

# CANNON INFRASTRUCTURE

CABINETS, RACKS, CONTAINMENT, PDU, UPS, HEAT LOAD & ACCESSORY SOLUTIONS

- *Server & Networking Cabinets*
- *IP55/66 Cabinets /Enclosures*
- *19"/ETSI Racks*
- *HOT/COLD Aisle Containment*
- *Patching Frames*
- *Mini Cabinets*
- *Wall Mounted Boxes*
- *Plinths, RAFT™ & Raceways*
- *Doors, Locks & Side Panels*
- *Quick-Fit Products*
- *PDU's & Monitoring*
- *KVM*
- *HEAT LOAD*
- *UPS*
- *Accessories*

Cannon Technologies is a world-leading provider of energy-efficient, modular data center infrastructure solutions, 19" Server & Equipment cabinets, professional services, and technical support.

UK designed and manufactured products which can be tailored and customised to the requirements of data center, networking, communications, transportation, defense and security and financial operations. Recognising the benefits of a fully end-to-end solutions Cannon also design & manufacture scalable systems for worldwide applications.

Cannon's success lies in its team of skilled professionals whose depth of experience is unmatched, technology that sets the standard for the industry, and an unwavering commitment to providing excellent support for its customers.



**MADE IN  
BRITAIN**

**EMC & IP55 Cabinets**



**Micro Data Center**



**With-in-Row Cooling**



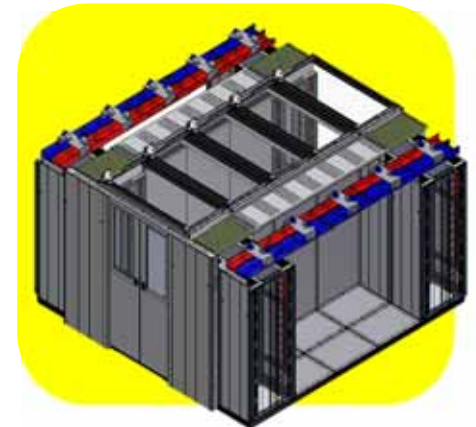
**Modular Data Centers**



**Broadcast Cabinets**



**Hot/Cold Aisle Containment**



**Outdoor Cabinets**



**Data Center Manager**



**Heat Load | KVM | UPS | Power**



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**SMART NET PAGES 1.0 / 1.2**

**STANDARD FEATURES**

- Heights: 12U to 47U
- Two widths: 600mm & 800mm
- Depths: 600mm to 1200mm
- Glass front door & steel rear door - 600mm/800mm deep cabinets
- Perforated front & rear door - 1000mm/1200mm deep cabinets
- Roof panel is removable for flood wiring
- Maximum cable access through base
- Load rating: 1000kg static (sited directly on floor)



**PAGE 1.18**

CANNON ETSI  
CAB EXAMPLE



**SMART CAB PAGE 1.4**

**STANDARD FEATURES**

- Heights: 12U to 52U
- Three widths: 600mm, 700mm & 800mm
- Depths: 600mm to 1200mm
- Glass front door & steel rear door - 600mm/800mm deep cabinets
- Perforated front & rear door - 900mm to 1200mm deep cabinets
- Roof panel with multiple entry cable brush glands
- Maximum cable access through base
- Load rating: 1000kg static (sited directly on floor)



**SERVER SMART PAGE 1.6**

**STANDARD FEATURES**

- Heights: 25U to 54U
- Three widths: 600mm, 700mm & 800mm
- Depths: 900mm to 1200mm
- MaxiVENT Plus Curved Perforated front & rear door
- Roof panel with multiple entry cable brush glands
- Maximum cable access through base
- Load rating: 1200kg static (sited directly on floor)



**SMART SPACE PAGE 1.8**

**STANDARD FEATURES**

- Heights: 42U to 47U
- Two widths: 600mm & 800mm
- Depths: 1000mm & 1200mm
- *Slide in side panels can be installed/removed even when bayed*
- MaxiVENT Plus Curved Perforated front & rear door
- Roof panel with multiple entry cable brush glands
- Maximum cable access through base
- Load rating: 1200kg static (sited directly on floor)



**SMART CO-LOCATE PAGE 1.10**

**STANDARD FEATURES**

- Heights: 25U to 47U
- Three widths: 600mm, 700mm & 800mm
- Depths: 900mm to 1200mm
- MaxiVENT Plus Curved Perforated front & rear door
- Roof panel with multiple entry cable brush glands
- Maximum cable access through base
- Load rating: 1200kg static (sited directly on floor)



**PAGE 1.17**



# CABINET/RACK OVERVIEW

## DATA CENTRE INFRASTRUCTURE

CANNON ZONE 4  
SEISMIC CAB



### BROADCAST CAB

PAGE 1.12

#### STANDARD FEATURES

- Heights: 42U & 47U
- One widths: 600mm
- Depths: 800mm to 1000mm
- Front Extrusion Trim
- Roof panel with multiple entry cable brush glands
- Maximum cable access through base
- Load rating: 1000kg static (sited directly on floor)
- Optional Welded Frame



### SMART PATCH PRO

PAGE 1.14

#### STANDARD FEATURES

- Heights: 42U to 54U
- Width: 800mm
- Depths: 450mm & 600mm
- Optional front door, rear panel & cable management covers
- 1U Interval Cable Management Fingers & Cable rings
- Upper/lower cable troughs
- Maximum cable access through base



### ABACUS PRO IP55 & ENUX EMC

PAGE 1.20

#### STANDARD FEATURES

- IP55 EN60529 NEMA 12; complying NEMA250
- EMC Variants
- Heights: 24U to 47U
- Two widths: 600mm & 800mm
- Depths: 600mm to 1200mm
- Plain or Glazed front door
- Rear Panel as standard with optional doors
- Modular base cable entry system with seal
- Load rating: 1000kg static (sited directly on floor)

PAGE 1.17



### ACU & SOUNDPROOF CAB

PAGES 1.28 / 1.29

#### STANDARD FEATURES

- Heights: 24U to 47U
- Two widths: 600mm & 800mm
- Depths: 600mm to 1200mm
- **AIR CONDITIONER UNIT as per thermal requirements**
- Filter fan, filter, heater and heat exchanger options
- Load rating: 1200kg static (sited directly on floor)

CANNON HIGH AIR  
VOLUME REAR DOOR FOR  
HD COMPUTE  
APPLICATIONS



### EMC CABINET

PAGE 1.30

#### STANDARD FEATURES

- Height: 42U
- Two widths: 600mm & 800mm
- Depths: 600mm to 1000mm
- EMC to MIL STD 285; certified
- EMC Fan unit option
- ESD Stud
- Load rating: 1000kg static (sited directly on floor)

**A STYLISH, LOW COST, MEDIUM DUTY 19" ENCLOSURE**

**STANDARD FEATURES**

- Rugged steel construction
- Heights: 12U to 48U
- Two widths: 600mm, 800mm
- Depths: 600mm, 800mm, \*1000mm & \*1200mm  
(\*please see table for options)
- Four infinitely adjustable 19-inch mounting posts  
(Universal design will accept all 19-inch equipment)
- Two drop-in ribbed and lockable side panels (4 installed to 1200mm)
- Glass front door & steel rear door, which opens 180° when  
bayed and 270° at end of bay or when stand-alone on  
600mm & 800mm deep cabinets
- Perforated front & rear door, which opens 180° when  
bayed and 270° at end of bay or when stand-alone on  
1000mm & 1200mm deep cabinets
- Optional split wardrobe doors available see accessories
- Doors supplied with swing-handle lock
- Roof has large capacity cable glands situated at the  
front & rear on both sides
- Roof panel is removable for flood wiring
- Maximum cable access through base
- Four transit castors supplied fitted

**OPTIONS/UPGRADES - SEE FOLLOWING SECTIONS**

- Various types of front and rear doors available
- Roof mounted fan unit available: 2 & 4 fans
- Power Distribution Units
- CANNON RAfT and Raceway compatible
- See accessories section for full range of shelving and  
cable management
- Smart Trim for doors and side panel available in a  
variety of colours

**FINISH**

Standard: Powder painted Black RAL 9005 or Grey White RAL 9002.

Other colours available on request.

**TECHNICAL INFORMATION**

- Manufactured (where applicable) to BS.EN60950 2002,
- IEC 60297, EIA-310-D, UL94V0
- Load rating: 1000kg static (sited directly on floor)



**AVAILABLE  
ASSEMBLED  
OR FLATPACKED**

**600 & 800 DEEP  
VARIANTS INSTALLED AS  
STANDARD WITH GLASS  
FRONT DOOR AND  
PLAIN VENT REAR DOOR**



**AVAILABLE  
ASSEMBLED  
OR FLATPACKED**

**1000 & 1200 DEEP  
VARIANTS INSTALLED AS  
STANDARD WITH  
PERFORATED FRONT &  
REAR DOOR**

\* Please note cabinets which are 1000mm & 1200mm deep will have perforated doors front and back all other cabinets listed above will have Vented frame glass door (front) and a vented frame steel door (rear)

Height	Width	Depth	Part No.
U	mm	mm	Order Code
12	600	600	CABN126060
12	600	800	CABN126080
18	600	600	CABN186060
18	600	800	CABN186080
18	800	800	CABN188080
25	600	600	CABN256060
25	600	800	CABN256080
25	800	600	CABN258060
25	800	800	CABN258080
33	600	600	CABN336060
33	600	800	CABN336080
33	800	600	CABN338060
33	800	800	CABN338080
39	600	600	CABN396060
39	600	800	CABN396080
39	800	600	CABN398060
39	800	800	CABN398080
42	600	600	CABN426060
42	600	800	CABN426080
42	800	600	CABN428060
42	800	800	CABN428080
45	600	600	CABN456060
45	600	800	CABN456080
45	800	600	CABN458060
45	800	800	CABN458080
47	600	600	CABN476060
47	600	800	CABN476080
47	800	600	CABN478060
47	800	800	CABN478080
48	800	800	CABN488080

Height	Width	Depth	Part No.
U	mm	mm	Order Code
27	600	1000	CABN276099
27	600	1200	CABN276012
27	800	1000	CABN278099
27	800	1200	CABN278012
33	600	1000	CABN336099
33	600	1200	CABN336012
33	800	1000	CABN338099
33	800	1200	CABN338012
37	800	1200	CABN378012
39	600	1000	CABN396099
39	600	1200	CABN396012
39	800	1000	CABN398099
39	800	1200	CABN398012
42	600	1000	CABN426099
42	600	1200	CABN426012
42	800	1000	CABN428099
42	800	1200	CABN428012
45	600	1000	CABN456099
45	600	1200	CABN456012
45	800	1000	CABN458099
45	800	1200	CABN458012
47	600	1000	CABN476099
47	600	1200	CABN476012
47	800	1000	CABN478099
47	800	1200	CABN478012

For FLAT PACK versions please replace the CABN prefix with 020N.

e.g. Smart Net 42U 800 x 800 assembled = CABN428080.  
Flat Pack = 020N428080.

### Smart Net Cabinet Roof Mounted Fan Tray

Number of Fans	Order Code	Comments
2 Fan	135E01424202	Requires Roof Fan Cover Plate*
4 Fan	135E01424204	Requires Roof Fan Cover Plate*
6 Fan	135E01424206	Requires Roof Fan Cover Plate*



Image shows roof mounted Smart Net Fan Unit fitted in cabinet.

### Smart Net Cabinet \*Roof Top Fan Cover Plate

CAB Size (w x d)	Order Code	CAB Size (w x d)	Order Code
600 x 600	318C00606000	800 x 600	318C00806000
600 x 800	318C00608000	800 x 800	318C00808000
600 x 1000	318C00609900	800 x 1000	318C00809900
600 x 1200	318C00601200	800 x 1200	318C00801200



Image shows SMARTNET Roof Top Fan Cover Plate (excludes fan unit - order separately)

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



## A STYLISH, COST EFFECTIVE AND SECURE ENCLOSURE

### STANDARD FEATURES

- Rugged steel construction
- Heights: 42U & 47U
- Width: 800mm
- Depths: 800mm & 1000mm
- Four infinitely adjustable 19-inch mounting posts (Universal design will accept all 19-inch equipment)
- Two drop-in ribbed and lockable side panels
- Choose between a perforated or split perforated wardrobe door
- Doors open 180° when bayed and 270° at end of bay or when stand-alone on cabinets
- Doors supplied with swing-handle lock
- Roof has large capacity cable glands situated at the front & rear on both sides
- Roof panel is removable for flood wiring
- Maximum cable access through base
- Four transit castors supplied fitted

### OPTIONS/UPGRADES - SEE ACCESSORIES SECTION

- Various types of front and rear doors available – See page 1.3
- Roof mounted fan unit available: 2 & 4 fans – See Page 4.13
- Power Distribution Units
- CANNON RAft and Raceway compatible
- See accessories section for full range of shelving and cable management



**AVAILABLE FOR NEXT DAY DELIVERY\*\***  
**AVAILABLE ASSEMBLED OR FLATPACKED**

**\*\* SUBJECT TO ORDER BEING RECEIVED BY 4PM and DELIVERY SUBJECT TO UK MAINLAND LOCATION; CONTACT CANNON FOR DETAILS**

**SEE PAGE 1.3 FOR FRONT & REAR DOOR OPTIONS**

**DOOR SHOWN FOR REFERENCE ONLY**

### FINISH

Standard: Powder painted Black RAL 9005.  
 Other colours available on request; excludes next day service.

### TECHNICAL INFORMATION

- Manufactured (where applicable) to BS.EN60950 2002,
- IEC 60297, EIA-310-D, UL94V0
- Load rating: 1000kg static (sited directly on floor)

\* Please note cabinets EXCLUDE front and rear DOORS; Please see door table for door option

Height	Width	Depth	Part No.	Note
U	mm	mm	Order Code	
42	800	800	SNND428080000101	ASSEMBLED - NO DOORS
42	800	800	SNND428080000101-FP	FLAT PACKED – NO DOORS
<b>47</b>	<b>800</b>	<b>800</b>	SNND478080000101	ASSEMBLED - NO DOORS
<b>47</b>	<b>800</b>	<b>800</b>	SNND478080000101-FP	FLAT PACKED – NO DOORS
42	800	1000	SNND428099000101	ASSEMBLED - NO DOORS
42	800	1000	SNND428099000101-FP	FLAT PACKED – NO DOORS
<b>47</b>	<b>800</b>	<b>1000</b>	SNND478099000101	ASSEMBLED - NO DOORS
<b>47</b>	<b>800</b>	<b>1000</b>	SNND478099000101-FP	FLAT PACKED – NO DOORS

## Door Options

Cannon unique Smart Doors are removable and lockable. Equipped with sprung hinges for easy removal with hinging to the left as standard or right-hand side of the cabinet on request.

Door opening 180° when bayed and 270° opening as stand alone or when at end of a bay. Cannon SMARTNET doors will allow personnel to exit past a cabinet in any direction at front, side or rear, with no obstruction and with minimal danger of snagging loose clothing. These requirements are critical, particularly in an emergency i.e. in smoke filled rooms, even with wide gangways.

**MaxiVent perforated door**



**Smart Vertically Split Doors**



**\*Smart Vertically Split Doors require LC265-x-xxxx Locking rod kit with swing handle**

Height	Maxi Vent Plus Perforated Rear Door	Smart Vertically Split Maxi Vent Perforated Doors*	*Split Door Lock Rod Kit including swing handle & standard barrel
	Order Code	Order Code	Order Code
<b>800mm Wide</b>			
42U	235B95800042	265B90800042	LC265-1-8042
47U	235B95800047	265B90800047	LC265-1-8047

## EARTH BONDING KITS

Cannon earth bonding kits consist of five terminated cables and fixings. These cables can be easily fitted to the M6 earth studs, suitably positioned in all Cannon cabinets, to provide panel and door earth bonding.



