

CONSIDERATIONS WHEN CHOOSING A DATA CABINET

AMS



Selecting the correct All-Rack racking product is very important. In order to assist you with choosing the perfect All-Rack product for your system, the space you have and future proofing your system we at have come up with some pointers to help you decide.

1. What size Allrack Cabinet Enclosure do I need?

Selecting the correct server cabinet size depends on 2 major factors: the type of equipment needed for rack mount capabilities and the amount of equipment requiring server rack enclosure space. Planning is the key to a good experience when buying a server rack. Ideally, users should tally the total amount of rack units currently needed and also keep in mind future expansion because cabinet rack units can not be added on once a server rack is fabricated. If additional rack mount accessories such as environmental monitoring, battery back-up (UPS), and/or remote power management are required, extra front and rear cabinet space might be needed in order to sufficiently mount rack accessories vertically and horizontally.

2. Internal or usable Rack Cabinet Dimensions

It is very important to consider how much of the internal of rack is actually usable. We at Attock Network Products feel this is a crucial part of the decision making process and provide internal usable dimensions of all our All-Rack products. Internal Dimensions should be used as a guide to gauge the size and amount of equipment that can be installed inside the rack. Internal vertical measurements from the tallest point of any side rail to the bottom chassis is regarded as total internal height. Internal depth is figured by measuring from the insides of both front and rear doors. For your information in All-Rack racks, the mounting profiles both front and rear can be adjusted to give you extra flexibility. Lastly, internal width measurements extend from one side panel to the other.

Additional space can be modified during rack manufacturing to allow for side, rear, and front mounted rack equipment. Additionally, the auxiliary compartment space will provide room for ventilation systems, bulky power cords and cabling management requirements.

Features

Floor Cabinets

- Available in the following widths:
600mm
800mm
- Available in the following depths:
600mm
800mm
1000mm
- Lockable and removeable side and back panels
- Lockable and removeable glass door
- Optional Mesh door



3. External Rack Cabinet Enclosure Dimensions?

Determining server rack location within a data-center, computer room, office or co-location facility is often overlooked until the rack enclosure arrives. It is crucial you determine if the finalized external dimensions of the server rack will fit through doorways, lifts, stair wells and other obstructions of the intended target location. Consider carefully environmental factors such as ceiling height and clearance regulations in your data center, computer room or office. All All-Rack floor racks are available in flatpack form where access is restricted for a prebuilt rack. We offer an onsite assembly service when required, the costs of this will vary depending on the geographical location of the site and the qty of racks that require onsite assembly.

Wall Cabinets

- 600mm wide
- Lockable and removeable side panels
- Lockable and removeable glass door
- Available in Black and Grey
- Available from 300mm deep – 600mm deep



4. Will my Rack Cabinet Enclosure fit in the room it's intended for?

Considerations such as server or comms rack weight and height are very important factors to take into account when moving floor racks from place to place. Some floor racks can weigh over 150 kg. and can stand very tall at over 7 feet. Server racks / Comms racks are large items which require considerable effort when moving, lifting upstairs, and fitting in any tight spaces. Please ensure that enough room has been made and accounted for before rack enclosures are purchases and finalized.

5. Will the Rack Cabinet Enclosure fit through all doors on the way into the destination room?

All-Rack floor racks are despatched fully assembled as standard. Should you require flatpack then please inform us at the beginning to avoid despatching a rack that will not physically fit through all access points in your building. Even pre-assembled All-Rack racks easily allow you to remove the front and rear doors (by means of 2 spring latches on each door) and side panels can also be removed easily, but that will not change external dimensions of the rack frame which cannot be taken apart. Please consider all product dimensions carefully to ensure server racks meet all access points in your building.

6. What is a Rack Unit? What does 40U mean? 44U? 48U? etc.

A "Rack Unit" or Rack "U" is an EIA standard allowance unit for measuring rack mount equipment. One "Rack Unit" is equal to 1.75" in height. To calculate internal useable space of a rack enclosure, simply multiply the total amount of Rack Units by 1.75". For example, a 44U rack enclosure would have 77" of internal usable space (44 x 1.75).

7. How do I calculate how many Rack Units I need?

Many data center managers calculate rack enclosure height needed by determining the optimal rack unit usage. For example, if users are aware that future plans call for the addition of 20 2U sized servers, they could count on needing a 44U rack enclosure. This will allow enough internal height for approximately 20 servers, room for a 1U patch panel and a 2U UPS back-up battery. Rear or side vertically mounted power management devices will also have sufficient room to perform their functions.

How do I fix my equipment into my rack?

Currently All-Rack provide "Universal mounting rails" on all floor and wall racks, however later in 2019 we will be introducing the option to request EIA Standard 10/32 Tapped Mounting Rails. See below



Universal mounting Rails



EIA Standard 10/32 Tapped Mounting Rails