

Smart Space Cab

Cabinet with Sliding and Removable Side Panels - when bayed in rows

A unique cabinet with sliding/removable side panels, when bayed within rows.

Panel Options are:

- Narrow Partition Panels usually in sliding pairs, to open or close side access
- Full Depth Sliding Panels for zero side access

The Fundamentals In some older, outdated rack designs, totally removable side panels in high density applications, badly reduce the efficiency of cold air flow within the rack and allow hot air to be scavenged from the rear to the front of the 'IT' equipment, destroying the cooling effect.

When side panels are totally removed, cold air can escape wastefully and hot air finds an easy path around the sides of the 'IT' equipment and mixes with air entering the front of the servers, raising equipment temperatures and increasing the energy consumption of the cooling plant. Obviously bad practice, this problem can totally negate the benefits of Aisle Cocooning and is exacerbated in high power density installations.

The Solution The Smart Space Cab offers two versions of sliding removable Partition Panels for racks bayed in rows.

Narrow Partition Panels Used in pairs these narrow partition panels can slide fore and aft to either:

- Open cross cabling apertures between adjacent racks
- Or completely close off inter-rack side access

Importantly, cooling air flow is managed to maximum efficiency in both positions.

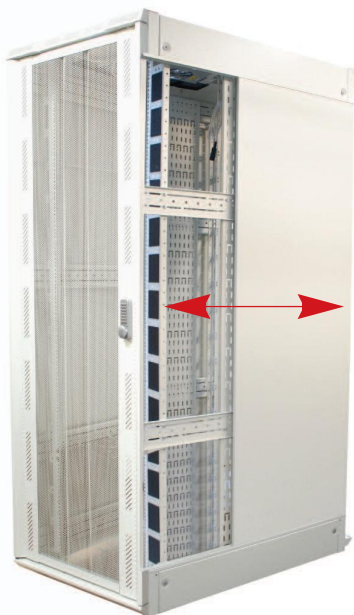
Full Depth Panels Used singly (or in pairs) to achieve a permanent sideways barrier between adjacent racks. Also used as end-of-row side panels. Full depth panels also preserve Cooling Air Flow efficiently.

Features and Benefits of Narrow Partition Panels

- A full specification Server Smart Cab, enhanced with sliding/removable side panels (Narrow Partition Type).
- Side panels slide open to allow cross-cabling apertures between single client racks, in a row, when required.
- Alternatively, the sliding side panels can easily be adjusted to close off all side access between racks for total security.
- The side panels can be totally removed or added to bayed racks at any time during the life of the installation.
- Uniquely, when fitted, the side panels, in any position, maintain close proximity to the front equipment mounting posts to minimise hot air scavenging to the front cold area.
- Maximum cooling efficiency is always maintained within the rack, in any fitted side panel configuration. No cold air is wasted.
- High density installations benefit substantially from this advantage.
- AIR-LOKK moulded seals can further improve the avoidance of hot air scavenging to the front area of the equipment.
- AIR-LOKK mouldings are easily configured to cater for 'IT' equipment requiring cross air floor cooling (mixed airflow patterns).
- Side panels need not be removed, so separate storage of side panels is a challenge which disappears.
- Side panels can be totally removed, or not fitted, as desired.

The only rack that resolves the competing challenges of:

- Inter rack security,
- Cross cabling between racks
- Cold Air/Hot Air separation within the rack for improved cooling.

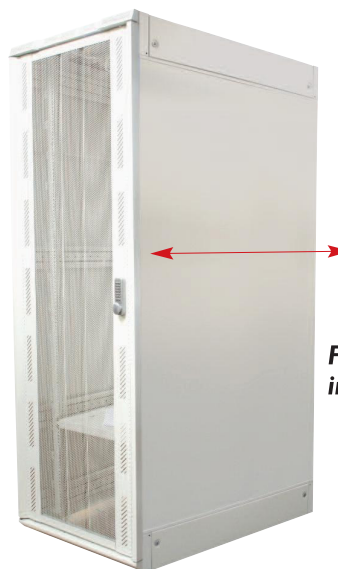


Narrow Partition Sliding Panel

Narrow Partition Panels

One in each adjacent rack, work as opposing pairs to open or close side access between racks. Always preserving Cold Air/Hot Air segregation in any position.

