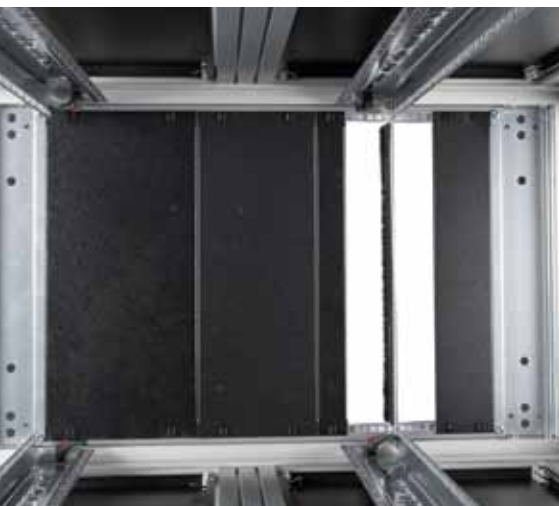




Delta³ Data Centre Rack Solution

 **COOPER B-Line**



Contents

Building on more than 50 years of British design and innovation, Cooper B-Line introduces Delta³ (“**Delta cubed**”).

Designed to offer M.O.R.E. to customers than traditional data centre solutions Delta³ has been developed to be the core of your data centre solution. The humble 19” IT rack is often the forgotten element at the heart of your data centre but in many respects it is actually the most critical.

Delta³, invented, designed and built in the UK, builds on our customers’ experience from around the world and delivers what some data centre leaders have called “**the best data centre rack they have ever seen**”.



Awarded to:
Cooper Industries (UK)



Other Delta³ Solutions Catalogues

Delta³ High Density Cooling Solutions

Delta³ Aisle Containment Solutions

Delta³ Access Control Solutions

Delta³ Power Management Solutions

Delta³ Project Solutions

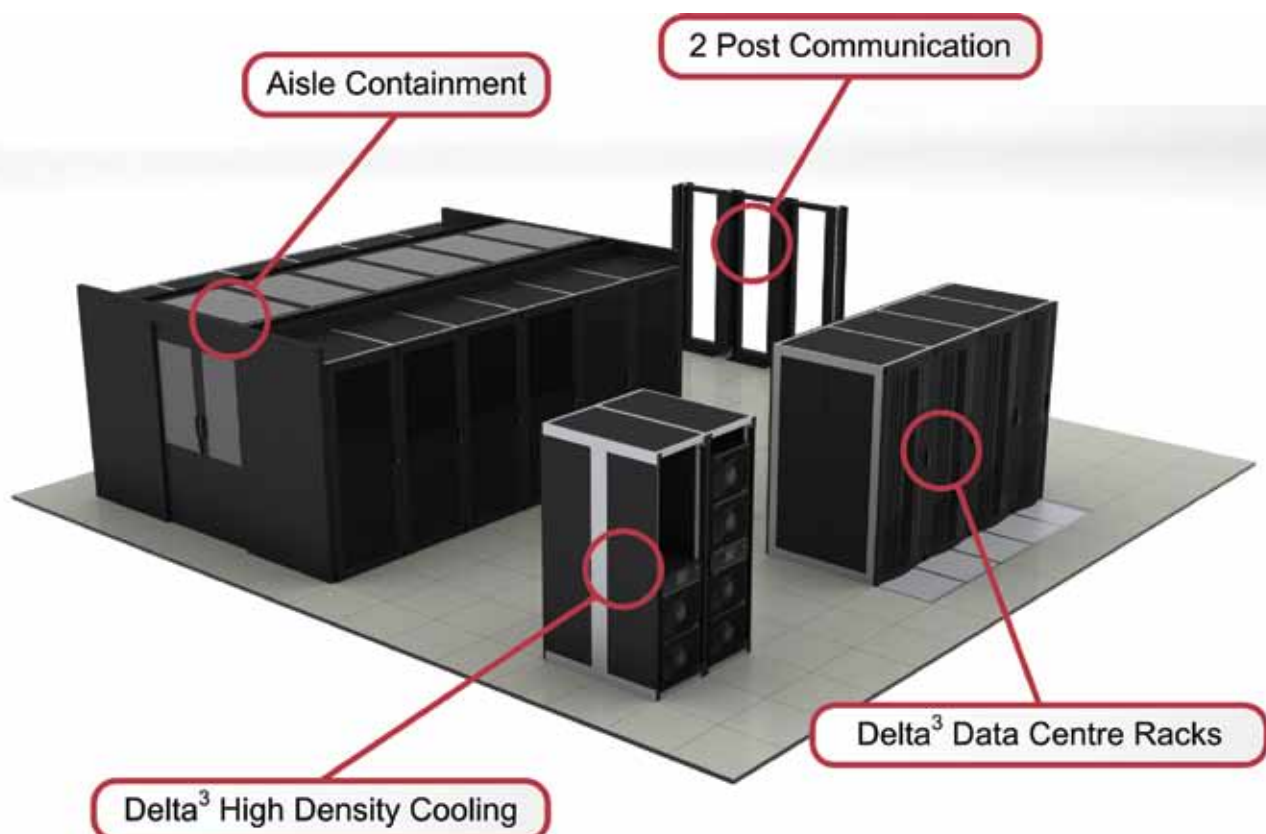
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DELTA³

MAXIMISE - OPTIMISE - REDUCE - ENABLE

With a design brief to literally “change the box” our world class engineering teams have developed a data centre enclosure solution unmatched in the marketplace. Delta3 has been designed to be the core of your physical IT infrastructure and support the ever changing demands within data centre environments.

Precision engineered features (global patents pending) have been designed into Delta3 to offer time and cost savings from day one installation, through remediation cycles, to the inevitable end-of-life of the data centre.