### Terminated cables:

- Cable 1: Top Cover
- Cable 2: One Side Panel
- Cable 3: One Side Panel
- Cable 4: Front Door
- Cable 5: Rear Door

DESCRIPTION	PART CODE
EARTH BONDING KIT 600-1000D CAB	KP0223
EARTH BONDING KIT 1200D CAB	KP0223-1200D
EARTH BONDING KIT LOW SMOKE ZERO HALOGEN	KP0223LSZH
MOUNTING POST EARTH BONDING KIT	KP0251
EARTH LEAD FOR VERTICALLY SPLIT DOORS (ONE REQUIRED FOR EACH PAIR OF DOORS)	EC1305/11



The Cannon Smart Cab provides the perfect environment for universal housing of 19-inch servers. Its elegant appearance coupled with high-tech features and unparalleled cooling capabilities make it the ideal solution for leading edge infrastructure.

### BENEFITS & FEATURES

- Accommodates all 19" rack mountable servers with international mounting posts enable rapid and simple server installation, with mixed server depth solutions
- Exceptional cooling for high power densities
- Extensive cable entry through multiple cable glands in roof
- Exceptional cable entry through base access
- A robust rack for high load levels
- Easy access with 180°/270° opening doors and wardrobe door options for narrow aisles

### OPTIONAL

- Cabinet roof cable entry options – See Section 5.1
- Overhead cabinet mounted Cable Raceway simplifies cable infrastructure (no more ceiling hung cable tray) – See Section 7.0
- RAfT frame, replaces floor tile, providing maximum cable entry, speeds and simplifies installation (no more tile cutting) RAfT provides simple stabilisation of cabinet – See Section 6.0
- Quick-Change fan tray option (combines with all cable entry features) – See Section 4.11
- Cannon-Guard electronic upgrades available – See Section 4.3

### STANDARD SPECIFICATION

- Fifteen heights: 12U to 52U (see part code chart)
- Three widths: 600mm or 800mm (limited 700mm)
- Six depths: 600mm to 1200mm (see part code chart)
- Four infinitely adjustable 19" mounting posts allowing universal server mounting - Single height depth members provide a strong structure (Split height mounting post options available for variable server depths; for the rare instances where server mounting slides have no or insufficient depth adjustment - see accessories)
- Two drop-in ribbed and lockable side panels
- 600 to 800 depth cabs fitted with glazed front and plain steel rear doors
- 900 to 1200 deep cabs fitted with MaxiVent perforated doors front and rear, supplied with swing-handle key locks. Single key operates side panel and door locks. – See accessories section
- 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
- Quick-Change fan tray compatible
- Four transit castors fitted

### AIR FLOW CONTROL:

- Blank inserts are available to replace cable glands in the roof, this will ensure airflow passes front to back through cabinet in critical conditions.

### FINISH:

- Standard: Powder painted Black RAL 9005 or Grey White RAL 9002.
- Other colours available on request.

### TECHNICAL INFORMATION:

- Manufactured (where applicable) to BS.EN60950 2002, IEC 60297, EIA-310-D, UL94V0
- Load rating: 1000kg static (sited directly on floor)

### MODIFICATIONS:

- Alternative colours include clients corporate colours
- Alternative sizes and configurations
- Customised doors, internal panels
- **Contact Cannon for details of solutions to your specific requirements**



Height U	Width (mm)	Depth (mm)	Part Code	Height U	Width (mm)	Depth (mm)	Part Code	Height U	Width (mm)	Depth (mm)	Part Code
12	600	600	CABS126060	37	800	800	CABS378080	47	800	600	CABS478060
12	600	800	CABS126080	39	600	600	CABS396060	47	800	800	CABS478080
12	600	1000	CABS126099	39	600	800	CABS396080	47	800	900	CABS478090
15	600	600	CABS156060	39	600	1000	CABS396099	47	800	1000	CABS478099
18	600	600	CABS186060	39	800	800	CABS398080	47	800	1200	CABS478012
18	600	800	CABS186080	39	800	1000	CABS398099	50	800	1000	CABS508099
18	600	1000	SERV258090	42	600	600	CABS426060	52	600	600	CABS526060
18	700	600	CABS187060	42	600	700	CABS426070	52	600	800	CABS526080
18	700	800	CABS187080	42	600	800	CABS426080	52	600	900	CABS526090
18	800	800	CABS188080	42	600	900	CABS426090	52	600	1000	CABS526099
20	600	600	CABS206060	42	600	1000	CABS426099	52	800	800	CABS528080
20	600	800	CABS206080	42	600	1200	CABS426012	52	800	1000	CABS528099
21	600	600	CABS216060	42	700	600	CABS427060	52	800	1200	CABS528012
21	800	600	CABS218060	42	700	800	CABS427080				
22	600	800	CABS226080	42	700	900	CABS427090				
25	600	600	CABS256060	42	700	1000	CABS427099				
25	600	800	CABS256080	42	800	600	CABS428060				
25	600	900	CABS256090	42	800	800	CABS428080				
25	600	1000	CABS256099	42	800	900	CABS428090				
25	700	600	CABS257060	42	800	1000	CABS428099				
25	700	800	CABS257080	42	800	1200	CABS428012				
25	700	900	CABS257090	45	600	600	CABS456060				
25	700	1000	CABS257099	45	600	800	CABS456080				
25	800	600	CABS258060	45	600	900	CABS456090				
25	800	800	CABS258080	45	600	1000	CABS456099				
25	800	900	CABS258090	45	600	1200	CABS456012				
25	800	1000	CABS258099	45	700	600	CABS457060				
25	800	1200	CABS258012	45	700	1000	CABS457099				
27	600	600	CABS276060	45	800	600	CABS458060				
27	600	800	CABS276080	45	800	800	CABS458080				
27	800	800	CABS278080	45	800	900	CABS458090				
27	800	1000	CABS278099	45	800	1000	CABS458099				
33	600	600	CABS336060	45	800	1200	CABS458012				
33	600	800	CABS336080	47	600	600	CABS476060				
33	600	900	CABS336090	47	600	800	CABS476080				
33	600	1000	CABS336099	47	600	900	CABS476090				
33	700	600	CABS337060	47	600	1000	CABS476099				
33	700	800	CABS337080	47	600	1200	CABS476012				
33	700	1000	CABS337099	47	700	600	CABS477060				
33	800	800	CABS338080	47	700	800	CABS477080				
33	800	1000	CABS338099	47	700	1000	CABS477099				
33	800	1200	CABS338012								

### EARTH BONDING KITS

Cannon earth bonding kits consist of five terminated cables and fixings. These cables can be easily fitted to the M6 earth studs, suitably positioned in all Cannon cabinets, to provide panel and door earth bonding.

#### Terminated cables:

- Cable 1: Top Cover
- Cable 2: One Side Panel
- Cable 3: One Side Panel
- Cable 4: Front Door
- Cable 5: Rear Door



DESCRIPTION	PART CODE
EARTH BONDING KIT 600-1000D CAB	KP0223
EARTH BONDING KIT 1200D CAB	KP0223-1200D
EARTH BONDING KIT LOW SMOKE ZERO HALOGEN	KP0223LSZH
MOUNTING POST EARTH BONDING KIT	KP0251
EARTH LEAD FOR VERTICALLY SPLIT DOORS (ONE REQUIRED FOR EACH PAIR OF DOORS)	EC1305/11

**FOR FLAT PACK VERSIONS PLEASE REPLACE THE SUFFIX CABS WITH '020S' TO THE ORDER CODE.  
E.G. SMART CAB 42U 800 X 1000 = 020S428099**



The Cannon Server Smart Cab provides the perfect environment for universal housing of 19-inch servers. Its elegant appearance coupled with high-tech features and supreme cooling capabilities make it the ideal solution for leading edge infrastructure.

#### BENEFITS & FEATURES

- Accommodates all 19" rack mountable servers with international mounting posts enable rapid and simple server installation, with mixed server depth solutions
- Exceptional cooling for high power densities
- Extensive cable entry through multiple cable glands in roof
- Exceptional cable entry through base access
- A robust rack for high load levels
- Easy access with 180°/270° opening doors and wardrobe door options for narrow aisles

#### OPTIONAL

- Cabinet roof cable entry options – See Section 5.1
- Overhead cabinet mounted Cable Raceway simplifies cable infrastructure (no more ceiling hung cable tray) – See Section 7.0
- RAfT frame, replaces floor tile, providing maximum cable entry, speeds and simplifies installation (no more tile cutting) RAfT provides simple stabilisation of cabinet – See Section 6.0
- Quick-Change fan tray option (combines with all cable entry features) – See Section 4.11
- Cannon-Guard electronic upgrades available – See Section 4.3

#### STANDARD SPECIFICATION

- Seven heights: 25U, 33U, 42U, 45U, 47U, 52U
- Three widths: 600mm or 800mm (limited 700mm)
- Three depths: 900mm, 1000mm, 1200mm
- Four infinitely adjustable 19" mounting posts allowing universal server mounting - double fixings throughout and double height depth members provide a robust structure (Split mounting post height options, to suit variable depth requirements in the same cabinets, mix servers and switches with ease - see accessories)
- Two drop-in ribbed and lockable side panels
- MaxiVent Plus curved perforated doors front and rear, supplied with swing-handle key locks. Single key operates side panel and door locks. – See accessories section
- 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
- Quick-Change fan tray compatible
- Four transit castors fitted

#### AIR FLOW CONTROL:

- Blank inserts are available to replace cable glands in the roof, this will ensure airflow passes front to back through cabinet in critical conditions.

#### FINISH:

- Standard: Powder painted Black RAL 9005 or Grey White RA 9002.
- Other colours available on request.

#### TECHNICAL INFORMATION:

- Manufactured (where applicable) to BS.EN60950 2002, IEC60297, EIA-310-D, UL94V0
- Load rating: 1200kg static (sited directly on floor)

#### MODIFICATIONS:

- Alternative colours include clients corporate colours
- Alternative sizes and configurations
- Customised doors, internal panels
- **Contact Cannon for details of solutions to your specific requirements**

Height	Width	Depth	Part No.
U	mm	mm	Order Code
25	600	900	SERV256090
25	600	1000	SERV256099
25	600	1200	SERV256012SC
25	800	900	SERV258090
25	800	1000	SERV258099
25	800	1200	SERV258012SC
33	600	900	SERV336090
33	600	1000	SERV336099
33	800	1000	SERV3380999
42	600	900	SERV426090
42	600	1000	SERV426099
42	600	1200	SERV426012SC
42	700	1200	SERV427012
42	800	900	SERV428090
42	800	1000	SERV428099
42	800	1200	SERV428012SC
42	1000	1000	SERV429999
45	600	900	SERV456090
45	600	1000	SERV456099
45	600	1200	SERV456012SC

Height	Width	Depth	Part No.
U	mm	mm	Order Code
45	800	900	SERV458090
45	800	1000	SERV458099
45	800	1200	SERV458012SC
47	600	900	SERV476090
47	600	1000	SERV476099
47	600	1200	SERV476012SC
47	700	1200	SERV477012
47	800	600	SERV478060
47	800	800	SERV478080
47	800	900	SERV478090
47	800	1000	SERV478099
47	800	1200	SERV478012SC
52	600	1000	SERV526099
52	600	1200	SERV526012SC
52	800	900	SERV528090
52	800	1000	SERV528099
52	800	1200	SERV528012SC
54	800	1200	SERV548012SC

**FOR FLAT PACK VERSIONS PLEASE ADD THE SUFFIX OF 'FP' TO THE ORDER CODE.**

**E.G. SERVERSMART CAB 42U 800 X 1000 = SERV428099FP**

### EARTH BONDING KITS

Cannon earth bonding kits consist of five terminated cables and fixings. These cables can be easily fitted to the M6 earth studs, suitably positioned in all Cannon cabinets, to provide panel and door earth bonding.

#### 5 Terminated cables:

- Cable 1: Top Cover
- Cable 2: One Side Panel
- Cable 3: One Side Panel
- Cable 4: Front Door
- Cable 5: Rear Door



DESCRIPTION	PART CODE
EARTH BONDING KIT 600-1000D CAB	KP0223
EARTH BONDING KIT 1200D CAB	KP0223-1200D
EARTH BONDING KIT LOW SMOKE ZERO HALOGEN	KP0223LSZH
MOUNTING POST EARTH BONDING KIT	KP0251
EARTH LEAD FOR VERTICALLY SPLIT DOORS (ONE REQUIRED FOR EACH PAIR OF DOORS)	EC1305/11



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

The Cannon SMART Space cabinet has been designed to allow the side panels to be removed in situ and exchanged with various options e.g. half depth and side panels with brush glands to allow for simple cross patching between network and switch cabinets.

SMART Space allows co-locate users to have a suite of cabinets with cross connections completed within their own domain.

Traditional cabinet side panels are often trapped when cabinets are bayed together.

The SMART Space cabinet can even be reconfigured to suit Cold /Hot row cooling - a unique solution for the dynamic IT environment.

**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
- Fully closes off inter-rack side access, protecting equipment

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

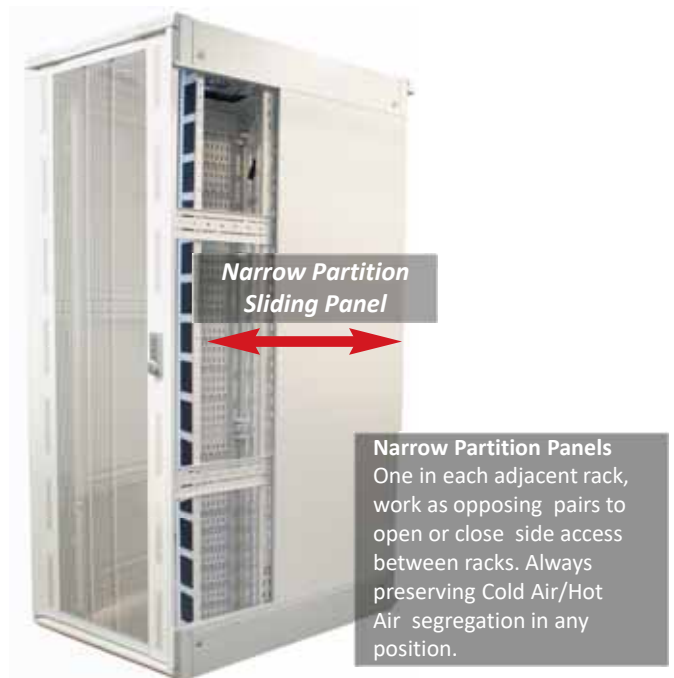
- A full specification Server Smart Cab enhanced with sliding (Narrow Partition Type) removable side panels.
- Side panels slide open to allow cross-cabling apertures between single client racks, in a row when required.
- Alternatively the sliding side panels can easily be adjusted to close off all side 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.
- When fitted the side panels (in any position) maintain close proximity to the front 19" mounting posts to minimise hot air recirculation to the front cold zone.
- High density installations benefit substantially as maximum cooling efficiency is always maintained with no cold air waste.
- AIR-LOKK moulded seals can further improve the by-passing of hot air to the front area of the equipment.
- AIR-LOKK mouldings are easily configured to accommodate 'IT' equipment requiring cross air flow cooling & mixed airflow patterns.
- Side panels need not be removed so separate storage is a challenge that disappears.
- Side panels can be totally removed or not fitted, as required.

