

Simple.Strategic.Solution

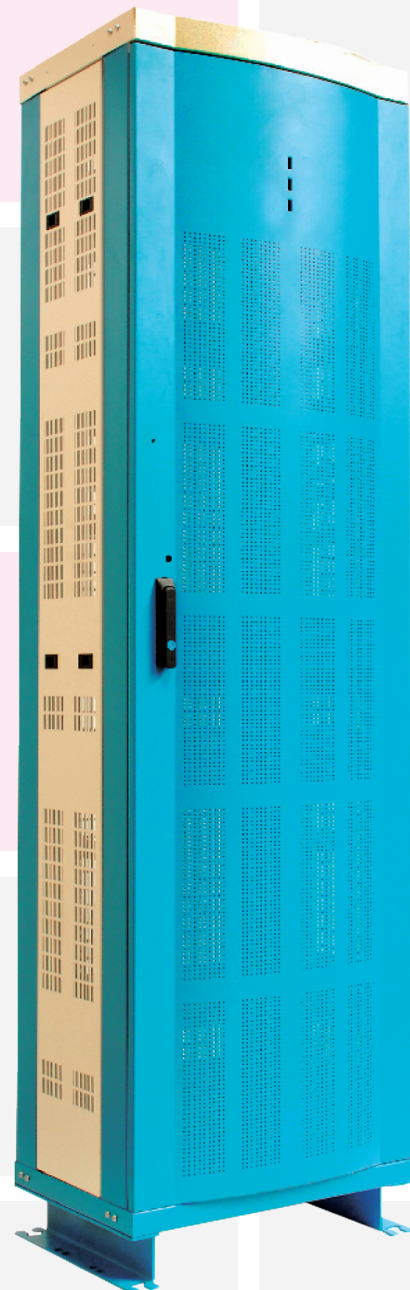


# SIGMA METALIKS

AN ISO 9001-2008 CERTIFIED COMPANY



**High Quality Customised Facilities**



## Welcome to Sigma Metaliks

Sigma Metaliks is an ISO 9001-2008 Certified company, specializing in sheet metal fabrication for all types of industrial requirements in light, medium and heavy categories. The company's area of competence includes manufacture of items like **Electronic Packaging components/Enclosures/Racks/Sub Racks/Card Frames/Cabinets/Fabricated Assys. and all types of hi-precision sheet metal components.**

**We are specialized in Telecom/Electronics Rack and Sub Rack and Card Cages manufacturing.**

Sigma Metaliks founded in 1998, is a leading company in this field with a proven track record of more than 10 years is located in Bangalore, Peenya Industrial Area. With the belief that a business could be profitable and socially and environmentally responsible. Over the years, this business philosophy has been transformed into a commitment to achieve a sustainable enterprise with specific financial, social and environmental goals.

Sigma Metaliks offers customers a state-of-the-art manufacturing facility in the heart of Bangalore's industrial estate, Peenya. With a collection of CNC machines from across the globe and supported by other machines, manufacture large number of Customized Assemblies & components every month.

### QUALITY POLICY

SIGMA METALIKS is committed to achieving sustained business excellence by integrating its quality values at all levels to anticipate, meet and exceed customer expectations and continuously improve the work to deliver the **"Best in Quality Sheet Metal Products"** and more cost effectively than its competitors.





MACHINE CAPABILITIES

Machine Capabilities			
Description	Machinery	Model	Specification
CNC Turret Punch Press	Muratec JAPAN	Motorum 2548 & Motorum 2048	Punching 25 tons capacity, max punching thickness 6.35 mm No. of stations 44 max dia of punch 80 mm on 3.0 mm thickness sheet.
CNC Press Brake	Toyokoki JAPAN	APB 286	30 tons x 700mm
NC Press Brake	Amada JAPAN	RG - 25	25 tons X 1250 mm
NC Press Brake	Amada JAPAN	RG - 35	35 tons X 1250 mm
CNC Press Brake	Amada JAPAN	RG - 80	80 tons X 2500 mm
Deburring M/C	Time Saver (Holland)	-	600 mm width
Clinching (Riveting) M/C	LCM (Italy)	-	6 ton Capacity
Pneumatic (Riveting) M/C	Pneumatica	-	8 ton Capacity
Pop (Riveting) M/C	Emhart	-	3.2 Dia
Robot Welding M/C	ABB (Sweden)	IRB 1410	50 kg
Tig Welding M/C	Esab	Heliare 250 AC DC	-
Mig Welding M/C	Esab	Auto K400 / K 250	-

## Floor Mount Racks



RX series cabinets offer an intelligent and innovative design that are aesthetically distinctive design and cost effective 19" floor standing enclosures in 600mm or 800mm wide and 600, 800 or 1000mm depth. Features include four adjustable profiles, lockable glass front door and metal vented side & rear doors, transit castors. Heavy duty castors can be used for the heavier loaded cabinets. Open structure comprising of a rigid bolted frame manufactured to IEC297 and BS5954. The cabinet can be supplied in knockdown condition which makes less transportation cost.