An elegant solution for co-location or single user Data Centres



Full Depth Slide in/out Panel

Size conversions: 1U = 44.45mm = 1 3/4" 600mm = 24" 700mm = 28" 800mm = 32" 1 kg = 2.2lbs

Smart Space Cab

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Specification

- Six heights: 25U, 33U, 42U, 45U, 47U, 52U
- Two widths: 600mm or 800mm
- Three depths: 900mm, 1000mm, 1200mm
- Four infinitely adjustable 19-inch mounting posts allowing universal server mounting - double fixings throughout and double height mounting post options provide a robust structure (Split height mounting post options for variable server depths for the rare instances where server mounting slides have no or insufficient depth adjustment - see page 5.12)
- Two full depth slide panels
- MaxiVent Plus curved perforated doors front and rear, supplied with swing-handle key locks. Single key operates side panel and door locks. - for more details see pages 3.4 - 3.6 (non-locking versions available)
- All doors open 180° when bayed and 270° at end of bay or when stand-alone
- Quick-Release hinges on all doors
- Multiple moulded finger cable entry glands in roof
- Maximum cable access through base
- Four transit castors fitted
- Quick-Change fan tray compatible

Plus

- Narrow Partition Panels panels or full depth side panel options.
- Narrow Partition Panels allow up to 100mm opening for cross cabling between racks. (Sliding side panels are of less depth than the rack, to achieve this through cabling aperture).
- Narrow Partition Panels in adjacent butting racks enable total closure of side access between racks for maximum security, by sliding butting panels fore and aft respectively.
- Whether open or closed, the sliding panels always maintain close proximity to the mounting post to minimise hot air scavenging, ensuring optimum cooling of equipment.
- The end of row side panel is full depth, as standard, to preserve security and air flow.
- Narrow Partition Panels can be retained in the rack frame and do not require removal or storage, therefore simplifying the management task, but side panels can be totally removed if required.
- An internal locking option is available, to secure sliding panels in the closed position.
- Optional AIR-LOKK mouldings are available to block the flow of cold air past the sides of equipment, but allow cabling through.
- AIR-LOKK mouldings are instantly configurable to cater for cross flow air cooling of certain 'IT' equipment within a through air flow conventional rack.

Finish

Standard: Powder painted Velvet Black to RAL 9005 or Chameleon (Grey White) to RAL 9002.

Other colours available on request.



Order Codes

Smart Space – 600mm x 1000mm	
Description	Order Code
42U 600mm x 1000mm Smart Space Cab	SLDP426099
45U 600mm x 1000mm Smart Space Cab	SLDP456099
47U 600mm x 1000mm Smart Space Cab	SLDP476099
Smart Space – 600mm x 1200mm	
Description	Order Code
42U 600mm x 1200mm Smart Space Cab	SLDP426012
45U 600mm x 1200mm Smart Space Cab	SLDP456012
47U 600mm x 1200mm Smart Space Cab	SLDP476012
Smart Space – 800mm x 1000mm	
Description	Order Code
42U 800mm x 1000mm Smart Space Cab	SLDP428099
45U 800mm x 1000mm Smart Space Cab	SLDP458099
47U 800mm x 1000mm Smart Space Cab	SLDP478099
Smart Space – 800mm x 1200mm	
Description	Order Code
42U 800mm x 1200mm Smart Space Cab	SLDP428012
45U 800mm x 1200mm Smart Space Cab	SLDP458012
47U 800mm x 1200mm Smart Space Cab	SLDP478012

For versions without Side Panels please add suffix - NP after the Smart Space Cabinet order code e.g. 42U 600 x 1000 would be SLDP426099-NP

Please Note

Each 1000mm deep **Smart Space Cab** is supplied with two full depth 1000mm deep sliding side panels as standard, but can be omitted

Each 1200mm deep **Smart Space Cab** is supplied with four 600mm deep sliding side panels as standard. For nil side access.

Optional Narrow Partition Panels

The following Slide Panels are available to be fitted instead of the full depth Slide Panels that are supplied on a Smart Space Cab as standard. These allow cross cabling when cabinets are bayed together and Slide Panels can be slid in and out of bayed racks.

Order Codes

Sliding Side Panel – 600mm deep	
Description	Order Code
42U x 600mm deep Sliding Side Panel	218C00156042
45U x 600mm deep Sliding Side Panel	218C00156045
47U x 600mm deep Sliding Side Panel	218C00156047
Sliding Side Panel – 850mm deep	
Description	Order Code
42U x 850mm deep Sliding Side Panel	218C00158542
45U x 850mm deep Sliding Side Panel	218C00158545
47U x 850mm deep Sliding Side Panel	218C00158547
Sliding Side Panel – 1000mm deep	
Description	Order Code
42U x 1000mm deep Sliding Side Panel	218C00159942
45U x 1000mm deep Sliding Side Panel	218C00159945
47U x 1000mm deep Sliding Side Panel	218C00159947

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