#### The only rack that resolves the competing challenges of:

- Inter rack security
- Cross cabling between racks
- Cold Air/Hot Air separation within the rack
- Improved cooling & cooling efficiency

#### Panel Options are:

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



*An elegant solution for Co-Location or Data Centres*



### COMPRISING

- Three heights: 42U, 45U, 47U
- Two widths: 600mm or 800mm
- Two depths: 1000mm or 1200mm
- Four infinitely adjustable 19-inch mounting posts allowing universal server mounting - double fixings throughout and double height depth members 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 accessories**)
- Two full depth slide panels
- MaxiVent Plus curved perforated doors front and rear, supplied with swing-handle key locks. Single key operates door locks. - **See accessories** (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 with **base sealing options See accessories**
- Four transit castors fitted as standard
- Quick-Change fan tray compatible

### NOTES

- Narrow Partition Side Panels or Full Depth Side Panel option.
- Narrow Partition Side 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 bayed racks enable total closure of side access between racks for maximum security, by sliding adjacent panels fore and aft respectively.
- Whether open or closed, the sliding panels always maintain close proximity to the mounting post to minimise hot air recirculation to ensure 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.

### FINISH

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Other colours available on request.

Height	Width	Depth	Part No.
U	mm	mm	Order Code
42	600	1000	SLDP426099
		1200	SLDP426012SC
42	800	1000	SLDP428099
		1200	SLDP428012SC
45	600	1000	SLDP456099
		1200	SLDP456012SC
45	800	1000	SLDP458099
		1200	SLDP458012SC
47	600	1000	SLDP476099
		1200	SLDP476012SC
47	800	1000	SLDP478099
		1200	SLDP478012SC

#### Please Note:

- Each 1000mm deep Smart Space Cab is supplied with two full depth 1000mm deep sliding side panels as standard that can be omitted upon request\*.
- Each 1200mm deep Smart Space Cab is supplied with four 600mm deep sliding side panels as standard that can be omitted upon request\*.

#### 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.

**\*To request removal of side panels please add suffix -NP after the Smart Space Cabinet Part Number e.g. 42U 600 x 1000 would be SLDP426099-NP**

SLIDE SIDE PANEL OPTION		
Height	Depth	Part No.
U	mm	Order Code
42	600	218C00156042
	800	218C00158042
	1000	218C00159942
45	600	218C00156045
	800	218C00158045
	1000	218C00159945
47	600	218C00156047
	800	218C00158047
	1000	218C00159947

SMART CO-LOCATE cabinet maximizes the available floor space by enabling multiple hosting of IT equipment in one cabinet footprint - **saving cost.**

**BENEFITS AND FEATURES**

- Highly secure with total separation of individual client cells with through protected wiring trunking available
- High heat loads are cooled by a range of optional fan configurations, with temperature control modules, remote monitoring and alarms
- Individual customer cells can have independently adjustable 19 inch mounting posts for variable depth equipment within any cell if required
- Reconfigurable structure allows individual door heights and corresponding cell heights to be easily changed at any time
- The server friendly design provides exceptionally versatile cable management, equipment mounting and cooling with robust capability
- Plain security divider panel fitted between each cell
- Security is of the highest order, enhanced with available upgrades for locks and surveillance
- Cannon is able to supply individually paired locks for security. Cabinets may for example have 4 separate locking compartments with alternative key numbers available
- Cannon electronic locking systems are available for keypad or remote activation with optional alarms
- Full environmental control options are available with remote control and management (see DCM)
- Full power management, with standard and Intelligent PDU's available upon request.
- A high tech and elegant co-locate system to provide a total solution for today and the future
- Mountable on Cannon RAfT System for raised floor installation to remove the need for tile cutting
- Will integrate with Cannon overhead Cable-raceway for simplifying overhead cabling
- Extensive roof cable entry gland – **See Section 5.1**

**FINISH**

Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Other colours available on request.*



Can be easily re-configured to alternative cell numbers by purchasing alternative door sets

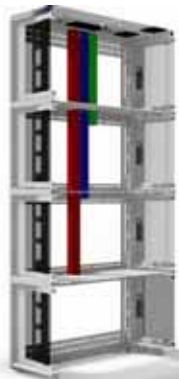
**STANDARD SPECIFICATION**

- Two heights: 42U and 47U
- Two widths: 600mm and 800mm
- Four depths: 800mm, 900mm, 1000mm & 1200mm
- Available in 2, 3 or 4 cell compartments
- Infinitely adjustable 19-inch mounting posts allowing universal equipment mounting
- Plain (non-vented) security divider panel fitted between each cell
- Two drop-in ribbed and lockable secure side panels
- MaxiVent perforated doors front and rear, supplied with swing-handle key locks.
- Each cell has different lock/key number
- All doors open 180° when bayed and 270° at end of bay or when stand-alone
- Quick-release hinges on all doors
- Maximum cable access through base with the option to bank or fit with brush seal as required
- Four transit castors fitted as standard
- Secure Cable Trunking included as standard
- Multiple moulded finger cable entry glands in roof

**TECHNICAL INFORMATION**

- Manufactured (where applicable) to BS.EN60950 2002, IEC 60297, EIA-310-D, UL94V0
- Load rating: 1000kg static (sited directly on floor)

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



**Cabinets fitted with Secure Cable Trunking**



**Highly secure with total separation of individual client cells with through protected wiring trunking available**

### OPTIONS/UPGRADES

- Vented framed steel doors or glass doors
- Vertically split wardrobe doors
- Quick Change zero-U, roof mounted fan unit: 2, 4 or 6 Fans Power Distribution Units
- Plinth/RAFT and Raceway compatible AIR-LOKK options
- CannonGuard upgrades available: remote system management/remote access control/high capacity cooling and remote environmental control/remote power management/local condition monitoring - See Cannon DCiM brochure



### EARTH BONDING KITS

Description	Part No.
Earth Bonding Kit for 2 Cell Cabinet	KP0223-2
Earth Bonding Kit for 3 Cell Cabinet	KP0223-3
Earth Bonding Kit for 4 Cell Cabinet	KP0223-4

2 Cell Compartment			
Height	Width	Depth	Part No.
U	mm	mm	Order Code
42	600	800	COL2426080
		900	COL2426090
		1000	COL2426099
		1200	COL2426012
42	800	800	COL2428080
		900	COL2428090
		1000	COL2428099
		1200	COL2428012
47	600	800	COL2476080
		900	COL2476090
		1000	COL2476099
		1200	COL2476012
47	800	800	COL2478080
		900	COL2478090
		1000	COL2478099
		1200	COL2478012

3 Cell Compartment			
Height	Width	Depth	Part No.
U	mm	mm	Order Code
42	600	800	COL3426080
		900	COL3426090
		1000	COL3426099
		1200	COL3426012
42	800	800	COL3428080
		900	COL3428090
		1000	COL3428099
		1200	COL3428012
47	600	800	COL3476080
		900	COL3476090
		1000	COL3476099
		1200	COL3476012
47	800	800	COL3478080
		900	COL3478090
		1000	COL3478099
		1200	COL3478012

4 Cell Compartment			
Height	Width	Depth	Part No.
U	mm	mm	Order Code
42	600	800	COL4426080
		900	COL4426090
		1000	COL4426099
		1200	COL4426012
42	800	800	COL4428080
		900	COL4428090
		1000	COL4428099
		1200	COL4428012
47	600	800	COL4476080
		900	COL4476090
		1000	COL4476099
		1200	COL4476012
47	800	800	COL4478080
		900	COL4478090
		1000	COL4478099
		1200	COL4478012

**Other cell configurations available upon request**



### STANDARD SPECIFICATION:

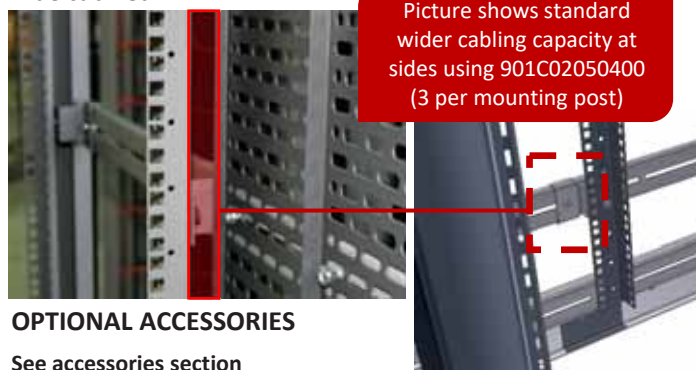
- Available in 42U and 47U heights 600mm wide
- 800mm, 900mm and 1000mm deep
- Front cover trims fitted with coloured Smart Trim.
- Base designed for maximum cable entry and ease of cabling to cable tray with a minimum of cable goose-necking
- Fitted with transit castors as standard
- 1000Kg static load rating & 450Kg dynamic load rating

### FINISH:

- Standard 1: Powder painted Black to RAL9005
- Standard 2: Powder painted Dusty Grey to RAL7037

### FEATURES:

Set back depth members (panels mounting post supports) increase the cabling space on each side of the cabinet at rear by 28mm giving an extra 56mm space in the back of a 600mm wide cabinet.

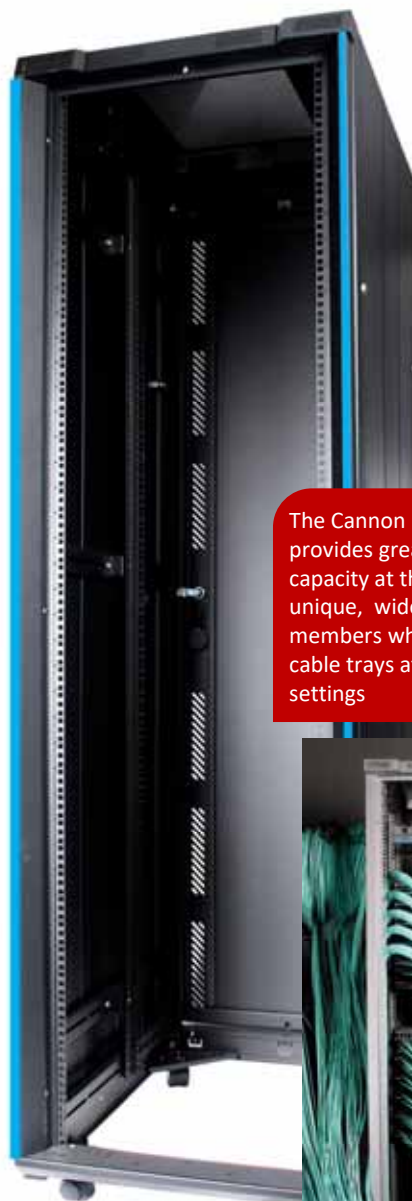


Picture shows standard wider cabling capacity at sides using 901C02050400 (3 per mounting post)

### OPTIONAL ACCESSORIES

See accessories section

- Side panels
- Rear doors (glass, steel or perforated)
- RAfT System compatible - for raised floor installations
- Raceway System compatible - for overhead cabling
- Fan tray - various options available - **See Section 4.11**
- Baying kit - for standard or special side baffle panels
- Cable tray - from 50mm to 300mm widths
- Cabinet roof cable entry options – **See Section 5.1**



The Cannon Broadcasting Cabinet provides greatly enhanced cabling capacity at the sides due to unique, wider spaced depth members which position vertical cable trays at maximum width settings



Height	Width	Depth	Part No.
U	mm	mm	Order Code
42	600	800	CABC426080
42	600	900	CABC426090
42	600	1000	CABC426099
45	600	800	CABC456080
47	600	600	CABC476060
47	600	800	CABC476080
47	600	900	CABC476090
47	600	1000	CABC476099
47	800	800	CABC478080
47	800	1000	CABC478099

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

### Side Panels

- Side panels locate easily into the cabinet and lock by the means of two identical locks
- Same key used to unlock/lock door and side panels
- Standard side panel and baffle side panels available
- Cabinets are able to be bayed together with side panels attached

### Finish:

- Powder painted Black to RAL9005

### Supplied:

- Individually

Standard Side Panel		
Height U	Depth mm	Part No. Order Code
42	800	217C00008042
	900	217C00009042
	1000	217C00009942
47	800	217C00008047
	900	217C00009047
	1000	217C00009947

Baffled Side Panel		
Height U	Depth mm	Part No. Order Code
42	800	218C02008042
	900	218C02009042
	1000	218C02009942
47	800	218C02008047
	900	218C02009047
	1000	218C02009947

### Cabinet Joining/Baying Kit

- Cannon cabinet joining/baying kits offer a very simple solution where cabinets are required to be joined, or bayed together
- One joining kit will bay two cabinets together

Description	Part No. Order Code
For use with standard side panels	KP0236
For use with baffle side panels	KP0007

### DOOR OPTIONS

- Cannon unique Smart Doors are removable and lockable.
- Equipped with sprung hinges for easy removal with hinging to the left or right-hand side of the cabinet.
- 180° opening when bayed, 270° opening as stand alone and at end of bay.
- Doors allow personnel to exit past a cabinet in any direction at front, side or rear with no obstruction and with minimal danger of snagging loose clothing.
- These requirements are critical, particularly in an emergency, i.e. in smoke filled rooms, even with wide gangways.



**\*Smart Vertically Split Doors require LC265-x-xxxx Locking rod kit with swing handle**

Height	Vented Frame Glass Rear Door	Vented Frame Steel Rear Door	Maxi Vent Perforated Rear Door	Split MaxiVent Perforated Door*	*Split Door Lock Rod Kit including swing handle & standard barrel
	Part Code	Part Code	Part Code	Part Code	Part Code
42U	235B85600042	235B65600042	235B95600042	265B90600042	LC265-1-6042
47U	235B85600047	235B65600047	235B95600047	265B90600047	LC265-1-6047

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

A HDPF “High Density Patching Frame” with exceptional cable capacity. Ideal for both back bone active/passive equipment and structured cabling and cabling products.

### Features and Benefits

- Fully assembled steel construction
- Every ‘U’ space can be filled, no need for intermediate cable rings within the ‘U’ positions
- Cable management fingers at each ‘U’ height on both sides of patching field, providing quick and stress-free patch cord management. Additional quick fit cable rings to assist with cable support, routing and containment
- Individual free standing single patching frame or quickly bayed in multiples and back to back with bolt down features in base
- Upper and lower cable troughs for cable routing and separation
- Optional cover panels and front smart door kits of split wardrobe type opening 180°
- No sharp edges or tight bends so cables are protected

*\*Try “Cannon Wrap” for quick and easy cable tie. Soft on critical high speed cable. reusable and versatile. (Part no. CA161).*

### Specification

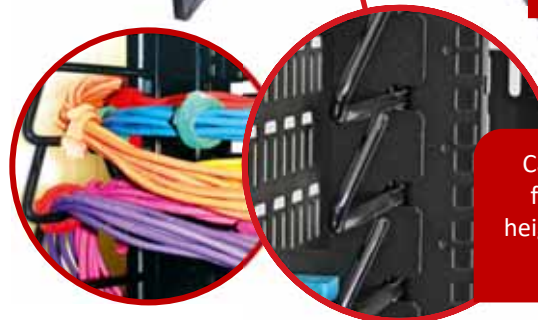
- 33U, 36U 42U, 45U, 47U, & 54U Usable Patching Field
- Available in two footprints; 800 wide x 450 deep and 800 wide x 600 deep
- 1U cable fingers at every “U”, up each side of patching field
- Optional cable rings in vertical cable ways for enhanced containment (choice of orientation)
- Large apertures in base and top for easy entry of bulk cables
- Options for rear cable tray configuration
- Quick loop feature on all rear cable tray to speed cable installation
- Optional front cover panels for patching field and vertical cable ways
- Optional wardrobe smart door kits for additional security and conformity
- Delivered on transit castors for ease of logistics
- Earth points

### Finish

- Standard: Powder painted Black to RAL9005 or Grey White RAL9002.
- Other colours available on request.