**" Cost and space saving while using RX series cabinets"**

The most significant innovation is the shape of the uprights. The frame vertical itself acts as vertical cable manager and the slots provided in the verticals will cater to effective cable management from front to rear of the enclosure. This means to customer great cost saving as feature of 800w is available in 600mm wide cabinets. Avoiding 800mm width enclosure the customer also saves floor space and can accommodate more enclosures for the same area.



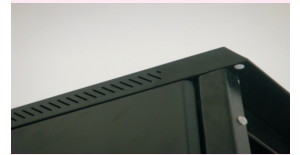


## Floor Mount Racks



### Stylish top cover

Ventilated on all sides along the width and depth thereby enhancing exhaust of hot air.



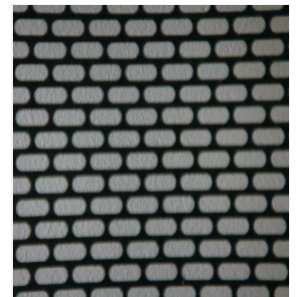
### Provision for cable entry on the verticals

The frame vertical itself acts as vertical cable manager and the slots provided in the verticals will cater to effective cable management from front to rear of the enclosure



### Perforation on Door

Based on the concept of natural air flow Doors are provided with ventilation pockets all along the height.



### Adjustable 19' Panel mounting angles

Used for 19' Standard application. The panel mount can have an infinite depth adjustment. Made of 2mm CRCA.



### Casters

Casters are an useful optional item for providing mobility to floor standing cabinets. Normally two casters with foot operated breaks and two without breaks are used.



### Panel mounting support

These fit between the vertical picture frame and are used to support centrally mounted 19", They allow positioning of the panel mounts anywhere from the front to the rear of the RX 09 Series Racks.



### Doors fixed by spring hinge

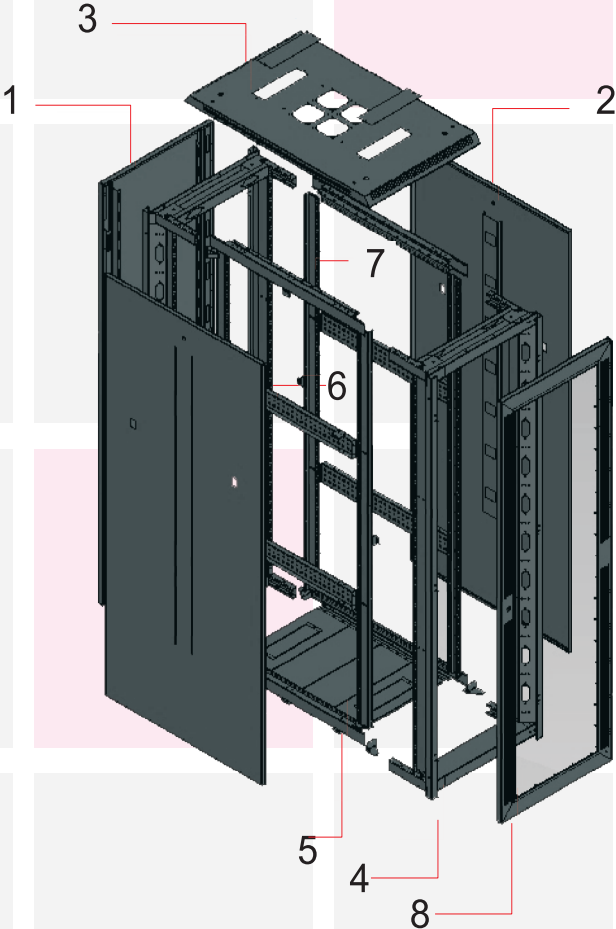
Doors are fitted on to the frame with spring loaded hinge pins at the top and bottom which allow very fast fitment and removal.



Floor Mount Racks

FRAMEWORK AND CLADDING

Steel door.	1
Side panel	2
Top cover	3
Frame assy	4
Bottom cover	5
PNL Mounting support	6
19' Angle	7
Glass door	8



Technical Data:

1). Baisc frame	: Steel folded
2). Construction	: Welded or Bolted
3). Top & Bottom cover	: Bolted to frame with cable exit cutouts
4). Standard	: Conformed to DIN 41494
5). Manufacturing standard	: ISO 9001: 2000
6). Front door	: Lockable Toughened Glass Door or Lockable steel Door-Plane / Perforated
7). Rear door	: Lockable steel Door- Plane / Perforated
8). Static Load	: 400Kg with casters - 750Kg with Levelers.
9). Dimensions	:

Height :

U	Overall Height (H)	Usable Height (h)
24U	1314.9	1080.9
30U	1581.6	1347.6
36U	1848.3	1614.3
42U	2115	1881
45U	2248.35	2147.7

