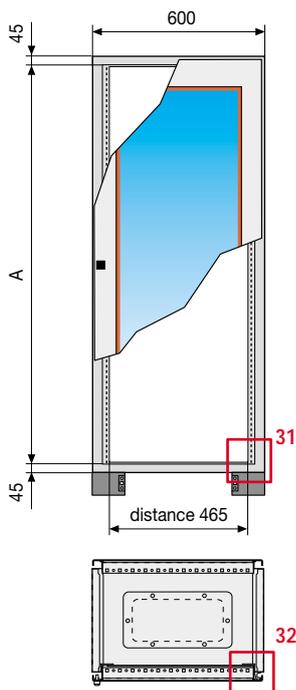
Backing on to upright with standard accessories for h=1000-1600
With MA 1818 kit only for h=1800-2000



6

19" Rack frame

Fixed frame



Code	Unit of height	A	For cabinets (h)
RK 1000	20 HE	909	1000
RK 1200	25 HE	1109	1200
RK 1400	29 HE	1309	1400
RK 1600	34 HE	1509	1600
RK 1800	38 HE	1709	1800
RK 2000	43 HE	1909	2000

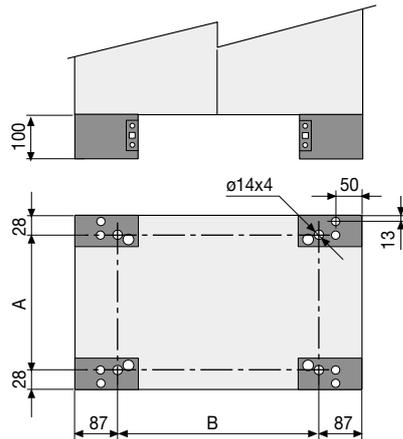
VFAU0061

All dimensions are shown in millimetres

Overall dimensions

C Consoles

Dimensions for floor fixing



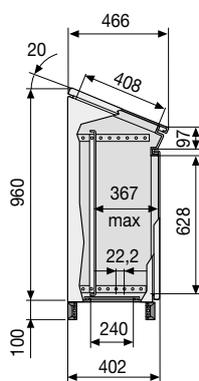
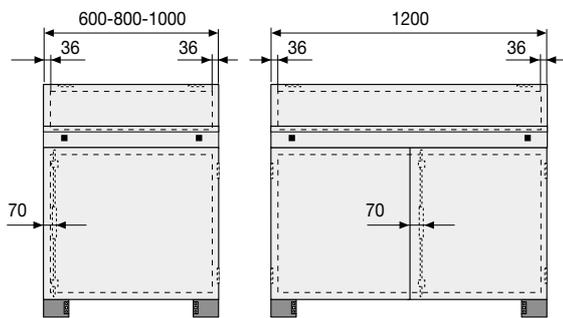
CD-CM series depth 514mm

For consoles size (wxd)	A	B
800x514	423	626
1000x514	423	826
1200x514	423	1026
1600x514	423	1426

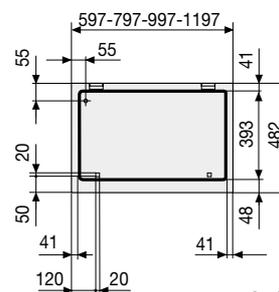
CA-CN-CM-CU series depth 419

For consoles size (wxd)	A	B
600x400	329	426
800x400	329	626
1000x400	329	826
1200x400	329	1026
1600x400	329	1426

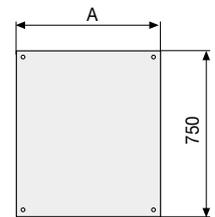
Monobloc CU series



Desk door

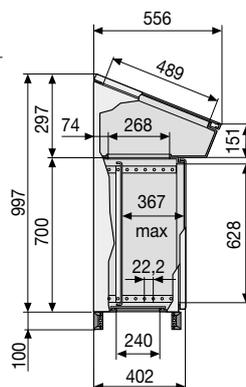
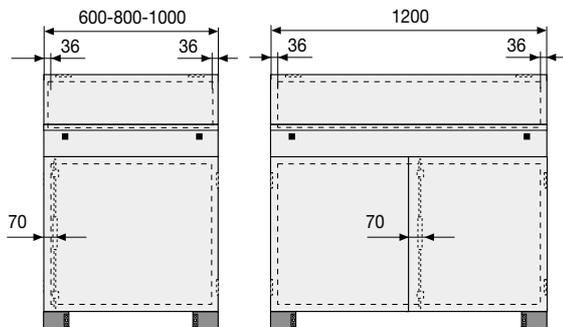


Mounting plate for base

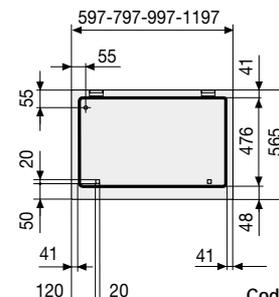


Code	A
Mounting plate for base	A
PF 6346	500
PF 6348	700
PF 6350	900
PF 6352	1100

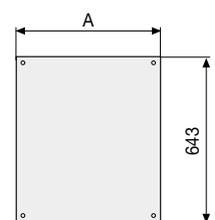
Modular CN series



Desk door



Mounting plate for base



Code	A
Mounting plate for base	A
PF 6256	500
PF 6258	700
PF 6260	900
PF 6262	1100

VF140362

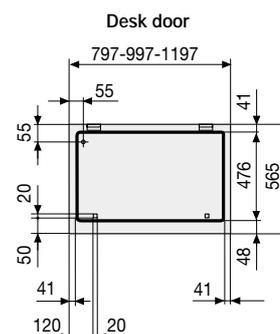
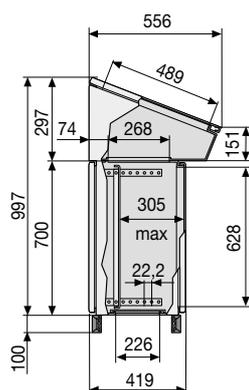
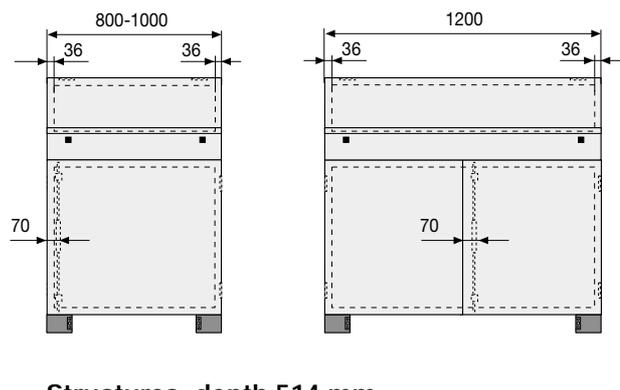
All dimensions are shown in millimetres

Overall dimensions

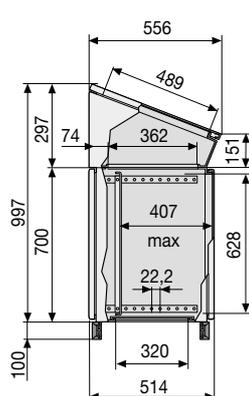
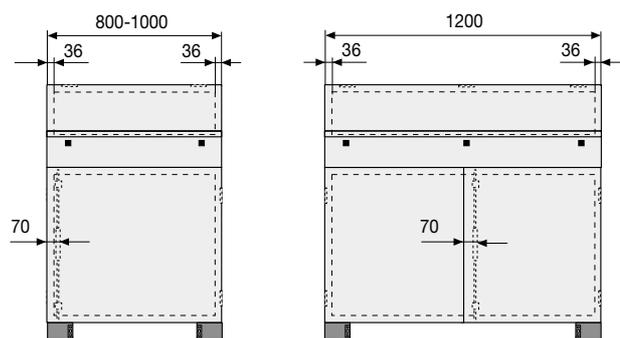
C Consoles

Modular CM series

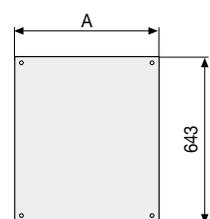
Structures, depth 419 mm



Structures, depth 514 mm



Mounting plate for base

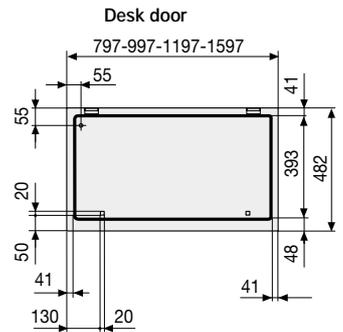
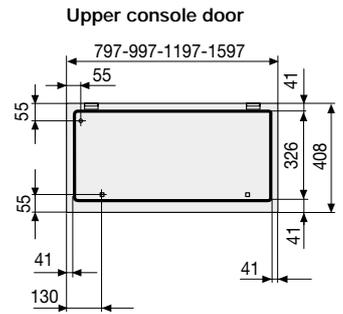
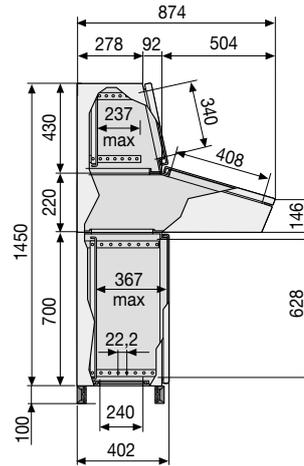
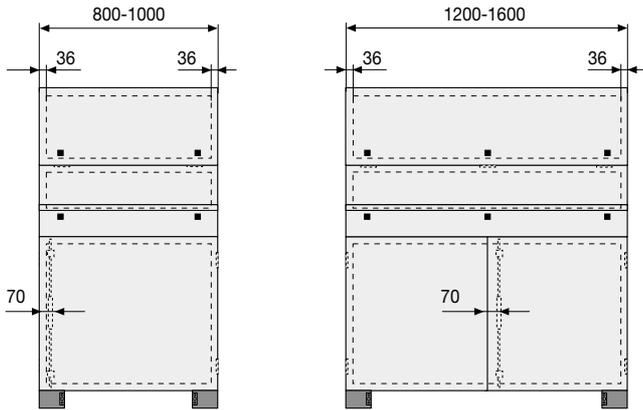


Code	A
PF 6258	700
PF 6260	900
PF 6262	1100

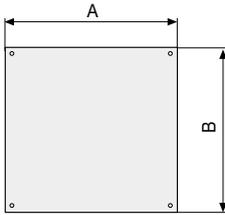
Overall dimensions

C Consoles

Modular CA series



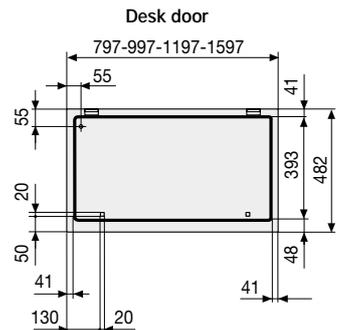
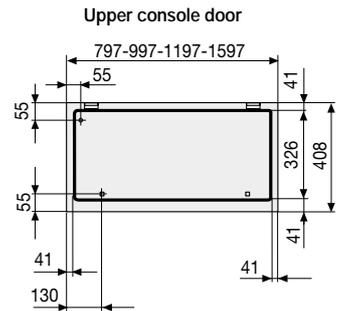
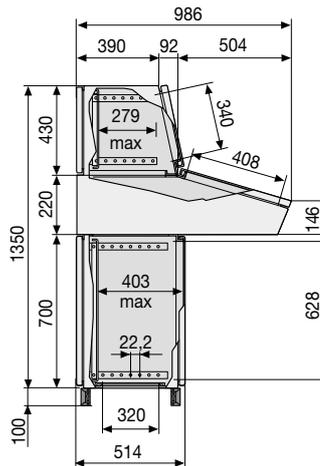
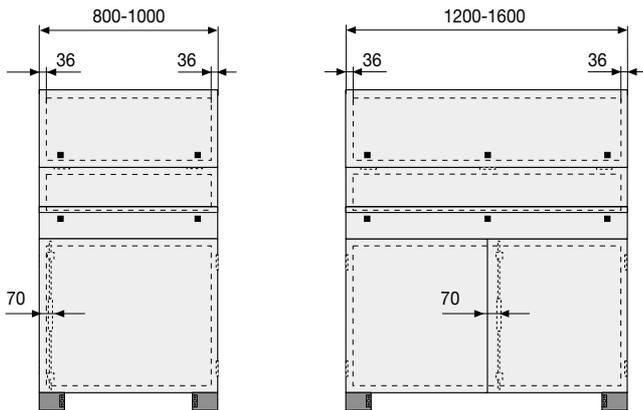
Mounting plate for base and upper console



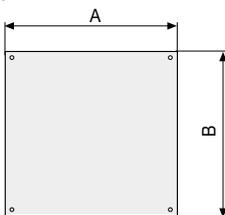
Code	A	B
PF 6258	700	643
PF 6260	900	643
PF 6262	1100	643
PF 6266	1500	643

Code	A	B
PF 6278	700	332
PF 6280	900	332
PF 6282	1100	332
PF 6286	1500	332

Modular CD series



Mounting plate for base and upper console



Code	A	B
PF 6258	700	643
PF 6260	900	643
PF 6262	1100	643
PF 6266	1500	643

Code	A	B
PF 6278	700	332
PF 6280	900	332
PF 6282	1100	332
PF 6286	1500	332

VF1402664

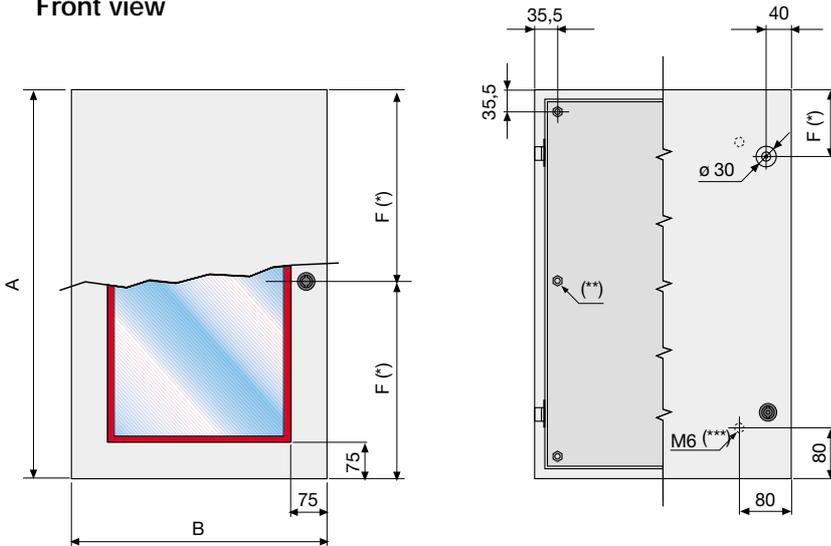
All dimensions are shown in millimetres

Overall dimensions

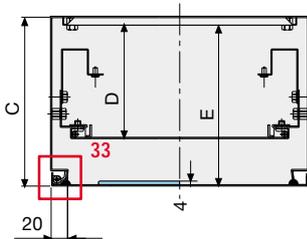
SR Enclosures

Basic version

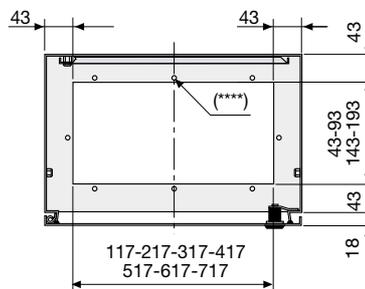
Front view



Modular panels and inner counterdoor



Cable passage flange



(*) Locks (F dimension)

Central, for enclosures with h = from 303 to 503 mm (1 off)
 For enclosures with h = from 603 to 703 mm (F=100 mm) (2 off)
 For enclosures with h = from 803 to 1203 mm (F=150 mm) (2 off)

(**) Copper plated nut

only for enclosures with h = from 1003 to 1203 mm

(***) Copper plated nut on the door

For enclosures with h = from 303 to 503 mm (1 off)
 For enclosures with h = from 603 to 803 mm (4 off)
 For enclosures with h = from 1003 to 1203 mm (6 off)

(****) Flange assembling holes

For enclosures with l = 203 mm (4 off)
 For enclosures with l = from 303 to 403 mm (6 off)
 For enclosures with l = from 503 to 1203 mm (8 off)

	A	B	C	D	E	F (*)	G	H	I	L
SR 3215	303	203	147	82	133,5	151,5	163	337	237	263
SR 3315	303	303	147	82	133,5	151,5	263	337	337	263
SR 3415	303	403	147	82	133,5	151,5	363	337	437	263
SR 4315	403	303	147	82	133,5	201,5	263	437	337	363
SR 4320	403	303	197	132	183,5	201,5	263	437	337	363
SR 4420	403	403	197	132	183,5	201,5	363	437	437	363
SR 4620	403	603	197	132	183,5	201,5	563	437	637	363
SR 5320	503	303	197	132	183,5	251,5	263	537	337	463
SR 5420	503	403	197	132	183,5	251,5	363	537	437	463
SR 5425	503	403	247	182	233,5	251,5	363	537	437	463
SR 6420	603	403	197	132	183,5	100	363	637	437	563
SR 6425	603	403	247	182	233,5	100	363	637	437	563
SR 6625	603	603	247	182	233,5	100	563	637	637	563
SR 7520	703	503	197	132	183,5	100	463	737	537	663
SR 7525	703	503	247	182	233,5	100	463	737	537	663
SR 8625	803	603	247	182	233,5	150	563	837	637	763
SR 8630	803	603	297	232	283,5	150	563	837	637	763
SR 8830	803	803	297	232	283,5	150	763	837	837	763

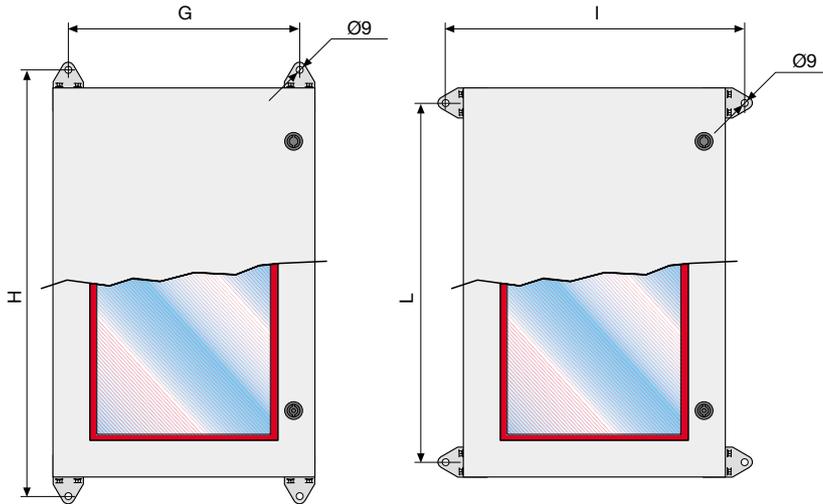
	A	B	C	D	E	F (*)	G	H	I	L
SR 10625	1003	603	247	182	233,5	150	563	1037	637	963
SR 10630	1003	603	297	232	283,5	150	563	1037	637	963
SR 10830	1003	803	297	232	283,5	150	763	1037	837	963
SR 12630	1203	603	297	232	283,5	150	563	1237	637	1163
SR 12830	1203	803	297	232	283,5	150	763	1237	837	1163
SR 5420V	503	403	197	132	183,5	150	363	537	437	463
SR 5425V	503	403	247	182	233,5	150	363	537	437	463
SR 6420V	603	403	197	132	183,5	150	363	637	437	563
SR 6425V	603	403	247	182	233,5	150	363	637	437	563
SR 7520V	703	503	197	132	183,5	150	463	737	537	663
SR 7525V	703	503	247	182	233,5	150	463	737	537	663
SR 8625V	803	603	247	182	233,5	150	563	837	637	763
SR 8630V	803	603	297	232	283,5	150	563	837	637	763
SR 10625V	1003	603	247	182	233,5	150	563	1037	637	963
SR 10630V	1003	603	297	232	283,5	150	563	1037	637	963
SR 10830V	1003	803	297	232	283,5	150	763	1037	837	963
SR 12630V	1203	603	297	232	283,5	150	563	1237	637	1163
SR 12830V	1203	803	297	232	283,5	150	763	1237	837	1163

All dimensions are shown in millimetres

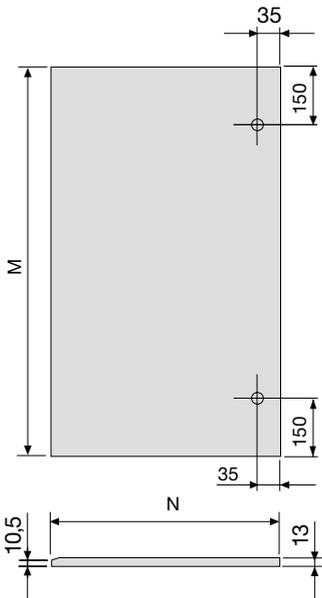
Overall dimensions

SR Enclosures

Distance between holes for wall fixing



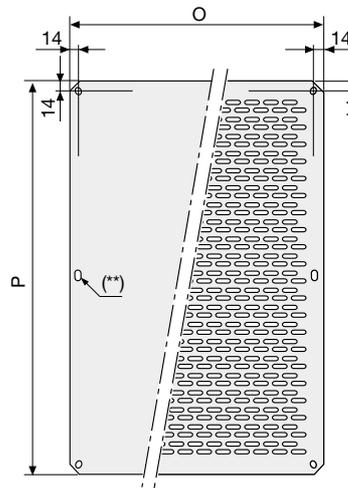
Inner counterdoors



Code	M	N
KA 5040*	458	360
KA 6040*	558	360
KA 7050*	658	460
KA 8060	758	560
KA 1060	958	560
KA 1080	958	760
KA 1260	1158	560
KA 1280	1158	760

* Counterdoors with 500, 600, 700 heights have only one hole in the middle for the lock.

