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MASAR Steel Floor Standing Enclosure



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MASAR Steel Wall Mounted Enclosure



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MASAR Steel Consoles Series



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MASAR Steel Flush Mounted Enclosure



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MASAR Steel Network Rack



MASAR ENGINEERING

Was established in 2010 as a company specialized in sheet metal works, having multi divisions to produce precision and complex works .

A manufacturing yard is designated in Borg EL Arab industrial area on the west side of Alexandria, Egypt with a total area of almost 4,500 sq . MT

Modern Aid, Successful Aim Reliability

Focusing expertise, skills, experience with a vision to deliver powerful qualitative product in traditional sheet metal field. The success of our company depends on the commitment and efforts of every employee to offer an unmatched level of service to our customers.

Machine Technologies

As a precision sheet metal facility MASAR offers production, low cost technologies.

MASAR success the latest in high tech equipment, operations are being under run by experienced well trained employees at every level.

We are electronically linked with our customers from the engineering stage to the final quality inspections prior to shipment, MASAR is as committed to manufacture what you design and/or select.

Thus, our business is to fulfill your designated need.

Give us a call and let us go to work for you.

CERTIFICATE

Management System as per
EN ISO 9001 : 2015

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

MASAR ENGINEERING INDUSTRIES
20, Block 9, Extension of Fourth Industrial Zone
BORG AL-ARAB, EGYPT

Applies a Quality Management System in line with the above Standard for the following Scope

**PRODUCTION OF POWERFUL QUALITATIVE SHEET METAL PRODUCTS
(CABLE TRAYS, TRAY ACCESSORIES, PANELS BODIES, FIRE CABINETS
AND SERVER / NETWORKING / COMPUTER RACK CABINET).**

Certificate Registration No.: 0717386063494

Initial certification: 2017-03-10

Reissue date: 2020-03-10

Valid until: 2020-03-09

Nikolaos Sifakis
Head of Management Systems & Products Certification Division
Certification Body
at TÜV AUSTRIA

Athens, 2019-03-01

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.

TÜV AUSTRIA HELLAS
429, Mesogion Ave.
GR-153 43 Athens, Greece
www.tuv-austria-hellas.gr





APPLICATIONS

Specially designed for
automatic positioning,
machine control, counters,
heating, air conditioning,
control systems, electrical
distribution, public services

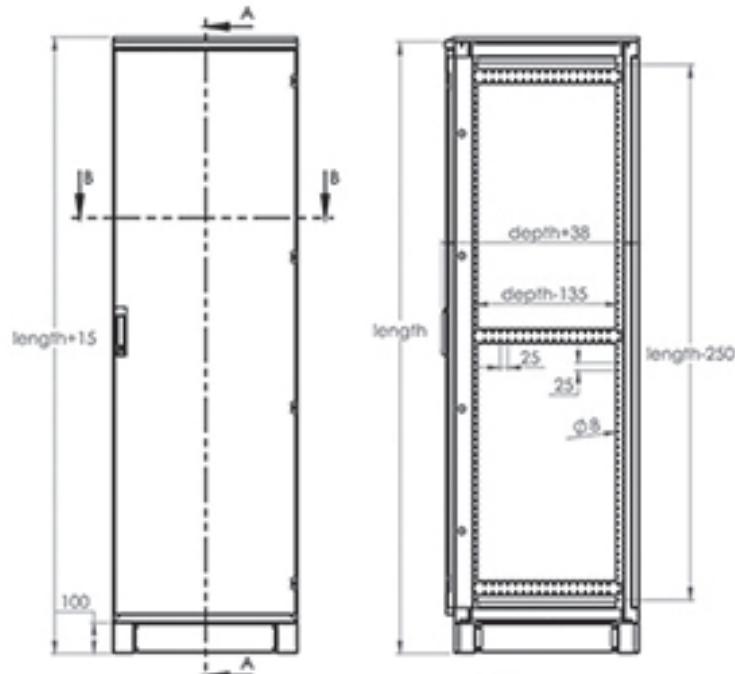
DESCRIPTION AND DESIGN

Technical information

- Standard dimensions ranging from 1800 x 400 x 400 mm up to 2000 x 1600 x 800 mm.
- The frame is manufactured using 1.5 mm mild precision sheet steel, assembly front frame and rear frame. The edges determine the degree of protection.
- The manufacturing concept gives the frame a high rigidity and makes the enclosure particularly strong with a great resistance to warping and deformation.
- The frame is perforated with a network of round(diam 8 mm) on a pitch of 25mm allowing fast time saving installation of accessories.These hole patterns are situated both on the inside and outside to generate high flexibility. Accessories fit bottom,top and sides.
- The frame has an external hole pattern for easy installation of hinges and rod catches for standard and partial doors without the need for drilling. The external hole pattern is also used for coupling enclosures so all installation work can be done from the front to save time.
- The open frame generates the possibility to mount cables and accessories inside it without interfering with the aperture.
- The door is manufactured using 1.5 mm mild sheet steel. Inside the door there is a mounted frame with holes on a 25mm pitch. This frame gives the door extra rigidity and is removable to allow ease of assembly for many types of applications.
- Four concealed hinges allow the door to be opened to 180° and four self-positioning locking points assure an even pressure on the seal. Centre points for drilling are provided in the door for easy and quick installation of 180° hinges (accessory).
- A special continuous polyurethane seal assures the IP55/IP56/IP66 NEMA 4,12 and 13 degree of protection..
- The rear panel is manufactured using 1.5 mm mild sheet steel and can be replaced by a plain or transparent door. Easy one man fitting is part of the integrated system.
- The removable side panel for the Combination enclosure is manufactured using 1.5 mm mild sheet steel.
- Easy one man fitting is part of the integrated system.
- The bottom of the enclosure is designed with a large opening and covered with two removable and interchangeable cable entry plates, made of Sendzimir zinc-plated 1.5 mm sheet steel.
- All parts are pre-treated with five step iron phosphate and demineralised. After pre-treatment all parts of the enclosures are protected with Polyester powder paint RAL 7035 with structured finish.
- To comply with EMC guidelines, the Mounted plate is manufactured from Sendzimir zinc-plated steel plate 2.0 mm thick. This plate provides an equipotential mass connection between all the devices on the enclosure.
- All panels are directly earthed to the enclosure frame by their fittings or an extra fitting clip.
- The Mounted plate is delivered on the outside of the packaging for easy access without unpacking the full enclosure. Fitted with slides and rests direct onto the enclosure frame for maximum weight support. The slides allow an easy installation and depth adjustment but do not interfere with the bottom cable entry space. The position of the Mounted plate in the maximum depth of the enclosure is standard and the use of two opposite Mounted plates is possible. The same plate can be mounted in the side of the enclosure by using the accessory kit (.....).
- There is full compatibility of the accessories and the use of the same components such as doors, rear panels, Mounted plates, bases and all common accessories for both ranges.
- When using an interior door, modular framework or 19" swing frame, the protection degree IP20 is guaranteed within the enclosure. Upgrade of this protection to IP 55 can be reached by the use of a glazed door.

OPTIONS

- Order by measure based on your needs.
- With a choice of two doors (from 1000mm width).
- Sockets
- Eyebolt s
- Roof to protect from sun, rain, etc...
- Cable entry cover
- Metal legs.
- Clear polycarbonate door.
- Finished in textured paint RAL on request.
- Mounted plate insulator (Bakelite).