Please note: Doors are an optional upgrade



Cable management fingers at each ‘U’ height on both sides of patching field

Order Codes - High Density Patching Frame			
Height U	Width mm	Depth Mm	Part No. Order Code
33	800	450	CABP338045000110
33	800	600	CABP338060000110
36	800	450	CABP368045000110
36	800	600	CABP368060000110
42	800	450	CABP428045000110
42	800	600	CABP428060000110
45	800	450	CABP458045000110
45	800	600	CABP458060000110
47	800	450	CABP478045000110
47	800	600	CABP478060000110
54	800	450	CABP548045000110
54	800	600	CABP548060000110

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

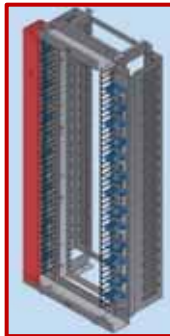
### OPTIONAL UPGRADES

#### Cladding

- Cladding panels are available to upgrade the standard Patching Frame to meet your specific requirements
- All other panels have hinge pins each side, which are spring loaded allowing left or right hand opening for quick removal

#### Corner Cover Panel

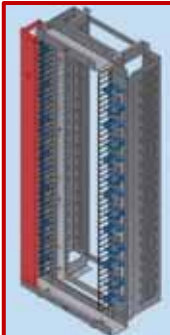
- The Corner Patching Cover Panel is supplied as a left hand or right hand kit.
- Heights: 33U, 36U, 42U, 45U, 47U and 54U
- Not necessary when installing Split Doors



Description	Right Hand Order Code	Left Hand Order Code
33U Kit	KP5233	KP5133
36U Kit	KP5236	KP5136
42U Kit	KP5242	KP5142
45U Kit	KP5245	KP5145
47U Kit	KP5247	KP5147
54U Kit	KP5254	KP5154

#### Vertical Patching Cover Panel

- The Vertical Patching Cover Panel is for use when Patching between adjacent Frames, when bayed together.
- The Vertical Cableway Cover Panel can be fitted on either the right or left hand side.
- Heights: 33U, 36U, 42U, 45U, 47U and 54U
- Not necessary when installing Split Doors



Description	Order Code
33U Kit	KP5033
36U Kit	KP5036
42U Kit	KP5042
45U Kit	KP5045
47U Kit	KP5047
54U Kit	KP5054

#### Patching Frame Earth Bar

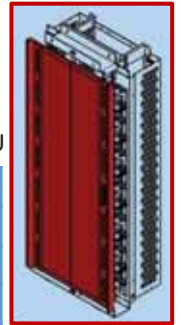
- Cannon Patching Frame Earth Bar provides easily accessible earth connections in any Cannon Patch cabinet.
- Supplied with two M6 x 12 studs to affix Earth Bar to Patching Frame.



Order Codes - High Density Patching Frame - Earth Bars	
Description	Order Code
42U	012C42020000

### Smart Patch PRO Door Kit

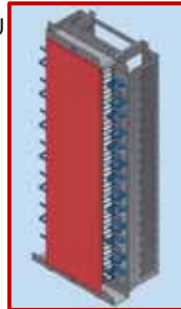
- The Smart range of Split Doors can be fitted to the front of the Cannon Patch
- Supplied with Split Perforated Door including swing handle lock with lock rods
- Heights: 33U, 36U, 42U, 45U, 47U and 54U



Description	Order Code
33U Split Perf Door Kit	KP5433
36U Split Perf Door Kit	KP5436
42U Split Perf Door Kit	KP5442
45U Split Perf Door Kit	KP5445
47U Split Perf Door Kit	KP5447
54U Split Perf Door Kit	KP5454

### Front/Rear Cover Panel

- The Front Cover Panel is an alternative to Split Doors and is fitted to the front of the Cannon Patch via quick release spring pins.
- Heights: 33U, 36U, 42U, 45U, 47U and 54U

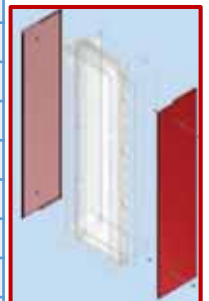


Description	FRONT Order Code	REAR Order Code
33U Kit	KP5333	KP5533
36U Kit	KP5336	KP5536
42U Kit	KP5342	KP5542
45U Kit	KP5345	KP5545
47U Kit	KP5347	KP5547
54U Kit	KP5354	KP5554

### Side Panel

- Plain steel panel (cannot be used with Cover Panels)
- Heights: 33U, 36U, 42U, 45U, 47U and 54U
- Depths: 450mm and 600mm

Description	Order Code
33U x 450mm	KP5633
33U x 600mm	KP5733
36U x 450mm	KP5636
36U x 600mm	KP5736
42U x 450mm	KP5642
42U x 600mm	KP5742
45U x 450mm	KP5645
45U x 600mm	KP5745
47U x 450mm	KP5647
47U x 600mm	KP5747
54U x 450mm	KP5654
54U x 600mm	KP5754



Order Code – Baying Kits	
Description	Order Code
Baying Kit	KP0236

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



**RAFt™ for Patching Frame**

This RAFt™(Raised Access Floor technology) Assembly can be used for Cannon Patching Frame:

- 800mm wide x 450mm deep
- 800mm wide x 600mm deep

Each RAFt™ Supplied with two RAFt Braces (RAFt Braces depicted in purple).

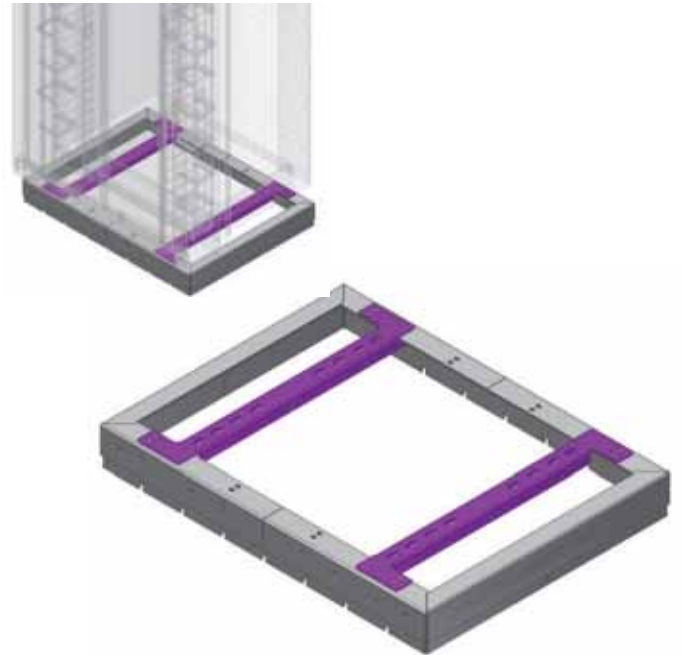
**Finish**

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Other colours available on request.

**Order Codes**

Description	Order Code
800mm x 450/600mm	435B02806021

For further details on the benefits of the RAFt™ System see RAFt™ Section 6.0



**RAFt™ Base Brush Entry for Patching Frame**

The RAFt™ Base Brush Entry can be used in conjunction with the Cannon Patching Frame RAFt™ to provide air management at the base of the Patching Frame.

The RAFt™ Base Brush Entry comprises of a central steel blanking plate and two pieces of brush strip to allow cabling; one piece of brush strip is fitted on each side left and right of the plate.

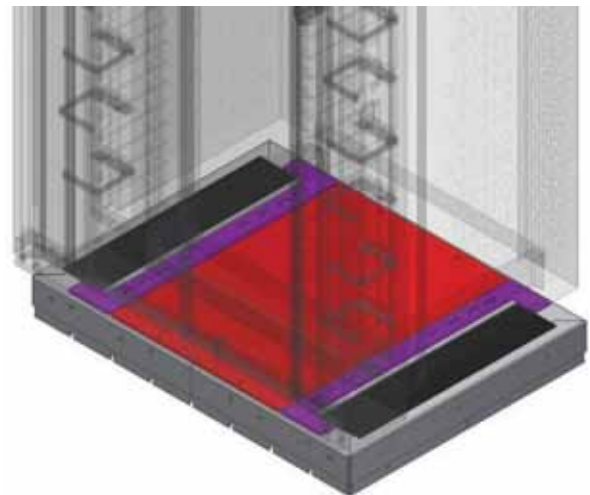
- 800mm wide x 450mm deep
- 800mm wide x 600mm deep

**Finish**

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Other colours available on request.

**Order Codes**

Description	Order Code
The RAFt™ Base Brush	005B60806030





CANNON ZONE 4  
SEISMIC CAB



CANNON ETSI  
CAB EXAMPLE



CANNON HIGH AIR VOLUME  
REAR DOOR FOR HD  
COMPUTE APPLICATIONS

Please contact the Cannon Sales Team for further details on Seismic, ETSI or CoolCAB products.

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

T: +44(0)1425 632600 | CANNONTECH.CO.UK | SALES@CANNONTECH.CO.UK

## CANNON SEISMIC

Cannon Seismic 19" rack cabinets are the answer for installations where shock and vibration are factors. This includes earthquake zones, transportation (rail and sea) and high vibration environments such as power plants and airports. Seismic enclosures protect your communications and electronics by providing superior frame strength and rigidity.

## CHARACTERISTICS

The Cannon Seismic Cabinet consists of:

- Heavy steel welded frame
- Hinged locking perforated front & rear doors
- Side panels: inset and screw mounted
- Top: removable and perforated panel
- Fully certified by 'UL' laboratories for conformance to NEBS Bellcore's Zone 4. Earthquake requirements of GR-63-CORE, Issue 1; copies of the full report are available upon request.

Although extremely robust, is of a modern design and will accept a wide range of Cannon Accessories.

## Features

- Tested to NEBS Zone 4 GR-63-CORE via UL Labs
- Weight loads up to 1432 lbs (40lbs on top of frame to simulate overhead cable weight). (650 kg)
- Welded 11 gauge (3mm) steel enclosures
- Enclosure sizes offering 45U of usable space
- 600mm and 800mm enclosure widths
- Overall heights: 77" (1958mm) (45U)

## COMPRISING

- Welded structure manufactured from high-strength 3mm BS1449 CR4 Steel with multiple support members
- Perforated doors front/rear manufactured from sheet steel with stiffening frame, supplied with key locking and hinges
- Sturdy panels for high structural stiffness
- Base cable entry with bolt down points
- Removable roof panel with perforated area for exhaust air flow & cable entry cut-outs
- 2 pairs of front 19" standard rack profiles
- Earth Bus Bar, Fibre Wiring Duct and Cover



## PAINT FINISH

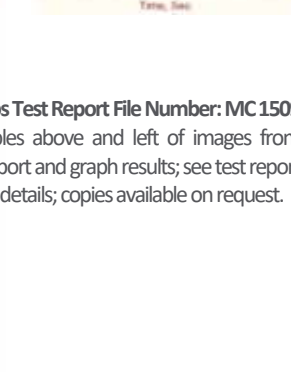
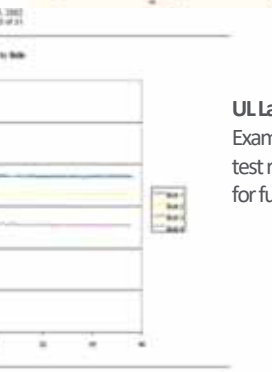
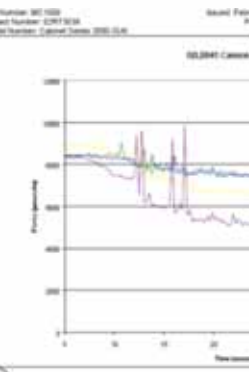
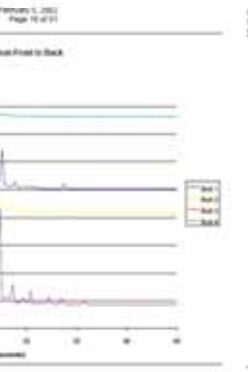
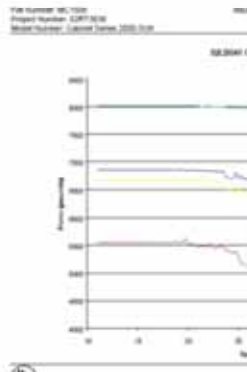
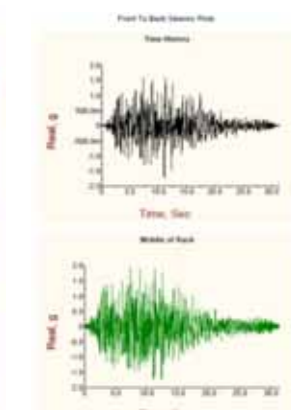
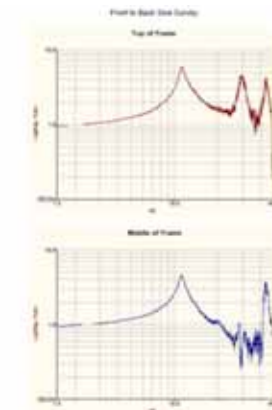
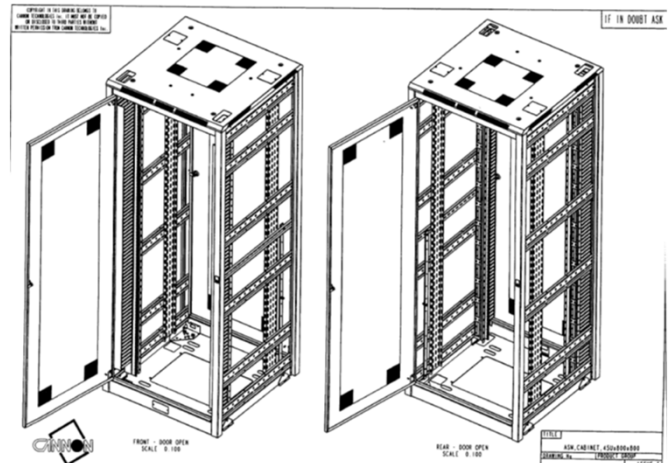
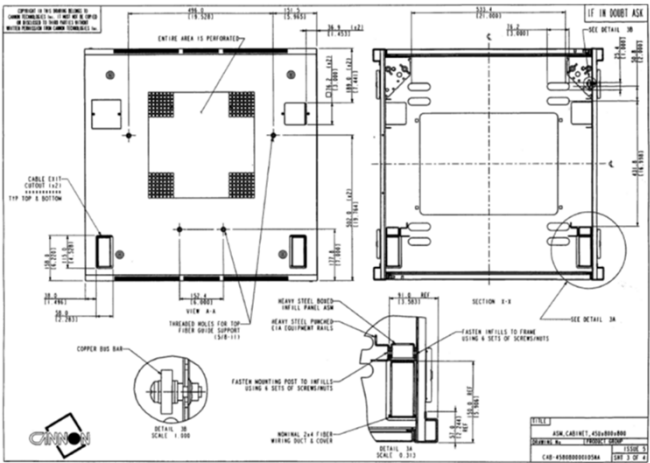
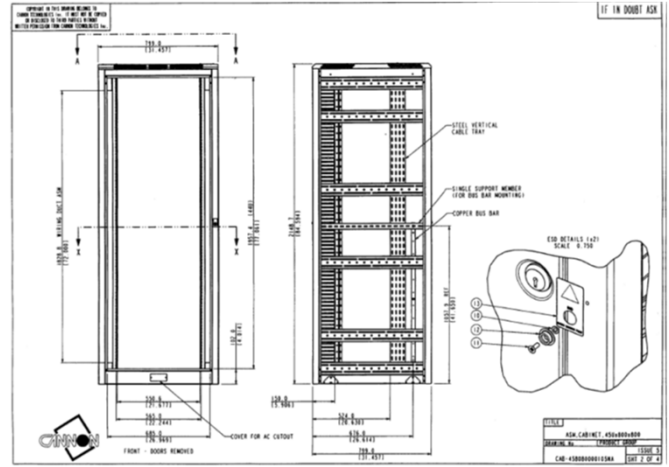
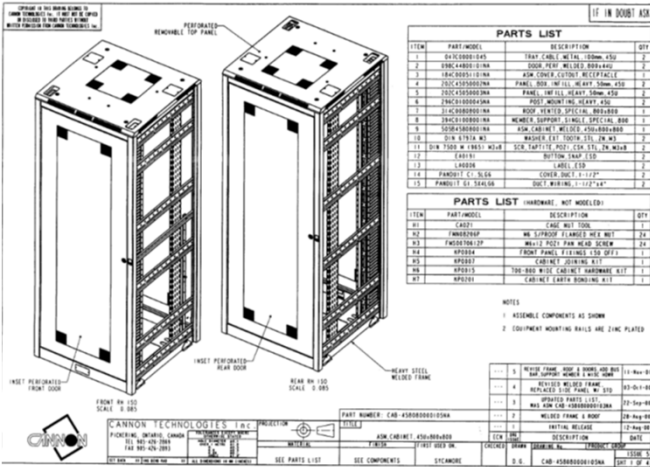
Standard epoxy polyester powder coating.

