

# Data Centre Solutions

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## Introduction:-

In modern business environment, importance of a reliable infrastructure for IT operation is evident to keep uninterrupted business continuity. A professional data centre set-up is the best solution for this challenge by providing a secure environment for data storage and assuring effective functioning of its hosted computer environment with minimum chance of security breach.

Through the continuous research and development, AVAYO develops state of the art solutions for professional data centre infrastructure such as

### Data centre Rack Solutions

- D-series racks

### Hot and Cold air containment systems

- Hot air Containment
- Cold air containment
- Split sliding door
- Hinge door

### Raised Floor Systems

- Cement Core System with antistatic finish
- Wood Core System with antistatic finish
- Calcium Sulphate System with antistatic finish

### Copper & Fiber cabling Solutions

- Cat 6 Solutions
- Cat 6A Solutions
- Fiber optic SINGLE MODE, OM2, OM3 & OM4 Solutions

### Cable Tray Systems

- Wire Basket
- Cable Tray
- Accessories



## D-Series Rack:-



Over Head Cable Basket



Baring Kit



Cable Tray and Basket for effective Cable Routing



Swing Handle  
Cam Lock



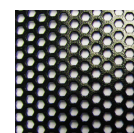
Double Perforated  
Rear Door



Vertical Cable  
Management System



Heavy Duty Casters  
and Leveling Feet



Honey Comb  
Door Perforation for  
70% heat Dissipation

## D-Series Rack:-

### Description:-

AVAYO D-series racks designed to accommodate multiple 19" equipment and servers. These are heavy duty racks with ample cable routing provisions and are designed for high density server rooms by providing 70% perforation for heat dissipation. D-series racks are available in 42U and 47U sizes with 1000 and 1200mm depth to suit the requirements of customers.

### Applications and Standards :-

- Housing Servers, UPS systems and Network equipment
- Comply with ANSI/EIA-RS-310-D, IEC 297-2, DIN 41491
- Sizes in 42U and 47U

### Physical Characters:-

Series	: Data centre racks
Type	: Free Standing
Protection Rating	: IP 20
Material	: SPCC quality cold rolled steel
Surface Finish	: Powder coating.
Color	: Black ( RAL 9005) or Grey ( RAL 7035)
Width	: 600mm & 800mm
Depth	: 1000 and 1200 mm
Height	: Varies as per the number of Us
Frame Type	: Welded rigid frame
Construction	: 2.0 to 2.5 mm gauge steel thickness
Profile	: 19" adjustable heavy duty profile in the front and rear.
Profile Standard	: 2.0 mm gauge heavy duty Universal/EIA type.
Loading Rate	: From 1200 Kg to 1400 Kg
Front Door	: 110 degree opening type metal Perforated single or double door with swing cam lock
Side Panels	: Opening type side panels.
Rear Door	: 110 degree opening type metal Perforated single or double door with swing cam lock
Cable Access	: Top and Bottom cable entry

**Accessories:-**

Cooling Fan	:	1 unit of 2 fans or 4 fans roof mount type, noiseless.
Cable Management	:	Vertical cable management in the front side.
Cable Basket	:	Horizontal and vertical cable basket for easy routing.
Baying Kit	:	Baying plate to joining adjacent racks
Shelves	:	Fixed shelf and Sliding shelf
Castors	:	Heavy duty castors with stopper system
Leveling Feet	:	4 pcs leveling feet in addition to castors
Plinth cover	:	Cover plate to prevent airflow
Blank Panel	:	1U or 2U sizes to cover the blank areas

**Ordering Information:-**

Part No.	Size	Dimension
AVD-F4261-20B	42U - F	600X1000X2000
AVD-F42612-20B	42U - F	600X1200X2000
AVD-F4281-20B	42U - F	800X1000X2000
AVD-F42812-20B	42U - F	800X1200X2000
AVD-F4761-22B	47U - F	600X1000X2200
AVD-F47612-22B	47U - F	600X1200X2200
AVD-F4781-22B	47U - F	800X1000X2200
AVD-F47812-22B	47U - F	800X1200X2200