Inner plates



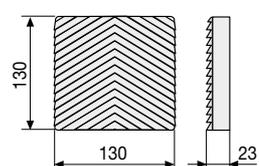
Code	O	P
PF 3020	160	260
PF 3030	260	260
PF 3040 - PF 4030	360	260
PF 4040	360	360
PF 5030	260	460
PF 5040	360	460
PF 6040 - PF 4060	360	560
PF 6060	560	560
PF 7050	460	660
PF 8060	560	760
PF 8080	760	760
PF 1060	560	960
PF 1080	760	960
PF 1260	560	1160
PF 1280	760	1160

Overall dimensions

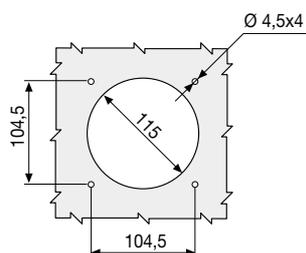
Air conditioning

Air filter kit

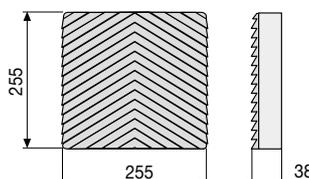
VE 5320



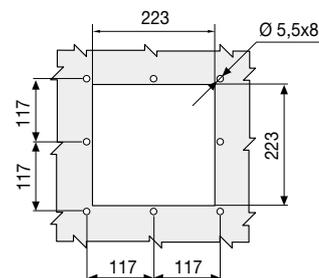
VE 5330
(drilling included)



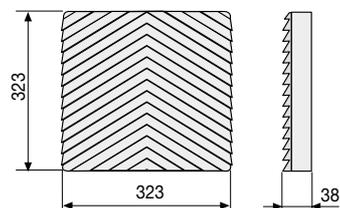
VE 5520



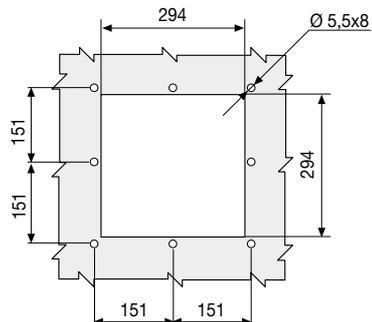
VE 5530
(drilling included)



VE 5620

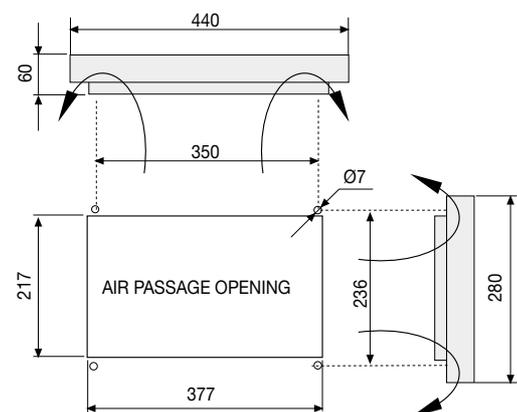


VE 5630
(drilling included)



Aeration hood

VG 5050



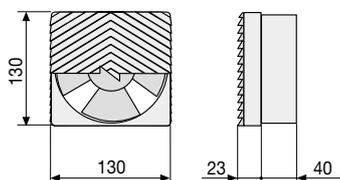
All dimensions are shown in millimetres

Overall dimensions

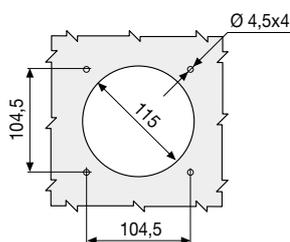
Air conditioning

Ventilation kit with fan

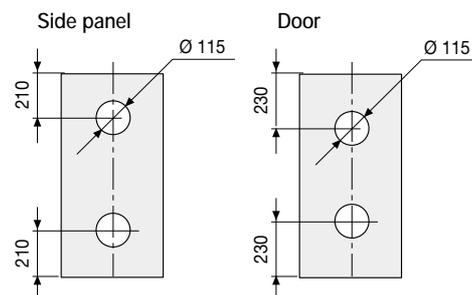
VE 5420
VE 5380
15 W



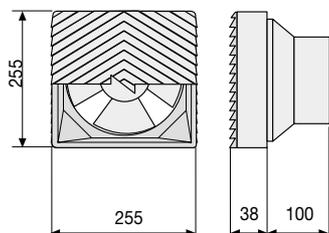
VE 5430
VE 5390
(drilling included)



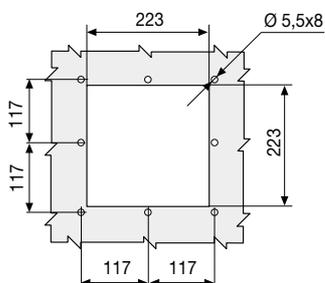
Drilling standard position



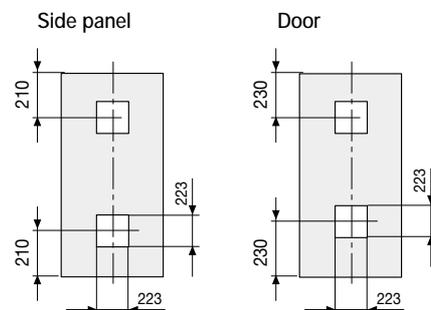
VE 5460
VE 5580
35 W



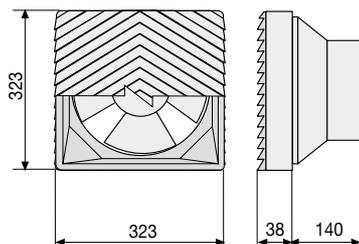
VE 5470
VE 5590
(drilling included)



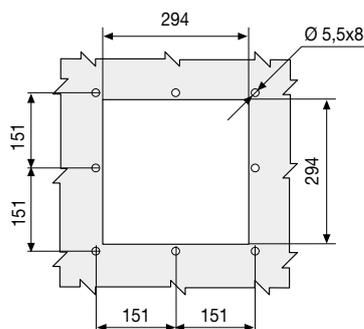
Drilling standard position



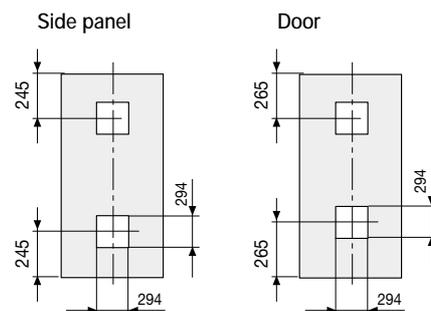
VE 5480
VE 5680
67 W



VE 5490
VE 5690
(drilling included)



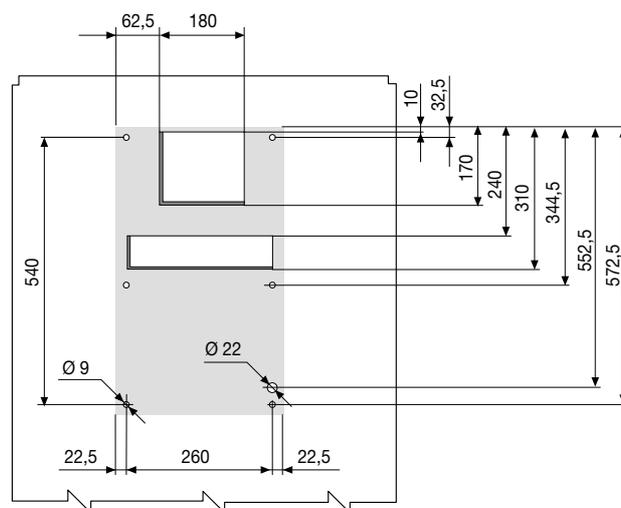
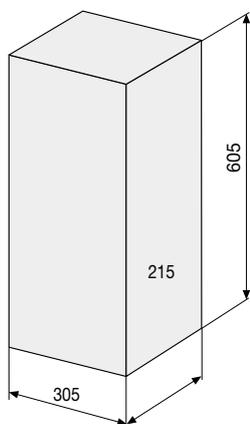
Drilling standard position



Overall dimensions

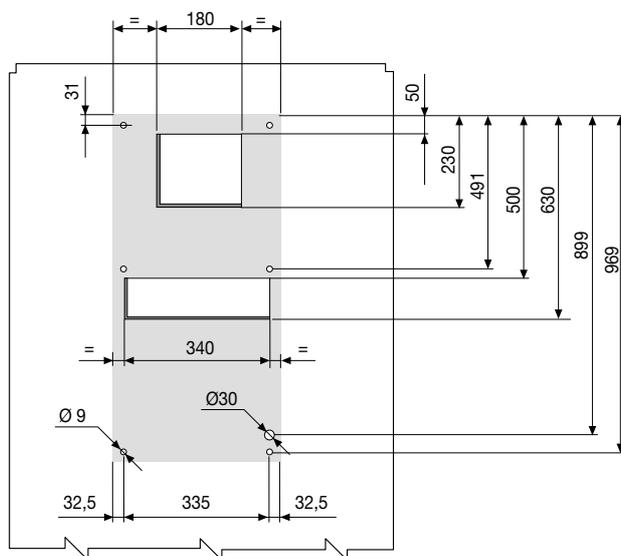
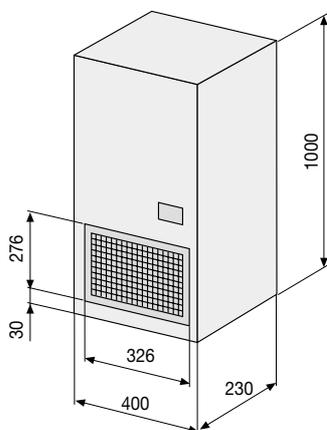
Air conditioning

Wall-type conditioners VZ 1055 - VZ 1066 - VZ 1085



6

Wall-type conditioners VZ 1080 - VZ 1014 - VZ 1730 - VZ 1021



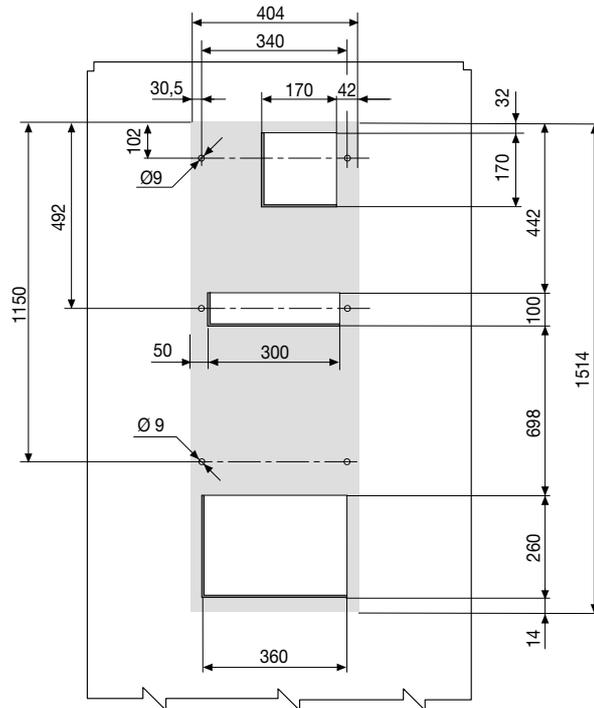
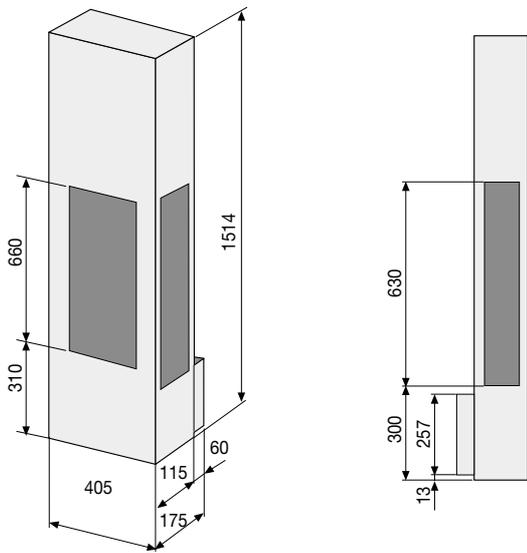
VZ100269

All dimensions are shown in millimetres

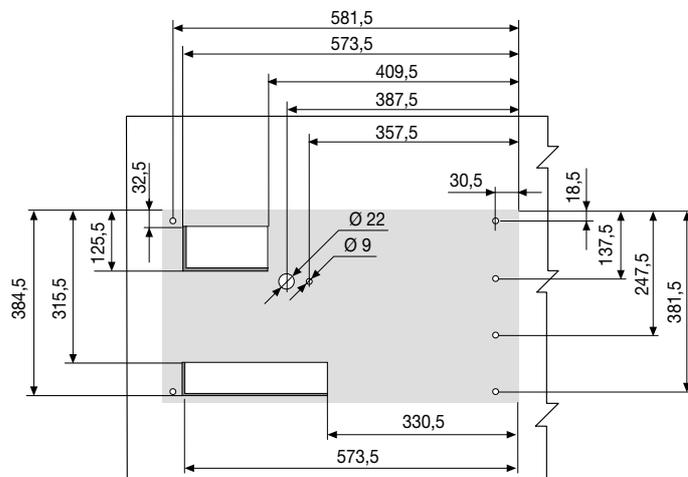
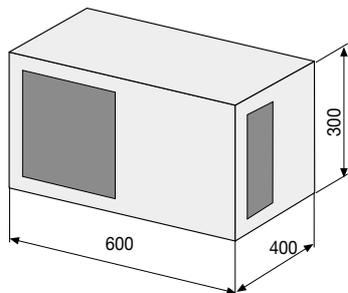
Overall dimensions

Air conditioning

Wall-type extra-flat conditioners VZ1000 - VZ1450 VZ1700 - VZ2100



Roof-type conditioners VZ 6501 - VZ 1001 - VZ 1451 - VZ 1651



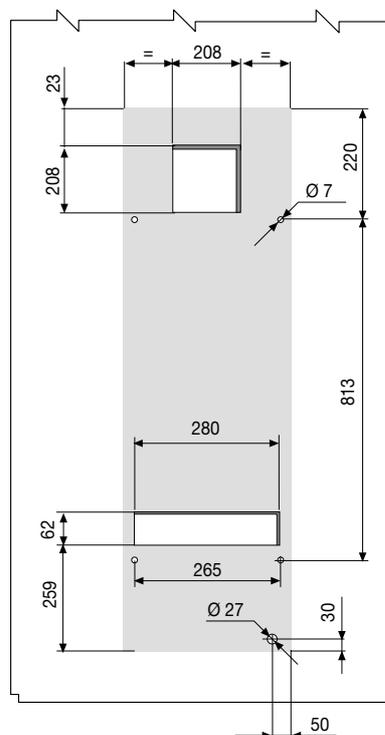
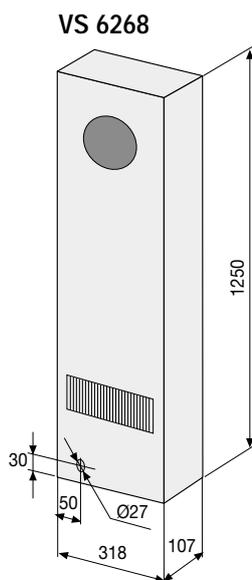
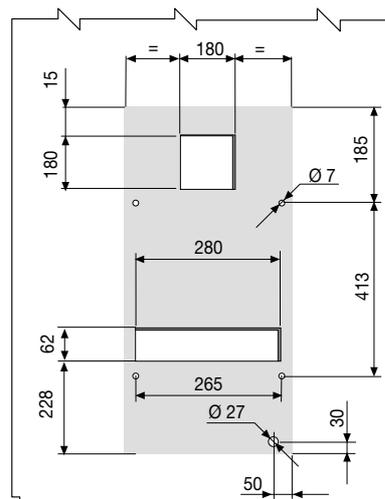
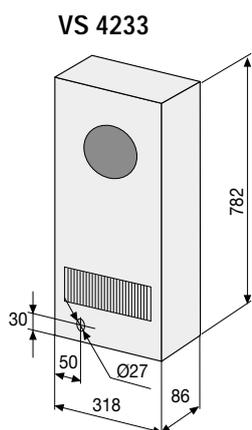
VFAU02/20

All dimensions are shown in millimetres

Overall dimensions

Air conditioning

Heat exchangers VS 4233 - VS 6268



VFAU00271

All dimensions are shown in millimetres



Mechanical and painting characteristics
RAL colour range
Code list and weights

Index

Mechanical and painting characteristics	7/ 2
RAL colour range	7/ 3
Code list and weights	7/ 4

Mechanical and painting characteristics

Material		IS Cabinets	AM Boards	C Consoles	SR Enclosures
Steel plated enclosure Fe P11MG UNI 5867	gauge [mm]	18/10	15/10	15/10	15/10
Steel plated mounting plate					
UNI EN 10142 Fe PO2 GZ 275NB-C	gauge [mm]	25/10	20-25/10	20-25/10	20/10
Steel plate inner door ⁽¹⁾	gauge [mm]	20/10	20/10	15/10	15/10
Zinc plated and painted	gauge [mm]	20/10	20/10	-	15/10 (zinc plated and painted)
Steel plate modular panel	gauge [mm]	15/10	15/10	-	12/10
Side panel	gauge [mm]	15/10	-	-	-
Back panel	gauge [mm]	15/10	15/10	-	-

⁽¹⁾ Front door, blind or glazed, polyurethane foam seal applied with continuous casting. Glazed front doors with safety and tempered glass plate secured internally (4 mm thickness), bonded internally according to UNI 7142.

Painting

Colour	Frame: semigloss orange peel RAL 7032 - Plinth: semigloss orange peel RAL 9005	
Standard production cycle	Steel plated washing	
	Phosphating with iron salts	
	Oven drying at 100 °C	
	Inner and outer painting with electrostatic application of powder thermosetting coat with epoxipolyester binder, colour range peel 7032, thickness 0.060 - 0.070 mm	
	Oven polymerisation temperature 180 °C.	
Paint	Bindings:	epoxipolyester
characteristics	Specific weight:	1,61g/cm ³
	Spreading rate:	10,4 m ² /Kg. for average film thickness of 60 μ
	Melting point:	85-95 °C (Kofler method)
	Granulometry:	Standard distribution from 5 to 100 micron with average particles size from 30 to 40 μ.
	Hardening:	12' x 190 °C (object temperature).
	Hardness:	1H - 2H
	Bending elasticity DIN 53152:	unaltered on spindle 1/4"
	Reticle adhesion DIN 53151:	GT O (100%)
	Erichem elasticity SEN DIN 53156:	> 6mm
	Gardner impact strength:	> 25 Kg. x cm.

Test performed on plates washed and phosphated with 60/70 μ film thickness.

Installation environmental characteristics

Installation type	internal (not suitable for bad weather conditions)	
Installation conditions	fixed, wall and floor	
Use climate (t°/Rh%)	constant:	23°C/83% - 40°C/93%
	variable:	23°C/98%- 40°C/98%
Environmental temperature limit	working	-5°C + 40°C
	stocking	-25°C + 55°C

RAL colour range

(on request)

On request, different colours are available using the same painting cycle.

Some of available colours



1014 Ivory smooth



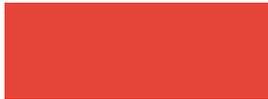
5009 Azure blue
Orange peel



6011 Reseda green
Smooth or
orange peel



7035 Light grey
Smooth or
orange peel



2002 Red orange
Orange peel



5010 Gentian blue
Smooth or
orange peel



6027 Light green
Smooth or
orange peel



9005 Deep black
orange peel



2004 Orange peel



5012 Light blue
Smooth or
orange peel



7001 Silver grey
Smooth or
orange peel



9010 Pure white
smooth



3000 Fire red smooth



5015 Sky blue
Smooth or
orange peel



7030 Stone grey
Smooth or
orange peel

Corrosion test in salt fog (Ref. UNI ISO 9227 standard)

Treatment time (hours)	24	48	72	96	120	144	168	192	240	288	336	384	-
Rust penetration	no	no	no	no	no	no	no	193					
Blistering	no	no	no	no	no	no	no	no					
Filiform rust													

Note: When a tearing test with adhesive tape is performed after 193 hours' exposition, a paint blistering of about 3 mm can be noted in the notch area with 1-1.5 mm rust penetration.