Design Benefits

- 1. Minimum 1200kg Load Capacity**
- 2. Multi position support frame**
 - **Centre Frame**
 - **Off Sets**
 - **4 Post**
- 3. Extruded ALU Construction**
- 4. M6 & T Slots on open faces of ALU frame**
- 5. HD Server & Storage friendly**
- 6. Infinitely adjustable, tool less mounting rails quick release doors and side panels.**



Design Benefits

1. Capable of handling ever increasing equipment densities.
2. Delivers the solution for your needs
 - Optimised Data Centre Solution that allows clear open space to install equipment & large cable looms. Significantly reduces deployment and remediation costs.
 - Offers design flexibility to achieve current best practise as well as catering for the continued evolution of IT equipment such as high density servers and switches.
 - Traditional Rack set up for basic installations
3. Provides a strong foundation to enable the cabinet to survive the rigours of equipment changes and remediation during the life of the data centre. Greater Recycling options.
4. Save time and money fitting accessories without the need to drill holes or purchase extra fixtures. Perfect for remediation and installation.
5. The heavy duty, multi position frame offers ultimate flexibility for any high density IT equipment.
6. Saves Considerable time every time you install or reconfigure equipment in your racks.

Air Management Solutions



Delta³ Horizontal Air Baffles

Minimises the mixing of hot and cold air between different zones in the rack. Increasing the efficiency of cooling systems in the data centre. Standard on Active and Switch racks.

Application Specific Top Panels

The standard product range comes pre-configured with interchangeable panels designed to meet the requirements of various applications. See standard product pages for details.



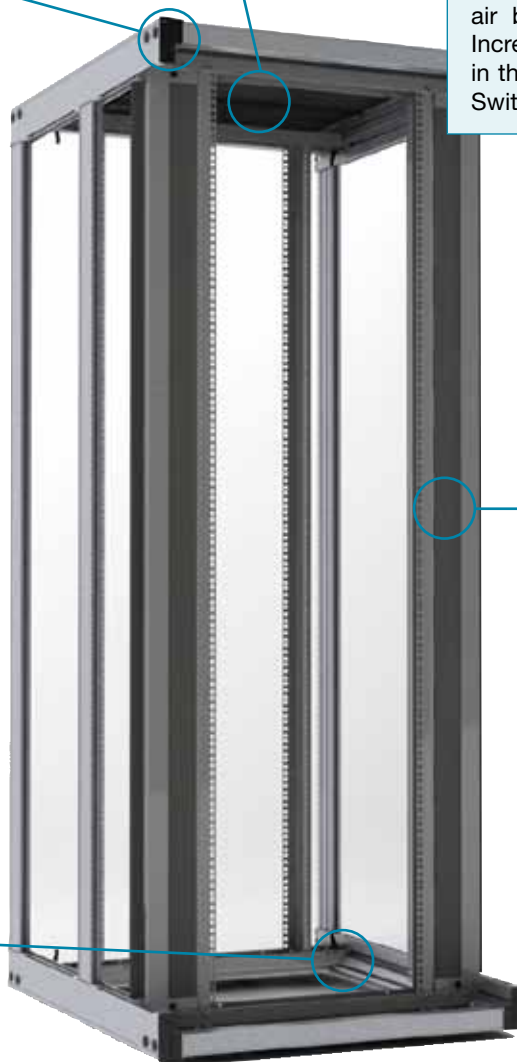
Delta³ Vertical Air Baffles

Minimises the mixing of hot and cold air between different zones in the rack. Increasing the efficiency of cooling systems in the data centre. Standard on Active and Switch racks.



Horizontal 19" Base Blanking

Delta³ extends the 19" mounting posts into the base of the rack to provide almost unlimited options for air blanking and cable management.



Simple Installation & Usability

180°/255° Opening of Doors

Delta³ doors can be opened a full 180° when bayed and 255° at the end of an aisle. This ensure the doors are not an obstruction when working in a rack and do not block aisles.

Easily Reversible Doors

The Delta³ side panels are lightweight and simple to install/remove. Locking pins enable the side panels to be fully or partially opened/removed even when racks are bayed together.

High Flow (80%) Vented Doors

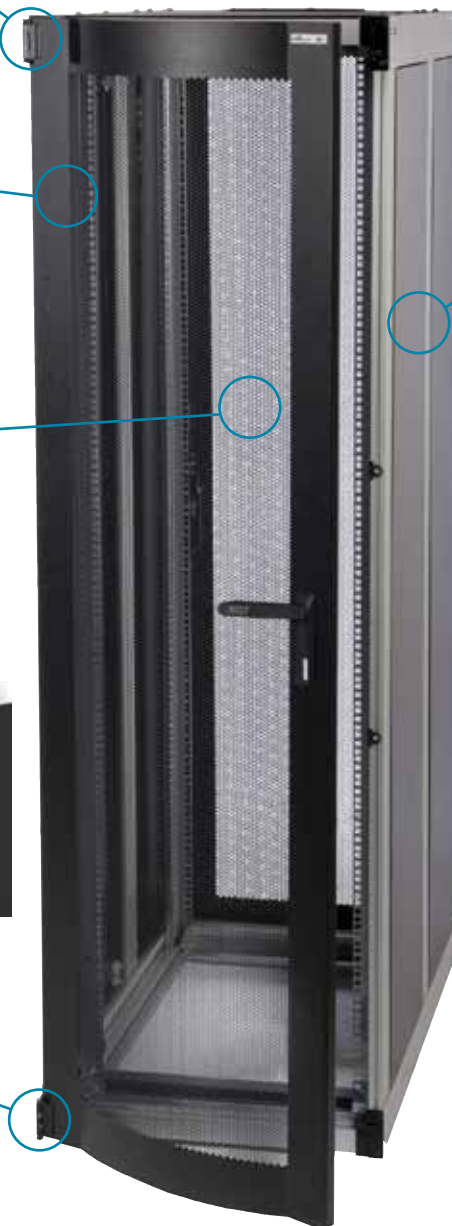
To ensure modern IT equipment receives sufficient air flow, Delta³ doors have a high flow hexagonal pattern vents to comply with best industry practice.