## Data Centre Containment System

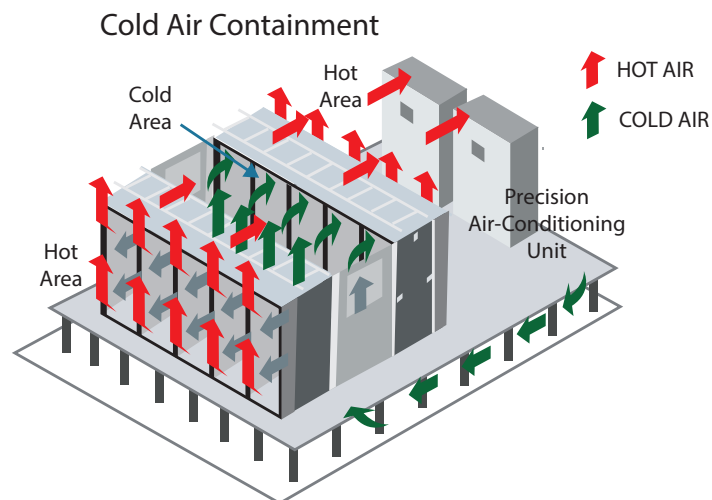
Data Centre containment system designed to separate cold air supply from the hot air flow to create a consistent temperature to the IT equipment which results in significance energy savings there by major cost reduction and better utilization of IT equipment's. This system can be either cold air or hot air containment system.

The data centre racks are designed as modular system helps to add or remove any unit for expansion or for maintenance. The containment solutions can be single row or double row structure and any height difference can be eliminated by using height adjustment panels in the containment system.



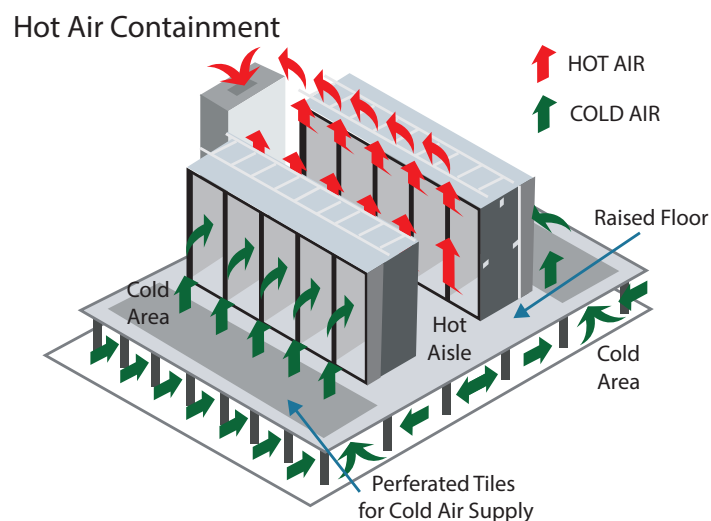
## Cold Air Containment System

In this system, containment is designed to separate cold airflow with the hot air emitted from IT equipment's by making the entire work area as a hot aisle. Here the row of racks are designed in such a way that the cold air flow limited inside the containment to provide optimum cooling for the IT equipments.



## Hot air Containment System

Here work area becomes a cold aisle and the hot exhaust air from IT equipment's separated from cold air stream in the hot air containment. The row of racks designed to limit hot air inside the containment.

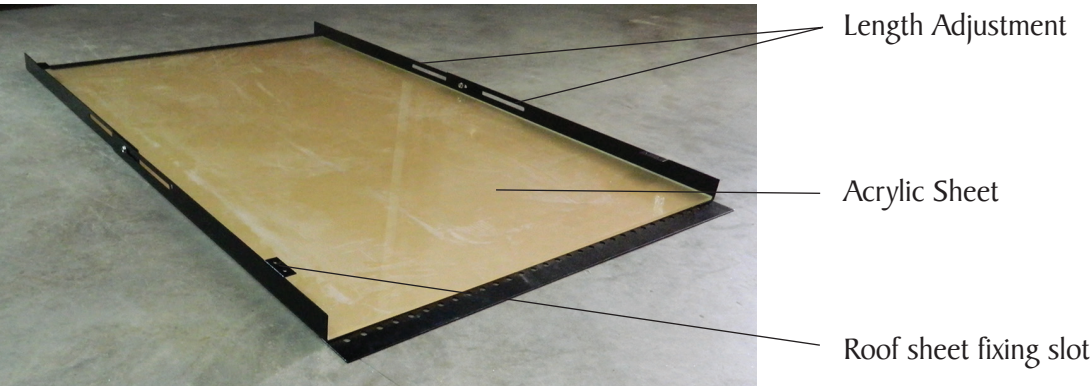




Roof Panel for containment

Modular roof panels with adjustment feature from 914mm to 1200mm (36 to 47.2 inches) length and 600mm or 800mm (23.62 or 31.5 inches) width made of steel structure and transparent acrylic sheet allows room light inside the containment area. Any height variation due to rack sizes can be adjusted by the use of height adjustment panels. Gaps between adjacent panels filled with self sealing rubber foam to prevent air leakage.