- Standard: Powder painted Black to RAL9005 or Grey White RAL 9002.
- Other colours available on request.

Height U	Width mm	Height mm	Depth mm	CANNON NEBS 2000 SERIES ZONE 4
42	600	1825	800	<a href="#">CAB-426080000105NA</a>
42	600	1825	1000	<a href="#">CAB-426099000105NA</a>
42	800	1825	800	<a href="#">CAB-428080000105NA</a>
42	800	1825	1000	<a href="#">CAB-428099000105NA</a>
45	600	1958	800	<a href="#">CAB-456080000105NA</a>
45	600	1958	1000	<a href="#">CAB-456099000105NA</a>
45	800	1958	800	<a href="#">CAB-458080000105NA</a>
45	800	1958	1000	<a href="#">CAB-458099000105NA</a>

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





UL Labs Test Report File Number: MC1509  
Examples above and left of images from test report and graph results; see test report for full details; copies available on request.

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



**CHARACTERISTICS**

The profiles used for uprights and crosspieces are unique; manufactured from high-strength low-alloy sheet steel (HSLA), secured with continuous laser welding and free of sharp edges.

The base and top sections are assembled from a single piece box-type structure, manufactured from press-set, laser-MIG hybrid welded profiles manufactured from high-strength low-alloy sheet steel (HSLA). The frame corners are manufactured with orthogonal joints, laser welded to vertical upright rails and horizontal rails for attachment to roof and base assemblies.

Just 8 high resistance screws are required to assemble the frame structure together, whilst being held in position by 2 pins, allowing ease of assembly.

Panels are manufactured from sheet steel with rounded folding for higher resistance.

**IP SEALS**

Generally, the enclosure has a seal applied around the perimeter of all closing panels (doors, side panels, rear panels, covers).

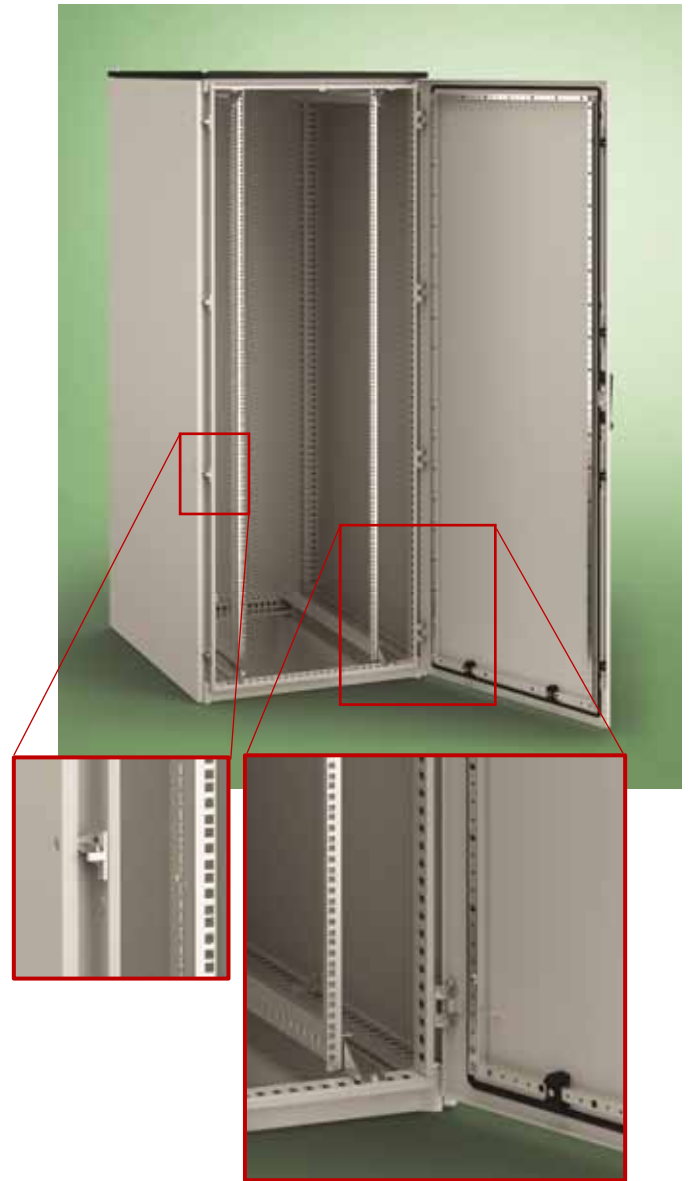
**POLYURETHANE SEAL**

HF1 fire resistance (as per standard UL94).

Optimal environmental conditions for use: temperature:  
-40°C < T < 100°C.

**COMPRISING**

- Structure manufactured from high-strength low-alloy sheet steel (HSLA)
- Reversible blank or glazed door manufactured from sheet steel with stiffening frame, supplied with double-bar lever-operated locking system, 3 to 5 locking points and hinges
- Locking system with a unique lever mechanism, exclusive design and 3-point locking for H=1400 to 1600, 4-point locking for H=1800 to 2000 and 5-point locking for H=2200+
- Possible to mount different inserts and convenient lock release system of the slave door of the double door cabinet
- Reversible door with stiffening frame
- Sturdy panels for high structural stiffness
- Modular bottom cable entry with adjustable base plates and seal
- Removable roof panel
- Screwed rear panel
- 1 pair of front 19" rack profiles.



**PAINT FINISH**

Standard epoxy polyester powder coating.

- Structure: RAL7035 smooth finish.
- Door and rear panel: RAL7035 textured finish.
- Roof: RAL9011 textured finish.

**PROTECTION RATING**

IP55 complying with EN60529.

- NEMA 12; complying with NEMA 250.
- Degree of protection is delivered by the two component polyurethane foam seal.
- Impact resistance IK10 complies with EN62262.

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

Notes:

- Further dimensions available on request.
- Side panels APFI to be ordered separately

ORDER CODES					
Height U	Width mm	Height mm	Depth mm	With Plain Door	With Glazed Door
24	600	1200	600	APRO061206PR	APRO061206PV
33	600	1600	600	APRO061606PR	APRO061606PV
38	600	1800	600	APRO061806PR	APRO061806PV
42	600	2000	600	APRO062006PR	APRO062006PV
47	600	2200	600	APRO062206PR	APRO062206PV
24	600	1200	800	APRO061208PR	APRO061208PV
33	600	1600	800	APRO061608PR	APRO061608PV
38	600	1800	600	APRO061808PR	APRO061808PV
42	600	2000	800	APRO062008PR	APRO062008PV
47	600	2200	800	APRO062208PR	APRO062208PV
24	600	1200	1000	APRO061210PR	APRO061210PV
33	600	1600	1000	APRO061610PR	APRO061610PV
38	600	1800	1000	APRO061810PR	APRO061810PV
42	600	2000	1000	APRO062010PR	APRO062010PV
47	600	2200	1000	APRO062210PR	APRO062210PV
24	800	1200	600	APRO081206PR	APRO081206PV
33	800	1600	600	APRO081606PR	APRO081606PV
38	800	1800	600	APRO081806PR	APRO081806PV
42	800	2000	600	APRO082006PR	APRO082006PV
47	800	2200	600	APRO082206PR	APRO082206PV
24	800	1200	800	APRO081208PR	APRO081208PV
33	800	1600	800	APRO081608PR	APRO081608PV
38	800	1800	800	APRO081808PR	APRO081808PV
42	800	2000	800	APRO082008PR	APRO082008PV
47	800	2200	800	APRO082208PR	APRO082208PV
24	800	1200	1000	APRO081210PR	APRO081210PV
33	800	1600	1000	APRO081610PR	APRO081610PV
38	800	1800	1000	APRO081810PR	APRO081810PV
42	800	2000	1000	APRO082010PR	APRO082010PV
47	800	2200	1000	APRO082210PR	APRO082210PV
42	800	2000	1200	APRO082012PR	APRO082012PV
47	800	2200	1200	APRO082212PR	APRO082212PV



42U x 800W x 1000D ABACUS PRO IP55 shown above configured with front door/rear panel, roof, base plates, 19" front & side panels

42U x 800W x 1000D ABACUS PRO IP55 shown below configured with front/rear doors, roof, base plates, forced ambient air cooling fans/filters, 19" front/rear & side panels



FORCED AMBIENT AIR COOLING FANS or ACU - ORDER CODES				
Height U	Width mm	Height mm	Depth mm	IP55 Frame, Top Cover, Base Entry, 19" Front/Rear with Infills (800W), Plain Doors Front & Rear, Side panels, 100mm High Plinth & Forced air cooling with thermostat (230VAC) or *600W ACU
24	600	1200	800	<b>ABACUS246080329601</b>
47	600	2200	800	<b>ABACUS476080329601</b>
24	800	1200	1000	ABACUS248099400201
42	800	2000	800	ABACUS428080365901
42	800	2000	1000	ABACUS428099400201
42	800	2000	1000	ABACUS428099365901*

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

**EMC SOLUTIONS - ENUX**

The EC Directive on electromagnetic compatibility applies to equipment and units that can generate/receive electromagnetic waves and liable to cause interferences, altering the correct functioning of electronic equipment installed in the cabinets.

Our products, not being a source of electromagnetic waves, go beyond the dispositions of the Directive, but they can act as a barrier of the electromagnetic waves which propagate from the internal and external source: this allows a significant damping of the electromagnetic field strength (both the electric and the magnetic components of the field) and, as a consequence, of the disturbance that they cause to the equipment.

**BENEFITS**

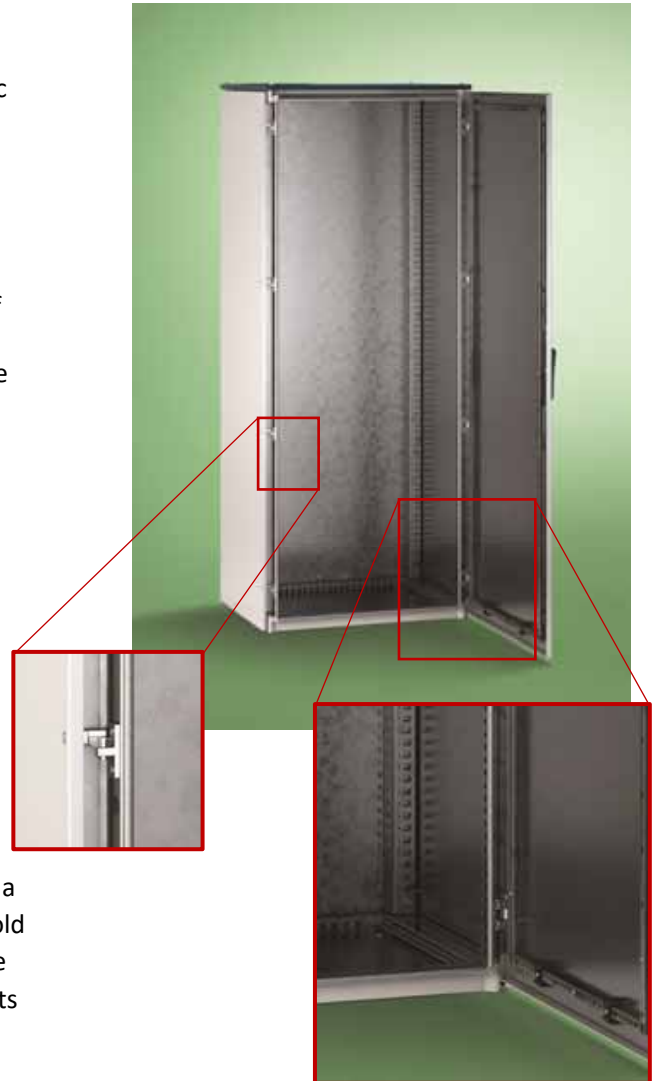
- Structural features - High protection
- Constructive concepts and performing materials - Customer support to comply with the Directive
- Variety of solutions, cabinets and enclosures - Flexibility
- Compliance to the industry standards – Safety

**CHARACTERISTICS**

The profile used for uprights and crosspieces is unique, manufactured from high-strength low-alloy sheet steel, closed with continuous welding and free of sharp edges. The bottom is a single piece with box type structure manufactured from press-fold welded profiles of high-strength low-alloy sheet steel. The frame corners are manufactured in a special steel with orthogonal joints laser welded to vertical upright rails and horizontal rails for the roof and bottom. Only 8 high-strength low-alloy screws are necessary to mount the structure, while two position pins allow the easy mounting of the two parts of the joint.

**COMPRISING**

- Structure manufactured from high-strength low-alloy sheet steel (HSLA)
- Front door manufactured from galvanised sheet steel with stiffening frame, supplied with double-bar lever-operated locking system, 3 to 5 locking points and hinges. Painted on external face only.
- Locking system with a unique lever mechanism, exclusive design and 3-point locking for H=1400 to 1600, 4-point locking for H=1800 to 2000 and 5-point locking for H=2200+
- Single galvanised base plates and seal
- Removable roof panel
- Screwed rear panel, galvanised steel and painted externally
- Order Side Panels and 19" rack profiles separately – **see page 1.22/1.24**



**PAINT FINISH**

Standard epoxy polyester powder coating.

- Structure: Galvanised steel non painted.
- Door and rear panel: RAL7035 textured finish on external face.
- Roof: RAL5020 textured finish on external face.

**PROTECTION RATING**

IP55 complying with EN60529.

- NEMA 12; complying with NEMA 250.
- Degree of protection is delivered by the two component polyurethane foam seal.
- Impact resistance IK10 complies with EN62262.