Split & Hinged Side Panels

The Delta³ side panels are lightweight and simple to install/remove. Locking pins enable the side panels to be fully or partially opened/removed even when racks are bayed together.

Quick Release Door Hinges

A unique pin release system on the external hinges enables quick and easy fitting, holding the door captive until opened to 25°.



Tool Less Configuration & Set Up



Top & Bottom Rack Baying

Delta³ racks can be connected (bayed) together using a simple bolt. There are 4 baying positions to enable maximum rigidity.

Infinitely Adjustable, Tool Less 19" Rail Adjustment

An integral ratchet lever allows tool-less adjustment of the 19" mounting rails without the need of any additional tools.



M6 Thread & T-Slot Fixing Positions

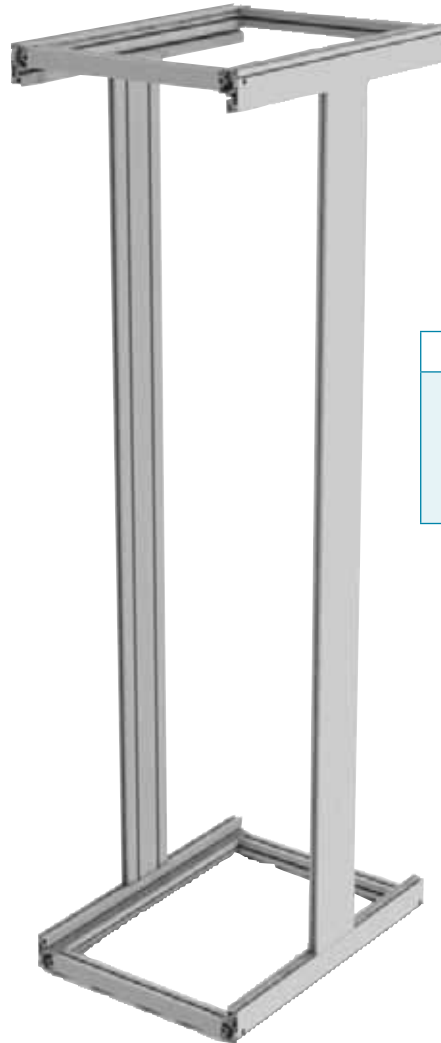
Delta³ racks have M6 threaded channels and T-Slots on all open faces to offer almost unlimited fixing positions for accessories.

19" Rail Position Indicators & Measurement Strips

Measurement indicator strips, mounted on the front to rear extrusions, allow quick and accurate positioning of the 19" mounting rails.



Variable Position Frame Configuration



Centre Post

Optimised data centre solution that provides unrestricted space to install equipment, large cable looms and significantly reduces deployment and remediation costs.



Offset Post

Offers design flexibility to achieve current best practise as well as catering for the continued evolution of IT equipment such as high density servers and switches.



4 Post

Traditional set up for basic installations.

Standard Features

- Four post frame configuration
- 2 x pairs of tool-less 19" mounting rails fitted centrally set 128mm in from front and rear
- U labels fitted to front 19" mounting posts (numbered bottom to top)
- High flow curved front door (LH hinged) with standard locking swing handle
- Flat vented rear door (LH hinged) with standard locking swing handle
- Side panels both sides
- Top cover rear cable entry (grommets) + Infill's
- Earth bonding kit
- Assembled & Palletised
- Nylon skids



Height (U)	Weight (mm)	Depth (mm)		
		875	1000	1200
39	600	DN39608FSB	DN39610FSB	DN39612FSB
39	800	DN39808FSB	DN39810FSB	DN39812FSB
42	600	DN42608FSB	DN42610FSB	DN42612FSB
42	800	DN42808FSB	DN42810FSB	DN42812FSB
47	600	DN47608FSB	DN47610FSB	DN47612FSB
47	800	DN47808FSB	DN47810FSB	DN47812FSB

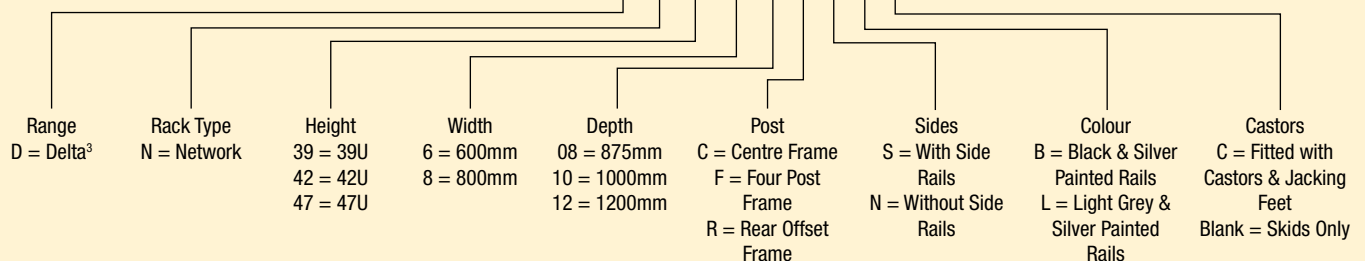
Notes:

Racks are available with or without side panels. To order the rack without side panels, change the final 'S' to 'N' in the part number.

Racks are available in Black with Silver Rails or Light Grey with Silver Rails. To order the rack in Light Grey with Silver side rails change the final 'B' to 'L' in the part number.