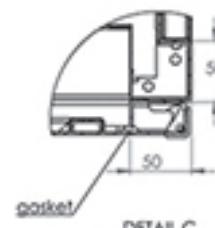


SECTION A-A

SCALE 1 : 12

SECTION B-B

SCALE 1 : 12

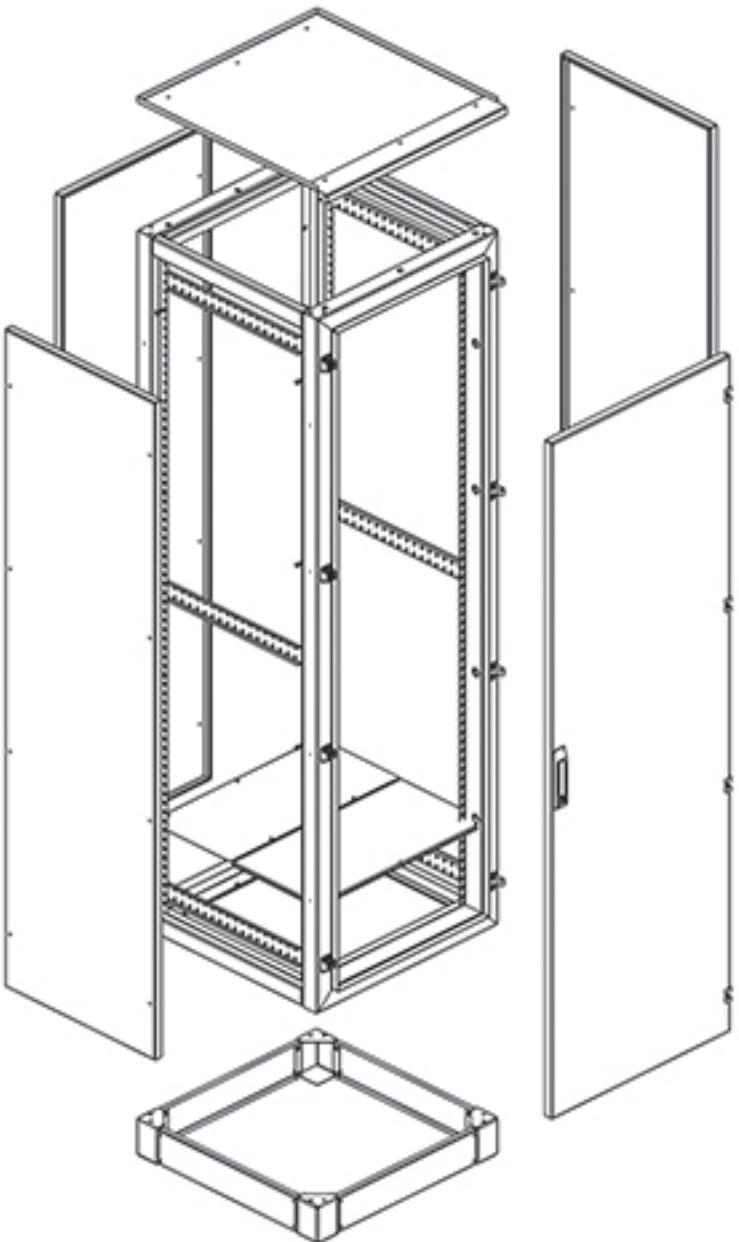
DETAIL C
SCALE 1 : 12

W (cm)	D (cm)	H (cm)	PRODUCT CODE
40	40	200	FPM4040200
60	40	200	FPM6040200
80	40	200	FPM8040200
100	40	200	FPM10040200
120	40	200	FPM12040200
40	60	200	FPM4060200
60	60	200	FPM6060200
80	60	200	FPM8060200
100	60	200	FPM10060200
120	60	200	FPM12060200
40	80	200	FPM4080200
60	80	200	FPM6080200
80	80	200	FPM8080200
100	80	200	FPM10080200
120	80	200	FPM12080200

W (cm)	D (cm)	H (cm)	PRODUCT CODE
40	40	180	FPM4040180
60	40	180	FPM6040180
80	40	180	FPM8040180
100	40	180	FPM10040180
120	40	180	FPM12040180
40	60	180	FPM4060180
60	60	180	FPM6060180
80	60	180	FPM8060180
100	60	180	FPM10060180
120	60	180	FPM12060180
40	80	180	FPM4080180
60	80	180	FPM6080180
80	80	180	FPM8080180
100	80	180	FPM10080180
120	80	180	FPM12080180

COMPONENTS, ACCESSORIES

- 1- Structure in galvanized steel, welded and then painted
- 2- Roof fan (optional) thanks to this location achieves perfect evacuation.
- 3- Eye bolt direct fixing to cabinet and allow an easy portability.
- 4- Handle with anti-vandal three anchor points inside
- 5- Limit switch allows us to control lighting, cooling elements, etc.
- 6- Mapboards, fixed with adhesive tape or screws to the cabinet





MOUNTING PLATE

Different plates for different uses: Galvanized Steel: It is the most common. With a bath of zinc, is protected against corrosion and is easy for making the pre-cut holes. Polycarbonate: Used to cover or protect electronic components and prevent tampering.



ROTATING HANDLES CLOSURES

Depending on the cabinet, and future use, we have standard closures in polyamide and chrome, always looking the best for customer needs. This cabinet comes standard with antivandalism lock with 4 inside anchor points, depending the size.



WATERPROOF SEAL

Injected waterproof seal Masar placed, standard, in all electric cabinets a waterproof seal that prevents water absorption and fluids, preventing their passage into the closet



ASSEMBLY FRAME

This rigid structure made of steel, allows us to make a proper distribution of indoor switchgear, dividing the front into several sections.

They are ideal for placement of breakers, differential, ICP, etc. These frames can be wired and mounted outside the cabinet for later installation.

Adaptable to any wardrobe, available blank plates or stamped in accordance with the needs and different sizes and combinations thereof to suit each model. We designed the chassis as needed.

STEEL SOCKETS

At altitudes of 100 and 200mm.

Allow soil to raise the closet and get extra accommodation for cable entry, increase the separation between the floor and the door, and are easily detachable front and side.

We have blind sockets at the bottom to insulate and protect the wiring from moisture



DOUBLE DOOR

The possibility of placing a double door in the cabinet is given by the customers need to improve manoeuvrability and the fact of maintaining a zone closed during work on the other.

Enclosure's front width 1200mm



CLEAR DOOR

All our cabinets are available with transparent door and interior door for placement of electrical components or indicators that allows for perfect vision and protection of them to avoid direct contact with liquids.



ROOF

Possibility of ordering self-ventilated.

**Series A (Water behind)**

Ideal when we want to preserve the front. The fluids are directed to the rear of the enclosure while preserving the important elements that could be placed at the door.

**Series B (Two waters)**

Installation is ideal for outdoor use. By design the self-ventilation system dissipates heat out effectively without the need to install fans and getting a significant energy savings.

**CEILING FAN**

Finding solutions to the various problems that arise when refrigerated cabinets appears ceiling fan. Thanks to its location at the top gets a perfect air evacuation.

Requirements for sending drawing files to Masar

- Provide drawing file in one of this formats
- PDF with dimensions + AUTOCAD
- PDF with dimensions + STEP (o IGES)
- Only PDF. Provide all geometry dimensions; sections details are required and legible.
- When using STEP format must indicate the holes to be tapped, because the program transforms the drawing and not differentiate between screwed hole and intern hole.
- Scale 1:1 in all drawings. Millimeters are the unit of length.
- Provide only the necessary manufacturing information, geometry and sections.
- In modified drawings we need marked the modification clearly and code review drawing



APPLICATIONS

MASAR range of mild steel wall Mounted enclosures has been designed with the user in mind. Practical, efficient and with a wide range of standard sizes, MASAR range offers a solution to virtually every application, or can be easily customised to suit specific requirements.