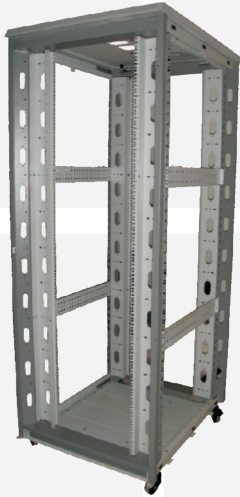
Depth:

Overall Depth(D)	Usable Depth (d)
600	420
800	620
1000	820
1200	1020



# Floor Mount Racks

## 1). Frame assembly :



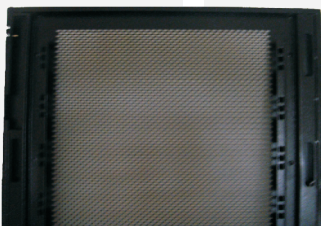
Height(U)	Width(W)	Depth(D)			
		600mm	800mm	1000mm	1200mm
24U	600	RX-3030-1Y	RX-3031-1Y	RX-3032-1Y	
30U	600	RX-3034-1Y	RX-3035-1Y	RX-3036-1Y	
36U	600	RX-3037-1Y	RX-3038-1Y	RX-3039-1Y	
	800	RX-3040-1Y	RX-3041-1Y	RX-3042-1Y	
42U	600	RX-3043-1Y	RX-3044-1Y	RX-3045-1Y	RX-3046-1Y
	800	RX-3047-1Y	RX-3048-1Y	RX-3049-1Y	
45U	600	RX-3050-1Y	RX-3051-1Y	RX-3052-1Y	RX-3053-1Y
	800	RX-3054-1Y	RX-3055-1Y	RX-3056-1Y	

## 2). Side panel :



Height(U)	Glass door		
	800mm	1000mm	1200mm
24U	RX-3057-1Y	RX-3058-1Y	RX-3059-1Y
30U	RX-3060-1Y	RX-3061-1Y	RX-3062-1Y
36U	RX-3063-1Y	RX-3064-1Y	RX-3065-1Y
42U	RX-3066-1Y	RX-3067-1Y	RX-3068-1Y
45U	RX-3069-1Y	RX-3070-1Y	RX-3071-1Y

## 3). Front & Rear door :



Height(U)	Width(W)	Glass door		Steel door	
		Plane	Vented	Half perforated	Full perforated
24U	600	RX-3072-1Y	RX-3073-1Y	RX-3074-1Y	
30U	600	RX-3075-1Y	RX-3078-1Y	RX-3079-1Y	
36U	600	RX-3080-1Y	RX-3081-1Y	RX-3082-1Y	
	800	RX-3083-1Y	RX-3084-1Y	RX-3085-1Y	
42U	600	RX-3086-1Y	RX-3087-1Y	RX-3088-1Y	RX-3098-1Y
	800	RX-3089-1Y	RX-3090-1Y	RX-3091-1Y	
45U	600	RX-3092-1Y	RX-3093-1Y	RX-3094-1Y	RX-3099-1Y
	800	RX-3095-1Y	RX-3096-1Y	RX-3097-1Y	

## Floor Mount Racks



These are cost effective solution from the house of SIGMA to provide solutions for housing networking equipments. The design is such that it allows total freedom and flexibility for the engineer to "cable up" and then put the cover on. There are no predefined cable ducting or mounting. The "10-bend profile" design along the height of the frame allows tremendous stability to the structure. Three pair "Panel mounting support provides frame stability. The removable side panels allow equipment access from all sides. The "T" slide arrangement gives variable mounting possibilities to accommodate patch panels, subracks, chassis, shelves, fittings, modems, and routers, etc. The basic 'H' frame can be varied along the height and depth of the cabinet making it easier for the engineer to structure the equipments.



BX-Series design of ventilated top, bottom covers, ventilated top, rear door and ventilated side panel ensures a very high heat dissipation factor. The side panels have the additional options of half, full or 1/3rd ventilation. To enhance further heat dissipation fans can be mounted on the top panel. To further enhance space utilization the top panels are designed to accommodate fans directly onto them. Known as Top offsets they increase the usable height of the cabinet. The Front door which can be ventilated or plane depending upon user configuration can either have a smoke grey acrylic or a tinted toughened glass window. The rear door is usually mesh to ensure proper thermal management. The "Top-Down" and "Left-right" stiffener allows better stability and rigidity to the door. The casters at the bottom allow smooth movement of the cabinets inside or outside the room.