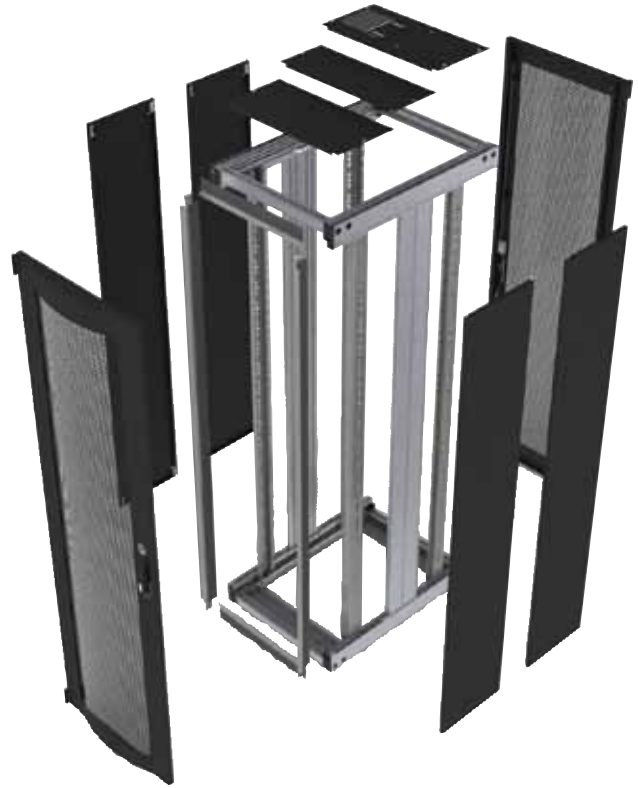
Enhanced Network Rack Part Numbering

Example: **D N 42 8 08 F S B C**



Standard Features

- Centre frame configuration
- 2 x pairs of tool-less 19" mounting rails fitted centrally set 128mm in from front and rear
- U labels fitted to front 19" mounting posts (numbered bottom to top)
- High flow curved front door (LH hinged) with standard locking swing handle
- Flat vented rear door (LH hinged) with standard locking swing handle
- Side panels both sides
- Top cover rear enhanced brush strip and Infill
- Top & bottom baffles
- Vertical front baffles
- Universal PDU mounting bracket
- Earth bonding kit
- Assembled & palletised
- Nylon skids



Height (U)	Weight (mm)	Depth (mm)		
		875	1000	1200
39	600	DA39608CSB	DA39610CSB	DA39612CSB
42	600	DA42608CSB	DA42610CSB	DA42612CSB
47	600	DA47608CSB	DA47610CSB	DA47612CSB

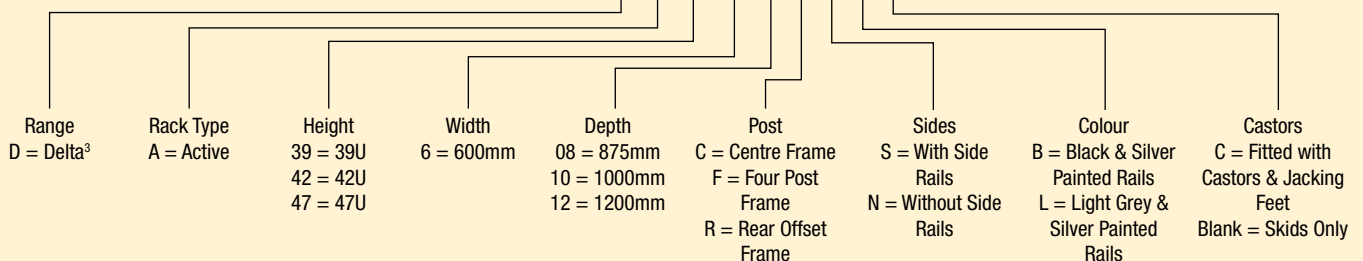
Notes:

Racks are available with or without side panels. To order the rack without side panels, change the final 'S' to 'N' in the part number.

Racks are available in Black with Silver Rails or Light Grey with Silver Rails. To order the rack in Light Grey with Silver side rails change the final 'B' to 'L' in the part number.

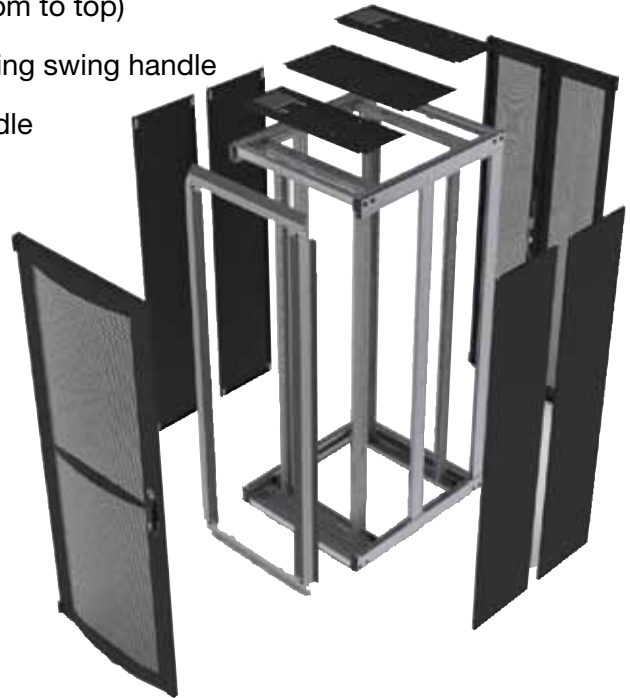
Enhanced Network Rack Park Numbering

Example: **D A 42 6 08 C S B C**



Standard Features

- Rear offset frame configuration
- 2 x pairs of tool-less 19" mounting rails fitted centrally set 128mm in from front and rear
- U labels fitted to front 19" mounting posts (numbered bottom to top)
- High flow curved front door (LH hinged) with standard locking swing handle
- Double vented rear doors with standard locking swing handle
- Side panels both sides
- Top cover rear enhanced brush strip and infills
- Brush strip top of 19" field
- Top & bottom baffles
- Vertical front baffles
- Universal PDU mounting bracket
- Earth bonding kit
- Assembled & palletised
- Nylon skids