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

ORDER CODES				
Height U	Width mm	Height mm	Depth mm	With Plain Door/Rear Panel
24	600	1200	600	ENUX061206PRZ
33	600	1600	600	ENUX061606PRZ
38	600	1800	600	ENUX061806PRZ
42	600	2000	600	ENUX062006PRZ
47	600	2200	600	ENUX062206PRZ
24	600	1200	800	ENUX061208PRZ
33	600	1600	800	ENUX061608PRZ
38	600	1800	600	ENUX061808PRZ
42	600	2000	800	ENUX062008PRZ
47	600	2200	800	ENUX062208PRZ
24	600	1200	1000	ENUX061210PRZ
33	600	1600	1000	ENUX061610PRZ
38	600	1800	1000	ENUX061810PRZ
42	600	2000	1000	ENUX062010PRZ
47	600	2200	1000	ENUX062210PRZ
24	800	1200	600	ENUX081206PRZ
33	800	1600	600	ENUX081606PRZ
38	800	1800	600	ENUX081806PRZ
42	800	2000	600	ENUX082006PRZ
47	800	2200	600	ENUX082206PRZ
24	800	1200	800	ENUX081208PRZ
33	800	1600	800	ENUX081608PRZ
38	800	1800	800	ENUX081808PRZ
42	800	2000	800	ENUX082008PRZ
47	800	2200	800	ENUX082208PRZ
24	800	1200	1000	ENUX081210PRZ
33	800	1600	1000	ENUX081610PRZ
38	800	1800	1000	ENUX081810PRZ
42	800	2000	1000	ENUX082010PRZ
47	800	2200	1000	ENUX082210PRZ
42	800	2000	1200	ENUX081206PRZ
47	800	2200	1200	ENUX081606PRZ

**EMC - ELECTROMAGNETIC COMPATIBILITY (DIRECTIVE 2014/30/UE)**

The “Electromagnetic compatibility” Directive concerns components that emit electromagnetic (EM) waves. Our products - as they are not EM wave sources - are not subject to the above EMC Directive, however they can provide a barrier for the EM waves that transmit from internal and external sources. This allows a significant reduction of the intensity of these EM waves and, consequently, the disturbance that they cause to equipment installed within the assembly.

The standard cabinet made of painted steel is able to provide an average attenuation of EM waves taking advantage of its conductivity characteristics and, in addition, through the equipotential earthing of the different components (plate, panels, door, structure).

In particular, the EMC cabinet, thanks to its unique structural characteristics listed below, can SIGNIFICANTLY reduce the intensity of the electromagnetic field in the electric and the magnetic component, and thus provide appropriate support to the customer in complying with the Electromagnetic Compatibility Directive.

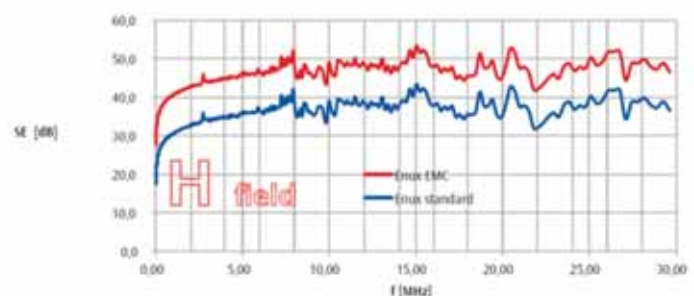
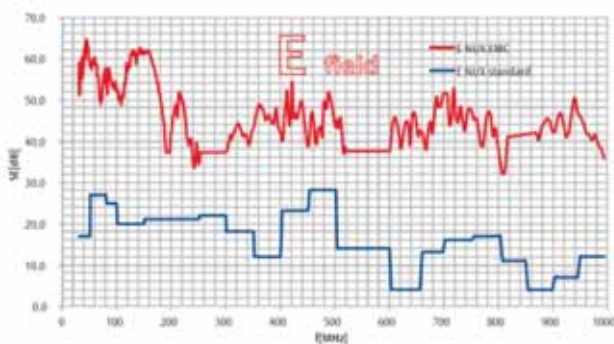
EMC testing is not required when:

- The assembly does not contain electrical equipment
- The installed electronic equipment is CE-marked.

Stainless steel cabinets can also effectively reduce electromagnetic waves.

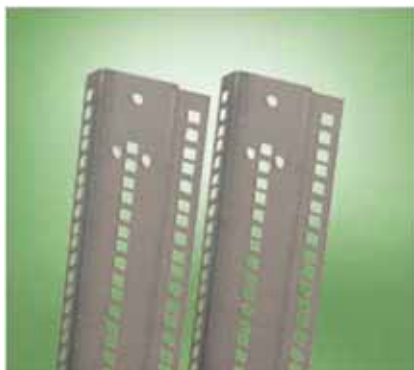
The tests on the EMC version of E-NUX EMC range products are conducted at the NEMKO laboratory complying with EN61000-5-7.

- EMC GASKETS: Made of 3 parts: an EPDM core (ensuring the protection rating), a metal fabric coating (that ensures dielectric continuity between the structure and panels) and non-woven double-sided tape, very tough and applied on one side (ensuring adherence and resistance). Optimal environmental conditions for use: temperature: -40°C < T < 100°C.
- Further dimensions available on request.
- **EMC FANS AND FILTER GRIDS ON REQUEST**
- Side panels APFI to be ordered separately



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





**MATERIALS AND FINISH:**

- Zinc sheet steel
- Supplied in pairs

ORDER CODES	
HEIGHT U	19" RACK RAILS (PAIR)
24	AEMK241200
33	AEMK331600
38	AEMK381800
42	AEMK422000
47	AEMK472200



**"L-SHAPED" 19" RAILS**

- Manufactured from zinc sheet steel.
- Supply includes: 2 pieces.

ORDER CODES	
Height U	19" L-Rack Rails (Pair)
24	AERL241200
33	AERL331600
38	AERL381800
42	AERL422000
47	AERL472200



**DEPTH RAILS**

- Rails for the mounting of 19" rack uprights on ABACUS PRO IP55 cabinet W=800mm.
- Manufactured from zinc sheet steel.
- Supply includes: 4 pieces

DEPTH	PART CODE
600	AEP0094
800	AEP0095
1000	AEP0096
1200	AEP0097



**BRACKETS**

**PART CODE: AEP0070**

- Brackets manufactured from zinc sheet steel, used for the mounting of 19" uprights on cabinets W=600mm.
- Supply includes: 4 pieces



**WHEELS**

**PART CODE: AERU-001**

- High-quality polyamide wheels
- Load capacity: 80kg/wheel
- Supply includes: 4 pieces
- (2 wheels with brake and 2 rotating wheels)



**LEVELLING FEET**

**PART CODE: AEPX-001**

- Manufactured from PVC with screws made from zinc steel.
- Supply includes: 4 pieces with mounting accessories



**EYEBOLTS**

**PART COD: WTGS-001**

- M12 eyebolts
- Manufactured from zinc passivated steel.
- Supply includes: 4 pieces .



**POWER DISTRIBUTION BOX**

**PART CODE: AEP0600**

- Enclosure manufactured from mild steel designed for the assembly of components and modular equipments.
- Consisting of a fixed part including DIN rail and a shell with adjustable opening.

**CHARACTERISTICS**

- Suitable for nr. 4 pre-punched cable entry.
- Box dimensions: height 3U
- Colour: RAL7035



### IP55 / EMC SIDE PANELS

- Manufactured from sheet steel
- Assembled with screws.
- Paint finish: Standard epoxy polyester powder coating (external face only on EMC version)
- Colour: RAL7035 textured finish.
- Supply includes: 1 pair with mounting accessories.

### JOINING KIT EUKU-002EMC

Used to join together ENUX EMC Cabinets

**Includes:**

- 8 connection blocks
- Conductive, shielding and adhesive gasket
- Mounting accessories

HEIGHT U	DEPTH	PART CODE IP55	PART CODE EMC
24	600	APFI060120M	EUFI-060120EMC
33	600	APFI060160M	EUFI-060160EMC
38	600	APFI060180M	EUFI-060180EMC
42	600	APFI060200M	EUFI-060200EMC
47	600	APFI060220M	APFI-060220EMC
24	800	APFI080120M	EUFI-080120EMC
33	800	APFI080160M	EUFI-080160EMC
38	800	APFI080180M	EUFI-080180EMC
42	800	APFI080200M	EUFI-080200EMC
47	800	APFI080220M	EUFI-080220EMC
24	1000	APFI100120M	EUFI-100120EMC
33	1000	APFI100160M	EUFI-100160EMC
38	1000	APFI100180M	EUFI-100180EMC
42	1000	APFI100200M	EUFI-100200EMC
47	1000	APFI100220M	EUFI-100220EMC
24	1200	APFI120120M	EUFI-120120EMC
33	1200	APFI120160M	EUFI-120160EMC
38	1200	APFI120180M	EUFI-120180EMC
42	1200	APFI120200M	EUFI-120200EMC
47	1200	APFI120220M	EUFI-120220EMC



### MODULAR PLINTH APZE

- Modular plinth consisting of corner pieces and side/front cross/lateral pieces
- Manufactured from sheet steel.
- Paint finish: Standard epoxy polyester powder coating.
- Colour: RAL9011 textured finish.
- Supply includes: corner pieces (4 pieces) with PVC front cover caps and mounting accessories, Front cross/lateral pieces (2 pieces/kit).

FLAT PACKED	ASSEMBLED	DESCRIPTION
APZE-A100	APZE-A100M	100mm HIGH CORNER PIECES ( 4 PCS)
APZE-A200	APZE-A200M	200mm HIGH CORNER PIECES ( 4 PCS)
APZE-T0600	APZE-T0600M	600mm W x 100mm H - CROSS/LATERAL SIDE PANELS (2 PCS)
APZE-T0800	APZE-T0800M	800mm W x 100mm H - CROSS/LATERAL SIDE PANELS (2 PCS)
APZE-T1000	APZE-T1000M	1000mm W x 100mm H - CROSS/LATERAL SIDE PANELS (2 PCS)
APZE-T1200	APZE-T1200M	1200mm W x 100mm H - CROSS/LATERAL SIDE PANELS (2 PCS)
APZE-T0600D	APZE-T0600DM	600mm W x 200mm H - CROSS/LATERAL SIDE PANELS (2 PCS)
APZE-T0800D	APZE-T0800DM	800mm W x 200mm H - CROSS/LATERAL SIDE PANELS (2 PCS)
APZE-T1000D	APZE-T1000DM	1000mm W x 200mm H - CROSS/LATERAL SIDE PANELS (2 PCS)
APZE-T1200D	APZE-T1200DM	1200mm W x 200mm H - CROSS/LATERAL SIDE PANELS (2 PCS)

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



**HANDLES**

- Further to our standard locking system, we offer a wide range of handles with:
  - key-lock insert
  - pad-locking option
  - push-button release or special inserts.
- Please contact CANNON for further details.

PART CODE	IMAGE	DESCRIPTION
WE520		INSERT Ø 3 MM
WE522		KEY Ø 3 MM
WE530		INSERT Ø 5 MM
WE532		KEY Ø 5 MM
WE540		INSERT □ 7 MM
WE542		KEY □ 7 MM
WE550		INSERT Δ 7 MM
WE552		KEY Δ 7 MM
WE560		INSERT Δ 8 MM
WE562		KEY Δ 8 MM
WE570		FIAT INSERT
WE572		FIAT KEY



**GROUNDING CABLES**

**PART CODE: AEP0121**

- Yellow/green grounding cables section 6mm<sup>2</sup>
- Length 150mm
- Complete with ring lugs Ø5mm.
- Supply includes: 10 pieces/kit



**IP55 THERMAL MANAGEMENT OPTIONS**

**AIR-CONDITIONED UNIT CABINET**

If specific environments or air-conditioned data rooms are not available for your application, then the temperature developed from the server/equipment installed within the rack might be so high that a suitable cooling method will be required.

Several solutions are available including airconditioned units, Filtered Forced ambient air (Positive/Negative), Heat Exchanger, Peltier Thermo Electric Device.

The most proper solution utilises a packaged DX ACU: the IP55 protection rating of the ABACUS PRO Cabinet guarantees the best working conditions for the air conditioner.

ACU's are available from 400W to 4000W of cooling capacity and can be supplied in both side/door-mounting and roof-mounting versions – thus to ensure the optimal cooling of your servers.



**THERMAL MANAGEMENT OPTIONS:**

**THERMOSTATS, HEATERS, FILTER/FILTER FANS**

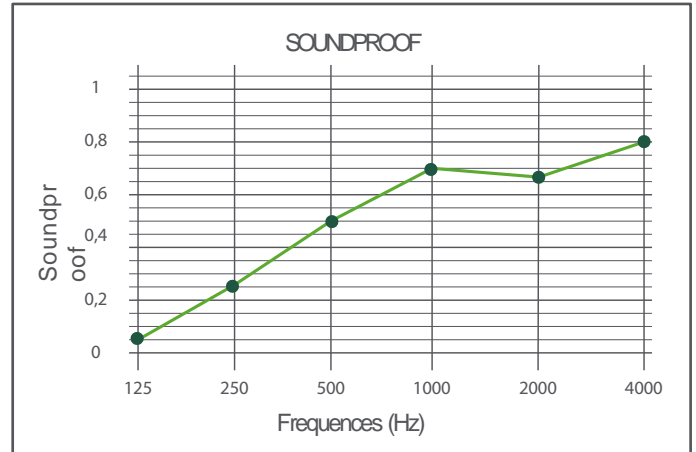
- Please contact CANNON to discuss your thermal management requirements.
- CANNON can assist with calculating the size of ACU, Heater, Fan(s) etc. required.

**ABACUS PRO SOUNDPROOF CABINET**

The increasing density of servers and equipment has led to immense difficulties in heat and noise management, especially when the server cabinet is installed within a work/office environment; where safety regulations limit the acoustic noise level itself.

CANNON can solve your problem by manufacturing soundproof cabinets based on the ABACUS PRO concept - which is already offering as standard a degree of protection from noise – this can be strengthened further by adding an appropriate soundproofing kit.

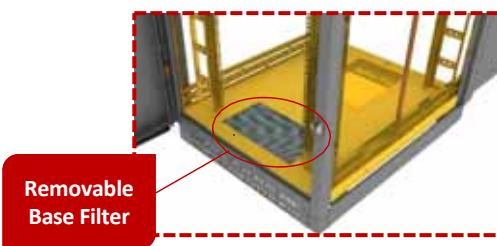
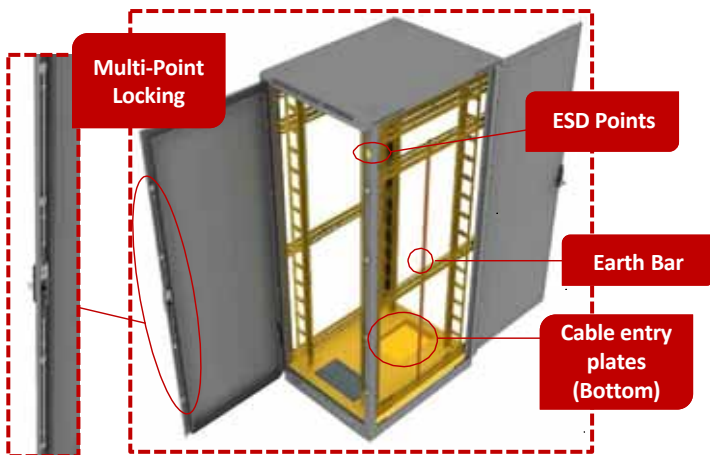
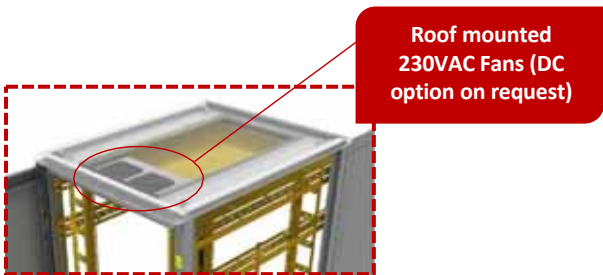
If required, the rack cabinet can be also ventilated or cooled by using specific low-noise fans.