Code list and weights

Reference	Description	Weight (kg.)
AA1201	Hinges, 180° opening radius, IS-AM (4 off)	0,25
AA1202	Hinges, 180° opening radius, already assembled, IS-AM (4 off)	0,25
AA1203	M6x14 screws and nuts for flanges (16 off), SR	0,2
AA1206	Wall mounting brackets, SR (4 off)	0,2
AA1207	Wall mounting brackets, AM (4 off)	0,2
AA1481	Double tongue closure for desk switch mire board (CU console, monobloc), CA-CD-CM-CN-CU	0,05
AA1482	Double tongue closure for upper cabinet (CU console, monobloc), CA-CD-CM-CN-CU	0,05
AA1510	Double closure and locking bar, AM	0,05
AA1511	Double tongue and locking rod closure for base AM-CA-CD-CM-CN-CU	0,05
AA1550	Double tongue key, IS-AM-CA-CD-CM-CN-CU	0,02
AA1560	Triangular iron key, AM-IS	0,02
AA1570	FIAT type key, AM-IS	0,03
AA1670	Insert with double wing AM	0,03
AA1690	Triangular insert AM	0,02
AA1710	FIAT type insert, AM	0,02
AA1730	T-handle with Yale lock, AM	0,02
AA1740	T-handle without lock, AM	0,02
AA1760	L shaped closure with Yale lock, AM	0,02
AA1800	Triangular iron closure, AM	0,02
AA1820	Closure with T handle and Yale lock, AM	0,02
AA1830	Closure with T handle without lock, AM	0,02
AA4910	Door, block for side-by-side assembly, IS	0,02
AA5190	Plastic key for triangular iron insert AA5200	
AA5200	Closure with triangular insert, SR	
AA5300	Supports for terminal board rails (10 off), AM-IS	0,02
AA5400	Handles for 19" Rack, 90mm (4 off), AM	0,02
AA5410	Handles for 19" Rack, 111mm (4 off), AM	0,02
AA5510	Anti-locking safety device, AM-IS	0,02
AA5600	Plastic document pocket, AM-IS-CA-CD-CM-CN-CU-SR	0,02
AA5820	Blind plates for connectors (5 off), IS	0,1
AA5830	Reduction plates for connectors, 24-16 poles (5 off), IS	0,1
AA5840	Reduction plates for connectors 24-10 poles (5 off), IS	0,1
AA5850	Reduction plates for connectors 24-6 poles (5 off), IS	0,1
AA5860	Iron document pocket l= 600, AM-IS	0,51
AA5880	Iron document pocket l=800, AM-IS	1
AA5900	Iron document pocket l=1000, AM-IS	2
AA6000	Zamak handle with double tongues, IS	0,3
AA6100	Double tongue insert, IS	0,01
AA6120	Triangular iron insert, IS	0,01
AA6140	Square insert, IS	0,01
AA6160	FIAT type insert, IS	0,02
AA6180	Hexagonal insert, IS	0,02
AA6200	Yale type insert, IS	0,02
AA6840	Ground cables, section 16mmq, l=200mm, AM-IS (5 off)	0,01
AA6850	Ground cables, section 16mmq, l=300mm, AM-IS (5 off)	0,01
AA6880	Ground cables, section 25mmq, l=200mm, AM-IS (5 off)	0,01
AA6890	Ground cables, section 25mmq, l=300mm, AM-IS (5 off)	0,01
AA7015	Fluorescent lamp, 15W/230V 50Hz, complete with brackets and screws, IS-AM	2
AA7018	Fluorescent lamp, 18W/230V 50Hz, complete with brackets and screws, IS-AM	2
AA7030	Fluorescent lamp, 30W/230V 50Hz, complete with brackets and screws, IS-AM	2
AA7100	Position switch	0,15
AA7120	Support for position switch	0,01
AA7360	Locking bars for door, H=1000 mm, AM (2off)	0,064
AA7362	Locking bars for door, H=1200 mm, AM (2off)	0,088

Reference	Description	Weight (kg.)
AA7364	Locking bars for door, H=1400 mm, AM (2off)	0,112
AA7366	Locking bars for door, H=1600 mm, AM (2off)	0,135
AA7368	Locking bars for door, H=1800 mm, AM-IS (2off)	0,16
AA7370	Locking bars for door, H=2000 mm, AM-IS (2off)	0,185
AA7372	Locking bars for door, H=2200 mm, AM-IS (2off)	0,208
AA8001	Double tongue closure and key, SR	0,01
AA8002	Yale type closure, SR	0,01
AA8003	T shaped handle with Yale key, SR	0,01
AA8010	Copper bars, l=1000mm, SR (4 off)	3
AA8011	Insulator support, SR (4 off)	0,01
AA8025	Spacers for mounting plate, 25mm, (12 off) SR	0,01
AA8050	Spacers for mounting plate, 50mm, (12 off) SR	0,01
AA9000	M6 screws for 19" Rack (10 off), AM	0,2
AA9600	M12 eyebolts AM, (2 off)	0,5
AA9610	M12 eyebolts AM, (4 off)	0,7
AM5003	AM board with blind door, 1000x1000x300mm (HxWxD)	59
AM5003FV5	AM board with double vertical blind door, W=500mm, 1000x1000x300mm (HxWxD)	61
AM5003V	AM board with glazed door, 1000x1000x300mm (HxWxD)	54,5
AM5004	AM board with blind door, 1000x1000x400mm (HxWxD)	63
AM5004FV5	AM board with double vertical blind door, W=500mm, 1000x1000x400mm (HxWxD)	65
AM5004V	AM board with glazed door, 1000x1000x400mm (HxWxD)	58,5
AM5023	AM board with blind door, 1000x1200x300mm (HxWxD)	71
AM5023V	AM board with glazed door, 1000x1200x300mm (HxWxD)	65,5
AM5024	AM board with blind door, 1000x1200x400mm (HxWxD)	75
AM5024V	AM board with glazed door, 1000x1200x400mm (HxWxD)	69,5
AM5063	AM board with blind door, 1000x600x300mm (HxWxD)	40
AM5063V	AM board with glazed door, 1000x600x300mm (HxWxD)	37
AM5064	AM board with blind door, 1000x600x400mm (HxWxD)	44
AM5064V	AM board with glazed door, 1000x600x400mm (HxWxD)	41
AM5083	AM board with blind door, 1000x800x300mm (HxWxD)	49
AM5083FV4	AM board with double vertical blind door, W=400mm, 1000x800x300mm (HxWxD)	51
AM5083V	AM board with glazed door, 1000x800x300mm (HxWxD)	45
AM5084	AM board with blind door, 1000x800x400mm (HxWxD)	53
AM5084FV4	AM board with double vertical blind door, W=400mm, 1000x800x400mm (HxWxD)	55
AM5084V	AM board with glazed door, 1000x800x400mm (HxWxD)	49
AM5203	AM board with blind door, 1200x1000x300mm (HxWxD)	67
AM5203FV5	AM board with double vertical blind door, W=500mm, 1200x1000x300mm (HxWxD)	69
AM5203V	AM board with glazed door, 1200x1000x300mm (HxWxD)	61,5
AM5204	AM board with blind door, 1200x1000x400mm (HxWxD)	71
AM5204FV5	AM board with double vertical blind door, W=500mm, 1200x1000x400mm (HxWxD)	73
AM5204V	AM board with glazed door, 1200x1000x400mm (HxWxD)	65,5
AM5223	AM board with blind door, 1200x1200x300mm (HxWxD)	79,5
AM5223V	AM board with glazed door, 1200x1200x300mm (HxWxD)	73
AM5224	AM board with blind door, 1200x1200x400mm (HxWxD)	84
AM5224V	AM board with glazed door, 1200x1200x400mm (HxWxD)	77,5
AM5263	AM board with blind door, 1200x600x300mm (HxWxD)	480
AM5263V	AM board with glazed door, 1200x600x300mm (HxWxD)	44,5
AM5264	AM board with blind door, 1200x600x400mm (HxWxD)	520
AM5264V	AM board with glazed door, 1200x600x400mm (HxWxD)	485
AM5283	AM board with blind door, 1200x800x300mm (HxWxD)	575
AM5283FV4	AM board with double vertical blind door, W=400mm, 1200x800x300mm (HxWxD)	59,5
AM5283V	AM board with glazed door, 1200x800x300mm (HxWxD)	53
AM5284	AM board with blind door, 1200x800x400mm (HxWxD)	615

Code list and weights

Reference	Description	Weight (kg.)
AM5284FV4	AM board with double vertical blind door, W=400mm, 1200x800x400mm (HxWxD)	635
AM5284V	AM board with glazed door, 1200x800x400mm (HxWxD)	570
AM5403	AM board with blind door, 1400x1000x300mm (HxWxD)	740
AM5403FV5	AM board with double vertical blind door, W=500mm, 1400x800x300mm (HxWxD)	770
AM5403V	AM board with glazed door, 1400x1000x300mm (HxWxD)	675
AM5404	AM board with blind door, 1400x1000x400mm (HxWxD)	79
AM5404FV5	AM board with double vertical blind door, W=500mm, 1400x1000x400mm (HxWxD)	82
AM5404V	AM board with glazed door, 1400x1000x400mm (HxWxD)	725
AM5423	AM board with blind door, 1400x1200x300mm (HxWxD)	91
AM5423V	AM board with glazed door, 1400x1200x300mm (HxWxD)	83
AM5424	AM board with blind door, 1400x1200x400mm (HxWxD)	96
AM5424V	AM board with glazed door, 1400x1200x400mm (HxWxD)	880
AM5463	AM board with blind door, 1400x600x300mm (HxWxD)	560
AM5463V	AM board with glazed door, 1400x600x300mm (HxWxD)	520
AM5464	AM board with blind door, 1400x600x400mm (HxWxD)	610
AM5464V	AM board with glazed door, 1400x600x400mm (HxWxD)	570
AM5483	AM board with blind door, 1400x800x300mm (HxWxD)	650
AM5483FV4	AM board with double vertical blind door, W=400mm, 1400x800x300mm (HxWxD)	680
AM5483V	AM board with glazed door, 1400x800x300mm (HxWxD)	600
AM5484	AM board with blind door, 1400x800x400mm (HxWxD)	700
AM5484FV4	AM board with double vertical blind door, W=400mm, 1400x800x400mm (HxWxD)	730
AM5484V	AM board with glazed door, 1400x800x400mm (HxWxD)	65
AM5603	AM board with blind door, 1600x1000x300mm (HxWxD)	820
AM5603FV5	AM board with double vertical blind door, W=500mm, 1600x1000x300mm (HxWxD)	850
AM5603V	AM board with glazed door, 1600x1000x300mm (HxWxD)	745
AM5604	AM board with blind door, 1600x1000x400mm (HxWxD)	870
AM5604FV5	AM board with double vertical blind door, W=500mm, 1600x1000x400mm (HxWxD)	90
AM5604V	AM board with glazed door, 1600x1000x400mm (HxWxD)	795
AM5623	AM board with blind door, 1600x1200x300mm (HxWxD)	1010
AM5623V	AM board with glazed door, 1600x1200x300mm (HxWxD)	920
AM5624	AM board with blind door, 1600x1200x400mm (HxWxD)	1070
AM5624V	AM board with glazed door, 1600x1200x400mm (HxWxD)	980
AM5663	AM board with blind door, 1600x600x300mm (HxWxD)	64
AM5663V	AM board with glazed door, 1600x600x300mm (HxWxD)	59,5
AM5664	AM board with blind door, 1600x600x400mm (HxWxD)	690
AM5664V	AM board with glazed door, 1600x600x400mm (HxWxD)	64,5
AM5683	AM board with blind door, 1600x800x300mm (HxWxD)	730
AM5683FV4	AM board with double vertical blind door, W=400mm, 1600x800x300mm (HxWxD)	760
AM5683V	AM board with glazed door, 1600x800x300mm (HxWxD)	670
AM5684	AM board with blind door, 1600x800x400mm (HxWxD)	780
AM5684FV4	AM board with double vertical blind door, W=400mm, 1600x800x400mm (HxWxD)	810
AM5684V	AM board with glazed door, 1600x800x400mm (HxWxD)	720
AM5864	AM board with blind door, 1800x600x400mm (HxWxD)	800
AM5864V	AM board with glazed door, 1800x600x400mm (HxWxD)	750
AM5884	AM board with blind door, 1800x800x400mm (HxWxD)	960
AM5884FV4	AM board with double vertical blind door, W=400mm, 1800x800x400mm (HxWxD)	1000
AM5884V	AM board with glazed door, 1800x800x400mm (HxWxD)	895
AM5964	AM board with blind door, 2000x600x400mm (HxWxD)	860
AM5964V	AM board with glazed door, 2000x600x400mm (HxWxD)	805
AM5984	AM board with blind door, 2000x800x400mm (HxWxD)	104

Reference	Description	Weight (kg.)
AM5984FV4	AM board with double vertical blind door, W=400mm, 2000x800x400mm (HxWxD)	109
AM5984V	AM board with glazed door, 2000x800x400mm (HxWxD)	965
AP6000	Depth adapter, l=600mm, SR	0,2
CA1308	CA console, monobloc, complete, 1350x1000x880mm (HxWxD)	95,5
CA1328	CA console, monobloc, complete, 1350x1200x880mm (HxWxD)	109,5
CA1368	CA console, monobloc, complete, 1350x1600x880mm (HxWxD)	140,9
CA1388	CA console, monobloc, complete, 1350x800x880mm (HxWxD)	82,2
CA4303	Upper console, monobloc, 430x1000x400mm (HxWxD) CA	25,2
CA4323	Upper console, monobloc, 430x1200x400mm (HxWxD) CA	28,5
CA4363	Upper console, monobloc, 430x1600x400mm (HxWxD) CA	35,4
CA4383	Upper console, monobloc, 430x800x400mm (HxWxD) CA	22
CA6118	Desk switchboard, 220x800x880mm (HxWxD) CA	27,1
CA6120	Desk switchboard, 220x1000x880mm (HxWxD) CA	31,7
CA6122	Desk switchboard, 220x1200x880mm (HxWxD) CA	36,4
CA6126	Desk switchboard, 220x1600x880mm (HxWxD) CA	46
CA6140	Cover for base l=600mm CN	0,5
CA6141	Cover for base l=800mm CA-CN	0,5
CA6142	Cover for base l=1000mm CA-CN	0,5
CA6143	Cover for base l=1200mm CA-CN	0,5
CA6144	Cover for base l=1600mm CA	0,5
CA6161	Cover for desk switchboard, l=800mm CA	0,5
CA6162	Cover for desk switchboard, l=1000mm CA	0,5
CA6163	Cover for desk switchboard, l=1200mm CA	0,5
CA6164	Cover for desk switchboard, l=1600mm CA	0,5
CA7004	Base 700x1000x400mm (HxWxD) CA-CN	38,6
CA7024	Base 700x1200x400mm (HxWxD) CA-CN	44,6
CA7064	Base 700x1600x400mm (HxWxD) CA	59,7
CA7084	Base 700x800x400mm (HxWxD) CA-CN	33,1
CD1309	CD console, complete 1350x1000x990mm (HxWxD)	104,9
CD1329	CD console, complete 1350x1200x990mm (HxWxD)	121,6
CD1369	CD console, complete 1350x1600x990mm (HxWxD)	151,8
CD1389	CD console, complete 1350x800x990mm (HxWxD)	91
CD4304	Upper console, monobloc, 430x1000x520mm (HxWxD) CD	25,5
CD4324	Upper console, monobloc, 430x1200x520mm (HxWxD) CD	30,7
CD4364	Upper console, monobloc, 430x1600x520mm (HxWxD) CD	38,6
CD4384	Upper console, monobloc, 430x800x520mm (HxWxD) CD	23
CD6228	Desk switchboard, 220x800x990mm (HxWxD) CD	29,5
CD6230	Desk switchboard, 220x1000x990mm (HxWxD) CD	34,5
CD6232	Desk switchboard, 220x1200x990mm (HxWxD) CD	39,5
CD6236	Desk switchboard, 220x1600x990mm (HxWxD) CD	49,5
CD6293	Cover for base, l=800mm CD	0,5
CD6294	Cover for base, l=1000mm CD	0,5
CD6295	Cover for base, l=1200mm CD	0,5
CD6296	Cover for base, l=1600mm CD	0,5
CD6298	Cover for desk switchboard, l=800mm CD	0,5
CD6299	Cover for desk switchboard, l=1000mm CD	0,5
CD6300	Cover for desk switchboard, l=1200mm CD	0,5
CD6301	Cover for desk switchboard, l=1600mm CD	0,5
CD7005	Base, 700x1000x520mm (HxWxD) CD	44,9
CD7025	Base, 700x1200x520mm (HxWxD) CD	51,4
CD7065	Base, 700x1600x520mm (HxWxD) CD	63,7
CD7085	Base, 700x800x520mm (HxWxD) CD	38,7
CM1141	CM console, complete, 1000x1000x419mm (HxWxD)	66
CM1151	CM console, complete, 1000x1000x513mm (HxWxD)	71
CM1241	CM console, complete, 1000x1200x419mm (HxWxD)	76