## Floor Mount Racks

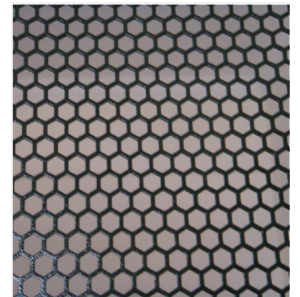


### **Strong & Rigid MS vertical profile**

The “10-bend vertical profile” design along vertical will cater to effective cable management from front to rear of the enclosure

### **Perforation on Door**

Based on the concept of natural air flow Doors are provided with ventilation pockets all along the height.

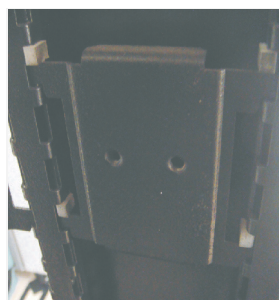


### **Adjustable 19' Panel mounting angles**

Used for 19' Standard application. The panel mount can have an infinite depth adjustment. Made of 2mm CRCA.

### **Casters**

Casters are an useful optional item for providing mobility to floor standing cabinets. Normally two casters with foot operated breaks and two without breaks are used.



### **Panel mounting support**

These fit between the vertical picture frame and are used to support centrally mounted 19", They allow positioning of the panel mounts anywhere from the front to the rear of the RX 09 Series Racks.

### **Doors fixed by spring hinge**

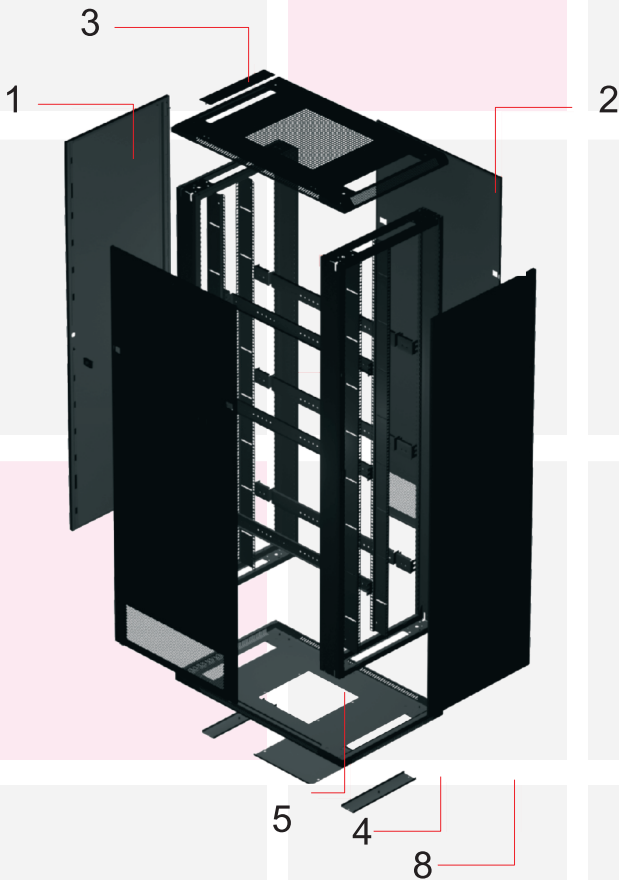
Doors are fitted on to the frame with spring loaded hinge pins at the top and bottom which allow very fast fitment and removal.



Floor Mount Racks

FRAMEWORK AND CLADDING

Steel door.	1
Side panel	2
Top cover	3
Frame assy	4
Bottom cover	5
PNL Mounting support	6
19' Angle	7
Glass door	8



Technical Data:

1). Baisc frame	: Steel folded
2). Construction	: Welded or Bolted
3). Top & Bottom cover	: Bolted to frame with cable exit cutouts
4). Standard	: Conformed to DIN 41494
5). Manufacturing standard	: ISO 9001: 2000
6). Front door	: Lockable Toughened Glass Door or Lockable steel Door-Plane / Perforated
7). Rear door	: Lockable steel Door- Plane / Perforated
8). Static Load	: 400Kg with casters - 750Kg with Levelers.

Height :

U	Overall Height (H)	Usable Height (h)
24U	1314.9	1080.9
30U	1581.6	1347.6
36U	1848.3	1614.3
42U	2115	1881
45U	2248.35	2147.7

Depth:

Overall Depth(D)	Usable Depth (d)
600	420
800	620
1000	820
1200	1020



## Floor Mount Racks

### Ordering information:

#### 1). Frame assembly :

Height(U)	Width(W)	Depth(D)			
		600mm	800mm	1000mm	1200mm
24U	600	BX-3128-1Y	BX-3129-1Y	BX-3130-1Y	
30U	600	BX-3131-1Y	BX-3132-1Y	BX-3133-1Y	
36U	600	BX-3134-1Y	BX-3135-1Y	BX-3136-1Y	
	800	BX-3137-1Y	BX-3138-1Y	BX-3139-1Y	
42U	600	BX-3140-1Y	BX-3141-1Y	BX-3142-1Y	BX-3152-1Y
	800	BX-3143-1Y	BX-3144-1Y	BX-3145-1Y	
45U	600	BX-3146-1Y	BX-3147-1Y	BX-3148-1Y	BX-3153-1Y
	800	BX-3149-1Y	BX-3150-1Y	BX-3151-1Y	