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



**INDEPENDENTLY TESTED**



Cannon EMC\* Cabinets are of advanced design to meet the EU electro-magnetic compatibility regulations, for critical equipment, such as medical, defence or sensitive 'IT'. This cabinet is the ideal way of retro-fitting protection for the system, preventing emissions and protecting against susceptibility.

**MATERIALS AND FINISH:**

- Standard 1: Powder painted Black RAL9005
- Standard 2: Framework painted Dusty Grey RAL7037, Doors & panels painted Grey White RAL9002
- Standard 3 : Powder painted Grey White RAL9002
- Other colours available on request
- Interior zinc plated and colour passivated

**TECHNICAL INFORMATION:**

- Hidden hinges with 180° opening doors
- EMC tests conducted at an independent approved test house to MIL STD 285 clause 4.1.2
- Standard EMC cabinet has an average shielding effectiveness of:
  - 45 dB between 10 MHz to 1 GHz.
  - 63 dB at 100 Mhz

*Accepts the standard range of Cannon accessories*

**MODIFICATIONS:**

- Different heights, widths and depth
- Customised colours and screen print logo, product details etc.
- Seismic, shock, vibration and transportation AV mountings

*The Shielding Effectiveness results are shown in the following g table:*

Frequency MHz	Shielding Effectiveness			
	Right Side	Left Side	Front	Back
0.1	70 dB	71 dB	68 dB	83 dB
0.2	80 dB	80 dB	79 dB	77 dB
1.0	78 dB	82 dB	80 dB	79 dB
10.0	73 dB	76 dB	77 dB	79 dB
30.0	40 dB	55 dB	50 dB	28 dB
70.0	63 dB	61 dB	65 dB	72 dB
100.0	58 dB	70 dB	70 dB	54 dB
400.0	34 dB	54 dB	38 dB	28 dB
1000.0	12 dB	16 dB	27 dB	8 dB



- EMC tests conducted at an independent approved test house to MIL STD 285 clause 4.1.2
- Standard EMC cabinet has an average shielding effectiveness of:
  - 45 dB between 10 MHz to 1 GHz.
  - 63 dB at 100 Mhz
- Copy of report available upon request.



Report No.  
OR613907/001 ISS 01



Complete protection against touch, tools & against dust deposits.



Protection against drops of water falling at up to 15° from the vertical.

Part No. Order Code	U	Height	Width mm	Depth mm	Weight kg
EMC-IP426080	42	2110	600	856	125
EMC-IP428060	42	2110	800	656	125
EMC-IP426099	42	2110	600	1056	130
EMC-IP428080	42	2110	800	856	135
EMC-IP428099	42	2110	800	1056	145
<b>CHARACTERISTICS</b>					
Fan Unit - Cooling Capacity	2 Fans up to 1Kw (depending on environmental conditions)				
Air Flow Rate	200 cfm Max				
Operating Temperature Range	-10°C to +70°C				
Storage Temperature Range	-30°C to +85°C				
Electrical Connection to Fan tray	IEC C14 Inlet				
IP52/EMC Seal	Neoprene with Nickel-Copper fabric				
Surface Resistance	0.09Ohms/ Max average 0.05 Ohms/				
Shielding Effectiveness	Average 45 db from 10 Mhz to 1 Ghz				
RoHS	Compliant				
Base Filter	Grey Reticulated Foam 40PPI 10mm thickness				
<b>CABINET CONSTRUCTION</b>					
Material	Mild Steel BS1449 CR4GP				
Internal (plated)	Zinc & Colour BS 1706 1990 Fe/Zn 5c 2C				
External (painted)	Power paint epoxy polyester 30% gloss level / Cannon texture				



### A STYLISH, COST EFFECTIVE AND SECURE ENCLOSURE

#### STANDARD FEATURES

- Rugged steel construction
- Height: 47U (Others available on request)
- Width: 150mm
- Depth: 300mm
- Glazed double doors with swing handle lock (optional electronic locking)
- Roof has large capacity cable brush glands situated at the on both top surface sides
- Rear and side removable gland plates
- Maximum cable access through base
- Earth cabling kit

#### OPTIONS

- Electronic Locking: 2 & 4 fans – See Page 11.2
- Splice cassette trays & fibre cable management



Front View



Top panel shows left & right hand brush cable entry points.



Front view shows Splice cassettes for reference only

Rear view shows rear & side panel removable gland plates.

#### FINISH

Standard: Powder painted Black RAL9005 or Grey White RAL9002. Other colours available on request; excludes next day service.

#### TECHNICAL INFORMATION

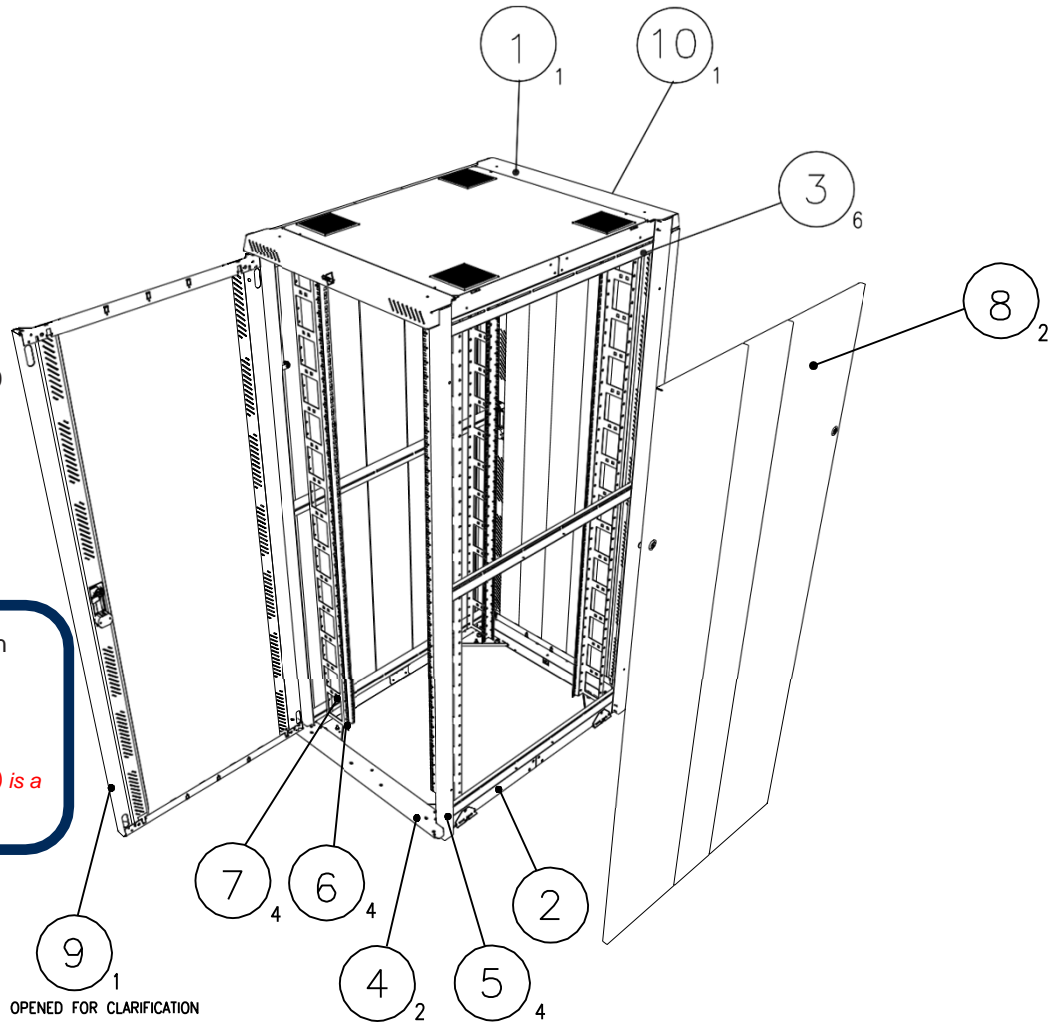
- Manufactured (where applicable) to BS.EN60950 2002, IEC 60297, EIA-310-D, UL94V0
- Load rating: 600kg static (sited directly on floor)

Height	Width	Depth	Part No.	Notes
U	mm	mm	Order Code	
47	1500	300	ODF4715300000101	Excluding splice cassettes/fibre management; supplied separately on request

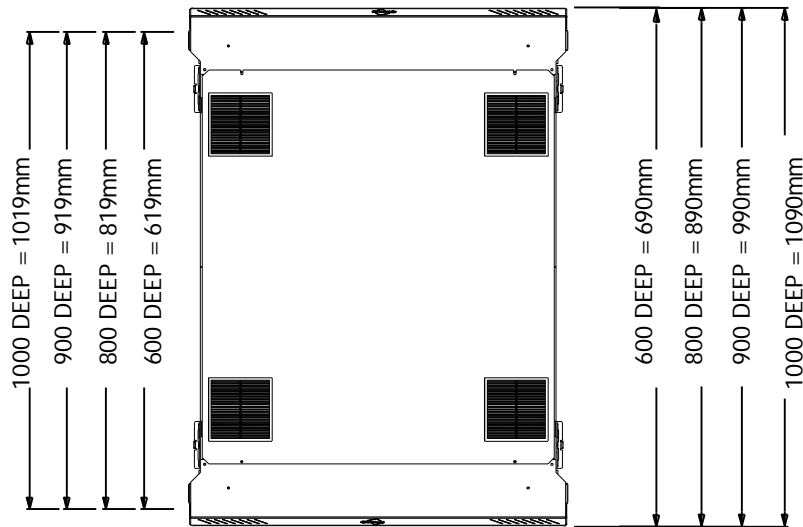


**SMART NET**

1. Top cover assembly
2. Bottom cover assembly
3. Depth support member
4. Cover eyebrow
5. Corner post
6. Mounting post
7. Infill panel (on 700 and 800 wide only)
8. Side panel
9. Front door to suit (open for clarity)
10. Rear door to suit



**SmartNet Depth Measurements**



INTERNAL FRONT DOOR  
TO REAR DOOR DIMENSION

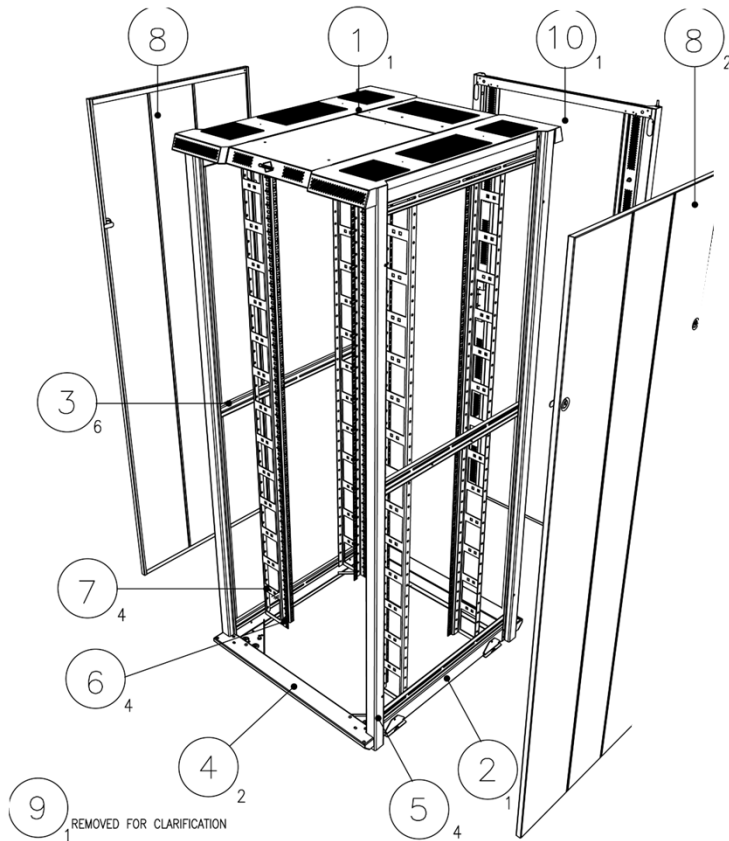
OVERALL SMARTNET CAB DEPTH

**SMART  
CAB/BROADCAST CAB**

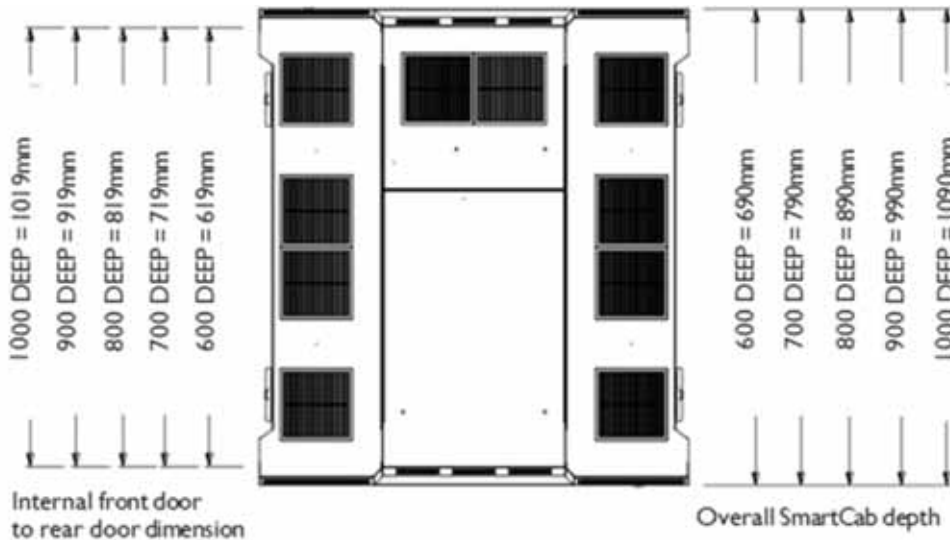
1. Top cover assembly
2. Bottom cover assembly
3. Depth support member
4. Cover eyebrow
5. Corner post
6. Mounting post
7. Infill panel (on 700 and 800 wide only)
8. Side panel
9. Front door or Vertical Extrusion (Broadcast cab) to suit
10. Rear door to suit

Please note numbers shown on the outside of the circle represent the quantity of each item as standard.