Code list and weights

Reference	Description	Weight (kg.)	Reference	Description	Weight (kg.)
CM1251	CM console, complete, 1000x1200x513mm (HxWxD)	81	DR1060	Horizontal divider, 1000x600mm (HxD), IS	6
CM1841	CM console, complete, 1000x800x419mm (HxWxD)	57	DR1061	Reduced horizontal divider, 1000x600mm (HxD), IS	6
CM1851	CM console, complete, 1000x800x513mm (HxWxD)	61,7	DR1080	Horizontal divider, 1000x800mm (HxD), IS	7
CM3041	Desk switchboard, 300x1000x419mm (HxWxD) CM	66	DR1081	Reduced horizontal divider, 1000x800mm (HxD), IS	7
CM3051	Desk switchboard, 300x1000x513mm (HxWxD) CM	26	DR1241	Reduced horizontal divider, 1200x450mm (HxD), IS	6
CM3241	Desk switchboard, 300x1200x419mm (HxWxD) CM	30	DR1245	Horizontal divider, 1200x450mm (HxD), IS	6
CM3251	Desk switchboard, 300x1200x513mm (HxWxD) CM	30	DR1260	Horizontal divider, 1200x600mm (HxD), IS	7
CM3841	Desk switchboard, 300x800x419mm (HxWxD) CM	23	DR1261	Reduced horizontal divider, 1200x600mm (HxD), IS	7
CM3851	Desk switchboard, 300x800x513mm (HxWxD) CM	23	DR1280	Horizontal divider, 1200x800mm (HxD), IS	8
CM7041	Base, 700x1000x419mm (HxWxD) CM	40	DR1281	Reduced horizontal divider, 1200x800mm (HxD), IS	8
CM7241	Base, 700x1200x419mm (HxWxD) CM	46	DR1285	Vertical divider, 1800x450mm (hxd)	10
CM7841	Base, 700x800x419mm (HxWxD) CM	34	DR1860	Vertical divider, 1800x600mm (hxd)	11
CN1005	CN console, complete, 1000x1000x560mm (HxWxD)	64,8	DR1880	Vertical divider, 1800x800mm (hxd)	12
CN1025	CN console, complete, 1000x1200x560mm (HxWxD)	74,6	DR2045	Vertical divider, 2000x450mm (hxd)	11
CN1065	CN console, complete, 1000x600x560mm (HxWxD)	45,1	DR2060	Vertical divider, 2000x600mm (hxd)	12
CN1085	CN console, complete, 1000x800x560mm (HxWxD)	55,7	DR2080	Vertical divider, 2000x800mm (hxd)	13
CN6036	Desk switchboard, 300x600x560mm (HxWxD) CN	18,8	DR2245	Vertical divider, 2200x450mm (hxd)	12
CN6038	Desk switchboard, 300x800x560mm (HxWxD) CN	22,6	DR2260	Vertical divider, 2200x600mm (hxd)	13
CN6040	Desk switchboard, 300x1000x560mm (HxWxD) CN	26,2	DR2280	Vertical divider, 2200x800mm (hxd)	14
CN6042	Desk switchboard, 300x1200x560mm (HxWxD) CN	30	DR3103	Sliding horizontal divider, 600x600mm (HxD), IS	4,13
CN7064	Base, 700x600x400mm (HxWxD) CN	26,3	DR6041	Reduced horizontal divider, 600x450mm (HxD), IS	1
CP1010	Inner blind door, 1000x1000mm (HxW), AM	12,8	DR6045	Horizontal divider, 600x450mm (HxD), IS	1
CP1012	Inner blind door, 1000x1200mm (HxW), AM (2 doors 600mm wide)	15,7	DR6060	Horizontal divider, 600x600mm (HxD), IS	2
CP1060	Inner blind door, 1000x600mm (HxW), AM	7	DR6061	Reduced horizontal divider, 600x600mm (HxD), IS	2
CP1080	Inner blind door, 1000x800mm (HxW), AM	9,9	DR6080	Horizontal divider, 600x800mm (HxD), IS	3
CP1210	Inner blind door, 1200x1000mm (HxW), AM	15,7	DR6081	Reduced horizontal divider, 600x800mm (HxD), IS	3
CP1212	Inner blind door, 1200x1200mm (HxW), AM (2 doors 600mm wide)	19	DR8041	Reduced horizontal divider, 800x450mm (HxD), IS	4
CP1260	Inner blind door, 1200x600mm (HxW), AM	8,6	DR8045	Horizontal divider, 800x450mm (HxD), IS	4
CP1280	Inner blind door, 1200x800mm (HxW), AM	12	DR8060	Horizontal divider, 800x600mm (HxD), IS	5
CP1410	Inner blind door, 1400x1000mm (HxW), AM	18,5	DR8061	Reduced horizontal divider, 800x600mm (HxD), IS	5
CP1412	Inner blind door, 1400x1200mm (HxW), AM (2 doors 600mm wide)	22,6	DR8080	Horizontal divider, 800x800mm (HxD), IS	6
CP1460	Inner blind door, 1400x600mm (HxW), AM	10	DR8081	Reduced horizontal divider, 800x800mm (HxD), IS	6
CP1480	Inner blind door, 1400x800mm (HxW), AM	13	FL3215	Cable passage plate for SR3215 (2 off)	0,6
CP1610	Inner blind door, 1600x1000mm (HxW), AM	21,4	FL3315	Cable passage plate for SR3315-SR4315 (2 off)	0,9
CP1612	Inner blind door, 1600x1200mm (HxW), AM (2 doors 600mm wide)	26	FL3415	Cable passage plate for SR3415 (2 off)	1,2
CP1660	Inner blind door, 1600x600mm (HxW), AM	11,8	FL4320	Cable passage plate for SR4320-SR5320 (2 off)	1,3
CP1680	Inner blind door, 1600x800mm (HxW), AM	16,7	FL4420	Cable passage plate for SR4420-SR5420-SR6420 (2 off)	1,8
CP1810	Inner blind door, IS 1800x1000mm (HxW), IS	23,4	FL4425	Cable passage plate for SR5425-SR6425 (2 off)	2,4
CP1812	Inner blind door, IS 1800x1200mm (HxW), IS (2 doors 600mm wide)	28	FL4620	Cable passage plate for SR4620 (2 off)	2,8
CP1860	Inner blind door, IS-AM 1800x600mm (HxW), IS-AM	12,5	FL6625	Cable passage plate for SR6625-SR8625-SR10625 (2 off)	3,7
CP1880	Inner blind door, IS-AM 1800x800mm (HxW), AM	17,9	FL7520	Cable passage plate for SR7520 (2 off)	2,4
CP2010	Inner blind door, IS 2000x1000mm (HxW), AM	26	FL7525	Cable passage plate for SR7525 (2 off)	3
CP2012	Inner blind door, IS 2000x1200mm (HxW), IS (2 doors 600mm wide)	31,6	FL8630	Cable passage plate for SR8630-SR10630-SR12630 (2 off)	4,6
CP2060	Inner blind door, IS-AM 2000x600mm (HxW), IS-AM	13,9	FL8830	Cable passage plate for SR8830-SR10830-SR12830 (2 off)	6,4
CP2080	Inner blind door, IS-AM 2000x800mm (HxW), IS-AM	20	GD4006	DIN rail kit, l=400mm, SR	0,8
CP2210	Inner blind door, IS 2200x1000mm (HxW), IS	28,8	GD6006	DIN rail kit, l=600mm, SR	0,9
CP2212	Inner blind door, IS 2200x1200mm (HxW), IS (2 doors 600mm wide)	35	GD8006	DIN rail kit, l=800mm, SR	1
CP2260	Inner blind door, IS 2200x600mm (HxW), IS	15,4	GZ4020	Seal for stacking, 400x200mm (HxD), SR	0,05
CP2280	Inner blind door, IS 2200x800mm (HxW), IS	22	GZ4025	Seal for stacking, 400x250mm (HxD), SR	0,05
CU6326	CU console, monobloc, 960x600x470mm (HxWxD)	38	GZ6025	Seal for stacking, 600x250mm (HxD), SR	0,05
CU6328	CU console, monobloc, 960x800x470mm (HxWxD)	46	GZ6030	Seal for stacking, 600x300mm (HxD), SR	0,05
CU6330	CU console, monobloc, 960x1000x470mm (HxWxD)	54	GZ8030	Seal for stacking, 800x300mm (HxD), SR	0,05
CU6332	CU console, monobloc, 960x1200x470mm (HxWxD)	62	HE1901	19" Rack panel, 1HE h=44,45mm	2
DR1041	Reduced horizontal divider, 1000x450mm (HxD), IS, IS	5	HE1902	19" Rack panel, 2HE h=89mm	2,5
DR1045	Horizontal divider, 1000x450mm (HxD), IS, IS	5	HE1903	19" Rack panel, 3HE h=133mm	3
			HE1904	19" Rack panel, 4HE h=177,5mm	3,5
			HE1905	19" Rack panel, 5HE h=222mm	4
			HE1906	19" Rack panel, 6HE h=266,5mm	4,5
			HE1907	19" Rack panel, 7HE h=311mm	5
			HE1908	19" Rack panel, 8HE h=355,5mm	5,5

Code list and weights

Reference	Description	Weight (kg.)
HE1909	19" Rack panel, 9HE h=400mm	6
HE1910	19" Rack panel, 10HE h=444.5mm	6,5
HE1911	19" Rack panel, 11HE h=488mm	7
HE1912	19" Rack panel, 12HE h=533mm	7,5
HE1913	19" Rack panel, 13HE h=577.5mm	8
HE1914	19" Rack panel, 14HE h=622mm	8,5
HE1915	19" Rack panel, 15HE h=666.5mm	9
HE1916	19" Rack panel, 16HE h=711mm	9,5
HE1917	19" Rack panel, 17HE h=755.5mm	10
HE1918	19" Rack panel, 18HE h=800mm	10,5
HE1919	19" Rack panel, 19HE h=844.5mm	11
HE1920	19" Rack panel, 20HE h=889mm	11,5
IS1800	IS cabinet with blind door, 1800x1000x1000mm (HxWxD)	132
IS1800V	IS cabinet with glazed door, 1800x1000x1000mm (HxWxD)	125
IS1804	IS cabinet with blind door, 1800x1000x450mm (HxWxD)	114
IS1804FO2	IS cabinet with double horizontal blind door, 200mm 1800x1000x450mm	118
IS1804FO4	IS cabinet with double horizontal blind door, 400mm 1800x1000x450mm	118
IS1804FV2	IS cabinet with double vertical blind door, W=200mm 1800x1000x450mm	118
IS1804FV5	IS cabinet with double vertical blind door, W= 500mm 1800x1000x450mm	118
IS1804L	IS cabinet with blind door, and desk switchboard, 1800x1000x450mm (HxWxD)	126
IS1804LV	IS cabinet with glazed door, and desk switchboard, 1800x1000x450mm (HxWxD)	124
IS1804MF2	IS cabinet for cells, cableway W= 200mm 1800x1000x450mm	85
IS1804MF4	IS cabinet for cells, cableway W= 400mm 1800x1000x450mm	91
IS1804V	IS cabinet with glazed door, 1800x1000x450mm (HxWxD)	106
IS1804VC2	IS cabinet with glazed door, cableway W= 200mm 1800x1000x450mm	124
IS1804VC4	IS cabinet with glazed door, cableway W= 400mm 1800x1000x450mm	124
IS1806	IS cabinet with blind door, 1800x1000x600mm (HxWxD)	119
IS1806FO2	IS cabinet with double horizontal blind door, 200m 1800x1000x600mm	123
IS1806FO4	IS cabinet with double horizontal blind door, 400mm 1800x1000x600mm	123
IS1806FV2	IS cabinet with double vertical blind door, W= 200mm 1800x1000x600mm	123
IS1806FV5	IS cabinet with double vertical blind door, W= 500mm 1800x1000x600mm	123
IS1806L	IS cabinet with blind door, and desk switchboard, 1800x1000x600mm (HxWxD)	131
IS1806LV	IS cabinet with glazed door, and desk switchboard, 1800x1000x600mm (HxWxD)	129
IS1806MF2	IS cabinet for cells, cableway W= 200mm 1800x1000x600mm	90
IS1806MF4	IS cabinet for cells, cableway W= 400mm 1800x1000x600mm	96
IS1806V	IS cabinet with glazed door, 1800x1000x600mm (HxWxD)	111
IS1806VC2	IS cabinet with glazed door, cableway W= 200mm 1800x1000x600mm	129
IS1806VC4	IS cabinet with glazed door, cableway W= 400mm 1800x1000x600mm	129
IS1808	IS cabinet with blind door, 1800x1000x800mm (HxWxD)	126
IS1808FO2	IS cabinet with double horizontal blind door, 200mm 1800x1000x800mm	130
IS1808FO4	IS cabinet with double horizontal blind door, 400mm 1800x1000x800mm	130
IS1808FV2	IS cabinet with double vertical blind door, W= 200mm 1800x1000x800mm	130

Reference	Description	Weight (kg.)
IS1808FV5	IS cabinet with double vertical blind door, W= 500mm 1800x1000x800mm	130
IS1808L	IS cabinet with blind door, and desk switchboard, 1800x1000x800mm (HxWxD)	138
IS1808LV	IS cabinet with glazed door, and desk switchboard, 1800x1000x800mm (HxWxD)	136
IS1808MF2	IS cabinet for cells, cableway W= 200mm 1800x1000x800mm	97
IS1808MF4	IS cabinet for cells, cableway W= 400mm 1800x1000x800mm	103
IS1808V	IS cabinet with glazed door, 1800x1000x800mm (HxWxD)	118
IS1808VC2	IS cabinet with glazed door, cableway W= 200mm 1800x1000x800mm	136
IS1808VC4	IS cabinet with glazed door, cableway W= 400mm 1800x1000x800mm	136
IS1820	IS cabinet with blind door, 1800x1200x1000mm (HxWxD)	140
IS1820V	IS cabinet with glazed door, 1800x1200x1000mm (HxWxD)	133
IS1824	IS cabinet with blind door, 1800x1200x450mm (HxWxD)	132
IS1824FO4	IS cabinet with double horizontal blind door, 400mm 1800x1200x450mm	138
IS1824FV2	IS cabinet with double vertical blind door, W= 200mm 1800x1200x450mm	136
IS1824FV4	IS cabinet with double vertical blind door, W= 400mm 1800x1200x450mm	136
IS1824L	IS cabinet with blind door, and desk switchboard, 1800x1200x450mm (HxWxD)	147
IS1824LV	IS cabinet with glazed door, and desk switchboard, 1800x1200x450mm (HxWxD)	144
IS1824MF4	IS cabinet for cells, cableway W= 400mm 1800x1200x450mm	103
IS1824V	IS cabinet with glazed door, 1800x1200x450mm (HxWxD)	122
IS1824VC2	IS cabinet with glazed door, cableway W= 200mm 1800x1200x450mm	142
IS1824VC4	IS cabinet with glazed door, cableway W= 400mm 1800x1200x450mm	142
IS1826	IS cabinet with blind door, 1800x1200x600mm (HxWxD)	137
IS1826FO4	IS cabinet with double horizontal blind door, 400mm 1800x1200x600mm	143
IS1826FV2	IS cabinet with double vertical blind door, W= 200mm 1800x1200x600mm	141
IS1826FV4	IS cabinet with double vertical blind door, W= 400mm 1800x1200x600mm	141
IS1826L	IS cabinet with blind door, and desk switchboard, 1800x1200x600mm (HxWxD)	152
IS1826LV	IS cabinet with glazed door, and desk switchboard, 1800x1200x600mm (HxWxD)	149
IS1826MF4	IS cabinet for cells, cableway W= 400mm 1800x1200x600mm	108
IS1826V	IS cabinet with glazed door, 1800x1200x600mm (HxWxD)	127
IS1826VC2	IS cabinet with glazed door, cableway W= 200mm 1800x1200x600mm	147
IS1826VC4	IS cabinet with glazed door, cableway W= 400mm 1800x1200x600mm	147
IS1828	IS cabinet with blind door 1800x1200x800mm (HxWxD)	144
IS1828FO4	IS cabinet with double horizontal blind door, 400mm 1800x1200x800mm	150
IS1828FV2	IS cabinet with double vertical blind door, W= 200mm 1800x1200x800mm	148
IS1828FV4	IS cabinet with double vertical blind door, W= 400mm 1800x1200x800mm	148
IS1828L	IS cabinet with blind door, and desk switchboard, 1800x1200x800mm (HxWxD)	159
IS1828LV	IS cabinet with glazed door, and desk switchboard, 1800x1200x800mm (HxWxD)	156
IS1828MF4	IS cabinet for cells, cableway W= 400mm 1800x1200x800mm	115
IS1828V	IS cabinet with glazed door, 1800x1200x800mm (HxWxD)	134

Code list and weights

Reference	Description	Weight (kg.)
IS1828VC2	IS cabinet with glazed door, cableway W= 200mm 1800x1200x800mm	154
IS1828VC4	IS cabinet with glazed door, cableway W= 400mm 1800x1200x800mm	154
IS1844	IS cabinet with blind door, 1800x400x450mm (HxWxD)	66
IS1846	IS cabinet with blind door, 1800x400x600mm (HxWxD)	71
IS1848	IS cabinet with blind door, 1800x400x800mm (HxWxD)	78
IS1860	IS cabinet with blind door 1800x600x1000mm(HxWxD)	0
IS1860V	IS cabinet with glazed door, 1800x600x1000mm(HxWxD)	0
IS1864	IS cabinet with blind door, 1800x600x450mm (HxWxD)	82
IS1864FO2	IS cabinet with double horizontal blind door, 200mm 1800x600x450mm	84
IS1864FO4	IS cabinet with double horizontal blind door, 400mm 1800x600x450mm	84
IS1864L	IS cabinet with blind door, and desk switchboard, 1800x600x450mm (HxWxD)	90
IS1864LV	IS cabinet with glazed door, and desk switchboard, 1800x600x450mm (HxWxD)	89
IS1864PM	IS cabinet structure only, 1800x600x450mm (HxWxD)	59
IS1864V	IS cabinet with glazed door, 1800x600x450mm (HxWxD)	77
IS1866	IS cabinet with blind door, 1800x600x600mm (HxWxD)	87
IS1866FO2	IS cabinet with double horizontal blind door, 200mm 1800x600x600mm	89
IS1866FO4	IS cabinet with double horizontal blind door, 400mm 1800x600x600mm	89
IS1866L	IS cabinet with blind door, and desk switchboard, 1800x600x600mm (HxWxD)	95
IS1866LV	IS cabinet with glazed door, and desk switchboard, 1800x600x600mm (HxWxD)	94
IS1866PC	IS cabinet for computer, 1800x600x600mm (HxWxD)	88
IS1866PM	IS cabinet structure only, 1800x600x600mm (HxWxD)	64
IS1866V	IS cabinet with glazed door, 1800x600x600mm (HxWxD)	82
IS1868	IS cabinet with blind door, 1800x600x800mm (HxWxD)	94
IS1868FO2	IS cabinet with double horizontal blind door, 200mm 1800x600x800mm	98
IS1868FO4	IS cabinet with double horizontal blind door, 400mm 1800x600x800mm	98
IS1868L	IS cabinet with blind door, and desk switchboard, 1800x600x800mm (HxWxD)	102
IS1868LV	IS cabinet with glazed door, and desk switchboard, 1800x600x800mm (HxWxD)	101
IS1868PM	IS cabinet structure only, 1800x600x800mm (HxWxD)	71
IS1868V	IS cabinet with glazed door, 1800x600x800mm (HxWxD)	89
IS1880	IS cabinet with blind door, 1800x800x1000mm(HxWxD)	126
IS1880V	IS cabinet with glazed door, 1800x800x1000mm (HxWxD)	118
IS1884	IS cabinet with blind door, 1800x800x450mm (HxWxD)	98
IS1884FO2	IS cabinet with double horizontal blind door, 200mm 1800x800x450mm	101
IS1884FO4	IS cabinet with double horizontal blind door, 400mm 1800x800x450mm	101
IS1884FV2	IS cabinet with double vertical blind door, W= 200mm 1800x800x450mm	102
IS1884FV4	IS cabinet with double vertical blind door, W= 400mm 1800x800x450mm	102
IS1884L	IS cabinet with blind door, and desk switchboard, 1800x800x450mm (HxWxD)	108
IS1884LV	IS cabinet with glazed door, and desk switchboard, 1800x800x450mm (HxWxD)	107
IS1884MF2	IS cabinet for cells, cableway W= 200mm 1800x800x450mm	75
IS1884PM	IS cabinet structure only 1800x800x450mm (HxWxD)	69
IS1884V	Glazed door, 1800x800x450mm (HxWxD)	91,5

Reference	Description	Weight (kg.)
IS1884VC2	IS cabinet with glazed door, cableway W= 200mm 1800x800x450mm	108
IS1886	IS cabinet with blind door, 1800x800x600mm (HxWxD)	103
IS1886FO2	IS cabinet with double horizontal blind door, 200mm 1800x800x600mm	106
IS1886FO4	IS cabinet with double horizontal blind door, 400mm 1800x800x600mm	106
IS1886FV2	IS cabinet with double vertical blind door, W= 200mm 1800x800x600mm	107
IS1886FV4	IS cabinet with double vertical blind door, W= 400mm 1800x800x600mm	107
IS1886L	IS cabinet with blind door, and desk switchboard, 1800x800x600mm (HxWxD)	113
IS1886LV	IS cabinet with glazed door, and desk switchboard, 1800x800x600mm (HxWxD)	112
IS1886MF2	IS cabinet for cells, cableway W= 200mm 1800x800x600mm	80
IS1886PM	IS cabinet structure only 1800x800x600mm (HxWxD)	74
IS1886V	IS cabinet with glazed door, 1800x800x600mm (HxWxD)	96,5
IS1886VC2	IS cabinet with glazed door, cableway W= 200mm 1800x800x600mm	113
IS1888	IS cabinet with blind door, 1800x800x800mm (HxWxD)	110
IS1888FO2	IS cabinet with double horizontal blind door, 200mm 1800x800x800mm	113
IS1888FO4	IS cabinet with double horizontal blind door, 400mm 1800x800x800mm	113
IS1888FV2	IS cabinet with double vertical blind door, W= 200mm 1800x800x800mm	114
IS1888FV4	IS cabinet with double vertical blind door, W= 400mm 1800x800x800mm	114
IS1888L	IS cabinet with blind door, and desk switchboard, 1800x800x800mm (HxWxD)	120
IS1888LV	IS cabinet with glazed door, and desk switchboard, 1800x800x800mm (HxWxD)	119
IS1888MF2	IS cabinet for cells, cableway W= 200mm 1800x800x800mm	87
IS1888PM	IS cabinet structure only 1800x800x800mm (HxWxD)	81
IS1888V	IS cabinet with glazed door, 1800x800x800mm (HxWxD)	103,5
IS1888VC2	IS cabinet with glazed door, cableway W= 200mm 1800x800x800mm	120
IS2000	IS cabinet with blind door, 2000x1000x1000mm(HxWxD)	150
IS2000V	AM board with glazed door, 2000x1000x1000 mm (hxlxp)	12
IS2004	IS cabinet with blind door, 2000x1000x450mm (HxWxD)	124
IS2004FO2	IS cabinet with double horizontal blind door, 200mm 2000x1000x450mm	128
IS2004FO4	IS cabinet with double horizontal blind door, 400mm 2000x1000x450mm	128
IS2004FV2	IS cabinet with double vertical blind door, W= 200mm 2000x1000x450mm	129
IS2004FV5	IS cabinet with double vertical blind door, W= 500mm 2000x1000x450mm	129
IS2004L	IS cabinet with blind door, and desk switchboard, 2000x1000x450mm (HxWxD)	136
IS2004LV	IS cabinet with glazed door, and desk switchboard, 2000x1000x450mm (HxWxD)	134
IS2004MF2	IS cabinet for cells, cableway W= 200mm 2000x1000x450mm	92
IS2004MF4	IS cabinet for cells, cableway W= 400mm 2000x1000x450mm	99
IS2004V	IS cabinet with glazed door, 2000x1000x450mm (HxWxD)	115
IS2004VC2	IS cabinet with glazed door, cableway W= 200mm 2000x1000x450mm	134
IS2004VC4	IS cabinet with glazed door, cableway W= 400mm 2000x1000x450mm	134
IS2006	IS cabinet with blind door, 2000x1000x600mm (HxWxD)	129