#### 2). Side panel :

Height(U)	Glass door		
	800mm	1000mm	1200mm
24U	BX-3154-1Y	BX-3155-1Y	BX-3156-1Y
30U	BX-3157-1Y	BX-3158-1Y	BX-3159-1Y
36U	BX-3160-1Y	BX-3161-1Y	BX-3162-1Y
42U	BX-3163-1Y	BX-3164-1Y	BX-3165-1Y
45U	BX-3166-1Y	BX-3167-1Y	BX-3168-1Y

#### 3). Front & Rear door :

Height(U)	Width(W)	Glass door		Steel door	
		Plane	Vented	Half perforated	Full perforated
24U	600	BX-3169-1Y	BX-3170-1Y	BX-3171-1Y	
30U	600	BX-3172-1Y	BX-3173-1Y	BX-3174-1Y	
36U	600	BX-3175-1Y	BX-3176-1Y	BX-3177-1Y	
	800	BX-3178-1Y	BX-3179-1Y	BX-3180-1Y	
42U	600	BX-3181-1Y	BX-3182-1Y	BX-3183-1Y	BX-3184-1Y
	800	BX-3185-1Y	BX-3186-1Y	BX-3187-1Y	
45U	600	BX-3188-1Y	BX-3189-1Y	BX-3190-1Y	BX-3191-1Y
	800	BX-3192-1Y	BX-3193-1Y	BX-3194-1Y	

To specify finish use the second suffix 'Y' as below  
 Colour of Profiles Colour of Panels  
 Y = 1 Dark Grey, RAL 7037 Light Grey, RAL 7035  
 Y = 2 Light Grey, RAL 7035  
 Y = 3 Black Black

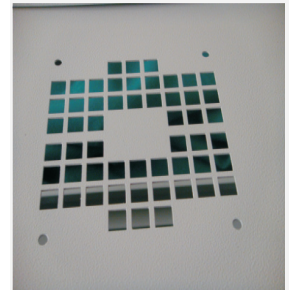
# Wall Mount Racks



WX-e series well designed and cost effective solutions for wall mount enclosures. Proper ventilation is provided on the side and top covers. The welded frame construction adds rigidity to the structure. with top and bottom cable entry provision, these wall mount cabinets provide optimal flexibility for cable management.

## Cutout for air flow

Based on the concept of forced or natural air flow pockets are provided at the top. For forced air flow, fan can mount at the top.



## Features

- 1) Cable entry cutout on top and bottom side of the enclosure
- 2) Adjustable 19" angle at every 25 mm depth
- 3) Provision for fan on the top cover
- 4) Front lockable glass door and rear panel as optional
- 5) Handles extra large cable bundles with front and rear distribution provisions.
- 6) Lacing points with generous front to rear openings.
- 7) Organizer covers provide clean appearance - split design allows quick access.

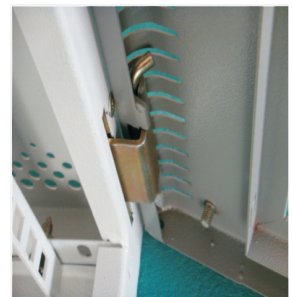
## Adjustable 19' Panel mounting angles

Used for 19' Standard application. The panel mount can have an infinite depth adjustment. Made of 2mm CRCA.



## Doors fixed by Concealed hinge

Doors are fitted on to the frame with two section hinge easy fixing.



## Stylish front door

Front door sides formed radius and cutouts as shown for cooling purpose.



## Cable entry Provision

Cable entry cutouts and gland plate provided at top and bottom of the Wall mount.



# Wall Mount Racks

## Technical Data:

- 1). Basic frame : Steel folded
- 2). Construction : Welded
- 3). Standard : Conformed to DIN 41494
- 4). Manufacturing standard : ISO 9001: 2000
- 5). Front door : Lockable Toughened Glass Door or Lockable steel Door-Plane / Perforated
- 6). Static Load : 25Kg
- 7). Dimensions :

### Height :

U	Overall Height (H)	Usable Height (h)
6U	330	270
9U	463.35	403.35
12U	596.7	536.7
15U	730.05	670.05

### Depth:

Overall Depth(D)	Usable Depth (d)
400	350
500	450
600	550

## Ordering information:

- 1). Frame assembly :

Height(U)	Width(W)	Depth(D)		
		400mm	500mm	600mm
6U	550	WX-3100-1Y	WX-3101-1Y	WX-3102-1Y
9U	550	WX-3103-1Y	WX-3104-1Y	WX-3105-1Y
12U	550	WX-3106-1Y	WX-3107-1Y	WX-3108-1Y
15U	550	WX-3109-1Y	WX-3110-1Y	WX-3111-1Y