Height (U)	Weight (mm)	Depth (mm)		
		875	1000	1200
39	800	DS39808RSB	DS39810RSB	DS39812RSB
42	600	DS42808RSB	DS42810RSB	DS42812RSB
47	600	DS47808RSB	DS47810RSB	DS47812RSB

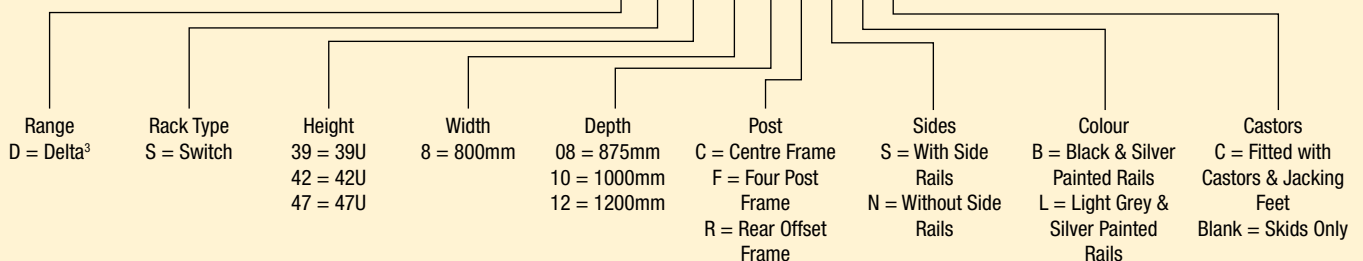
Notes:

Racks are available with or without side panels. To order the rack without side panels, change the final 'S' to 'N' in the part number.

Racks are available in Black with Silver Rails or Light Grey with Silver Rails. To order the rack in Light Grey with Silver side rails change the final 'B' to 'L' in the part number.

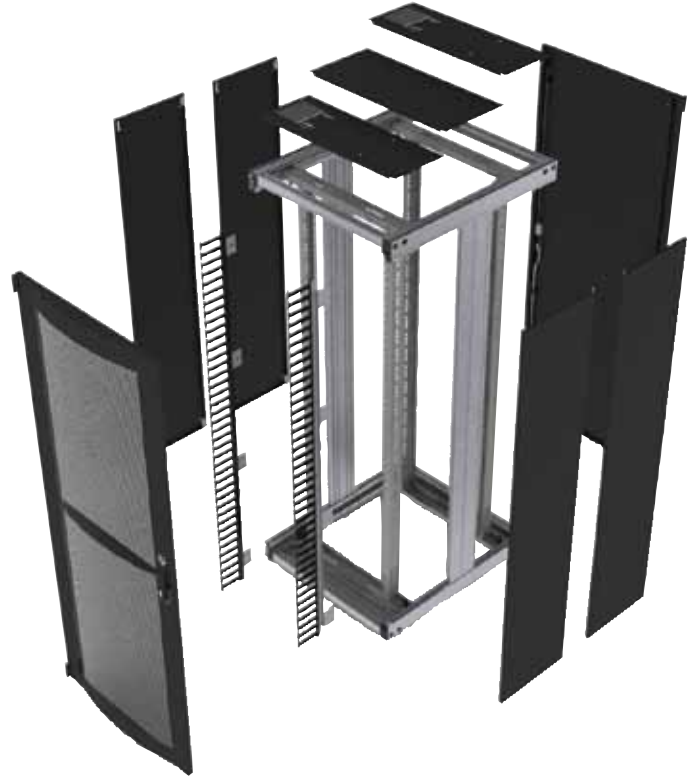
Enhanced Network Rack Part Numbering

Example: **D S 42 8 08 R S B C**



Standard Features

- Centre frame configuration
- 2 x pairs of tool-less 19" mounting rails fitted centrally set 128mm in from front and rear
- U labels fitted to front 19" mounting posts (numbered bottom to top)
- High flow curved front door (LH hinged) with standard locking swing handle
- Plain steel rear door (LH hinged) with standard locking swing handle
- Side panels both sides
- Top cover rear cable entry (enhanced brush strip)
- Top cover middle cable entry (enhanced brush strip)
- Top cover front cable entry (enhanced brush strip)
- Earth bonding kit
- Vertical cable manager with fingers (L&R) (RCM)
- Assembled & palletised
- Nylon skids



Height (U)	Weight (mm)	Depth (mm)	
		1000	1200
39	800	DC39810CSB	DC39812CSB
42	800	DC42810CSB	DC42812CSB
47	800	DC47810CSB	DC47812CSB

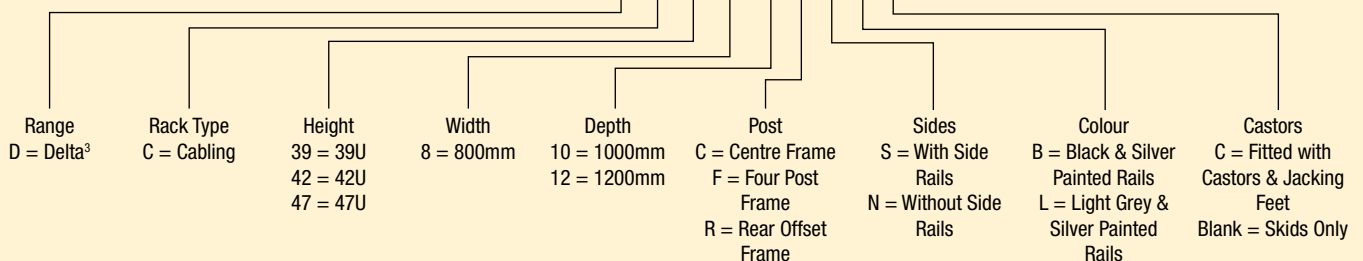
Notes:

Racks are available with or without side panels. To order the rack without side panels, change the final 'S' to 'N' in the part number.