DESCRIPTION AND DESIGN

Technical information

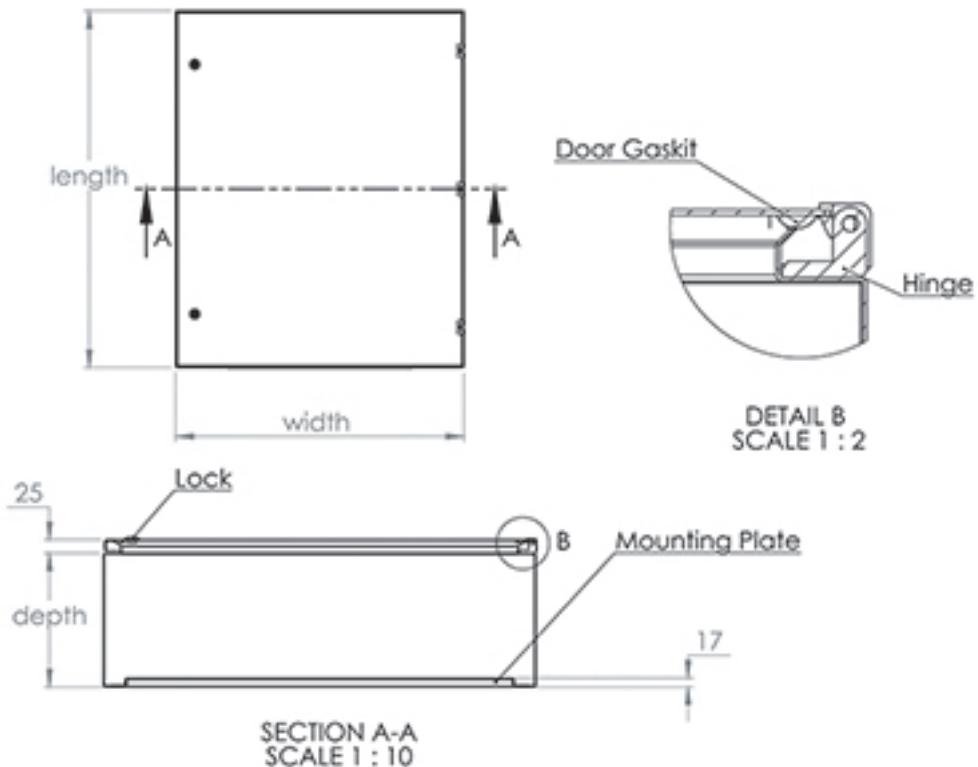
- Sturdy cruciform body folded from a cold rolled sheet steel plate, 1.5mm thickness. One-piece body for optimum rigidity and maximum IP. The enclosure edge is folded in the shape of a channel to avoid water stagnating on the seal. The door is made out of 1.5 mm steel and is fitted with galvanized rails in the door above 700 mm, procuring cable tracks, profiles, etc., a cable entry plate and a M6 threaded stud for earthing to base, door and Mounted plate.
- Cable entry is reached by a maximum gland opening, which is placed in the most far back position of the enclosure frame. To allow for air circulation around the rear and for wall fixing, four 20.4mm diameter x 2mm deep depressions are pressed out with an 8.5mm diameter hole.
- All parts are pre-treated with iron phosphate, demineralised and protected with a epoxy- polyester powder paint RAL 7035 with structured finish.
- The enclosure consists of two parts: the body and the door. The door is secured by means of the equipment on the Mounted plate and holes in bottom have been applied for cable fixing. Surface mounted with 180° opening. Concealed removable hinges with captive pin. Hinges can be mounted to allow left or right hand opening.
- The Mounted plate is manufactured from galvanized steel plate 2mm thick. This plate provides an equipotential mass connection between all devices on the enclosure.
- The enclosure offers maximum protection to the user and equipment by a protection degree IP 54 according to IEC 60529 . When using an inner door, modular framework.
- The enclosure is secured to the wall using: bolts, directly through the rear wall and protected inside with plastic washers, or wall Mounted brackets at the rear screwed from the enclosure. In both cases the IP / NEMA degrees are guaranteed.

Typical applications:

Specially designed for heating, ventilation, air conditioning OEM's, small control systems, distribution solutions, automatic positioning, machine control, counters, electrical distribution, industrial networks, to belts, test benches and placement in homes, public buildings or general industrial environment and where necessary a presence, quality and durability.

OPTIONS

- Order by measure based on your needs.
- With a choice of two doors (from 1000mm width).
- Sockets
- Eyebolt s
- Roof to protect from sun, rain, etc...
- Cable entry cover
- Metal legs.
- Clear polycarbonate door.
- Finished in textured paint RAL on request.
- Mounted plate insulator (Bakelite).

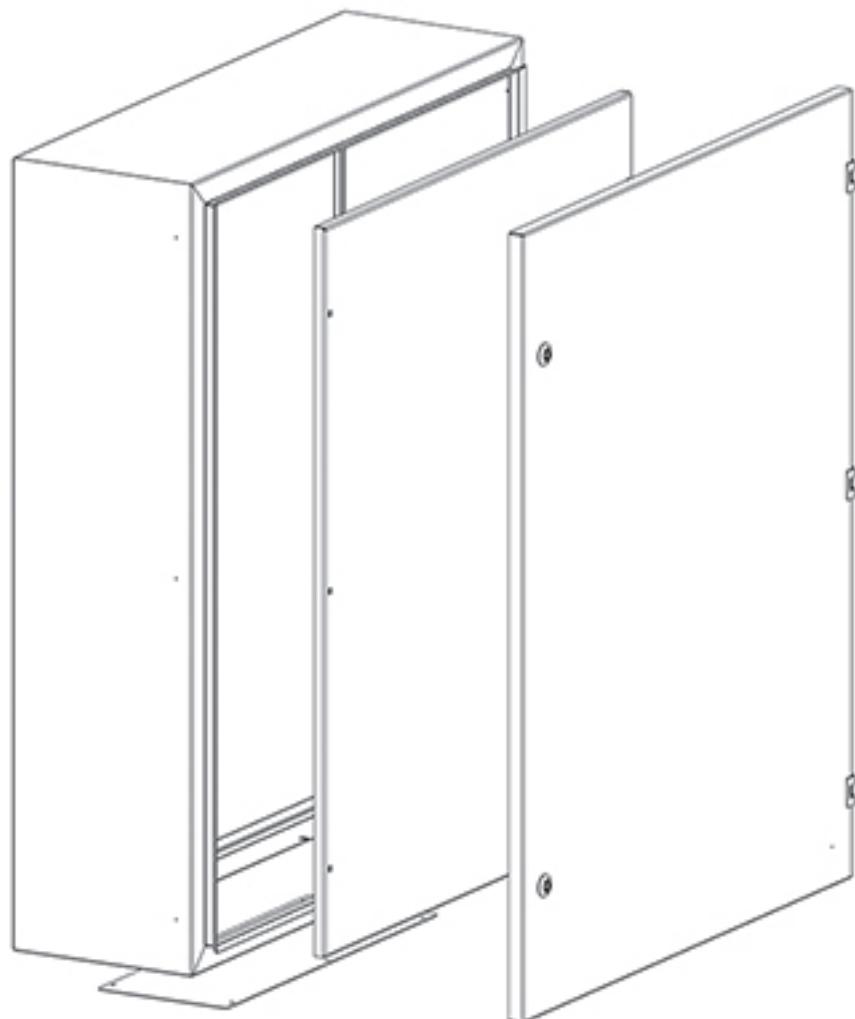


H (cm)	W (cm)	D (cm)	PRODUCT CODE
400	400	150	WMP404015
500	400	150	WMP504015
600	400	150	WMP604015
700	400	150	WMP704015
800	400	150	WMP804015
600	600	200	WMP606020
800	600	200	WMP806020
1000	600	200	WMP1006020
1200	600	200	WMP1206020
1400	600	200	WMP1406020
600	800	200	WMP608020
800	800	200	WMP808020
1000	800	200	WMP1008020
1200	800	200	WMP1258025
1400	800	200	WMP1408025

H (cm)	W (cm)	D (cm)	PRODUCT CODE
1200	800	200	WMP1208020
1400	800	200	WMP1408020
600	600	250	WMP606025
800	600	250	WMP806025
1000	600	250	WMP1006025
1200	600	250	WMP1256025
1400	600	250	WMP1406025
600	800	250	WMP608025
800	800	250	WMP808025
1000	800	250	WMP1008025
1200	800	250	WMP1258025
1400	800	250	WMP1408025

Wall Mounted Accessories

- 1- Structure in galvanized steel, welded and then painted
- 2- Roof fan (optional) thanks to this location achieves perfect evacuation.
- 3- Eyebolt direct fixing to cabinet and allow an easy portability.
- 4- Handle with anti-vandal three anchor points inside
- 5- Limit switch allows us to control lighting, cooling elements, etc.
- 6- Mapboards, fixed with adhesive tape or screws to the cabinet





Hinges

Description: Door hinges that allow the door to open 180°. Machining is required.