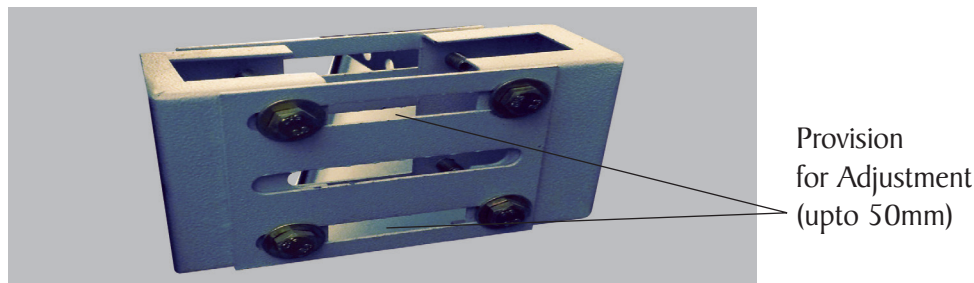
800 mm Panel



Roof view of a Containment System



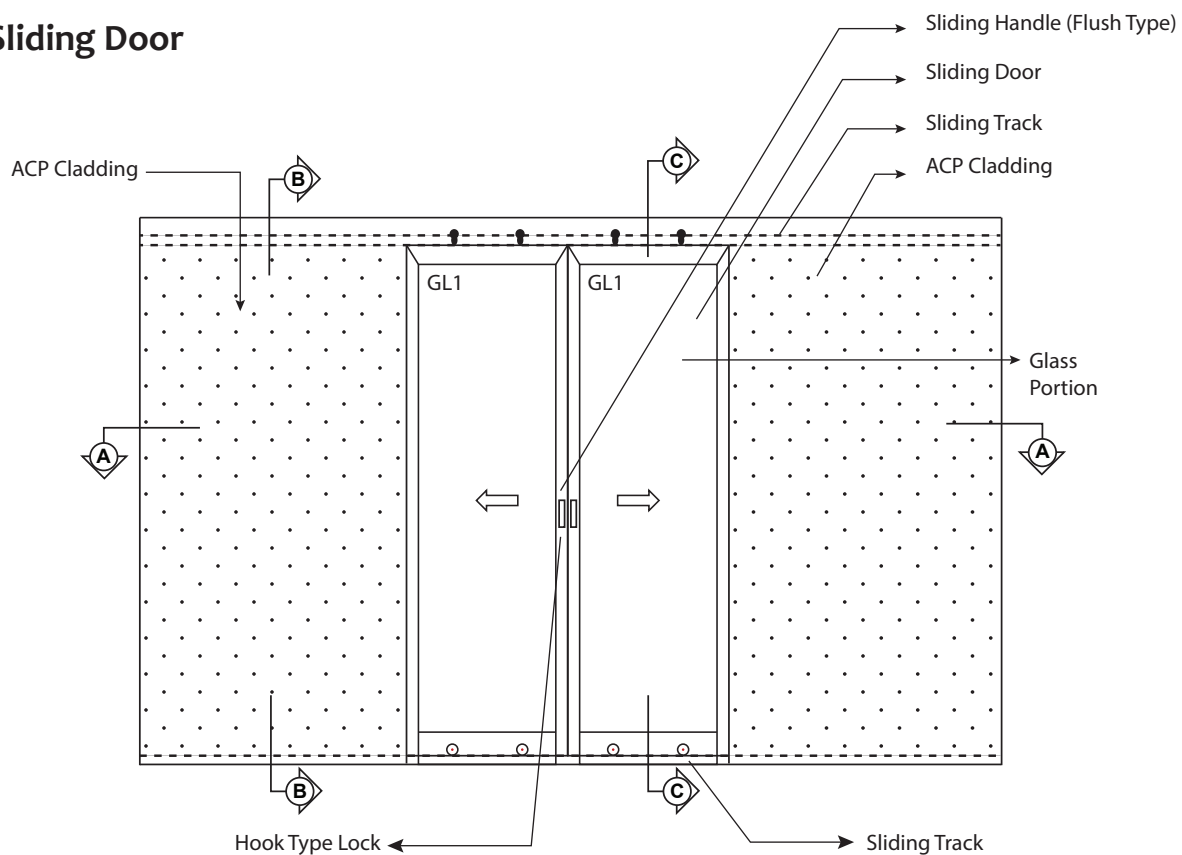
Height Adjustment Panel



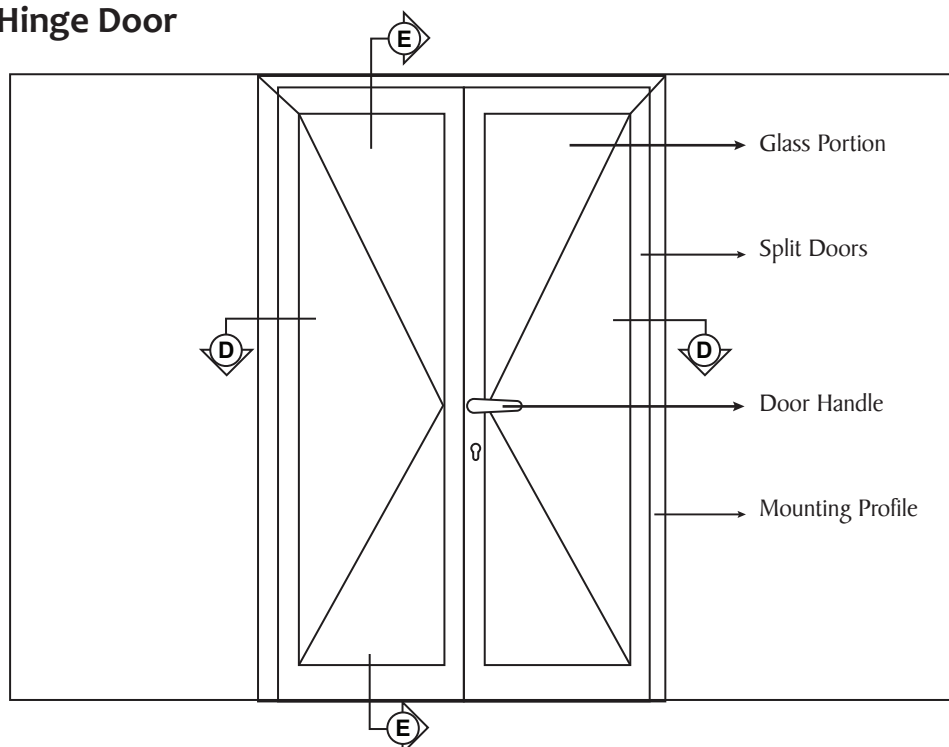
## Doors

AVAYO offers hinged and sliding glass door for the containment system. A hinged single or split door made of aluminum and glass structure gives an appropriate solution for containment closure. The doors are also available in sliding type, single or double, is a smart solution for datacenter space utilization.

### Sliding Door



Sliding door mounted on the top of the end cabinet opening two sides with key or biometric lock system. A small sliding track fixed on the bottom for easy movement of the doors.

**Hinge Door**

Hinge door mounted to the sides of the end cabinet, opening outwards with keylock system or biometric locking system. The bottom of the doors are fixed with brush panels to avoid air leakage.

**Ordering Information:-**

Part No.	Dimension	Type
AVD-RP612	600X1200	ROOF PANEL 600
AVD-RP812	800X1200	ROOF PANEL 800
AVD-GD-SS	2000X1200	SLIDING GLASS DOOR, SINGLE FRAME
AVD-GD-SD	2000X1200	SLIDING GLASS DOOR, DUAL FRAME
AVD-GD-HS	2000X1200	HINGED GLASS DOOR, SINGLE FRAME
AVD-GD-HD	2000X1200	HINGED GLASS DOOR, DUAL FRAME
AVD-PR612-HA(X)	600X1200	HEIGHT ADJUSTER 600
AVD-PR812-HA(X)	800X1200	HEIGHT ADJUSTER 800

(X) – Height in millimeter