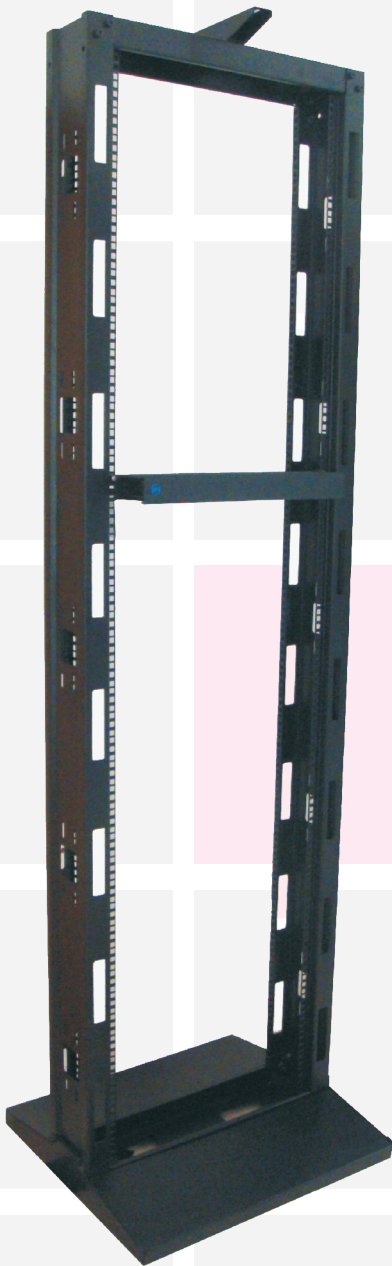
- 2). Door :

Height(U)	Glass door		Steel door	
	Plane	Vented	Half perforated	Full perforated
6U	WX-3112-1Y	WX-3113-1Y	WX-3114-1Y	WX-3115-1Y
9U	WX-3116-1Y	WX-3117-1Y	WX-3118-1Y	WX-3119-1Y
12U	WX-3120-1Y	WX-3121-1Y	WX-3122-1Y	WX-3123-1Y
15U	WX-3124-1Y	WX-3125-1Y	WX-3126-1Y	WX-3127-1Y

To specify finish use the second suffix 'Y' as below Colour of Profiles Colour of Panels  
 Y = 1 Dark Grey, RAL 7037 Light Grey, RAL 7035  
 Y = 2 Light Grey, RAL 7035  
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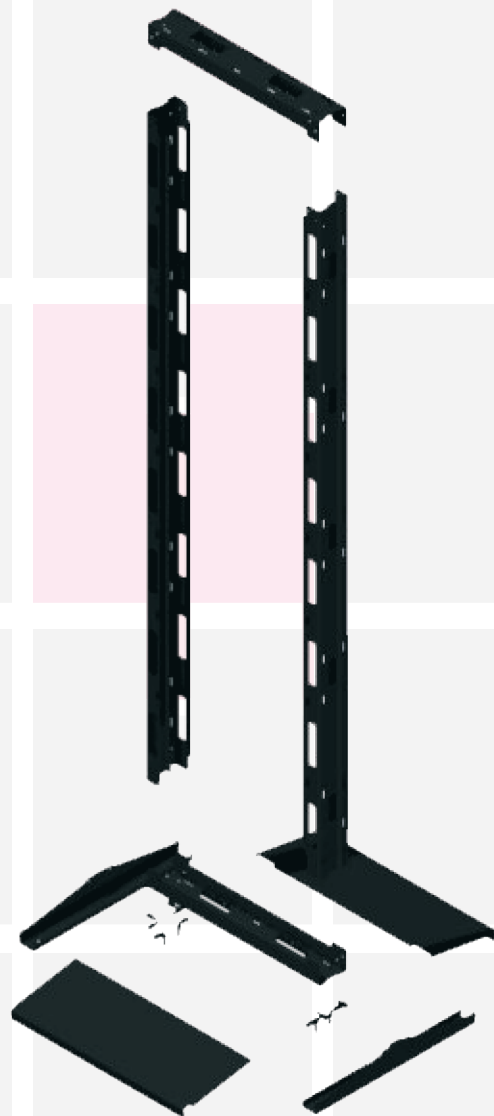


## Open Frame Racks



The 2-Post Frame Open Rack is made of either strong and lightweight Aluminum (6063-T6 alloy) extrusion or 2.0 mm steel. It comes with height ranging from 27U to 45U. These products have universal vertical mounting hole patterns which allow mounting of 19" equipments. The Top and side frames are provided with cable entry cutouts which allow effective routing of cables.

Both the steel and aluminum models can be used to fit 19" equipments. The units which can either be fitted on the floor or allowed to move are particularly well suited for networking and data transmission applications. Used in open accessibility lab applications.