Material: Zinc plated steel.

Pack quantity: Hinges with Mounted accessories.



ROTATING HANDLES CLOSURES

Depending de cabinet, and future use, we have standard closures in polyamide and chrome.



EYEBOLT

With sizes from M12 to M20 galvanized.

Are set directly on the body of the cabinet, including the possibility of riding with the roof installed.



WALL SUPPORT

They are fixed from the outside and can be positioned either vertically or horizontally.



ASSEMBLY FRAME

This rigid structure made of steel, allows us to make a proper distribution of indoor switchgear, dividing the front into several sections.

They are ideal for placement of breakers, differential, ICP, etc.

These frames can be wired and mounted outside the cabinet for later installation.

Adaptable to any wardrobe, available blank plates or stamped in accordance with the needs and different sizes and combinations thereof to suit each model.

We designed the chassis as needed.

CLEAR DOOR

All our cabinets are available with transparent door and interior door for placement of electrical components or indicators that allows for perfect vision and protection of them to avoid direct contact with liquids.

Approved polycarbonate and fire resistant.

High impact strength DIN 52290, BS 6206

Anti-bandit glass BS 5544

Fire resistant DIN B1, B2.



DOUBLE DOOR

The possibility of placing a double door in the cabinet is given by the customers need to improve manoeuvrability and the fact of maintaining a zone closed during work on the other.



INNER DOOR

Interior door designed for direct placement in the closet.

With different designs and finishes depending on the needs.



MOUNTING PLATE

Different plates for different uses: Galvanized Steel: It is the most common. With a bath of zinc, is protected against corrosion and is easy for making the precut holes. Polycarbonate: Used to cover or protect electronic components and prevent tampering.



ROOF

Possibility of ordering self-ventilated.



Series A (Water behind)

Ideal when we want to preserve the front. The fluids are directed to the rear of the enclosure while preserving the important elements that could be placed at the door.



Series B (Two waters)

Installation is ideal for outdoor use. By design the self-ventilation system dissipates heat out effectively without the need to install fans and getting a significant energy savings

Requirements for sending drawing files to Masar

- Provide drawing file in one of this formats
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- PDF with dimensions + STEP (o IGES)
- Only PDF. Provide all geometry dimensions; sections details are required and legible.
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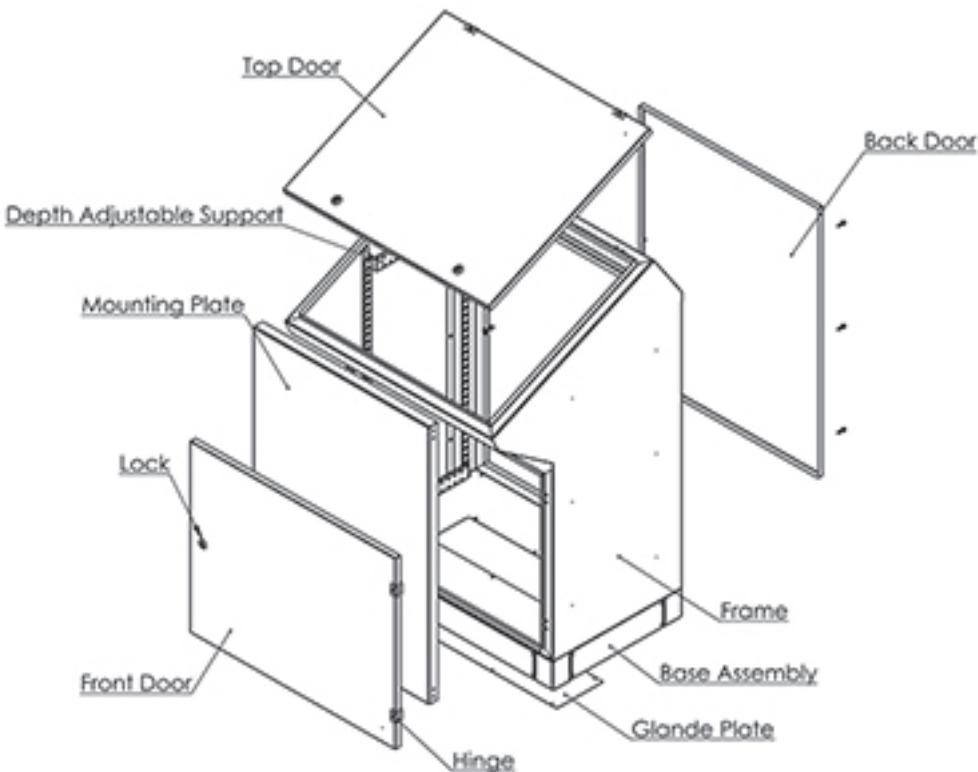


APPLICATIONS

Specially design for maximum flexibility in use, from automation, machine controls, control systems, electrical distribution, industrial networks or general industrial environment.

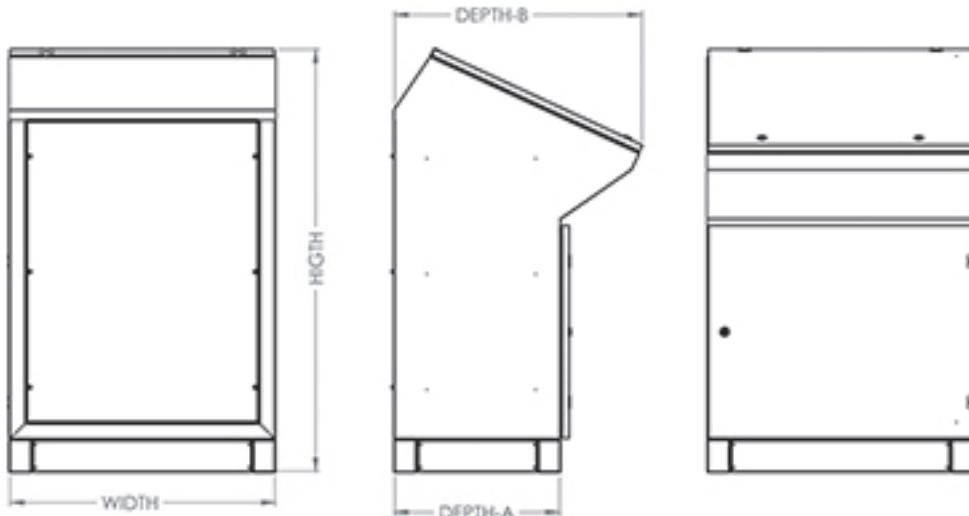
DESCRIPTION AND DESIGN

Console smart, functional console easily accessible to the operator, manufactured in painted Steel, its design provides IP55 protection.
Top door with shock absorbers providing opening and retaining, dismountable bottom, concealed hinges. Channel flashing avoids liquids coming into contact with UL approved seamless polyurethane joint, concealed hinges 180° degree opening, which facilitates interior access. Bolts included.
Door opening is a standard 5 mm double bit. Painted in RAL 7032 or 7035.