Code list and weights

Reference	Description	Weight (kg.)
IS2006FO2	IS cabinet with double horizontal blind door, 200mm 2000x1000x600mm	133
IS2006FO4	IS cabinet with double horizontal blind door, 400mm 2000x1000x600mm	133
IS2006FV2	IS cabinet with double vertical blind door, W= 200mm 2000x1000x600mm	134
IS2006FV5	IS cabinet with double vertical blind door, W= 500mm 2000x1000x600mm	134
IS2006L	IS cabinet with blind door, and desk switchboard, 2000x1000x600mm (HxWxD)	141
IS2006LV	IS cabinet with glazed door, and desk switchboard, 2000x1000x600mm (HxWxD)	139
IS2006MF2	IS cabinet for cells, cableway W= 200mm 2000x1000x600mm	97
IS2006MF4	IS cabinet for cells, cableway W= 400mm 2000x1000x600mm	104
IS2006V	IS cabinet with glazed door, 2000x1000x600mm (HxWxD)	120
IS2006VC2	IS cabinet with glazed door, cableway W= 200mm 2000x1000x600mm	139
IS2006VC4	IS cabinet with glazed door, cableway W= 400mm 2000x1000x600mm	139
IS2008	IS cabinet with blind door, 2000x1000x800mm (HxWxD)	136
IS2008FO2	IS cabinet with double horizontal blind door, 200mm 2000x1000x800mm	140
IS2008FO4	IS cabinet with double horizontal blind door, 400mm 2000x1000x800mm	140
IS2008FV2	IS cabinet with double vertical blind door, W= 200mm 2000x1000x800mm	141
IS2008FV5	IS cabinet with double vertical blind door, W= 500mm 2000x1000x800mm	141
IS2008L	IS cabinet with blind door, and desk switchboard, 2000x1000x800mm (HxWxD)	148
IS2008LV	IS cabinet with glazed door, and desk switchboard, 2000x1000x800mm (HxWxD)	146
IS2008MF2	IS cabinet for cells, cableway W= 200mm 2000x1000x800mm	104
IS2008MF4	IS cabinet for cells, cableway W= 400mm 2000x1000x800mm	111
IS2008V	IS cabinet with glazed door, 2000x1000x800mm (HxWxD)	127
IS2008VC2	IS cabinet with glazed door, cableway W= 200mm 2000x1000x800mm	146
IS2008VC4	IS cabinet with glazed door, cableway W= 400mm 2000x1000x800mm	146
IS2020	IS cabinet with blind door, 2000x1200x1000mm(HxWxD)	160
IS2020V	AM board with glazed door, 2000x1200x1000 mm (hxlxp)	146
IS2024	IS cabinet with blind door, 2000x1200x450mm (HxWxD)	147
IS2024FO4	IS cabinet with double horizontal blind door, 400mm 2000x1200x450mm	153
IS2024FV2	IS cabinet with double vertical blind door, W= 200mm 2000x1200x450mm	152
IS2024FV4	IS cabinet with double vertical blind door, W= 400mm 2000x1200x450mm	152
IS2024L	IS cabinet with blind door, and desk switchboard, 2000x1200x450mm (HxWxD)	162
IS2024LV	IS cabinet with glazed door, and desk switchboard, 2000x1200x450mm (HxWxD)	159
IS2024MF4	IS cabinet for cells, cableway W= 400mm 2000x1200x450mm	115
IS2024V	IS cabinet with glazed door, 2000x1200x450mm (HxWxD)	136
IS2024VC2	IS cabinet with glazed door, cableway W= 200mm 2000x1200x450mm	157
IS2024VC4	IS cabinet with glazed door, cableway W= 400mm 2000x1200x450mm	157
IS2026	IS cabinet with blind door, 2000x1200x600mm (HxWxD)	152
IS2026FO2	IS cabinet with double horizontal blind door, top door H=200mm, 2000x1200x600mm	152

Reference	Description	Weight (kg.)
IS2026FO4	IS cabinet with double horizontal blind door, 400mm 2000x1200x600mm	158
IS2026FV2	IS cabinet with double vertical blind door, W= 200mm 2000x1200x600mm	157
IS2026FV4	IS cabinet with double vertical blind door, W= 400mm 2000x1200x600mm	157
IS2026L	IS cabinet with blind door, and desk switchboard, 2000x1200x600mm (HxWxD)	167
IS2026LV	IS cabinet with glazed door, and desk switchboard, 2000x1200x600mm (HxWxD)	164
IS2026MF4	IS cabinet for cells, cableway W= 400mm 2000x1200x600mm	120
IS2026V	IS cabinet with glazed door, 2000x1200x600mm (HxWxD)	141
IS2026VC2	IS cabinet with glazed door, cableway W= 200mm 2000x1200x600mm	162
IS2026VC4	IS cabinet with glazed door, cableway W= 400mm 2000x1200x600mm	162
IS2028	IS cabinet with blind door, 2000x1200x800mm (HxWxD)	159
IS2026FO2	IS cabinet with double horizontal blind door, top door H=200mm, 2000x1200x800mm	159
IS2028FO4	IS cabinet with double horizontal blind door, 400mm 2000x1200x800mm	165
IS2028FV2	IS cabinet with double vertical blind door, W= 200mm 2000x1200x800mm	164
IS2028FV4	IS cabinet with double vertical blind door, W= 400mm 2000x1200x800mm	164
IS2028L	IS cabinet with blind door, and desk switchboard, 2000x1200x800mm (HxWxD)	174
IS2028LV	IS cabinet with glazed door, and desk switchboard, 2000x1200x800mm (HxWxD)	171
IS2028MF4	IS cabinet for cells, cableway W= 400mm 2000x1200x800mm	127
IS2028V	IS cabinet with glazed door, 2000x1200x800mm (HxWxD)	148
IS2028VC2	IS cabinet with glazed door, cableway W= 200mm 2000x1200x800mm	169
IS2028VC4	IS cabinet with glazed door, cableway W= 400mm 2000x1200x800mm	169
IS2044	IS cabinet with blind door, 2000x400x450mm (HxWxD)	70
IS2046	IS cabinet with blind door, 2000x400x600mm (HxWxD)	75
IS2048	IS cabinet with blind door, 2000x400x800mm (HxWxD)	82
IS2060	IS cabinet with blind door, 2000x600x1000mm(HxWxD)	129
IS2060V	IS cabinet with glazed door, 2000x600x1000mm(HxWxD)	120
IS2064	IS cabinet with blind door, 2000x600x450mm (HxWxD)	88
IS2064FO2	IS cabinet with double horizontal blind door, 200mm 2000x600x450mm	90
IS2064FO4	IS cabinet with double horizontal blind door, 400mm 2000x600x450mm	90
IS2064L	IS cabinet with blind door, and desk switchboard, 2000x600x450mm (HxWxD)	96
IS2064LV	IS cabinet with glazed door, and desk switchboard, 2000x600x450mm (HxWxD)	95
IS2064PM	IS cabinet structure only 2000x600x450mm (HxWxD)	63
IS2064V	IS cabinet with glazed door, 2000x600x450mm (HxWxD)	82,5
IS2066	IS cabinet with blind door, 2000x600x600mm (HxWxD)	93
IS2066FO2	IS cabinet with double horizontal blind door, 200mm 2000x600x600mm	95
IS2066FO4	IS cabinet with double horizontal blind door, 400mm 2000x600x600mm	95
IS2066L	IS cabinet with blind door, and desk switchboard, 2000x600x600mm (HxWxD)	101
IS2066LV	IS cabinet with glazed door, and desk switchboard, 2000x600x600mm (HxWxD)	100
IS2066PC	IS cabinet for computer, 2000x600x600mm (HxWxD)	94,5

Code list and weights

Reference	Description	Weight (kg.)
IS2066PM	IS cabinet structure only 2000x600x600mm (HxWxD)	68
IS2066V	IS cabinet with glazed door, 2000x600x600mm (HxWxD)	87,5
IS2068	IS cabinet with blind door, 2000x600x800mm (HxWxD)	100
IS2068FO2	IS cabinet with double horizontal blind door, 200mm 2000x600x800mm	102
IS2068FO4	IS cabinet with double horizontal blind door, 400mm 2000x600x800mm	102
IS2068L	IS cabinet with blind door, and desk switchboard, 2000x600x800mm (HxWxD)	108
IS2068LV	IS cabinet with glazed door, and desk switchboard, 2000x600x800mm (HxWxD)	107
IS2068PM	IS cabinet structure only 2000x600x800mm (HxWxD)	75
IS2068V	IS cabinet with glazed door, 2000x600x800mm (HxWxD)	94,5
IS2080	IS cabinet with blind door, 2000x800x1000mm(HxWxD)	140
IS2080V	IS cabinet with glazed door, 2000x800x1000mm(HxWxD)	129
IS2080V	AM board with glazed door, 2000x 800x1000 mm (hxlxp)	94,5
IS2084	IS cabinet with blind door, 2000x800x450mm (HxWxD)	106
IS2084FO2	IS cabinet with double horizontal blind door, 200mm 2000x800x450mm	109
IS2084FO4	IS cabinet with double horizontal blind door, 400mm 2000x800x450mm	109
IS2084FV2	IS cabinet with double vertical blind door, W= 200mm 2000x800x450mm	111
IS2084FV4	IS cabinet with double vertical blind door, W= 400mm 2000x800x450mm	111
IS2084L	IS cabinet with blind door, and desk switchboard, 2000x800x450mm (HxWxD)	116
IS2084LV	IS cabinet with glazed door, and desk switchboard, 2000x800x450mm (HxWxD)	115
IS2084MF2	IS cabinet for cells, cableway W= 200mm 2000x800x450mm	81
IS2084PM	IS cabinet structure only 2000x800x450mm (HxWxD)	74
IS2084V	IS cabinet with glazed door, 2000x800x450mm (HxWxD)	99
IS2084VC2	IS cabinet with glazed door, cableway W= 200mm 2000x800x450mm	116
IS2086	IS cabinet with blind door, 2000x800x600mm (HxWxD)	111
IS2086FO2	IS cabinet with double horizontal blind door, 200mm 2000x800x600mm	114
IS2086FO4	IS cabinet with double horizontal blind door, 400mm 2000x800x600mm	114
IS2086FV2	IS cabinet with double vertical blind door, W= 200mm 2000x800x600mm	116
IS2086FV4	IS cabinet with double vertical blind door, W= 400mm 2000x800x600mm	116
IS2086L	IS cabinet with blind door, and desk switchboard, 2000x800x600mm (HxWxD)	121
IS2086LV	IS cabinet with glazed door, and desk switchboard, 2000x800x600mm (HxWxD)	120
IS2086MF2	IS cabinet for cells, cableway W= 200mm 2000x800x600mm	86
IS2086PM	IS cabinet structure only 2000x800x600mm (HxWxD)	79
IS2086V	IS cabinet with glazed door, 2000x800x600mm (HxWxD)	104
IS2086VC2	IS cabinet with glazed door, cableway W= 200mm 2000x800x600mm	121
IS2088	IS cabinet with blind door, 2000x800x800mm (HxWxD)	118
IS2088FO2	IS cabinet with double horizontal blind door, 200mm 2000x800x800mm	121
IS2088FO4	IS cabinet with double horizontal blind door, 400mm 2000x800x800mm	121
IS2088FV2	IS cabinet with double vertical blind door, W= 200mm 2000x800x800mm	123
IS2088FV4	IS cabinet with double vertical blind door, W= 400mm 2000x800x800mm	123
IS2088L	IS cabinet with blind door, and desk switchboard, 2000x800x800mm (HxWxD)	128

Reference	Description	Weight (kg.)
IS2088LV	IS cabinet with glazed door, and desk switchboard, 2000x800x800mm (HxWxD)	127
IS2088MF2	IS cabinet for cells, cableway W= 200mm 2000x800x800mm	93
IS2088PM	IS cabinet structure only 2000x800x800mm (HxWxD)	86
IS2088V	IS cabinet with glazed door, 2000x800x800mm (HxWxD)	111
IS2088VC2	IS cabinet with glazed door, cableway W= 200mm 2000x800x800mm	128
IS2200	IS cabinet with blind door, 2200x1000x1000mm(HxWxD)	154
IS2200V	IS cabinet with glazed door, 2200x1000x1000mm(HxWxD)	146
IS2204	IS cabinet with blind door, 2200x1000x450mm (HxWxD)	134
IS2204FO2	IS cabinet with double horizontal blind door, 200mm 2200x1000x450mm	138
IS2204FO4	IS cabinet with double horizontal blind door, 400mm 2200x1000x450mm	138
IS2204FV2	IS cabinet with double vertical blind door, W= 200mm 2200x1000x450mm	140
IS2204FV5	IS cabinet with double vertical blind door, W= 500mm 2200x1000x450mm	140
IS2204L	IS cabinet with blind door, and desk switchboard, 2200x1000x450mm (HxWxD)	146
IS2204LV	IS cabinet with glazed door, and desk switchboard, 2200x1000x450mm (HxWxD)	144
IS2204MF2	IS cabinet for cells, cableway W= 200mm 2200x1000x450mm	99
IS2204MF4	IS cabinet for cells, cableway W= 400mm 2200x1000x450mm	107
IS2204V	IS cabinet with glazed door, 2200x1000x450mm (HxWxD)	124
IS2204VC2	IS cabinet with glazed door, cableway W= 200mm 2200x1000x450mm	144
IS2204VC4	IS cabinet with glazed door, cableway W= 400mm 2200x1000x450mm	144
IS2206	IS cabinet with blind door, 2200x1000x600mm (HxWxD)	139
IS2206FO2	IS cabinet with double horizontal blind door, 200mm 2200x1000x600mm	143
IS2206FO4	IS cabinet with double horizontal blind door, 400mm 2200x1000x600mm	143
IS2206FV2	IS cabinet with double vertical blind door, W= 200mm 2200x1000x600mm	145
IS2206FV5	IS cabinet with double vertical blind door, W= 500mm 2200x1000x600mm	145
IS2206L	IS cabinet with blind door, and desk switchboard, 2200x1000x600mm (HxWxD)	151
IS2206LV	IS cabinet with glazed door, and desk switchboard, 2200x1000x600mm (HxWxD)	149
IS2206MF2	IS cabinet for cells, cableway W= 200mm 2200x1000x600mm	104
IS2206MF4	IS cabinet for cells, cableway W= 400mm 2200x1000x600mm	112
IS2206V	IS cabinet with glazed door, 2200x1000x600mm (HxWxD)	129
IS2206VC2	IS cabinet with glazed door, cableway W= 200mm 2200x1000x600mm	149
IS2206VC4	IS cabinet with glazed door, cableway W= 400mm 2200x1000x600mm	149
IS2208	IS cabinet with blind door, 2200x1000x800mm (HxWxD)	146
IS2208FO2	IS cabinet with double horizontal blind door, 200mm 2200x1000x800mm	150
IS2208FO4	IS cabinet with double horizontal blind door, 400mm 2200x1000x800mm	150
IS2208FV2	IS cabinet with double vertical blind door, W= 200mm 2200x1000x800mm	152
IS2208FV5	IS cabinet with double vertical blind door, W= 500mm 2200x1000x800mm	152
IS2208L	IS cabinet with blind door, and desk switchboard, 2200x1000x800mm (HxWxD)	158

Code list and weights

Reference	Description	Weight (kg.)
IS2208LV	IS cabinet with glazed door, and desk switchboard, 2200x1000x800mm (HxWxD)	156
IS2208MF2	IS cabinet for cells, cableway W= 200mm 2200x1000x800mm	111
IS2208MF4	IS cabinet for cells, cableway W= 400mm 2200x1000x800mm	119
IS2208V	IS cabinet with glazed door, 2200x1000x800mm (HxWxD)	136
IS2208VC2	IS cabinet with glazed door, cableway W= 200mm 2200x1000x800mm	159
IS2208VC4	IS cabinet with glazed door, cableway W= 400mm 2200x1000x800mm	159
IS2220	IS cabinet with blind door, 2200x1200x1000mm(HxWxD)	160
IS2220V	IS cabinet with glazed door, 2200x1200x1000 mm (HxWxD)	159
IS2224	IS cabinet with blind door, 2200x1200x450mm (HxWxD)	162
IS2224FO4	IS cabinet with double horizontal blind door, 400mm 2200x1200x450mm	168
IS2224FV2	IS cabinet with double vertical blind door, W= 200mm 2200x1200x450mm	168
IS2224FV4	IS cabinet with double vertical blind door, W= 400mm 2200x1200x450mm	168
IS2224L	IS cabinet with blind door, and desk switchboard, 2200x1200x450mm (HxWxD)	177
IS2224LV	IS cabinet with glazed door, and desk switchboard, 2200x1200x450mm (HxWxD)	174
IS2224MF4	IS cabinet for cells, cableway W= 400mm 2200x1200x450mm	127
IS2224V	IS cabinet with glazed door, 2200x1200x450mm (HxWxD)	150
IS2224VC2	IS cabinet with glazed door, cableway W= 200mm 2200x1200x450mm	172
IS2224VC4	IS cabinet with glazed door, cableway W= 400mm 2200x1200x450mm	172
IS2226	IS cabinet with blind door, 2200x1200x600mm (HxWxD)	167
IS2226FO4	IS cabinet with double horizontal blind door, 400mm 2200x1200x600mm	173
IS2226FV2	IS cabinet with double vertical blind door, W= 200mm 2200x1200x600mm	173
IS2226FV4	IS cabinet with double vertical blind door, W= 400mm 2200x1200x600mm	173
IS2226L	IS cabinet with blind door, and desk switchboard, 2200x1200x600mm (HxWxD)	182
IS2226LV	IS cabinet with glazed door, and desk switchboard, 2200x1200x600mm (HxWxD)	179
IS2226MF4	IS cabinet for cells, cableway W= 400mm 2200x1200x600mm	132
IS2226V	IS cabinet with glazed door, 2200x1200x600mm (HxWxD)	155
IS2226VC2	IS cabinet with glazed door, cableway W= 200mm 2200x1200x600mm	177
IS2226VC4	IS cabinet with glazed door, cableway W= 400mm 2200x1200x600mm	177
IS2228	IS cabinet with blind door, 2200x1200x800mm (HxWxD)	174
IS2228FO4	IS cabinet with double horizontal blind door, 400mm 2200x1200x800mm	180
IS2228FV2	IS cabinet with double vertical blind door, W= 200mm 2200x1200x800mm	180
IS2228FV4	IS cabinet with double vertical blind door, W= 400mm 2200x1200x800mm	180
IS2228L	IS cabinet with blind door, and desk switchboard, 2200x1200x800mm (HxWxD)	189
IS2228LV	IS cabinet with glazed door, and desk switchboard, 2200x1200x800mm (HxWxD)	186
IS2228MF4	IS cabinet for cells, cableway W= 400mm 2200x1200x800mm	139
IS2228V	IS cabinet with glazed door, 2200x1200x800mm (HxWxD)	162
IS2228VC2	IS cabinet with glazed door, cableway W= 200mm 2200x1200x800mm	184
IS2228VC4	IS cabinet with glazed door, cableway W= 400mm 2200x1200x800mm	184

Reference	Description	Weight (kg.)
IS2244	IS cabinet with blind door, 2200x400x450mm (HxWxD)	74
IS2246	IS cabinet with blind door, 2200x400x600mm (HxWxD)	79
IS2248	IS cabinet with blind door, 2200x400x800mm (HxWxD)	86
IS2260	IS cabinet with blind door, 2200x600x1000mm(HxWxD)	139
IS2260V	IS cabinet with glazed door, 2200x 600x1000 mm (HxWxD)	102
IS2264	IS cabinet with blind door, 2200x600x450mm (HxWxD)	94
IS2264FO2	IS cabinet with double horizontal blind door, 200mm 2200x600x450mm	96
IS2264FO4	IS cabinet with double horizontal blind door, 400mm 2200x600x450mm	96
IS2264L	IS cabinet with blind door, and desk switchboard, 2200x600x450mm (HxWxD)	102
IS2264LV	IS cabinet with glazed door, and desk switchboard, 2200x600x450mm (HxWxD)	101
IS2264PM	IS cabinet structure only 2200x600x450mm (HxWxD)	67
IS2264V	IS cabinet with glazed door, 2200x600x450mm (HxWxD)	88
IS2266	IS cabinet with blind door, 2200x600x600mm (HxWxD)	99
IS2266FO2	IS cabinet with double horizontal blind door, 200mm 2200x600x600mm	101
IS2266FO4	IS cabinet with double horizontal blind door, 400mm 2200x600x600mm	101
IS2266L	IS cabinet with blind door, and desk switchboard, 2200x600x600mm (HxWxD)	107
IS2266LV	IS cabinet with glazed door, and desk switchboard, 2200x600x600mm (HxWxD)	106
IS2266PM	IS cabinet structure only 2200x600x600mm (HxWxD)	72
IS2266V	IS cabinet with glazed door, 2200x600x600mm (HxWxD)	93
IS2268	IS cabinet with blind door, 2200x600x800mm (HxWxD)	106
IS2268FO2	IS cabinet with double horizontal blind door, 200mm 2200x600x800mm	108
IS2268FO4	IS cabinet with double horizontal blind door, 400mm 2200x600x800mm	108
IS2268L	IS cabinet with blind door, and desk switchboard, 2200x600x800mm (HxWxD)	116
IS2268LV	IS cabinet with glazed door, and desk switchboard, 2200x600x800mm (HxWxD)	115
IS2268PM	IS cabinet structure only 2200x600x800mm (HxWxD)	79
IS2268V	IS cabinet with glazed door, 2200x600x800mm (HxWxD)	100
IS2280	IS cabinet with blind door, 2200x800x1000mm(HxWxD)	146
IS2280V	IS cabinet with glazed door, 2200x 800x1000 mm (HxWxD)	114
IS2284	IS cabinet with blind door, 2200x800x450mm (HxWxD)	114
IS2284FO2	IS cabinet with double horizontal blind door, 200mm 2200x800x450mm	117
IS2284FO4	IS cabinet with double horizontal blind door, 400mm 2200x800x450mm	117
IS2284FV2	IS cabinet with double vertical blind door, W= 200mm 2200x800x450mm	120
IS2284FV4	IS cabinet with double vertical blind door, W= 400mm 2200x800x450mm	120
IS2284L	IS cabinet with blind door, and desk switchboard, 2200x800x450mm (HxWxD)	124
IS2284LV	IS cabinet with glazed door, and desk switchboard, 2200x800x450mm (HxWxD)	123
IS2284MF2	IS cabinet for cells, cableway W= 200mm 2200x800x450mm	87
IS2284PM	IS cabinet structure only 2200x800x450mm (HxWxD)	79
IS2284V	IS cabinet with glazed door, 2200x800x450mm (HxWxD)	106
IS2284VC2	IS cabinet with glazed door, cableway W= 200mm 2200x800x450mm	124
IS2286	IS cabinet with blind door, 2200x800x600mm (HxWxD)	119
IS2286FO2	IS cabinet with double horizontal blind door, 200mm 2200x800x600mm	122