Open Frame Racks

Technical Data:

- 1). Baisc frame

2). Construction

3). Top & Bottom Horizontal

4). Standard

5). Manufacturing standard

8). Static Load
- : Steel folded

: Welded or Bolted

: Bolted to vertical with cable exit cutouts

: Conformed to DIN 41494

: ISO 9001: 2000

: 225Kg

Ordering information:

Steel rack :

Height(U)	Overable Height(H)	Usable Height(H)	Part No:
24U	1196.3	1074.1	OP-3195-1Y
30U	1463	1340.8	OP-3196-1Y
36U	1729.7	1607.5	OP-3197-1Y
42U	1996.4	1874.2	OP-3198-1Y
45U	2129.75	2007.55	OP-3199-1Y

Aluminium rack :

Height(U)	Overable Height(H)	Usable Height(H)	Part No:
24U	1996.4	1874.2	OP-3200-1Y
30U	1996.4	1874.2	OP-3201-1Y
36U	1996.4	1874.2	OP-3202-1Y
42U	1996.4	1874.2	OP-3203-1Y
45U	1996.4	1874.2	OP-3204-1Y

# Accessories

SIGMA offers a wide range of accessories for networking cabinets. These accessories enable the system integrator to position and connect different equipment in a professional manner, in step with current worldwide practices. Use of correct accessories is crucial for the safety of the equipment, increasing reliability, reducing the time to integrate, and also for simplifying field maintenance of complex electronic equipment. Please consult the Accessory Selection chart to determine the correct choice of the accessory compatible with the product group.



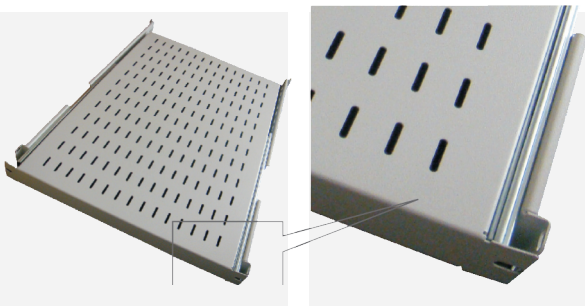
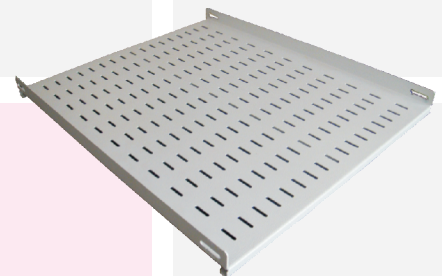
These shelves are useful for light, non 19" wide equipment. They are fixed to the front mounting angles and have load capacity of 22Kgs.

Cantilever self , 1U / 255mmD	AC-3205-1Y
Cantilever self , 2U / 400mmD	AC-3206-1Y

## Stationary shelves

These shelves are fixed directly to the 19" vertical angles. Load capacity is 50Kgs for normal stationary shelves.

Stationary self , 1U / 475mmD	AC-3207-1Y
Stationary self , 1U / 575mmD	AC-3208-1Y
Stationary self , 1U / 725mmD	AC-3209-1Y



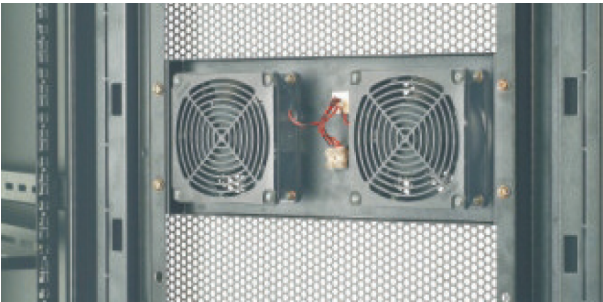
## Sliding shelves

Sliding shelves are provided with telescopic slides for 19" mounting. Load capacity is 35 kgs for 1U shelves and 100 kgs for the 2U shelves

Tray 1U 19" + 14" slides+Fixing brackets	AC-3210-1Y
Tray 1U 19" + 18" slides+Fixing brackets	AC-3211-1Y



# Accessories



**Door Mounting Fan Tray**

These trays are fixing to the rear door for getting cooling inside the cabinets.

Door fan Tray , 2 Pos.600W	AC-3217-1Y
Door fan Tray , 2 Pos.800W	AC-3218-1Y

**AC Main Channel**

These trays are fixing to the rear door for getting cooling inside the cabinets.