OPTIONS

- Order by measure based on your needs.
- Sockets.
- All types of ventilation.
- Cable entry cover.
- Metal legs and wheels.
- Clear polycarbonate door.
- Finished in textured paint RAL on request.
- Mounted plate insulator (Bakelite) or painted steel.



HIGHT (mm)	WIDTH (mm)	DEPTH-A (mm)	DEPTH-B (mm)	DOORS	PRODUCT CODE
1000	600	500	750	1	MCON-100603550
1000	800	500	750	1	MCON-100803550
1000	1000	500	750	2	MCON-1001003550
1000	1200	500	750	2	MCON-1001203550
1000	1400	500	750	2	MCON-1001403550
1000	1600	500	750	2	MCON-1001603550

Custom Made Enclosures

To MASAR specializes in custom cabinetry solution. We manufacture all kinds of special cabinets adapted to the requirements of our customers. We also have a service painted in any color, low standard RAL.



Requirements for sending drawing files to Masar

- Provide drawing file in one of this formats
- PDF with dimensions + AUTOCAD
- PDF with dimensions + STEP (or IGES)
- Only PDF. Provide all geometry dimensions; sections details are required and legible.
- When using STEP format must indicate the holes to be tapped, because the program transforms the drawing and not differentiate between screwed hole and intern hole.
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APPLICATIONS

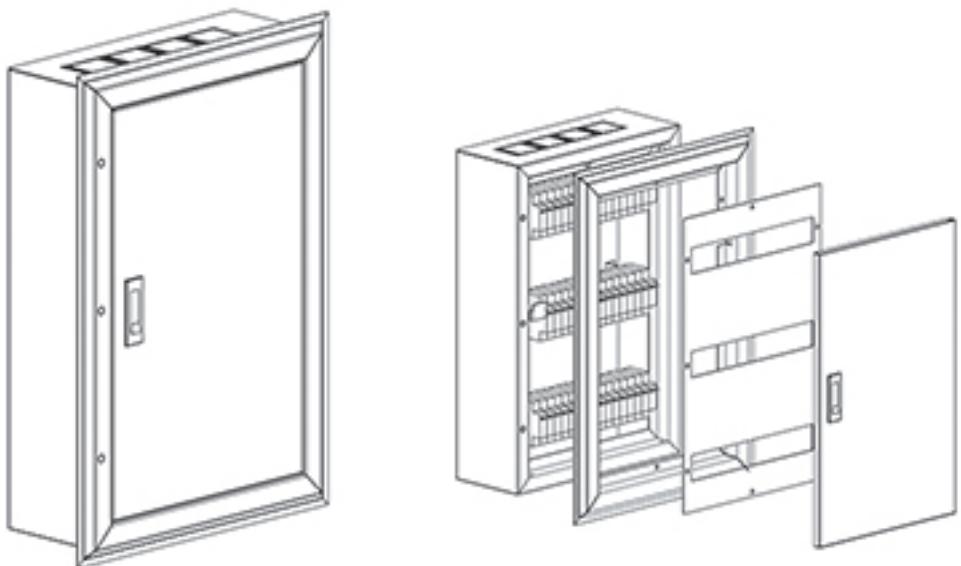
Designed for indoor use to enclose controls, instruments, and components which do not require oil-tight or dust-tight protection.

Ideal for applications where components may be easily mounted and wired prior to installation of wrapper and door.

DESCRIPTION AND DESIGN

Construction:

- Three piece assembly consisting of a base, wrapper, and door.
- Components are attached and secured with metal screws.
- 1mm gauge reverse formed base provides clearance for Mounted hardware.
- Punched for left or right hinging of the door and ease of assembly.
- Wrapper is formed from 1mm gauge steel
- Flush Mounted door assembly formed from 1.5mm gauge steel.
- A bonding stud is provided on the door and a grounding screw is provided for the enclosure.

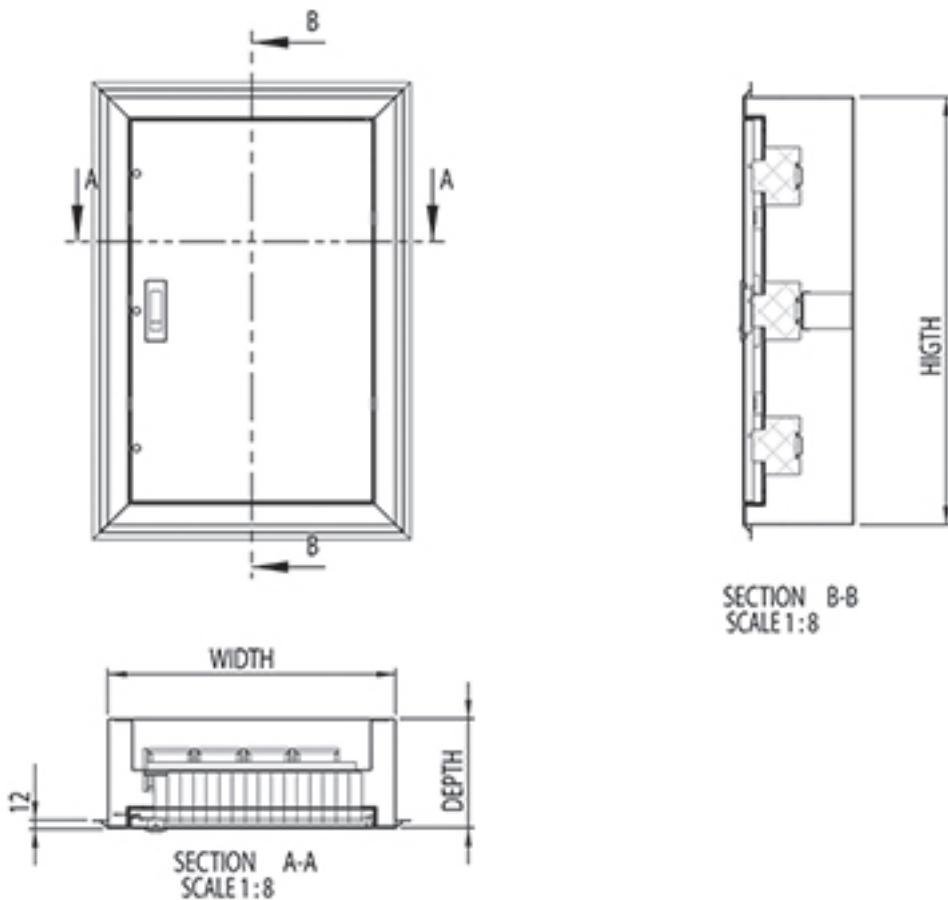


Finish

Base, wrapper and door are finished in ANSI 61 gray powder coating.

Models, Options

MFM family consists of MFM1S for a single row of up to 15 modules of multi 9 , MFM-2ROW, MFM-3ROW, MFM-4ROW and MFM-5ROW. All units can accommodate a Molded Case Circuit breaker.