Code list and weights

Reference	Description	Weight (kg.)
IS2286F04	IS cabinet with double horizontal blind door, 400mm 2200x800x600mm	122
IS2286FV2	IS cabinet with double vertical blind door, W= 200mm 2200x800x600mm	125
IS2286FV4	IS cabinet with double vertical blind door, W= 400mm 2200x800x600mm	125
IS2286L	IS cabinet with blind door, and desk switchboard, 2200x800x600mm (HxWxD)	129
IS2286LV	IS cabinet with glazed door, and desk switchboard, 2200x800x600mm (HxWxD)	128
IS2286MF2	IS cabinet for cells, cableway W= 200mm 2200x800x600mm	92
IS2286PM	IS cabinet structure only 2200x800x600mm (HxWxD)	84
IS2286V	IS cabinet with glazed door, 2200x800x600mm (HxWxD)	111
IS2286VC2	IS cabinet with glazed door, cableway W= 200mm 2200x800x600mm	129
IS2288	IS cabinet with blind door, 2200x800x800mm (HxWxD)	126
IS2288F02	IS cabinet with double horizontal blind door, 200mm 2200x800x800mm	129
IS2288F04	IS cabinet with double horizontal blind door, 400mm 2200x800x800mm	129
IS2288FV2	IS cabinet with double vertical blind door, W= 200mm 2200x800x800mm	132
IS2288FV4	IS cabinet with double vertical blind door, W= 400mm 2200x800x800mm	132
IS2288L	IS cabinet with blind door, and desk switchboard, 2200x800x800mm (HxWxD)	136
IS2288LV	IS cabinet with glazed door, and desk switchboard, 2200x800x800mm (HxWxD)	135
IS2288MF2	IS cabinet for cells, cableway W= 200mm 2200x800x800mm	99
IS2288PM	IS cabinet structure only 2200x800x800mm (HxWxD)	91
IS2288V	IS cabinet with glazed door, 2200x800x800mm (HxWxD)	118
IS2288VC2	IS cabinet with glazed door, cableway W= 200mm 2200x800x800mm	136
KA1060	Automation kit: blind inner door and mounting plate, 1000x600mm(HxW), SR	25,5
KA1080	Automation kit: blind inner door and mounting plate, 1000x800mm(HxW), SR	27,7
KA1260	Automation kit: blind inner door and mounting plate, 1200x600mm(HxW), SR	29,4
KA1280	Automation kit: blind inner door and mounting plate, 1200x800mm(HxW), SR	30,8
KA5040	Automation kit: blind inner door and mounting plate, 500x400mm(HxW), SR	20
KA6040	Automation kit: blind inner door and mounting plate, 600x400mm(HxW), SR	21,3
KA7050	Automation kit: blind inner door and mounting plate, 700x500mm(HxW), SR	22,8
KA8060	Automation kit: blind inner door and mounting plate, 800x600mm(HxW), SR	24
KD1060	Uprights for modular panel, model 125 DIN SR (2 off)	2,4
KD1080	Uprights for modular panel, model 180 DIN SR (2 off)	2,95
KD1260	Uprights for modular panel, model 150 DIN SR (2 off)	3,2
KD1280	Uprights for modular panel, model 216 DIN SR (2 off)	3,7
KD5040	Uprights for modular panel, model 28 DIN SR (2 off)	1,7
KD6040	Uprights for modular panel, model 42 DIN SR (2 off)	1,8
MA1818	Backing kit for mounting plate, AM	1
MA2095	Painted plate supports, AM	0,7
MA2096	Mounting plate supports, AM	0,7
MD1007	Uprights for AM panels, h=1000mm (2 off)	2,67
MD1207	Uprights for AM panels, h=1200mm (2 off)	3,25

Reference	Description	Weight (kg.)
MD1407	Uprights for AM panels, h=1400mm (2 off)	3,89
MD1607	Uprights for AM panels, h=1600mm (2 off)	4,43
MD1807	Uprights for AM panels, h=1800mm (2 off)	5,02
MD1808	Uprights for IS panels, h=1800mm (2 off)	5,2
MD2007	Uprights for AM panels, h=2000mm (2 off)	2,1
MD2008	Uprights for IS panels, h=2000mm (2 off)	2,1
MD2208	Uprights for IS panels, h=2200mm (2 off)	2,5
MD2787	DIN rail support, AM (2 off)	0,25
MD2808	DIN rail support, IS (2 off)	0,25
MD3620	Fixed blind panel, 200x600mm (HxW), IS-AM	1,5
MD3621	Fixed instrumentation panel, 72x72-200x600mm (HxW), IS-AM	1,5
MD3622	Fixed panel, 24 DIN modules, 200x600mm (HxW), IS-AM	1,2
MD3623	Blind panel, 400x600mm (HxW), IS-AM	2,778
MD3624	Fixed panel, 48 DIN modules, 400x600mm (HxW), IS-AM	2,4
MD3625	Fixed blind panel, 600x600mm (HxW), IS-AM	4,07
MD3627	Dummy panel, 100x600mm (HxW), IS-AM	0,725
MD3629	Fixed instrumentation panel, 96x96-200x600mm (HxW), IS-AM	1,5
MD3660	Hinged blind panel, 200x600mm (HxW), IS-AM	1,5
MD3661	Hinged instrumentation panel, 72x72-200x600mm (HxW), IS-AM	1,5
MD3662	Hinged panel, 23 DIN modules, 200x600mm (HxW), IS-AM	1,3
MD3663	Hinged blind panel, 400x600mm (HxW), IS-AM	2,8
MD3664	Hinged panel, 46 DIN modules, 400x600mm (HxW), IS-AM	2,4
MD3665	Hinged blind panel, 600x600mm (HxW), IS-AM	4,07
MD3690	Fixed blind panel, 200x800mm (HxW), IS-AM	2,15
MD3691	Fixed instrumentation panel, 72x72-200x800mm (HxW), IS-AM	2,15
MD3692	Fixed panel, 35 DIN modules, 200x800mm (HxW), IS-AM	1,7
MD3693	Fixed blind panel, 400x800mm (HxW), IS-AM	4
MD3694	Fixed panel, 70 DIN modules, 400x800mm (HxW), IS-AM	4
MD3695	Fixed blind panel, 600x800mm (HxW), IS-AM	4
MD3697	Dummy panel, 100x800mm (HxW), IS-AM	1
MD3699	Fixed instrumentation panel, 96x96-200x800mm (HxW), IS-AM	2,15
MD3720	Hinged blind panel, 200x800mm (HxW), IS-AM	2,1
MD3721	Hinged instrumentation panel, 72x72-200x800mm (HxW), IS-AM	2,1
MD3722	Hinged panel, 34 DIN modules, 200x800mm (HxW), IS-AM	1,25
MD3723	Hinged blind panel, 400x800mm (HxW), IS-AM	4
MD3724	Hinged panel, 68 DIN modules, 400x600mm (HxW), IS-AM	2,4
MD3725	Hinged blind panel, 600x800mm (HxW), IS-AM	5,8
MD3729	Hinged instrumentation panel, 96x96-200x800mm (HxW), IS-AM	2,1
MD7306	DIN rail l=600mm IS-AM	0,2
MD7308	DIN rail l=800mm IS-AM	0,2
MD7310	DIN rail l=1000mm IS-AM	0,2
MD7336	DIN rail kit, with rail l=600mm, AM	0,5
MD7338	DIN rail kit, with rail l=800mm, AM	0,5
MD7346	DIN rail kit, with rail l=600mm, IS	0,433
MD7348	DIN rail kit, with rail l=800mm, IS	0,54
PC1406	Blind hinged modular panel, 185x400mm (HxW), SR	2,8
PC1606	Blind hinged modular panel, 185x600mm (HxW), SR	2,6
PC1806	Blind hinged modular panel, 185x800mm (HxW), SR	1,5
PC2606	Blind hinged modular panel, 370x600mm (HxW), SR	2,5
PC2806	Blind hinged modular panel, 370x800mm (HxW), SR	3
PF1010	Mounting plate 1000x1000mm (HxW), AM-IS	14
PF1012	Mounting plate 1000x1200mm (HxW), AM	17
PF1060	Mounting plate 1000x600mm (HxW), SR	8
PF1067	Mounting plate 1000x600mm (HxW), AM	8
PF1080	Mounting plate 1000x800mm (HxW), SR	11
PF1087	Mounting plate 1000x800mm (HxW), AM	11
PF1210	Mounting plate 1200x1000mm (HxW), AM	17
PF1212	Mounting plate 1200x1200mm (HxW), AM	20,5
PF1260	Mounting plate 1200x600mm (HxW), SR	10
PF1267	Mounting plate 1200x600mm (HxW), AM	10

Code list and weights

Reference	Description	Weight (kg.)
PF1280	Mounting plate 1200x800mm (HxW), SR	13,5
PF1287	Mounting plate 1200x800mm (HxW), AM	13,5
PF1410	Mounting plate 1400x1000mm (HxW), AM	22
PF1412	Mounting plate 1400x1200mm (HxW), AM	27
PF1460	Mounting plate 1400x600mm (HxW), AM	12
PF1480	Mounting plate 1400x800mm (HxW), AM	17
PF1505	Mounting plate 150x700mm (HxW), AM PC	6,75
PF1610	Mounting plate 1600x1000mm (HxW), AM	26
PF1612	Mounting plate 1600x1200mm (HxW), AM	32
PF1660	Mounting plate 1600x600mm (HxW), AM	14
PF1680	Mounting plate 1600x800mm (HxW), AM	20
PF1810	Mounting plate 1800x1000mm (HxW), IS	35
PF1812	Mounting plate 1800x1200mm (HxW), IS	42
PF1813	Mounting plate 1800x1200mm (HxW), IS	43,8
PF1819	Mounting plate 1800x1000mm (HxW), IS	36,9
PF1840	Mounting plate 1800x400mm (HxW), IS	14
PF1841	Mounting plate 1800x400mm (HxW), IS	16,4
PF1868	Mounting plate 1800x600mm (HxW), IS-AM	21
PF1869	Mounting plate 1800x600mm (HxW), IS	23,2
PF1888	Mounting plate 1800x800mm (HxW), IS-AM	28
PF1889	Mounting plate 1800x800mm (HxW), IS	30,1
PF2010	Mounting plate 2000x1000mm (HxW), IS	38
PF2012	Mounting plate 2000x1200mm (HxW), IS	45,5
PF2013	Mounting plate 2000x1200mm (HxW), IS	48,8
PF2019	Mounting plate 2000x1000mm (HxW), IS	41,2
PF2040	Mounting plate 2000x400mm (HxW), IS	15,5
PF2041	Mounting plate 2000x400mm (HxW), IS	20,2
PF2068	Mounting plate 2000x600mm (HxW), IS-AM	23
PF2069	Mounting plate 2000x600mm (HxW), IS	25,9
PF2088	Mounting plate 2000x800mm (HxW), IS-AM	30,5
PF2089	Mounting plate 2000x800mm (HxW), IS	33,5
PF2210	Mounting plate 2200x1000mm (HxW), IS	42,5
PF2212	Mounting plate 2200x1200mm (HxW), IS	51
PF2213	Mounting plate 2200x1200mm (HxW), IS	53,8
PF2219	Mounting plate 2200x1000mm (HxW), IS	45,4
PF2240	Mounting plate 2200x400mm (HxW), IS	17
PF2241	Mounting plate 2200x400mm (HxW), IS	20,2
PF2260	Mounting plate 2200x600mm (HxW), IS	25,5
PF2269	Mounting plate 2200x600mm (HxW), IS	28,6
PF2280	Mounting plate 2200x800mm (HxW), IS	34
PF2289	Mounting plate 2200x800mm (HxW), IS	37
PF2838	Mounting connector plate, 23 slots, 1800x450mm (HxD) IS	12,96
PF2839	Mounting connector plate, 45 slots 1800x600mm (HxD) IS	17,28
PF2840	Mounting connector plate, blind, 1800x450mm(HxD) IS	12,9
PF2841	Mounting connector plate, blind, 1800x600mm(HxD) IS	17,2
PF2842	Mounting connector plate, blind, 2000x450mm(HxD) IS	14,4
PF2843	Mounting connector plate, blind, 2000x600mm(HxD) IS	17,2
PF3020	Mounting plate 300x200mm (HxW), SR	0,66
PF3030	Mounting plate 300x300mm (HxW), SR	1,07
PF3037	Mounting connector plate, 25 slots 2000x450mm (hxd) IS	14,4
PF3038	Mounting connector plate, 50 slots 2000x600mm (hxd) IS	19,2
PF3040	Mounting plate 300x400mm (HxW), SR	1,48
PF3393	Mounting plate 200x600mm (HxW), IS-AM	0,9
PF3397	Mounting plate 400x600mm (HxW), IS-AM	2
PF3401	Mounting plate 600x600mm (HxW), IS-AM	3,3
PF3408	Mounting plate 800x600mm (HxW), IS	4,5
PF3426	Mounting plate 1000x600mm (HxW), IS	8
PF3472	Mounting plate 200x800mm (HxW), IS-AM	1,3
PF3476	Mounting plate 400x800mm (HxW), IS-AM	3
PF3483	Mounting plate 600x800mm (HxW), IS-AM	4,7

Reference	Description	Weight (kg.)
PF3487	Mounting plate 800x800mm (HxW), IS	6,3
PF3559	Mounting plate 1000x800mm (HxW), IS	11
PF4030	Mounting plate 400x300mm (HxW), SR	1,48
PF4040	Mounting plate 400x400mm (HxW), SR	2,05
PF4060	Mounting plate 400x600mm (HxW), SR	3,34
PF5030	Mounting plate 500x300mm (HxW), SR	1,9
PF5040	Mounting plate 500x400mm (HxW), SR	2,62
PF6040	Mounting plate 600x400mm (HxW), SR	3,34
PF6060	Mounting plate 600x600mm (HxW), SR	5,1
PF6256	Mounting plate l=600mm CN basis	6,2
PF6258	Mounting plate l=800mm CA-CM-CN-CD basis	8,4
PF6260	Mounting plate l=1000mm CA-CM-CN-CD basis	10,5
PF6262	Mounting plate l=1200mm CA-CM-CN-CD basis	16
PF6266	Mounting plate l=1600mm CA-CD basis	21,5
PF6278	Mounting plate for upper cons. l=800mm CA-CD	4,6
PF6280	Mounting plate for upper cons. l=1000mm CA-CD	5,8
PF6282	Mounting plate for upper cons. l=1200mm CA-CD	8,8
PF6286	Mounting plate for upper cons. l=1600mm CA-CD	11,8
PF6346	Mounting plate l=600mm CU basis	9
PF6348	Mounting plate l=800mm CU basis	12
PF6350	Mounting plate l=1000mm CU basis	15
PF6352	Mounting plate l=1200mm CU basis	18,5
PF7050	Mounting plate 700x500mm (HxW), SR	4,95
PF8060	Mounting plate 800x600mm (HxW), SR	6,97
PF8080	Mounting plate 800x800mm (HxW), SR	9,4
PL1810	Side panel, 1800x1000 mm (HxW), AM	30
PL1845	Side panel, 1800x450mm (HxW), IS (2 off)	15,6
PL1860	Side panel, 1800x600mm (HxW), IS (2 off)	22
PL1880	Side panel, 1800x800mm (HxW), IS (2 off)	30,8
PL2010	Side panel, 2000x1000 mm (HxW), AM	19,53
PL2045	Side panel, 2000x450mm (HxW), IS (2 off)	17,4
PL2060	Side panel, 2000x600mm (HxW), IS (2 off)	24,6
PL2080	Side panel, 2000x800mm (HxW), IS (2 off)	34
PL2210	Side panel, 2200x1000 mm (HxW), AM	21
PL2245	Side panel, 2200x450mm (HxW), IS (2 off)	19,2
PL2260	Side panel, 2200x600mm (HxW), IS (2 off)	27
PL2280	Side panel, 2200x800mm (HxW), IS (2 off)	37,6
PM1414	Hinged panel, 14 DIN modules complete with DIN rails and support, 200x400mm(HxW), SR	2,4
PM1625	Hinged panel, 25 DIN modules complete with DIN rails and support, 200x600mm(HxW), SR	3
PM1836	Hinged panel, 36 DIN modules complete with DIN rails and support, 200x800mm(HxW), SR	3,7
PP1010	Back panel, 1000x1000mm (HxW), AM	13,577
PP1012	Back panel, 1000x1200mm (HxW), AM	15
PP1060	Back panel, 1000x600mm (HxW), AM	8,007
PP1080	Back panel, 1000x800mm (HxW), AM	11
PP1210	Back panel, 1200x1000mm (HxW), AM	16,095
PP1212	Back panel, 1200x1200mm (HxW), AM	19,266
PP1260	Back panel, 1200x600mm (HxW), AM	10
PP1280	Back panel, 1200x800mm (HxW), AM	16,095
PP1410	Back panel, 1400x1000mm (HxW), AM	18,77
PP1412	Back panel, 1400x1200mm (HxW), AM	22,36
PP1460	Back panel, 1400x600mm (HxW), AM	11,597
PP1480	Back panel, 1400x800mm (HxW), AM	15,183
PP1610	Back panel, 1600x1000mm (HxW), AM	21,369
PP1612	Back panel, 1600x1200mm (HxW), AM	25,45
PP1660	Back panel, 1600x600mm (HxW), AM	12,776
PP1680	Back panel, 1600x800mm (HxW), AM	17,22
PP1810	Back panel, 1800x1000mm (HxW), IS	17,1