Racks are available in Black with Silver Rails or Light Grey with Silver Rails. To order the rack in Light Grey with Silver side rails change the final 'B' to 'L' in the part number.

Enhanced Network Rack Park Numbering

Example: **D C 42 8 10 C S B C**



Introduction

The Delta³ Enhanced Co-Locate cabinet range provides the perfect space saving solution, allowing either two or three conventional rack spaces to be housed within a single cabinet foot print.

With individually keyed bays, the Delta3 Co-Locate cabinet offers the additional benefit of allowing tiered access control.

Standard Features

Each unit is configured as follows;

- Basic Delta3 frame fitted with Nylon skids
- Divider bar assembly (single divider bar on 2-bay variants and twin divider bars on 3-bay variants)
- Vented divider panel fitted to the divider bar assemblies
- Supplied with 2 x pairs of independent fully adjustable, 19-inch mounting angles in each bay
- Fitted with 80% vented steel doors front and rear with each pair of doors being individually keyed
- Top panel configured as follows:
 - Fully vented panel fitted at the rear
 - Remaining top panel aperture filled with plain panels



For more information and to discuss your co-location requirements please contact the Cooper B-Line sales team.

Introduction

Each assembly comprises of two 800mm wide specially configured Delta³ cabinets bayed together. The unique corner-less frame construction allows 3 sets of 19-inch mounting rails to be fitted within the footprint of two conventional 800mm wide cabinets.

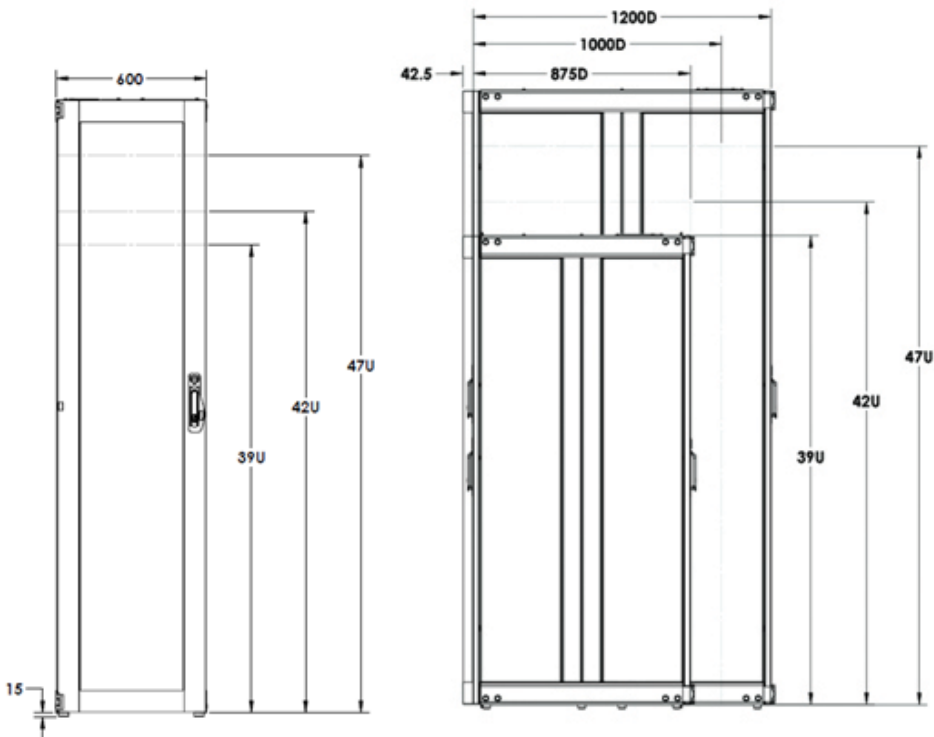
This arrangement allows the same amount of equipment to be installed using 10% less floor space.

Standard Features

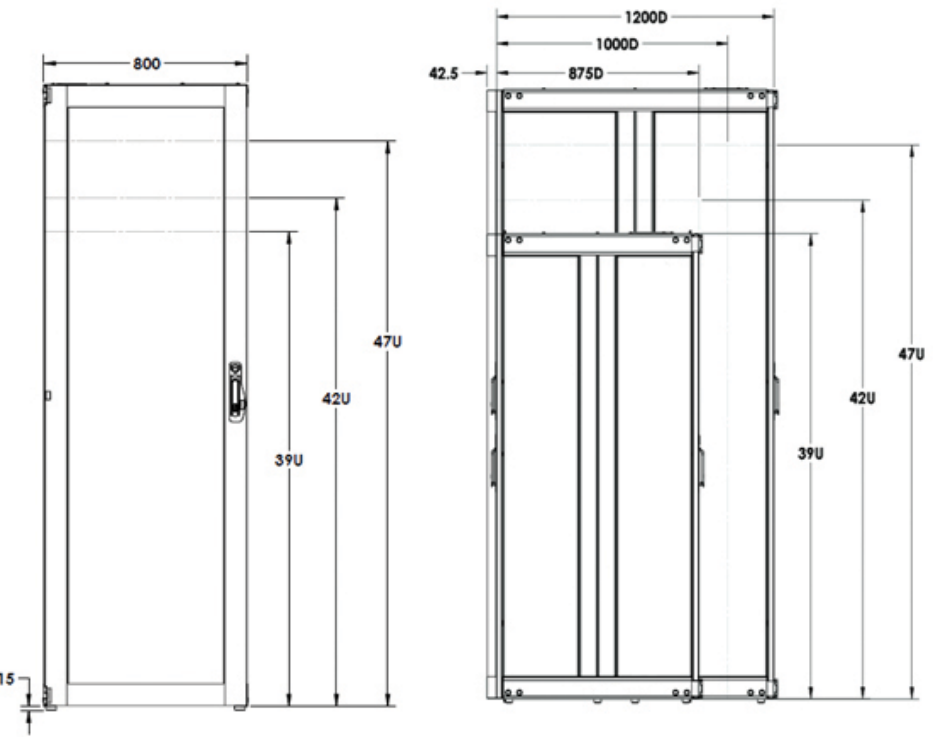
- Centre frame configuration
- 3 x pairs of specially adapted tool-less 19" mounting rails fitted centrally set 128mm in from front and rear
- U labels fitted to front 19" mounting posts (numbered bottom to top)
- Curved vented front door (LH hinged) with standard locking swing handle
- Curved vented rear door (LH hinged) with standard locking swing handle
- Side panels both sides
- Top cover rear cable entry (brush strip)
- Top cover middle cable entry (brush strip)
- Top cover front cable entry (brush strip)
- Earth bonding kit
- Cable management