Product cod.	Description	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)
MFM-1ROW	up to 15 modules of multi 9	240	400	100
MFM-2ROW	up to 30 modules of multi 9	420	400	100
MFM-3ROW	up to 45 modules of multi 9	600	400	150
MFM-4ROW	up to 60 modules of multi 9	780	400	150
MFM-5ROW	up to 75 modules of multi 9	960	400	150



APPLICATIONS

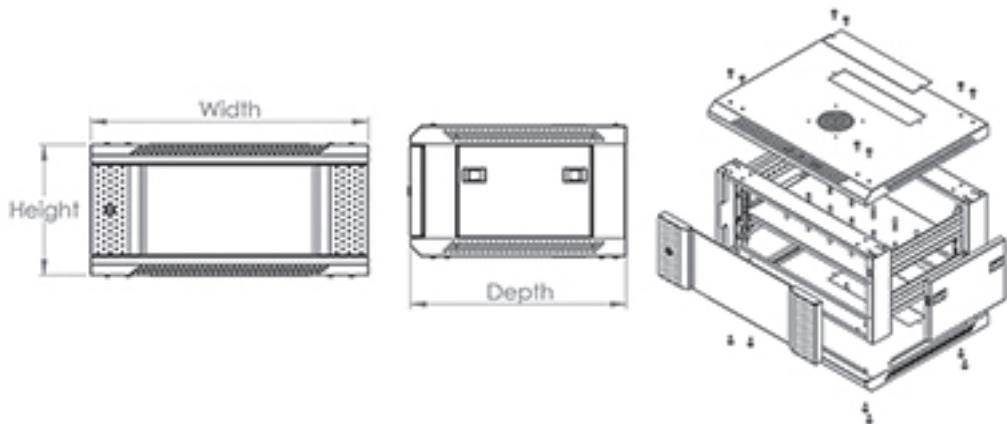
The compact design of the Masar Rack Office System Cabinet makes it the ideal housing for small & large network requirements, allowing integration of voice, data, ISDN and internet connections in one neat unit.

1 - Wall Mounted Rack

1 - 1 Single Section



SINGLE WALL MOUNTED Rack				
Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
AMC -04-64	4	600	450	280
AMC -06-64	6	600	450	370
AMC -09-66	9	600	600	505
AMC -12-66	12	600	600	640
AMC -15-66	15	600	600	775

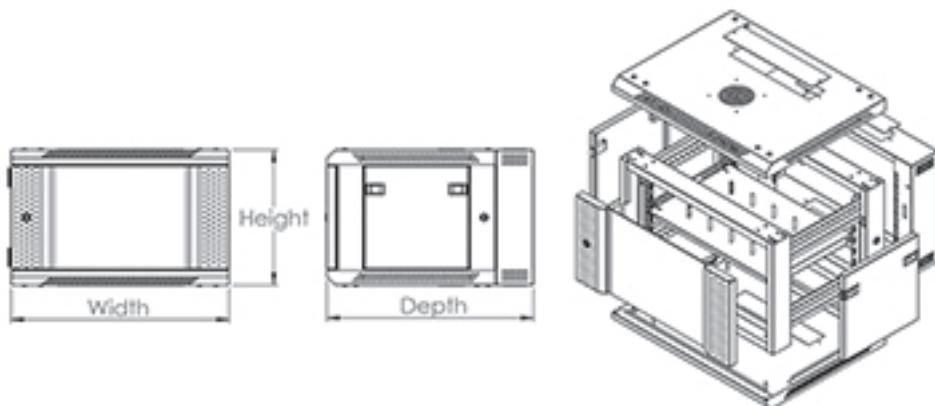


1 - 2 Double Section



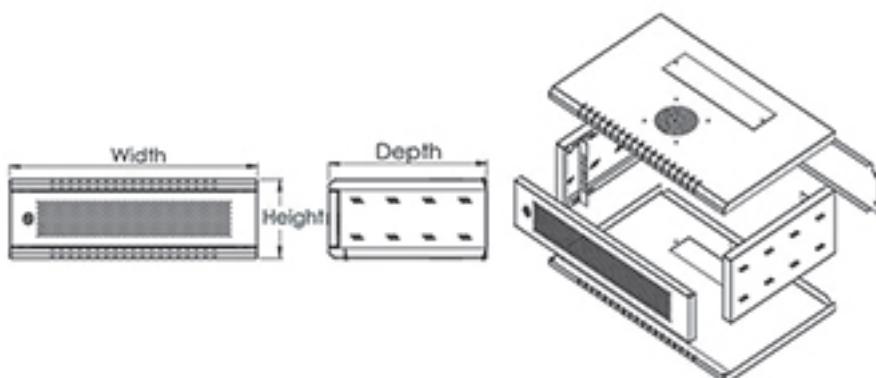
DOUBLE WALL MOUNTED Rack

Product Code	Capacity(U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
DMC -04-65	4	600	550	280
DMC -06-65	6	600	550	370
DMC -09-65	9	600	550	505
DMC -12-65	12	600	550	640
DMC -15-65	15	600	550	775



1 - 3 Rack 2U**SINGLE WALL MOUNTED Rack**

Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
AMC -02-54	2	550	450	150

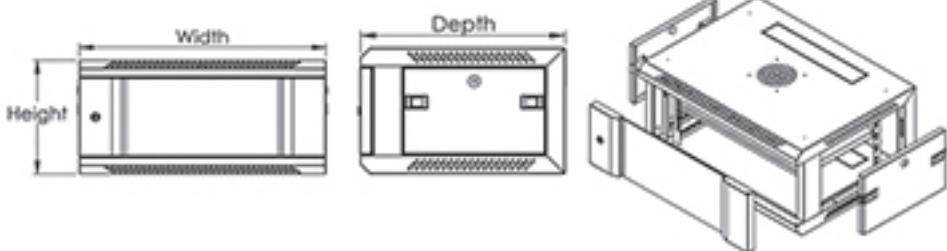


1 - 4 Welded Rack



WELDED WALL MOUNTED Rack

Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
WMC -04-64	4	600	450	280
WMC -06-64	6	600	450	370
WMC -09-64	9	600	450	505

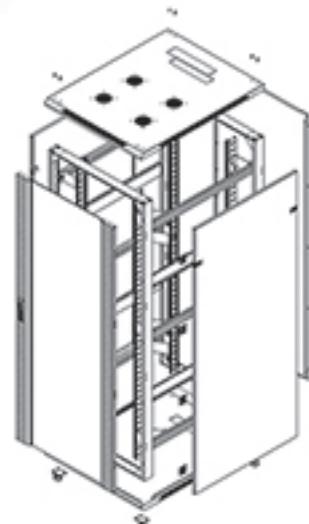
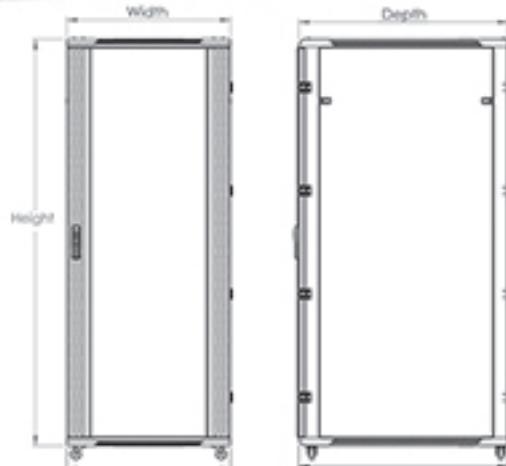


2 - Floor Stand Rack

2 - 1 Standing Network Rack



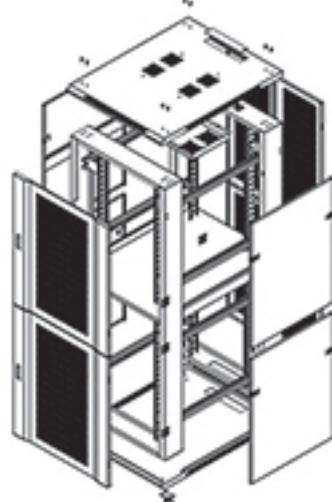
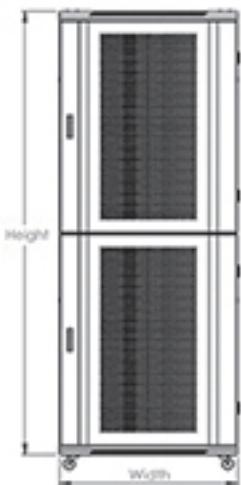
STANDING NETWORK RACK				
Product Code	Capacity(U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
SNR -18-66	18	600	600	910
SNR -22-66	22	600	600	1090
SNR -22-68	22	600	800	1090
SNR -27-66	27	600	600	1315
SNR -27-68	27	600	800	1315
SNR -32-66	32	600	600	1540
SNR -32-68	32	600	800	1540
SNR -32-61	32	600	1000	1540
SNR -32-88	32	800	800	1540
SNR -32-81	37	800	1000	1765
SNR -37-66	37	600	600	1765
SNR -37-68	37	600	800	1765
SNR -37-61	37	600	1000	1765
SNR -37-88	37	800	800	1765
SNR -37-81	37	800	1000	1990
SNR -42-66	42	600	600	1990
SNR -42-68	42	600	800	1990
SNR -42-61	42	600	600	1990
SNR -42-88	42	800	800	1990
SNR -42-81	42	800	1000	1990