Code list and weights

Reference	Description	Weight (kg.)
PP1812	Back panel, 1800x1200mm (HxW), IS	28,54
PP1840	Back panel, 1800x400mm (HxW), IS	10,21
PP1860	Back panel, 1800x600mm (HxW), IS-AM	14,84
PP1880	Back panel, 1800x800mm (HxW), IS-AM	19,384
PP2010	Back panel, 2000x1000mm (HxW), IS	26,35
PP2012	Back panel, 2000x1200mm (HxW), IS	31,63
PP2040	Back panel, 2000x400mm (HxW), IS	11,865
PP2060	Back panel, 2000x600mm (HxW), IS-AM	16,5
PP2080	Back panel, 2000x800mm (HxW), IS-AM	21,5
PP2210	Back panel, 2200x1000mm (HxW), IS	29,152
PP2212	Back panel, 2200x1200mm (HxW), IS	31,433
PP2240	Back panel, 2200x400mm (HxW), IS	12,29
PP2260	Back panel, 2200x600mm (HxW), IS	17,82
PP2280	Back panel, 2200x800mm (HxW), IS	23,555
PR1010	Blind door, 1000x1000mm (HxW), AM	27
PR1012	Blind door, 1000x1200mm (HxW), (2 doors, 600mm wide) AM	37
PR1066	Blind door, 1000x600mm (HxW), SR	8,5
PR1067	Blind door, 1000x600mm (HxW), AM	10
PR1068	Blind door, 1000x600mm (HxW), IS	11
PR1086	Blind door, 1000x800mm (HxW), SR	11,5
PR1087	Blind door, 1000x800mm (HxW), AM	15
PR1088	Blind door, 1000x800mm (HxW), IS	15
PR1210	Blind door, 1200x1000mm (HxW), AM	30
PR1212	Blind door, 1200x1200mm (HxW), (2 doors, 600mm wide) AM	35
PR1260	Blind door, 1200x600mm (HxW), AM	16
PR1266	Blind door, 1200x600mm (HxW), SR	10
PR1286	Blind door, 1200x800mm (HxW), SR	13
PR1287	Blind door, 1200x800mm (HxW), AM	22
PR1410	Blind door, 1400x1000mm (HxW), AM	30
PR1412	Blind door, 1400x1200mm (HxW), (2 doors, 600mm wide) AM	35
PR1460	Blind door, 1400x600mm (HxW), AM	17
PR1480	Blind door, 1400x800mm (HxW), AM	22
PR1610	Blind door, 1600x1000mm (HxW), AM	30
PR1612	Blind door, 1600x1200mm (HxW), (2 doors, 600mm wide) AM	38
PR1660	Blind door, 1600x600mm (HxW), AM	20
PR1680	Blind door, 1600x800mm (HxW), AM	25
PR1800	Blind door, with vertical band, 1800x200 mm (HxW), IS	9
PR1810	Blind door, 1800x1000mm (HxW), IS	37
PR1812	Blind door, 1800x1200mm (HxW), (2 doors, 600mm wide) IS	42
PR1840	Blind door, 1800x400mm (HxW), IS	17
PR1860	Blind door, 1800x600mm (HxW), IS-AM	21
PR1880	Blind door, 1800x800mm (HxW), IS-AM	26
PR2000	Blind door, 2000x200 mm (HxW), IS	9,5
PR2010	Blind door, 2000x1000mm (HxW), IS	35
PR2012	Blind door, 2000x1200mm (HxW), (2 doors, 600mm wide) IS	38
PR2040	Blind door, 2000x400mm (HxW), IS	12
PR2060	Blind door, 2000x600mm (HxW), IS-AM	23
PR2068	Blind door, 200x600mm (HxW), IS	2,1
PR2080	Blind door, 2000x800mm (HxW), IS-AM	26
PR2088	Blind door, 200x800mm (HxW), IS	4
PR2200	Blind door, 2200x200 mm (HxW), IS	12
PR2210	Blind door, 2200x1000mm (HxW), IS	55
PR2212	Blind door, 2200x1200mm (HxW), (2 doors, 600mm wide) IS	58
PR2240	Blind door, 2200x400mm (HxW), IS	22
PR2260	Blind door, 2200x600mm (HxW), IS	25
PR2280	Blind door, 2200x800mm (HxW), IS	30
PR2600	Blind recessed panel, 200x600 mm M, K	2
PR2800	Blind recessed panel, 200x800 mm M, K	2,8
PR3006	Blind door, 300x300mm (HxW), SR	1,5
PR3026	Blind door, 300x200mm (HxW), SR	1

Reference	Description	Weight (kg.)
PR3046	Blind door, 300x400mm (HxW), SR	1,7
PR4036	Blind door, 400x300mm (HxW), SR	2,1
PR4046	Blind door, 400x400mm (HxW), SR	2,61
PR4060	Blind door, 400x600mm (HxW), IS	5
PR4066	Blind door, 400x600mm (HxW), SR	3,5
PR4080	Blind door, 400x800mm (HxW), IS	6
PR5036	Blind door, 500x300mm (HxW), SR	2,5
PR5046	Blind door, 500x400mm (HxW), SR	3
PR6046	Blind door, 600x400mm (HxW), SR	3,5
PR6060	Blind door, 600x600mm (HxW), IS	7
PR6066	Blind door, 600x600mm (HxW), SR	5
PR6080	Blind door, 600x800mm (HxW), IS	9
PR7056	Blind door, 700x500mm (HxW), SR	5
PR8066	Blind door, 800x600mm (HxW), SR	6,2
PR8068	Blind door, 800x600mm (HxW), IS	6,2
PR8080	Blind door, 800x800mm (HxW), IS	8,5
PR8086	Blind door, 800x800mm (HxW), SR	8,5
PS2476	Hinged instrumentation panel, 72x72mm, 185x400mm (lxh) SR	1
PS2676	Hinged instrumentation panel, 72x72mm, 185x600mm (lxh) SR	1,3
PS2876	Hinged instrumentation panel, 72x72mm, 185x800mm (lxh) SR	1,8
PT1010	Glazed door, 1000x1000mm (HxW), AM	30
PT1012	Glazed door, 1000x1200mm (HxW), (2 doors, 600mm wide) AM	41
PT1066	Glazed door, 1000x600mm (HxW), SR	10
PT1067	Glazed door, 1000x600mm (HxW), AM	14
PT1086	Glazed door, 1000x800mm (HxW), SR	15
PT1087	Glazed door, 1000x800mm (HxW), AM	19
PT1210	Glazed door, 1200x1000mm (HxW), AM	38
PT1212	Glazed door, 1200x1200mm (HxW), (2 doors, 600mm wide) AM	43
PT1266	Glazed door, 1200x600mm (HxW), SR	16
PT1267	Glazed door, 1200x600mm (HxW), AM	30
PT1286	Glazed door, 1200x800mm (HxW), SR	19
PT1287	Glazed door, 1200x800mm (HxW), AM	31
PT1410	Glazed door, 1400x1000mm (HxW), AM	39
PT1412	Glazed door, 1400x1200mm (HxW), (2 doors, 600mm wide) AM	45
PT1460	Glazed door, 1400x600mm (HxW), AM	25
PT1480	Glazed door, 1400x800mm (HxW), AM	31
PT1610	Glazed door, 1600x1000mm (HxW), AM	40
PT1612	Glazed door, 1600x1200mm (HxW), (2 doors, 600mm wide) AM	47
PT1660	Glazed door, 1600x600mm (HxW), AM	28
PT1680	Glazed door, 1600x800mm (HxW), AM	35
PT1810	Glazed door, 1800x1000mm (HxW), IS	47
PT1812	Glazed door, 1800x1200mm (HxW), (2 doors, 600mm wide) IS	52
PT1860	Glazed door, 1800x600mm (HxW), IS-AM	32
PT1880	Glazed door, 1800x800mm (HxW), IS-AM	36
PT2010	Glazed door, 2000x1000mm (HxW), IS	45
PT2012	Glazed door, 2000x1200mm (HxW), (2 doors, 600mm wide) IS	48
PT2060	Glazed door, 2000x600mm (HxW), IS-AM	34
PT2080	Glazed door, 2000x800mm (HxW), IS-AM	38
PT2210	Glazed door, 2200x1000mm (HxW), IS	67
PT2212	Glazed door, 2200x1200mm (HxW), (2 doors, 600mm wide) IS	70
PT2260	Glazed door, 2200x600mm (HxW), IS	35
PT2280	Glazed door, 2200x800mm (HxW), IS	41
PT5046	Glazed door, 500x400mm (HxW), SR	7
PT6046	Glazed door, 600x400mm (HxW), SR	9
PT7056	Glazed door, 700x500mm (HxW), SR	9
PT8066	Glazed door, 800x600mm (HxW), SR	11
RK1000	19" rack uprights, h=1000 mm, 20HE AM	1
RK1200	19" rack uprights, h=1200 mm, 25HE AM	1
RK1400	19" rack uprights, h=1400 mm, 29HE AM	1,2
RK1600	19" rack uprights, h=1600 mm, 34HE AM	1,4

Code list and weights

Reference	Description	Weight (kg.)
RK1800	19" rack uprights, h=1800 mm, 38HE IS-AM	2
RK2000	19" rack uprights, h=2000 mm, 43HE IS-AM	2
RK2200	19" rack uprights, h=2200 mm, 47HE IS	2
RK2882	19" rack swing frame h=1800mm, 33HE IS	21
RK2883	19" rack swing frame h=2000mm, 38HE IS	24
RK2884	Swing frame rack 19" h=2200mm 38HE IS	0
RK3138	19" rack frontal frame h=1800mm, 37HE IS	1
RK3139	19" rack frontal frame h=2000mm, 42HE IS	15
RP1010	Replacement of back panel with door, 1000x1000mm (HxW), AM	18,905
RP1012	Replacement of back panel with door, 1000x1200mm (HxW), AM	23,819
RP1060	Replacement of back panel with door, 1000x600mm (HxW), AM	11,909
RP1080	Replacement of back panel with door, 1000x800mm (HxW), AM	15,157
RP1210	Replacement of back panel with door, 1200x1000mm (HxW), AM	20,153
RP1212	Replacement of back panel with door, 1200x1200mm (HxW), AM	27,819
RP1260	Replacement of back panel with door, 1200x600mm (HxW), AM	13,909
RP1280	Replacement of back panel with door, 1200x800mm (HxW), AM	17,781
RP1410	Replacement of back panel with door, 1400x1000mm (HxW), AM	24,9
RP1412	Replacement of back panel with door, 1400x1200mm (HxW), AM	35,28
RP1460	Replacement of back panel with door, 1400x600mm (HxW), AM	15,909
RP1480	Replacement of back panel with door, 1400x800mm (HxW), AM	20,905
RP1610	Replacement of back panel with door, 1600x1000mm (HxW), AM	28,649
RP1612	Replacement of back panel with door, 1600x1200mm (HxW), AM	46,058
RP1660	Replacement of back panel with door, 1600x600mm (HxW), AM	18,409
RP1680	Replacement of back panel with door, 1600x800mm (HxW), AM	23,529
RP1810	Replacement of back panel with door, 1800x1000mm (HxW), IS	31,897
RP1812	Replacement of back panel with door, 1800x1200mm (HxW), IS	39,818
RP1840	Replacement of back panel with door, 1800x400mm (HxW), IS	14,665
RP1860	Replacement of back panel with door, 1800x600mm (HxW), AM-IS	20,409
RP1880	Replacement of back panel with door, 1800x800mm (HxW), AM-IS	26,153
RP2010	Replacement of back panel with door, 2000x1000mm (HxW), AM	35,145
RP2012	Replacement of back panel with door, 2000x1200mm (HxW), AM	43,818
RP2040	Replacement of back panel with door, 2000x400mm (HxW), AM	16,041
RP2060	Replacement of back panel with door, 2000x600mm (HxW), AM-IS	22,409
RP2080	Replacement of back panel with door, 2000x800mm (HxW), AM-IS	28,783
RP2210	Replacement of back panel with door, 2200x1000mm (HxW), AM	38,892
RP2212	Replacement of back panel with door, 2200x1200mm (HxW), AM	48,818
RP2240	Replacement of back panel with door, 2200x400mm (HxW), AM	17,917
RP2260	Replacement of back panel with door, 2200x600mm (HxW), AM	24,909
RP2280	Replacement of back panel with door, 2200x800mm (HxW), AM	31,901
SA1010	Painted plate fixing kit, IS	2,42
SA1011	Zinc plated fixing kit	2,42
SA1012	Track l=1200mm	2,42
SA1013	Track l=1000mm	2,42
SA1040	Track l=400mm	2,42

Reference	Description	Weight (kg.)
SA1060	Track l=600mm	2,42
SA1080	Track l=800mm	2,42
SA1340	Cabinet joining kit, IS	2
SA1350	Lifting reinforcements (2 off)	2,2
SA1808	Vertical upright for MF version, h=1800	4,15
SA1816	Backing kit for mounting plate, IS	0,4
SA1960	Supplement for bank assembling	0,4
SA2008	Vertical upright for MF version, h=2000	4,556
SA2045	Floor plate, 1000x450mm (HxD), IS	4,7
SA2060	Floor plate, 1000x600mm (HxD), IS	6,62
SA2080	Floor plate, 1000x800mm (HxD), IS	9,21
SA2208	Vertical upright for MF version h=2200	4,962
SA2245	Floor plate, 1200x450mm (HxD), IS	5,67
SA2260	Floor plate, 1200x600mm (HxD), IS	7,97
SA2280	Floor plate, 1200x800mm (HxD), IS	11,08
SA2645	Floor plate, 600x450mm (HxD), IS	2,84
SA2660	Floor plate, 600x600mm (HxD), IS	4,2
SA2680	Floor plate, 600x800mm (HxD), IS	6,6
SA2845	Floor plate, 800x450mm (HxD), IS	3,8
SA2860	Floor plate, 800x600mm (HxD), IS	5,42
SA2880	Floor plate, 800x800mm (HxD), IS	7,5
SA3063	Complete cell 1000x600x300mm (HxWxD)	23,2
SA3083	Complete cell 1000x800x300mm (HxWxD)	32,5
SA3263	Complete cell 200x600x300mm (HxWxD)	9,53
SA3283	Complete cell 200x800x300mm (HxWxD)	12,08
SA3463	Complete cell 400x600x300mm (HxWxD)	13,05
SA3483	Complete cell 400x800x300mm (HxWxD)	18,24
SA3663	Complete cell 600x600x300mm (HxWxD)	19,77
SA3683	Complete cell 600x800x300mm (HxWxD)	24,35
SA3863	Complete cell 800x600x300mm (HxWxD)	20,4
SA3883	Complete cell 800x800x300mm (HxWxD)	30,3
SA4180	Plate connection kit, h=1800mm IS	6,24
SA4200	Plate connection kit, h=2000mm IS	6,74
SA4220	Plate connection kit, h=2200mm IS	7,8
SR10625	Enclosure with blind door, 1000x600x250mm (HxWxD)	34,22
SR10625V	Enclosure with glazed door, 1000x600x250mm (HxWxD)	24,5
SR10630	Enclosure with blind door, 1000x600x300mm (HxWxD)	37,68
SR10630V	Enclosure with glazed door, 1000x600x300mm (HxWxD)	27,94
SR10830	Enclosure with blind door, 1000x800x300mm (HxWxD)	44,7
SR10830V	Enclosure with glazed door, 1000x800x300mm (HxWxD)	33,55
SR12630	Enclosure with blind door, 1200x600x300mm (HxWxD)	42,27
SR12630V	Enclosure with glazed door, 1200x600x300mm (HxWxD)	33,36
SR12830	Enclosure with blind door, 1200x800x300mm (HxWxD)	52,56
SR12830V	Enclosure with glazed door, 1200x800x300mm (HxWxD)	38,9
SR3215	Enclosure with blind door, 300x200x150mm (HxWxD)	4,23
SR3315	Enclosure with blind door, 300x300x150mm (HxWxD)	5,89
SR3415	Enclosure with blind door, 300x400x150mm (HxWxD)	7,47
SR4315	Enclosure with blind door, 400x300x150mm (HxWxD)	7,4
SR4320	Enclosure with blind door, 400x300x200mm (HxWxD)	8,44
SR4420	Enclosure with blind door, 400x400x200mm (HxWxD)	10,53
SR4620	Enclosure with blind door, 400x600x200mm (HxWxD)	14,7
SR5320	Enclosure with blind door, 500x300x200mm (HxWxD)	10,1
SR5420	Enclosure with blind door, 500x400x200mm (HxWxD)	12,55
SR5420V	Enclosure with glazed door, 500x400x200mm (HxWxD)	10,2
SR5425	Enclosure with blind door, 500x400x250mm (HxWxD)	13,8
SR5425V	Enclosure with glazed door, 500x400x250mm (HxWxD)	11,42
SR6420	Enclosure with blind door, 600x400x200mm (HxWxD)	14,65
SR6420V	Enclosure with glazed door, 600x500x200mm (HxWxD)	11,67
SR6425	Enclosure with blind door, 600x400x250mm (HxWxD)	15,87
SR6425V	Enclosure with glazed door, 600x400x250mm (HxWxD)	12,86

Code list and weights

Reference	Description	Weight (kg.)
SR6625	Enclosure with blind door, 600x600x250mm (HxWxD)	22,23
SR7520	Enclosure with blind door, 700x500x200mm (HxWxD)	20,06
SR7520V	Enclosure with glazed door, 700x500x200mm (HxWxD)	15,43
SR7525	Enclosure with blind door, 700x500x250mm (HxWxD)	21,73
SR7525V	Enclosure with glazed door, 700x500x250mm (HxWxD)	18,1
SR8625	Enclosure with blind door, 800x600x250mm (HxWxD)	28,11
SR8625V	Enclosure with glazed door, 800x600x250mm (HxWxD)	21,61
SR8630	Enclosure with blind door, 800x600x300mm (HxWxD)	30,03
SR8630V	Enclosure with glazed door, 800x600x300mm (HxWxD)	23,53
SR8830	Enclosure with blind door, 800x800x300mm (HxWxD)	37,01
TP2821	Protection top 600x450mm (HxD), IS	7
TP2822	Protection top 600x600mm (HxD), IS	8
TP2823	Protection top 600x800mm (HxD), IS	10
TP2829	Protection top 800x450mm (HxD), IS	8
TP2830	Protection top 800x600mm (HxD), IS	10,5
TP2831	Protection top 800x800mm (HxD), IS	12
TP2835	Protection top 1000x450mm (HxD), IS	10
TP2836	Protection top 1000x600mm (HxD), IS	11,5
TP2837	Protection top 1000x800mm (HxD), IS	14,5
TP2841	Protection top 1200x450mm (HxD), IS	11
TP2842	Protection top 1200x600mm (HxD), IS	13,5
TP2843	Protection top 1200x800mm (HxD), IS	17
TP7019	Protection top 1000x300mm (HxD), AM	7
TP7020	Protection top 1000x400mm (HxD), AM	8
TP7039	Protection top 1200x300mm (HxD), AM	8
TP7041	Protection top 1200x400mm (HxD), AM	9
TP7079	Protection top 600x300mm (HxD), AM	5
TP7080	Protection top 600x400mm (HxD), AM	5,5
TP7099	Protection top 800x300mm (HxD), AM	6
TP7100	Protection top 800x400mm (HxD), AM	7
TQ1060	Zinc plated plate with slots, 1000x600mm (HxW), SR	9
TQ1080	Zinc plated plate with slots, 1000x800mm (HxW), AM	12
TQ1260	Zinc plated plate with slots, 1200x600mm (HxW), SR	11
TQ1280	Zinc plated plate with slots, 1200x800mm (HxW), SR	14,5
TQ3020	Zinc plated plate with slots, 300x200mm (HxW), SR	0,7
TQ3030	Zinc plated plate with slots, 300x300mm (HxW), SR	1,1
TQ3040	Zinc plated plate with slots, 300x400mm (HxW), SR	1,5
TQ4030	Zinc plated plate with slots, 400x300mm (HxW), SR	1,5
TQ4040	Zinc plated plate with slots, 400x400mm (HxW), SR	2,1
TQ4060	Zinc plated plate with slots, 400x600mm (HxW), SR	3,5
TQ5030	Zinc plated plate with slots, 500x600mm (HxW), SR	2
TQ5040	Zinc plated plate with slots, 500x400mm (HxW), SR	2,7
TQ6040	Zinc plated plate with slots, 600x400mm (HxW), SR	3,5
TQ6060	Zinc plated plate with slots, 600x600mm (HxW), SR	5,5
TQ6610	Clip nuts with hexagonal M6x10 screw (20 off), SR	0,1
TQ7050	Zinc plated plate with slots, 700x500mm (HxW), SR	5
TQ8060	Zinc plated plate with slots, 800x600mm (HxW), SR	7
TQ8080	Zinc plated plate with slots, 800x800mm (HxW), SR	9,5
TS1000	Side crosspieces 70x1000mm (HxD) (2 off) IS	
TS1450	Transformer crosspieces, D=450mm (2off) IS	1,2
TS1600	Transformer crosspieces, D=600mm (2 off) IS	2
TS1800	Transformer crosspieces, D=800mm (2 off) IS	2,9
TS2100	Front crosspieces, h=70mm l=1000mm IS	1,8
TS2600	Front crosspieces, h=70mm l=600mm IS	1
TS2800	Front crosspieces, h=70mm l=800mm IS	1,4
TS3174	Side crosspieces D=450mm (4 off) IS	2,8
TS3176	Side crosspieces D=600mm (4 off) IS	3
TS3178	Side crosspieces D=800mm (4 off) IS	3,5
TS3436	Front crosspiece PM-MF l=600mm IS	0,7
TS3438	Front crosspiece PM-MF l=800mm IS	1