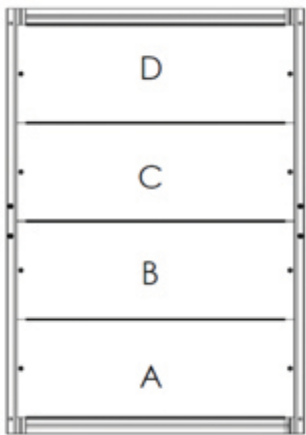
600mm Wide Racks



800mm Wide Racks



Top Panel Assembly



	A	B	C	D
875D	○	○	□	-
1000D	○	○	△	-
1200D	○	○	○	○

- - STANDARD TOP PANEL (263mm)
- - INFILL TOP PANEL FOR 875D (200mm)
- △ - INFILL TOP PANEL FOR 1000D (323mm)

Delta³ General Accessories

Part Number	Description
D3JACK	Jacking Foot Kit (overall height of rack increases between 32mm - 67mm)
D3CAST	Castor & Jacking Foot Kit (overall height of rack increases between 85mm - 102mm)
D3BTK	Baying / Bolt Together Kit
D3EARTH	Earth Kit
D3RCM39U	19-Inch Rail RCM Finger Management Enhancement Kit 39U (Pair)
D3RCM42U	19-Inch Rail RCM Finger Management Enhancement Kit 42U (Pair)
D3RCM47U	19-Inch Rail RCM Finger Management Enhancement Kit 47U (Pair)

Delta³ Air Management Accessories

Part Number	Description
D3HBK600	Top & Bottom Air Baffle Kit - 600mm Wide Rack (Pair)
D3VBK39600	Vertical Air Baffle Kit - 39U x 600mm Wide Rack (Pair)
D3VBK42600	Vertical Air Baffle Kit - 42U x 600mm Wide Rack (Pair)
D3VBK47600	Vertical Air Baffle Kit - 47U x 600mm Wide Rack (Pair)
D3BB0608	Base Blanking Kit for 600mm Wide x 875mm Deep Rack
D3BB0610	Base Blanking Kit for 600mm Wide x 1000mm Deep Rack
D3BB0612	Base Blanking Kit for 600mm Wide x 1200mm Deep Rack
D3HBK800	Top & Bottom Air Baffle Kit - 800mm Wide Rack (Pair)
D3VBK39800	Vertical Air Baffle Kit - 39U x 800mm Wide Rack (Pair)
D3VBK42800	Vertical Air Baffle Kit - 42U x 800mm Wide Rack (Pair)
D3VBK47800	Vertical Air Baffle Kit - 47U x 800mm Wide Rack (Pair)
D3BB0808	Base Blanking Kit for 800mm Wide x 875mm Deep Rack
D3BB0810	Base Blanking Kit for 800mm Wide x 1000mm Deep Rack
D3BB0812	Base Blanking Kit for 800mm Wide x 1200mm Deep Rack

Delta³ Top Panel Upgrade Options

Part Number	Part Number	Description
Black Finish	Light Grey Finish	
D3TPP6B	D3TPP6L	Top Panel Plain - 600mm Wide Rack
D3TPP8B	D3TPP8L	Top Panel Plain - 800mm Wide Rack
D3TPV6B	D3TPV6L	Top Panel Vented - 600mm Wide Rack
D3TPV8B	D3TPV8L	Top Panel Vented - 800mm Wide Rack
D3TPG6B	D3TPG6L	Top Panel With Cable Grommets - 600mm Wide Rack
D3TPG8B	D3TPG8L	Top Panel With Cable Grommets - 800mm Wide Rack
D3TPEBS6B	D3TPEBS6L	Top Panel Enhanced Brush Strip - 600mm Wide Rack
D3TPEBS8B	D3TPEBS8L	Top Panel Enhanced Brush Strip - 800mm Wide Rack
D3TPEBSKITB	D3TPEBSKITL	Top Panel Enhanced Brush Strip Kit (Universal Width)

Accessories & Upgrade Options

Delta³ Side Panel Kit

Part Number Black Finish	Part Number Light Grey Finish	Description
D3SP3908B	D3SP3908L	39U Side Panel Kit for 875mm Deep Rack
D3SP3910B	D3SP3910L	39U Side Panel Kit for 1000mm Deep Rack
D3SP3912B	D3SP3912L	39U Side Panel Kit for 1200mm Deep Rack
D3SP4208B	D3SP4208L	42U Side Panel Kit for 875mm Deep Rack
D3SP4210B	D3SP4210L	42U Side Panel Kit for 1000mm Deep Rack
D3SP4212B	D3SP4212L	42U Side Panel Kit for 1200mm Deep Rack
D3SP4708B	D3SP4708L	47U Side Panel Kit for 875mm Deep Rack
D3SP4710B	D3SP4710L	47U Side Panel Kit for 1000mm Deep Rack
D3SP4712B	D3SP4712L	47U Side Panel Kit for 1200mm Deep Rack