2 - 2 Standing Network Rack Separated Sections



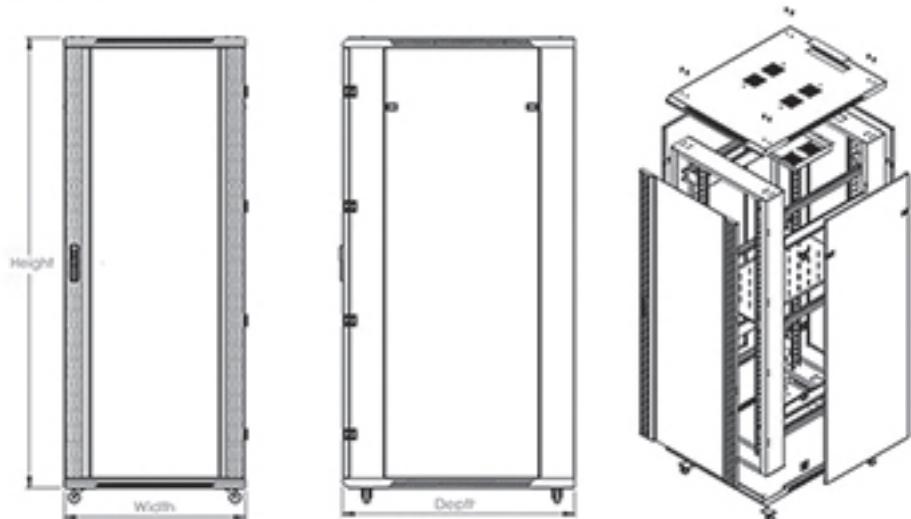
STANDING NETWORK RACK SEPARATED SECTIONS				
Product Code	Capacity(U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
SNR (S) - 18-66	18	600	600	915
SNR (S) - 22-66	22	600	600	1315
SNR (S) - 22-68	22	600	800	1315
SNR (S) - 27-66	27	600	600	1315
SNR (S) - 27-68	27	600	800	1315
SNR (S) - 32-66	32	600	600	1540
SNR (S) - 32-68	32	600	800	1540
SNR (S) - 32-81	32	600	1000	1540
SNR (S) - 37-66	37	600	600	1765
SNR (S) - 37-68	37	600	800	1765
SNR (S) - 37-81	37	600	1000	1765
SNR (S) - 37-88	37	800	800	1765
SNR (S) - 37-95	37	800	1000	1990
SNR (S) - 42-66	42	600	600	1990
SNR (S) - 42-68	42	600	800	1990
SNR (S) - 42-81	42	600	1000	1990
SNR (S) - 42-88	42	800	800	1990
SNR (S) - 42-95	42	800	1000	1990



2 - 3 Standing Network Rack Wide Frame



STANDING NETWORK RACK WIDE FRAME				
Product Code	Capacity(U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
SNR [WTF]-18-66	18	600	600	1920
SNR [WTF]-22-66	22	600	600	1920
SNR [WTF]-22-68	22	600	800	1920
SNR [WTF]-27-66	27	600	600	1925
SNR [WTF]-27-68	27	600	800	1925
SNR [WTF]-32-66	32	600	600	1940
SNR [WTF]-32-68	32	600	800	1940
SNR [WTF]-32-41	32	600	1000	1940
SNR [WTF]-32-81	32	800	800	1940
SNR [WTF]-32-81	37	800	1000	1795
SNR [WTF]-37-66	37	600	600	1795
SNR [WTF]-37-68	37	600	800	1795
SNR [WTF]-37-41	37	600	1000	1795
SNR [WTF]-37-88	37	800	800	1795
SNR [WTF]-37-41	37	800	1000	1990
SNR [WTF]-42-66	42	600	600	1990
SNR [WTF]-42-68	42	600	800	1990
SNR [WTF]-42-41	42	600	600	1990
SNR [WTF]-42-88	42	800	800	1990
SNR [WTF]-42-41	43	800	1000	1990

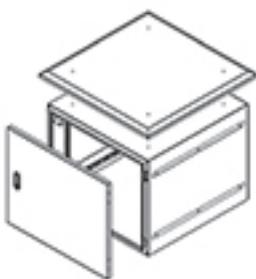
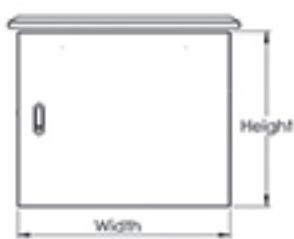


3 - Outdoor Rack



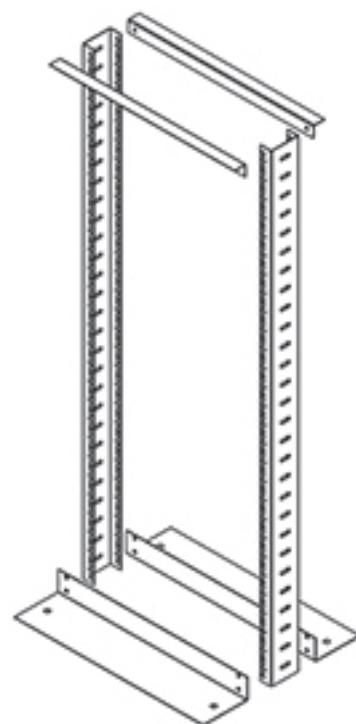
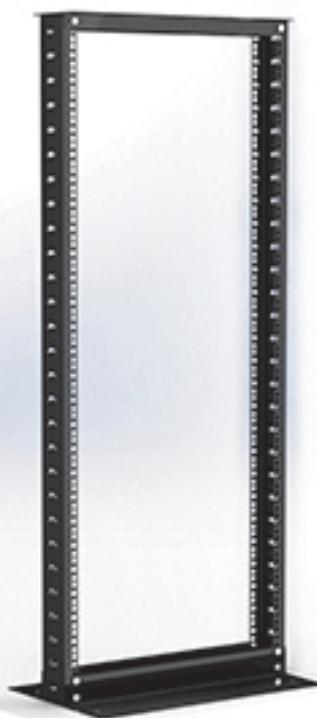
OUTDOOR RACK

Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
ODR -06-66	6	600	600	350
ODR -09-66	9	600	600	500
ODR -12-66	12	600	600	650



4 - Open Frame Rack

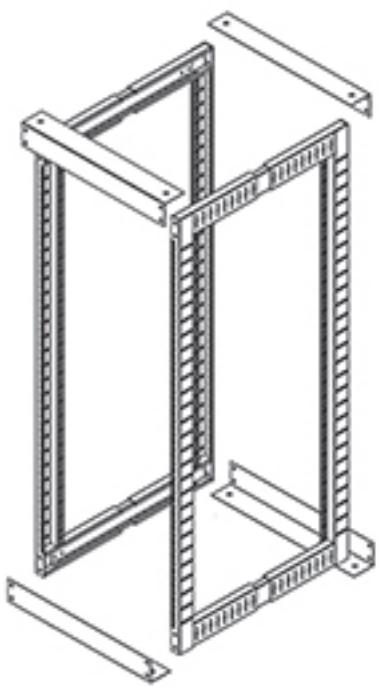
4 - 1 2 post Open Frame Rack



2-POST OPEN FRAME RACK

Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
OF- 2P-22	22	510	315	1090
OF- 2P-25	25	510	315	1225
OF- 2P-27	27	510	315	1315
OF- 2P-32	32	510	315	1540
OF- 2P-37	37	510	315	1765
OF- 2P-42	42	510	315	1990