Reference	Description	Weight (kg.)
TS3450	Side crosspieces D=450mm (2 off) IS	0,746
TS3600	Side crosspieces D=600mm (2 off) IS	1,12
TS3800	Side crosspieces D=800mm (2 off) IS	1,6
TS4000	Cable rails l=600mm (2 off) IS	2
TS4001	Cable rails l=800mm (2 off) IS	2,5
TS4002	Cable rails l=1000mm (2 off) IS	2
TS4003	Cable rails l=1200mm (2 off) IS	2
TS4005	Inner rails for door, l=600mm (2 off) IS-AM	2
TS4006	Inner rails for door, l=800mm (2 off) IS-AM	2
TS4007	Inner rails for door, l=1000mm (2 off) IS-AM	2
TS4008	L-shaped slotted rails 40x40mm (2 off) l=2000mm IS	2
TS4009	U-shaped slotted rails 40x40mm (2 off) l=2000mm IS	2
TS4010	L-shaped slotted rails 80x40mm (2 off) l=2000mm IS	2
TS4011	EN50024 C30 rails l=2000mm (2 off) IS	2
TS4012	EN50035 G32 rails l=2000mm (2 off) IS	2
TS4013	EN50022 DIN rails l=2000 (2 off) IS	2
TS4100	Plate reinforcement bars, l=1000mm (2 off) IS-AM	2
TS4120	Plate reinforcement bars, l=1200mm (2 off) IS-AM	2
TS4180	Plate reinforcement bars, h=1800mm (2 off) IS-AM	2
TS4200	Plate reinforcement bars, h=2000mm (2 off) IS-AM	2
TS4220	Plate reinforcement bars, h=2200mm (2 off) IS	2
TS6006	Inner rails for door, h=600mm (2 off) SR	1
TS7006	Inner rails for door, h=700mm (2 off) SR	1
TS7185	Side crosspieces l=300mm (4 off) AM	0,613
TS7190	Side crosspieces l=400mm (4 off) AM	0,867
TS7383	Transformer crosspieces, D=300mm AM	1,5
TS7384	Transformer crosspieces, D=400mm AM	1,5
TS8006	Inner rails for door, h=800mm (2 off) SR	1
TT2015	Protection top 200x150mm (lxp) SR	2,5
TT3015	Protection top 300x150mm (lxp) SR	2,5
TT3020	Protection top 300x200mm (lxp) SR	2,5
TT4015	Protection top 400x150mm (lxp) SR	2,5
TT4020	Protection top 400x200mm (lxp) SR	2,5
TT5020	Protection top 500x200mm (HxD), SR	2,5
TT5025	Protection top 500x250mm (HxD), SR	2
TT6020	Protection top 600x200mm (HxD), SR	2,7
TT6025	Protection top 600x250mm (HxD), SR	2,5
TT6030	Protection top 600x300mm (HxD), SR	3,8
TT8030	Protection top 800x300mm (HxD), SR	4,5
VA6900	Thermostat, 10-60°C 250Vca	0,11
VA6930	Heater for electrical board, 55x150x40mm (HxWxD)	0,5
VA6950	Heater for electrical board, 80x200x75mm (HxWxD)	1,3
VB2004	Spray paint, orange RAL 2004	0,52
VB5010	Spray paint, gentian blue RAL 5010	0,52
VB6011	Spray paint, green RAL 6011	0,52
VB7032	Spray paint, grey RAL 7032	0,52
VB9005	Spray paint, black RAL 9005	0,52
VE5320	Air filter kit 130x130mm (HxW), AM	0,155
VE5330	Air filter kit 130x130mm (HxW) already holed, AM	0,155
VE5340	Ventilation kit 15W/115V 130x130mm (HxW) already holed, AM	0,8
VE5370	Grey fan holder for 15 W ventilator	0,2
VE5380	Ventilation kit 15W/230V 130x130mm (HxW), AM	0,8
VE5390	Ventilation kit 15W/230V 130x130mm (HxW) already holed, AM	0,8
VE5420	Ventilation kit 15W/115V 130x130mm (HxW), AM	0,806
VE5430	Ventilation kit 15W/115V 130x130mm (HxW) already holed, AM	0,8
VE5460	Ventilation kit 35W/115V 255x255mm (HxW), AM	1,625
VE5470	Ventilation kit 35W/115V 255x255mm (HxW) already holed, AM	1,625
VE5480	Ventilation kit 67W/115V 320x320mm (HxW), AM	3,378
VE5490	Ventilation kit 67W/115V 320x320mm (HxW) already holed, AM	3,378
VE5520	Air filter kit 255x255mm (HxW), AM	0,549

Code list and weights

Reference	Description	Weight (kg.)
VE5530	Air filter kit 255x255mm (HxW) already holed, AM	0,549
VE5570	Grey fan holder for 35 W ventilator	0,2
VE5580	Ventilation kit 35W/230V 255x255mm (HxW), AM	1,625
VE5590	Ventilation kit 35W/230V 255x255mm (HxW) already holed, AM	1,625
VE5620	Air filter kit 320x320mm (HxW), AM	0,922
VE5630	Air filter kit 320x320mm (HxW) already holed, AM	0,922
VE5680	Ventilation kit 67W/230V 320x320mm (HxW), AM	3,378
VE5690	Ventilation kit 67W/230V 320x320mm (HxW) already holed, AM	3,378
VF5020	Ventilator 15W/115V a.c.-50/60Hz	0,55
VF5030	Ventilator 35W/115V a.c.-50/60Hz	0,76
VF5040	Ventilator 67W/115V a.c.-50/60Hz+Ventilator-support	1,3
VF5100	Ventilator 15W/230V a.c.-50/60Hz	0,55
VF5110	Ventilator 35W/230V a.c.-50/60Hz	0,76
VF5120	Ventilator 67W/230V a.c.-50/60Hz + Ventilator support	1,3
VF5350	Filter cloth 120x120mm (HxW)	
VF5550	Filter cloth 250x250mm (HxW)	
VF5650	Filter cloth 320x320mm (HxW)	0,02
VG5000	Iron strainer, 400x500mm (HxL)	0,531
VG5010	Iron strainer, 250x250mm (HxL)	0,169
VG5050	Aeration hood 60x440x280mm (HxWxD)	4
VG5700	Air grating with filter	
VG5710	Air grating without filter	
VG5720	Double air grating with filter	
VG5730	Double air grating without filter	
VS4233	Air to air heat exchanger, 35 W/Kelvin	10
VS6268	Air to air heat exchanger, 80 W/Kelvin	18
VZ1000	Wall-type extra-flat conditioner, 1000W	56
VZ1001	Roof-type conditioner, 1000W	20
VZ1014	Wall-type conditioner, 1450W	39
VZ1021	Wall-type conditioner, 2100W	40
VZ1055	Wall-type conditioner, 550W	25
VZ1066	Wall-type conditioner, 656W	26
VZ1080	Wall-type conditioner, 1080W	38
VZ1085	Wall-type conditioner, 850W	26
VZ1450	Wall-type extra-flat conditioner, 1450W	52
VZ1451	Roof-type conditioner, 1450W	28
VZ1651	Roof-type conditioner, 1650W	30
VZ1700	Wall-type extra-flat conditioner, 1700W	56
VZ1730	Wall-type conditioner, 1730W	39
VZ2100	Wall-type extra-flat conditioner, 2100W	60
VZ6501	Roof-type conditioner, 650W	25
ZA1010	Flange for plinth, 100x1000x1000mm (hxlxp) IS	
ZA1030	Flange for plinth 100x1000x300mm (HxWxD) AM	9
ZA1040	Flange for plinth 100x1000x400mm (HxWxD) AM	10
ZA1045	Flange for plinth 100x1000x450mm(HxWxD) CA-CN-CU-IS	4,82
ZA1051	Flange for plinth 100x1000x514mm (HxWxD) CD-CM	5,22
ZA1060	Flange for plinth 100x1000x600mm (HxWxD) IS	6
ZA1080	Flange for plinth 100x1000x800mm (HxWxD) IS	6
ZA1145	Flange for plinth 100x1600x450mm (HxWxD) CA	6
ZA1151	Flange for plinth 100x1600x514mm (HxWxD) CD	6
ZA1210	Flange for plinth, 100x1200x1000 mm (hxlxp) IS	
ZA1230	Flange for plinth 100x1200x300mm (HxWxD) AM	10,5
ZA1240	Flange for plinth 100x1200x400mm (HxWxD) AM	11,5
ZA1245	Flange for plinth 100x1200x450mm(HxWxD) CA-CN-CU-IS	5,7
ZA1251	Flange for plinth 100x1200x514mm (HxWxD) CD-CM	6,1
ZA1260	Flange for plinth 100x1200x600mm (HxWxD) IS	6
ZA1280	Flange for plinth 100x1200x800mm (HxWxD) IS	6
ZA1445	Flange for plinth 100x400x450mm (HxWxD) IS	2,5
ZA1460	Flange for plinth 100x400x600mm (HxWxD) IS	6
ZA1480	Flange for plinth 100x400x800mm (HxWxD) IS	6

Reference	Description	Weight (kg.)
ZA1610	Flange for plinth, 100x 600x1000 mm (hxlxp) IS	
ZA1630	Flange for plinth 100x600x300mm (HxWxD) AM	6
ZA1640	Flange for plinth 100x600x400mm (HxWxD) AM	3,2
ZA1645	Flange for plinth 100x600x450mm(HxWxD) IS-CN-CU	3,3
ZA1660	Flange for plinth 100x600x600mm (HxWxD) IS	6
ZA1680	Flange for plinth 100x600x800mm (HxWxD) IS	6
ZA1810	Flange for plinth, 100x 800x1000 mm (hxlxp) IS	
ZA1830	Flange for plinth 100x800x300mm (HxWxD) AM	7,5
ZA1840	Flange for plinth 100x800x400mm (HxWxD) AM	3,9
ZA1845	Flange for plinth 100x800x450mm(HxWxD) CA-CN-CU-IS	4
ZA1851	Flange for plinth 100x800x514mm (HxWxD) CD-CM	4,4
ZA1860	Flange for plinth 100x800x600mm (HxWxD) IS	6
ZA1880	Flange for plinth 100x800x800mm (HxWxD) IS	6
ZA2010	Flange for plinth, 200x1000x1000 mm (hxlxp) IS	
ZA2030	Plinth, complete with 6 flanges and 4 angulars, 200x1000x300mm (HxWxD) AM	16
ZA2040	Plinth, complete with 6 flanges and 4 angulars, 200x1000x400mm (HxWxD) AM	18
ZA2045	Plinth, complete with 6 flanges and 4 angulars, 200x1000x450mm(HxWxD) CA-CN-CU-IS	15
ZA2051	Plinth, complete with 6 flanges and 4 angulars, 200x1000x514mm (HxWxD) CD-CM	12,4
ZA2060	Plinth, complete with 6 flanges and 4 angulars, 200x1000x600mm (HxWxD) IS	20
ZA2080	Plinth, complete with 6 flanges and 4 angulars, 200x1000x800mm (HxWxD) IS	22,5
ZA2145	Plinth, complete with 6 flanges and 4 angulars, 200x1600x450mm(HxWxD)CA	15,4
ZA2151	Plinth, complete with 6 flanges and 4 angulars, 200x1600x514mm (HxWxD) CD	16,2
ZA2210	Flange for plinth, 200x1200x1000 mm (hxlxp) IS	
ZA2230	Plinth, complete with 6 flanges and 4 angulars, 200x1200x300mm (HxWxD) AM	18,5
ZA2240	Plinth, complete with 6 flanges and 4 angulars, 200x1200x400mm (HxWxD) AM	20,5
ZA2245	Plinth, complete with 6 flanges and 4 angulars, 200x1200x450mm(HxWxD) CA-CN-CU-IS	15
ZA2251	Plinth, complete with 6 flanges and 4 angulars, 200x1200x514mm (HxWxD) CD-CM	13,7
ZA2260	Plinth, complete with 6 flanges and 4 angulars, 200x1200x600mm (HxWxD) IS	23
ZA2280	Plinth, complete with 6 flanges and 4 angulars, 200x1200x800mm (HxWxD) IS	25
ZA2445	Plinth, complete with 6 flanges and 4 angulars, 200x400x450mm (HxWxD) IS	10
ZA2460	Plinth, complete with 6 flanges and 4 angulars, 200x400x600mm (HxWxD) IS	9
ZA2480	Plinth, complete with 6 flanges and 4 angulars, 200x400x800mm (HxWxD) IS	10,6
ZA2610	Flange for plinth, 200x 600x1000 mm (hxlxp) IS	
ZA2630	Plinth, complete with 6 flanges and 4 angulars, 200x600x300mm (HxWxD) AM	11
ZA2640	Plinth, complete with 6 flanges and 4 angulars, 200x600x400mm (HxWxD) AM	13
ZA2645	Plinth, complete with 6 flanges and 4 angulars, 200x600x450mm(HxWxD) IS-CN-CU	13
ZA2660	Plinth, complete with 6 flanges and 4 angulars, 200x600x600mm (HxWxD) IS	15
ZA2680	Plinth, complete with 6 flanges and 4 angulars, 200x600x800mm (HxWxD) IS	17
ZA2810	Flange for plinth, 200x 800x1000 mm (hxlxp) IS	

Code list and weights

Reference	Description	Weight (kg.)
ZA2830	Plinth, complete with 6 flanges and 4 angulars, 200x800x300mm (HxWxD) AM	13,5
ZA2840	Plinth, complete with 6 flanges and 4 angulars, 200x800x400mm (HxWxD) AM	15,5
ZA2845	Plinth, complete with 6 flanges and 4 angulars, 200x800x450mm(HxWxD) CA-CN-CU-IS	11
ZA2851	Plinth, complete with 6 flanges and 4 angulars, 200x800x514mm (HxWxD) CD-CM	11
ZA2860	Plinth, complete with 6 flanges and 4 angulars, 200x800x600mm (HxWxD) IS	17,5
ZA2880	Plinth, complete with 6 flanges and 4 angulars, 200x800x800mm (HxWxD) IS	20
ZA3078	Angulars, h=100mm CA-CN-CU-IS (4 off)	3,7
ZA4020	Plinth, 100x400x200 (HxWxD) SR	5,26
ZA4025	Plinth, 100x400x250 (HxWxD) SR	5,64
ZA6025	Plinth, 100x600x250 (HxWxD) SR	7,1
ZA6030	Plinth, 100x600x300 (HxWxD) SR	7,46
ZA8030	Plinth, 100x800x300 (HxWxD) SR	8,94
05019	Wiring duct with 8-12mm slot- Dim. 15x17mm (WxH) - RAL 7030 grey	
05033	Wiring duct with 8-12mm slot- Dim. 25x30mm (WxH) - RAL 7030 grey	
05035	Wiring duct with 8-12mm slot- Dim. 40x30mm (WxH) - RAL 7030 grey	
05037	Wiring duct with 8-12mm slot- Dim. 60x30mm (WxH) - RAL 7030 grey	
05043	Wiring duct with 8-12mm slot- Dim. 25x40mm (WxH) - RAL 7030 grey	
05045	Wiring duct with 8-12mm slot- Dim. 40x40mm (WxH) - RAL 7030 grey	
05047	Wiring duct with 8-12mm slot- Dim. 60x40mm (WxH) - RAL 7030 grey	
05049	Wiring duct with 8-12mm slot- Dim. 80x40mm (WxH) - RAL 7030 grey	
05051	Wiring duct with 8-12mm slot- Dim. 100x40mm (WxH) - RAL 7030 grey	
05053	Wiring duct with 8-12mm slot- Dim. 120x40mm (WxH) - RAL 7030 grey	
05063	Wiring duct with 8-12mm slot- Dim. 25x60mm (WxH) - RAL 7030 grey	
05065	Wiring duct with 8-12mm slot- Dim. 40x60mm (WxH) - RAL 7030 grey	
05067	Wiring duct with 8-12mm slot- Dim. 60x60mm (WxH) - RAL 7030 grey	
05069	Wiring duct with 8-12mm slot- Dim. 80x60mm (WxH) - RAL 7030 grey	
05071	Wiring duct with 8-12mm slot- Dim. 100x60mm (WxH) - RAL 7030 grey	
05073	Wiring duct with 8-12mm slot- Dim. 120x60mm (WxH) - RAL 7030 grey	
05083	Wiring duct with 8-12mm slot- Dim. 25x80mm (WxH) - RAL 7030 grey	
05085	Wiring duct with 8-12mm slot- Dim. 40x80mm (WxH) - RAL 7030 grey	
05087	Wiring duct with 8-12mm slot- Dim. 60x80mm (WxH) - RAL 7030 grey	
05089	Wiring duct with 8-12mm slot- Dim. 80x80mm (WxH) - RAL 7030 grey	
05091	Wiring duct with 8-12mm slot- Dim. 100x80mm (WxH) - RAL 7030 grey	
05093	Wiring duct with 8-12mm slot- Dim. 120x80mm (WxH) - RAL 7030 grey	
05094	Wiring duct with 8-12mm slot- Dim. 25x100mm (WxH) - RAL 7030 grey	
05095	Wiring duct with 8-12mm slot- Dim. 40x100mm (WxH) - RAL 7030 grey	
05096	Wiring duct with 8-12mm slot- Dim. 60x100mm (WxH) - RAL 7030 grey	
05097	Wiring duct with 8-12mm slot- Dim. 80x100mm (WxH) - RAL 7030 grey	
05098	Wiring duct with 8-12mm slot- Dim. 100x100mm (WxH) - RAL 7030 grey	
05099	Wiring duct with 8-12mm slot- Dim. 150x100mm (WxH) - RAL 7030 grey	
05119	Wiring duct with 4-6mm slot- Dim. 15x17mm (WxH) - RAL 7030 grey	
05133	Wiring duct with 4-6mm slot- Dim. 25x30mm (WxH) - RAL 7030 grey	
05135	Wiring duct with 4-6mm slot- Dim. 40x30mm (WxH) - RAL 7030 grey	
05137	Wiring duct with 4-6mm slot- Dim. 60x30mm (WxH) - RAL 7030 grey	
05143	Wiring duct with 4-6mm slot- Dim. 25x40mm (WxH) - RAL 7030 grey	
05145	Wiring duct with 4-6mm slot- Dim. 40x40mm (WxH) - RAL 7030 grey	
05147	Wiring duct with 4-6mm slot- Dim. 60x40mm (WxH) - RAL 7030 grey	
05149	Wiring duct with 4-6mm slot- Dim. 80x40mm (WxH) - RAL 7030 grey	
05151	Wiring duct with 4-6mm slot- Dim. 100x40mm (WxH) - RAL 7030 grey	
05153	Wiring duct with 4-6mm slot- Dim. 120x40mm (WxH) - RAL 7030 grey	
05163	Wiring duct with 4-6mm slot- Dim. 25x60mm (WxH) - RAL 7030 grey	
05165	Wiring duct with 4-6mm slot- Dim. 40x60mm (WxH) - RAL 7030 grey	
05167	Wiring duct with 4-6mm slot- Dim. 60x60mm (WxH) - RAL 7030 grey	
05169	Wiring duct with 4-6mm slot- Dim. 80x60mm (WxH) - RAL 7030 grey	

Reference	Description	Weight (kg.)
05171	Wiring duct with 4-6mm slot- Dim. 100x60mm (WxH) - RAL 7030 grey	
05173	Wiring duct with 4-6mm slot- Dim. 120x60mm (WxH) - RAL 7030 grey	
05183	Wiring duct with 4-6mm slot- Dim. 25x80mm (WxH) - RAL 7030 grey	
05185	Wiring duct with 4-6mm slot- Dim. 40x80mm (WxH) - RAL 7030 grey	
05187	Wiring duct with 4-6mm slot- Dim. 60x80mm (WxH) - RAL 7030 grey	
05189	Wiring duct with 4-6mm slot- Dim. 80x80mm (WxH) - RAL 7030 grey	
05191	Wiring duct with 4-6mm slot- Dim. 100x80mm (WxH) - RAL 7030 grey	
05193	Wiring duct with 4-6mm slot- Dim. 120x80mm (WxH) - RAL 7030 grey	
05194	Wiring duct with 4-6mm slot- Dim. 25x100mm (WxH) - RAL 7030 grey	
05195	Wiring duct with 4-6mm slot- Dim. 40x100mm (WxH) - RAL 7030 grey	
05196	Wiring duct with 4-6mm slot- Dim. 60x100mm (WxH) - RAL 7030 grey	
05197	Wiring duct with 4-6mm slot- Dim. 80x100mm (WxH) - RAL 7030 grey	
05198	Wiring duct with 4-6mm slot- Dim. 100x100mm (WxH) - RAL 7030 grey	
05199	Wiring duct with 4-6mm slot- Dim. 150x100mm (WxH) - RAL 7030 grey	
05214	Rivet 4mm	
05216	Rivet 6mm	
05224	Plastic wire stop for 40mm base	
05226	Plastic wire stop for 60mm base	
05228	Plastic wire stop for 80mm base	
05230	Plastic wire stop for 100mm base	
05240	Plastic label	
05250	Quick-fit device for 25mm bases	
05252	Quick-fit device for 40mm bases	
05254	Quick-fit device for 60mm bases	
05256	Quick-fit device for 80mm bases	
05258	Quick-fit device for 100mm bases	
05260	Quick-fit device for 120mm bases	
05262	Quick-fit device for 150mm bases	
05265	Trunking shears	
05266	Rivet gun	
05400	Flexible wiring duct - Dim. (WxH) 12,5x12,5mm - RAL 7040 grey	
05402	Flexible wiring duct - Dim. (WxH) 16x16mm - RAL 7040 grey	
05405	Flexible wiring duct - Dim. (WxH) 20x20mm - RAL 7040 grey	
05410	Flexible wiring duct - Dim. (WxH) 25x25mm - RAL 7040 grey	
05415	Flexible wiring duct - Dim. (WxH) 30x30mm - RAL 7040 grey	
05420	Flexible wiring duct - Dim. (WxH) 40x40mm - RAL 7040 grey	
05425	Flexible wiring duct - Dim. (WxH) 50x50mm - RAL 7040 grey	



Certification No OHS-015



Certification No 1612/98S



Certification No EMS-051



In consideration of modifications to standards and materials, the characteristics and overall dimensions indicated in this catalogue may be considered binding only following confirmation by ABB SACE

ABB SACE S.p.A.
Automation and Distribution Boards Division
23846 Garbagnate Monastero (LC) - Italy
Via Italia, 58
Tel.: +39 031.3570.1 - Telefax: 031.3570.228

<http://www.abb.com>