(Kit is comprised of one pair of half depth side panels for one rack side)

Delta³ Door Upgrade Kits

Part Number Black Finish	Part Number Light Grey Finish	Description
D3D396PSB	D3D396PSL	39U x 600mm Wide Plain Steel Door
D3D396PVB	D3D396PVL	39U x 600mm Wide Standard Vented Door
D3D396HFB	D3D396HFL	39U x 600mm Wide Vented Server Door
D3D398PSB	D3D398PSL	39U x 800mm Wide Plain Steel Door
D3D398PVB	D3D398PVL	39U x 800mm Wide Standard Vented Door
D3D398DVDB	D3D398DVDL	39U x 800mm Wide Standard Vented Double Door
D3D398HFB	D3D398HFL	39U x 800mm Wide Vented Server Door
D3D426PSB	D3D426PSL	42U x 600mm Wide Plain Steel Door
D3D426PVB	D3D426PVL	42U x 600mm Wide Standard Vented Door
D3D426HFB	D3D426HFL	42U x 600mm Wide Vented Server Door
D3D428PSB	D3D428PSL	42U x 800mm Wide Plain Steel Door
D3D428PVB	D3D428PVL	42U x 800mm Wide Standard Vented Door
D3D428DVDB	D3D428DVDL	42U x 800mm Wide Standard Vented Double Door
D3D428HFB	D3D428HFL	42U x 800mm Wide Vented Server Door
D3D476PSB	D3D476PSL	47U x 600mm Wide Plain Steel Door
D3D476PVB	D3D476PVL	47U x 600mm Wide Standard Vented Door
D3D476HFB	D3D476HFL	47U x 600mm Wide Vented Server Door
D3D478PSB	D3D478PSL	47U x 800mm Wide Plain Steel Door
D3D478PVB	D3D478PVL	47U x 800mm Wide Standard Vented Door
D3D478DVDB	D3D478DVDL	47U x 800mm Wide Standard Vented Double Door
D3D478HFB	D3D478HFL	47U x 800mm Wide Vented Server Door

(Universal kit compatible with 2 & 3-point hinging & multi point locking options)



Standard Vented Door



Vented Server Door

**For further details please call our customer services team
+44 (0)1278 772600**

Tailored Solutions for Your Data Centre

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Project Management

Prince 2 & TPM Qualified Personnel

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Logistical Services

Delivery / Positioning / Installation / Disposal

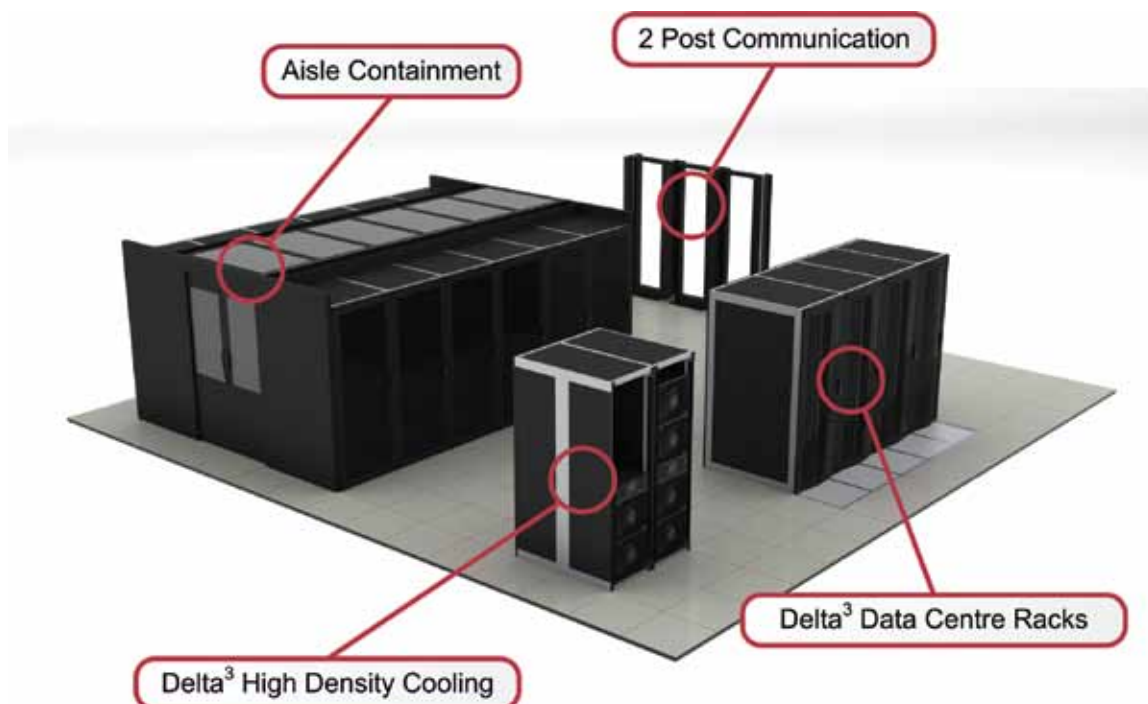
Please call one of our Data Centre Specialists for more information
+44 (0) 1278 772600



ISO 9001
FM23684



ISO 14001
EMS541858



Global Locations

Cooper B-Line's U.K. Customer Service Department is staffed Monday through Friday from 8:30 a.m. to 5:00 p.m. British Time.

If a situation requires that you have to contact us outside of these hours please leave a message via email so we can give it immediate attention the following business day.

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