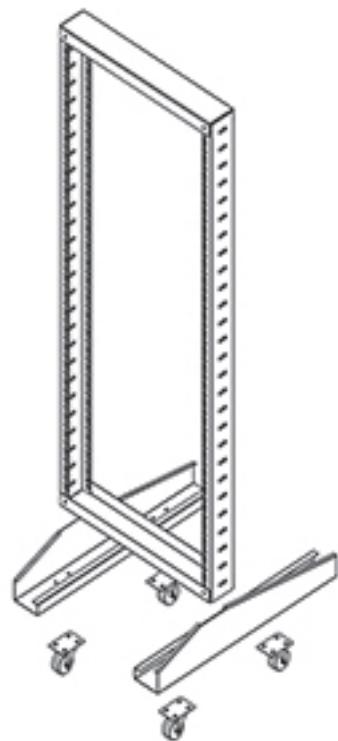
4 - 2 4 post Open Frame Rack



4-POST OPEN FRAME RACK

Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
OF- 4P-22	22	510	600	1090
OF- 4P-22	22	510	950	1090
OF- 4P-25	25	510	600	1225
OF- 4P-25	25	510	950	1225
OF- 4P-27	27	510	600	1315
OF- 4P-27	27	510	950	1315
OF- 4P-32	32	510	600	1540
OF- 4P-32	32	510	950	1540
OF- 4P-37	37	510	600	1765
OF- 4P-37	37	510	950	1765
OF- 4P-42	42	510	600	1990
OF- 4P-42	42	510	950	1990

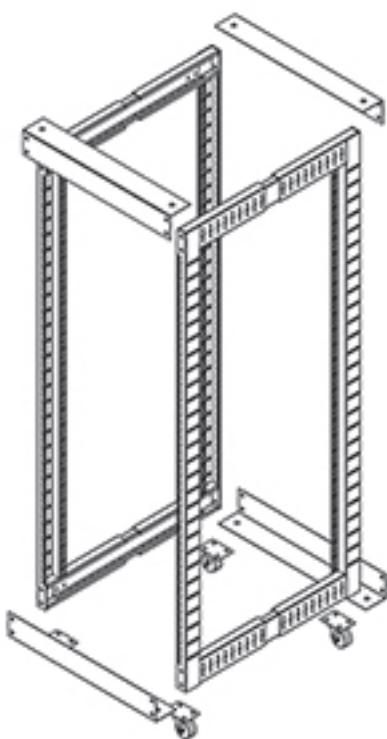
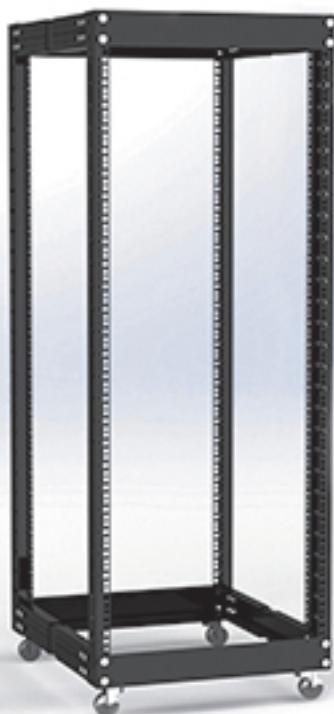
4 - 3 2 post Open Frame Rack With Wheels



MOVABLE 2-POST OPEN FRAME RACK

Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
MOF- 2P-22	22	510	600	1090
MOF- 2P-25	25	510	600	1225
MOF- 2P-27	27	510	600	1315
MOF- 2P-32	32	510	600	1540
MOF- 2P-37	37	510	600	1765
MOF- 2P-42	42	510	600	1990

4 - 4 4 post Open Frame Rack With Wheels

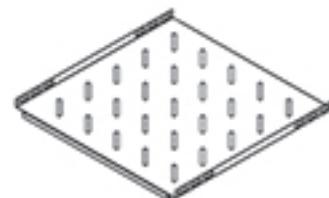


MOVABLE 4-POST OPEN FRAME RACK

Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
MOF-4P-22	22	510	600	1090
MOF-4P-22	22	510	950	1090
MOF-4P-25	25	510	600	1225
MOF-4P-25	25	510	950	1225
MOF-4P-27	27	510	600	1315
MOF-4P-27	27	510	950	1315
MOF-4P-32	32	510	600	1540
MOF-4P-32	32	510	950	1540
MOF-4P-37	37	510	600	1765
MOF-4P-37	37	510	950	1765
MOF-4P-42	42	510	600	1990
MOF-4P-42	42	510	950	1990

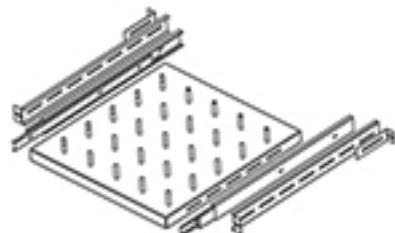
5 - Accessories

5 - 1 Rack Shelf



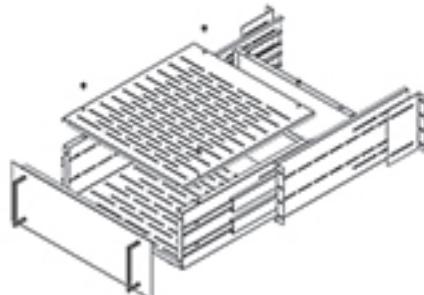
RACK SHELF				
Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
RS-66	1	600	600	35
RS-68	1	600	800	35
RS-61	1	600	1000	35

5 - 2 Rack Sliding Shelf



RACK SLIDING SHELF				
Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
RSS-66	1	600	600	45
RSS-68	1	600	800	45
RSS-61	1	600	1000	45

5 - 3 Rack Drawer



RACK DRAWER				
Product Code	Capacity (U)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)
RD-2U-66	2	600	600	90
RD-2U-68	2	600	800	90
RD-2U-61	2	600	1000	90
RD-4U-66	4	600	600	180
RD-4U-68	4	600	800	180
RD-4U-61	4	600	1000	180

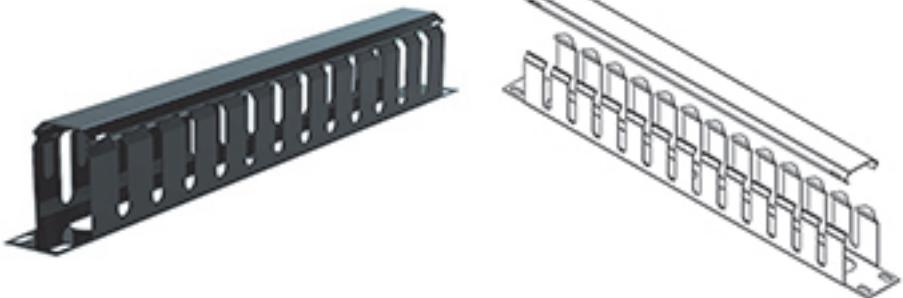
5 - 4 Toolless Blank Panel

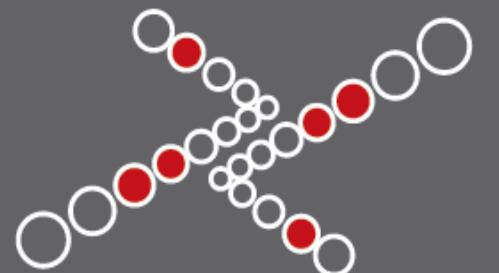


5 - 5 Air Flow Management



5 - 6 Cable Management





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