AC Main Chnl , 14X5A,Indicator,15A MCB	AC-3219-1Y
AC Main Chnl , 8X15A,Indicator,15A MCB	AC-3220-1Y
AC Main Chnl , 14X5A	AC-3221-1Y
AC Main Chnl , 14X15A	AC-3222-1Y



**Cable Manager**

Cable managers are useful for routing cables horizontally along the front of the cabinet without sagging

Cable Manager, 1U,19" Mounting	AC-3223-1Y
Cable Manager, 2U,19" Mounting	AC-3224-1Y

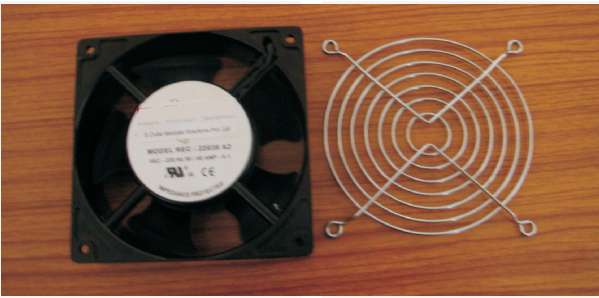
**Fan Tray**

These are 19" mountable fan trays used to position cooling fans ( 90CFM ) at any convenient height inside the cabinet.

Tray Fan, 1U 2-Fan Position	AC-3225-1Y
Tray Fan, 1U 4-Fan Position	AC-3226-1Y
Tray Fan, 1U 6-Fan Position	AC-3227-1Y



# Accessories



## Cooling Fans

Cooling fans are used for thermal management inside equipment cabinets.

Fan 230VAC 90 CFM	AC-3234-1Y
Finger Guard for 90 CFM Fan	AC-3235-1Y

## Telescopic Slides

Telescopic Slides are meant for the housing of rack-mount electronic equipment in 19" enclosure systems

Slides, MS BB Slek, 14"	AC-3236-1Y
Slides, MS BB Slek, 18"	AC-3237-1Y
Slides, MS BB Slek, 20"	AC-3238-1Y
Slides, MS BB Slek, 22"	AC-3239-1Y



## Earthing Accessories

Copper earthing bars and straps are available for providing good quality electrical ground connections. Earthing brackets are available on all side panels and steel doors.

Strap, Earthing, Braided 250mm	AC-3240-1Y
Strap, Earthing, Braided 400mm	AC-3241-1Y

## Captive Mounting Hardware

Front panel captive hardware sets are required for fixing 19" rack equipment directly to the mounting angles in the equipment cabinets.

Hardware Set, Frnt Pnl Cptv, Sqr	AC-3242-1Y
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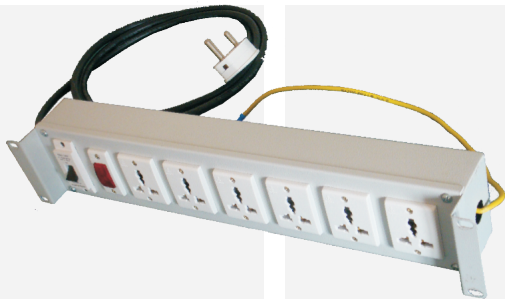


## Rotary Keyboard Tray

The rotary keyboard tray is ideal for 19" cabinets. This tray ensures that the keyboard can be easily drawn out and used, even when it is wider than the entry into the rack.

KB Tray, Rotary,19"/ 600D + Slides+Fixing Bkts	AC-3243-1Y
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# Accessories



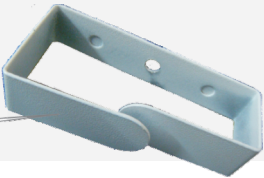
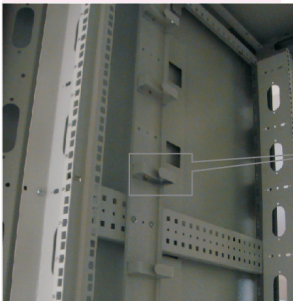
**Power Distribution Unit**

The AC Mains Distribution box is designed for 19" horizontal mounting.

AC Distribution Box , 6X5A,Indicator,15A MCB	AC-3228-1Y
AC Distribution Box , 4X15A,Indicator,15A MCB	AC-3229-1Y

Cable channels, with cabling loops, are made of steel and are meant to be fitted vertically along the side of the cabinets at the rear

Channel with Cable Loops, 24U	AC-3230-1Y
Channel with Cable Loops, 24U	AC-3231-1Y
Channel with Cable Loops, 24U	AC-3232-1Y
Channel with Cable Loops, 24U	AC-3233-1Y



**Heavy duty shelves**

For applications where heavy loads up to 100 kgs have to be supported.

Heavy duty self , 1U / 475mmD	AC-3212-1Y
Heavy duty self , 1U / 575mmD	AC-3213-1Y
Heavy duty self , 1U / 725mmD	AC-3214-1Y



**Fan housing unit**

Top-mounted fan housing units hold up to 4 fans and are fitted to the underside of top cover.

Fan Housing Unit, 90 CFM, 2 Fan	AC-3215-1Y
Fan Housing Unit, 90 CFM, 2 Fan	AC-3216-1Y



How can we help you ?

# Talk to us!



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