**5**<sub>4</sub> *eg. Item 5 (Corner Posts) is a quantity of 4 per cabinet.*



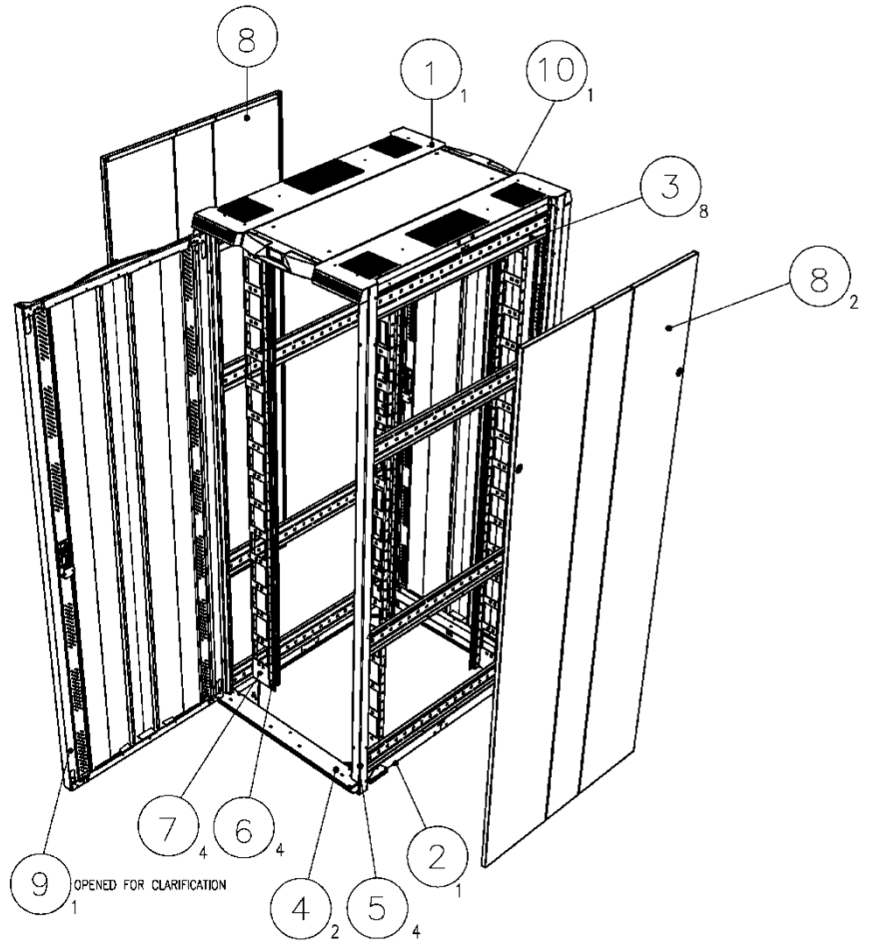
**Cab Depth Measurements**





**SERVERSMART/COLO  
/SERVERSPACE CAB**

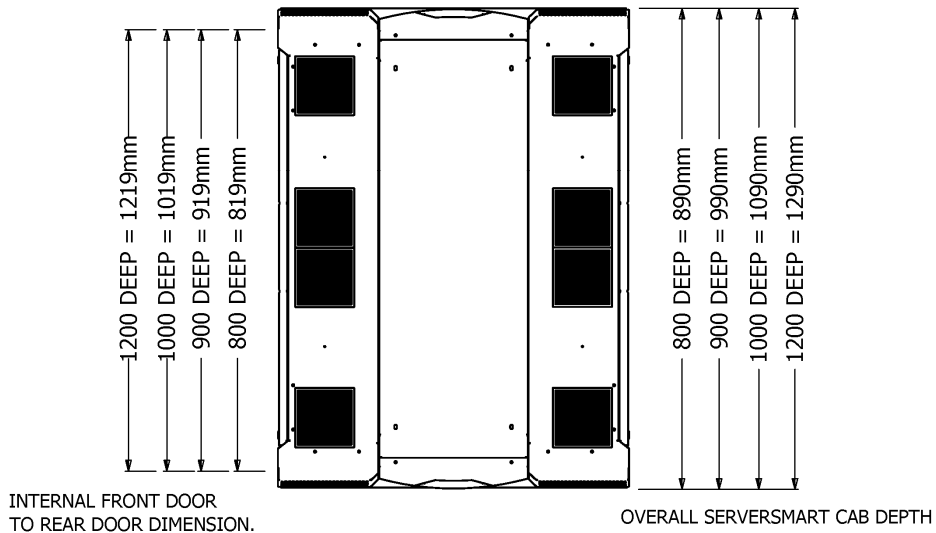
- 1. Top cover assembly
- 2. Bottom cover assembly
- 3. Depth support member
- 4. Cover eyebrow
- 5. Corner post
- 6. Mounting post
- 7. Infill panel (on 700 and 800 wide only)
- 8. Side panel
- 9. Front door(s) to suit
- 10. Rear(s) door to suit



Please note numbers shown on the outside of the circle represent the quantity of each item as standard.

**5**<sub>4</sub> eg. Item 5 (Corner Posts) is a quantity of 4 per cabinet.

**Cab Depth Measurements**



*Dimensions & approximate weights for Cannon SMART Range of 19" Cabinets with doors and side panels fitted.*

Width = 600mm				Width = 700mm				Width = 800mm				
Cab Size	Height (cab only)	Weight (kg)	Pallet Dimensions (mm)	Cab Size	Height (cab only)	Weight (kg)	Pallet Dimensions (mm)	Cab Size	Height (cab only)	Weight (kg)	Pallet Dimensions (mm)	
12U 600 x 600	656mm	40	650 x 750	25U 700 x 600	1233mm	64	850 x 750	18U 800 x 800	922mm	76	850 x 950	
12U 600 x 800		60	650 x 950	25U 700 x 800		86	850 x 950	25U 800 x 600		1233mm	85	850 x 750
18U 600 x 600	922mm	49	650 x 750	25U 700 x 900		91	850 x 1150	25U 800 x 800	1322mm		90	850 x 950
18U 600 x 800		69	650 x 950	25U 700 x 1000	97	850 x 1150	27U 800 x 1000	95		850 x 1150		
25U 600 x 600	1233mm	60	650 x 750	33U 700 x 600	1589mm	77	850 x 750	27U 800 x 1200	1589mm	100	850 x 1350	
25U 600 x 800		80	650 x 950	33U 700 x 800		91	850 x 950	33U 800 x 600		85	850 x 750	
25U 600 x 900		85	650 x 1150	33U 700 x 900		96	850 x 1150	33U 800 x 800		95	850 x 950	
25U 600 x 1000		90	650 x 1150	33U 700 x 1000		102	850 x 1150	33U 800 x 900		101	850 x 1150	
27U 600 x 1000	1322mm	92	650 x 1150	42U 700 x 600	1989mm	91	850 x 750	33U 800 x 1000	1767mm	107	850 x 1150	
27U 600 x 1200		95	650 x 1350	42U 700 x 800		102	850 x 950	37U 800 x 1200		119	850 x 1350	
33U 600 x 600	1589mm	72	650 x 750	42U 700 x 900		108	850 x 1150	39U 800 x 1000		1856mm	122	850 x 1150
33U 600 x 800		85	650 x 950	42U 700 x 1000		112	850 x 1150	39U 800 x 1200			134	850 x 1350
33U 600 x 900		90	650 x 1150	45U 700 x 600	97	850 x 750	42U 800 x 600	95	850 x 750			
33U 600 x 1000		95	650 x 1150	45U 700 x 800	111	850 x 950	42U 800 x 800	112	850 x 950			
33U 600 x 1200	1856mm	100	650 x 1350	45U 700 x 900	2003mm	118	850 x 1150	42U 800 x 900	1989mm	119	850 x 1150	
39U 600 x 600		84	650 x 750	45U 700 x 1000		123	850 x 1150	42U 800 x 1000		125	850 x 1150	
39U 600 x 800		93	650 x 950	47U 700 x 600		114	850 x 750	42U 800 x 1200		137	850 x 1350	
39U 600 x 1000		106	650 x 1150	47U 700 x 800		120	850 x 950	45U 800 x 600		111	850 x 750	
39U 600 x 1200	1989mm	119	650 x 1350	47U 700 x 900	2212mm	127	850 x 1150	45U 800 x 800	2003mm	119	850 x 950	
42U 600 x 600		85	650 x 750	47U 700 x 1000		135	850 x 1150	45U 800 x 900		125	850 x 1150	
42U 600 x 800		95	650 x 950	52U 700 x 600		126	850 x 750	45U 800 x 1000		130	850 x 1150	
42U 600 x 900		101	650 x 1150	52U 700 x 800		138	850 x 950	45U 800 x 1200		142	850 x 1350	
42U 600 x 1000	2003mm	108	650 x 1150	52U 700 x 900	2434mm	146	850 x 1150	47U 800 x 600	2212mm	115	850 x 750	
42U 600 x 1200		121	650 x 1350	52U 700 x 1000		153	850 x 1150	47U 800 x 800		124	850 x 950	
45U 600 x 600		91	650 x 750					47U 800 x 900		131	850 x 1150	
45U 600 x 800		104	650 x 950					47U 800 x 1000		136	850 x 1150	
45U 600 x 900	2212mm	110	650 x 1150			47U 800 x 1200	148	850 x 1350				
45U 600 x 1000		115	650 x 1150			52U 800 x 600	134	850 x 750				
45U 600 x 1200		228	650 x 1350			52U 800 x 800	143	850 x 950				
47U 600 x 600		2434mm	97	650 x 750			52U 800 x 900	151	850 x 1150			
47U 600 x 800	112		650 x 950			52U 800 x 1000	156	850 x 1150				
47U 600 x 900	119		650 x 1150			52U 800 x 1200	165	850 x 1350				
47U 600 x 1000	126		650 x 1150			54U 800 x 1200	170	850 x 1350				
47U 600 x 1200	2434mm	139	650 x 1350									
52U 600 x 600		114	650 x 750									
52U 600 x 800		129	650 x 950									
52U 600 x 900		137	650 x 1150									
52U 600 x 1000	145	650 x 1150										
52U 600 x 1200	158	650 x 1350										

2 Cell Compartment					3 Cell Compartment					4 Cell Compartment				
Cab Size (H x W x D)			Part Code	Weight (kg)	Cab Size (H x W x D)			Part Code	Weight (kg)	Cab Size (H x W x D)			Part Code	Weight (kg)
U	mm	mm			U	mm	mm			U	mm	mm		
42	600	800	COL2426080	135	42	600	800	COL3426080	140	42	600	800	COL4426080	145
		900	COL2426090	140			900	COL3426090	145			900	COL4426090	150
		1000	COL2426099	147			1000	COL3426099	152			1000	COL4426099	157
		1200	COL2426012	156			1200	COL3426012	161			1200	COL4426012	166
42	800	800	COL2428080	151	42	800	800	COL3428080	156	42	800	800	COL4428080	161
		900	COL2428090	156			900	COL3428090	161			900	COL4428090	166
		1000	COL2428099	163			1000	COL3428099	168			1000	COL4428099	173
		1200	COL2428012	172			1200	COL3428012	177			1200	COL4428012	182
47	600	800	COL2476080	152	47	600	800	COL3476080	157	47	600	800	COL4476080	162
		900	COL2476090	157			900	COL3476090	162			900	COL4476090	164
		1000	COL2476099	164			1000	COL3476099	169			1000	COL4476099	174
		1200	COL2476012	173			1200	COL3476012	178			1200	COL4476012	183
47	800	800	COL2478080	164	47	800	800	COL3478080	169	47	800	800	COL4478080	174
		900	COL2478090	169			900	COL3478090	174			900	COL4478090	179
		1000	COL2478099	176			1000	COL3478099	181			1000	COL4478099	186
		1200	COL2478012	185			1200	COL3478012	190			1200	COL4478012	195

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



## MINI CAB II

PAGE 2.0

### STANDARD FEATURES

- Heights: 12U to 21U
- Width: 600mm
- Depth: 600mm
- Perforated front door & plain rear door
- Edge Vent Roof panel
- Maximum cable access through base
- Load rating: 400kg static (sited directly on floor)



## MINI CAB

PAGES 2.1

### STANDARD FEATURES

- Heights: 6U to 21U
- Width: 516mm
- Depth: 525mm
- Glazed, Perforated or Plain front door options
- Edge Vent Roof panel
- Lift off rear panel
- Load rating: 150kg static



## WALL MOUNT BOX

PAGES 2.2

### STANDARD FEATURES

- Heights: 6U to 21U
- Width: 600mm
- Depth: 600mm
- Glazed, Perforated & Plain front door options
- Edge Vent Roof panel with entry cable brush glands
- Removable Side Panels
- Four Adjustable 19" mounting posts



# MINI CAB & WMB OVERVIEW

## DATA CENTRE INFRASTRUCTURE



### WALL MOUNT BOX

PAGES 2.3/2.4

#### STANDARD FEATURES

- Heights: 6U to 21U
- Two widths: 600 & 700 width option
- Depths: 400mm & 600mm
- Two 19" fixed 19" mounting posts
- Fixed Sides
- Roof panel with entry cable brush moulding
- Choice of door – Perspex/Perforated/Plain Steel



### HINGED WALL MOUNT BOX

PAGES 2.5

#### STANDARD FEATURES

- Heights: 6U to 21U
- Hinged section allowing rear equipment access & 19" interconnection
- Width: 557mm
- Depth: 500mm
- Adjustable 19" rack mounting posts
- Choice of door – Perspex/Perforated/Plain Steel



### IP66 WALL MOUNT BOX

PAGES 2.6

#### STANDARD FEATURES

- IP66 / NEMA 4
- Ik10 Impact resistance
- Heights: 10U to 17U
- Width: 600mm
- Depths: 400mm to 600mm
- Adjustable 19" rack mounting posts
- Removable gland plate



MiniCab II is an elegant and compact floor-standing 19" cabinet to house networking, electronic, communications, cabling equipment

**STANDARD SPECIFICATIONS**

- Heights: 12U to 47U
- Width: 600 & 800mm
- Depth: 600 to 1000mm
- Two removable side panels
- Glass or Perforated front door
- Plain or Perforated rear door
- Transit castors

**OPTIONS/UPGRADES – SEE ACCESSORIES SECTION**

**FINISH**

- Standard: Powder painted Black RAL9005 or Grey White RAL 9002.(Add GW to order code below)
- Additional colours available on request.

**TECHNICAL INFORMATION**

Manufactured (where applicable) to BS.EN60950 2002, IEC 60297, EIA-310-D, UL94V0

Load rating: 600kg



DESCRIPTION	PART CODE
EARTH BONDING KIT	KP0223



Front View showing perforated front



Rear View with door removed for clarity

MINICAB 600 & 800 WIDE				
Height U	Width mm	600 DEEP Order Code	800 DEEP Order Code	1000 DEEP Order Code
12	600	MINI126060	-	-
15	600	MINI156060	-	-
18	600	MINI186060	-	-
21	600	MINI216060	MINI216080	MINI216099
29	600	MINI296060	MINI296080	MINI296099
33	600	MINI336060	MINI336080	MINI336099
42	600	MINI426060	MINI426080	MINI426099
47	600	MINI476060	MINI476080	MINI476099
21	800	MINI218060	MINI218080	MINI218099
29	800	MINI298060	MINI298080	MINI298099
33	800	MINI338060	MINI338080	MINI338099
42	800	MINI428060	MINI428080	MINI428099
47	800	MINI478060	MINI478080	MINI478099

For FLAT PACK versions please replace add FP to order code e.g. Mini Cab 21U 600 x 600 assembled  
**MINI216060 Flat Pack = MINI216060FP**

Perforated Front Door			Plain Rear Door		Glazed Rear Door		Perforated Front Door			Plain Rear Door		Glazed Rear Door	
Height U	Width mm	Part No. Order Code	Part No. Order Code	Part No. Order Code	Height U	Width mm	Part No. Order Code	Part No. Order Code	Part No. Order Code	Height U	Width mm	Part No. Order Code	Part No. Order Code
12	600	215B00600712	099C00600012	CT3000-12SX	21	800	215B00800721	099C00800021	CT3008-21SX				
15	600	215B00600715	099C00600015	CT3000-15SX	29	800	215B00800729	099C00800029	CT3008-29SX				
18	600	215B00600718	099C00600018	CT3000-18SX	33	800	215B00800733	099C00800033	CT3008-33SX				
21	600	215B00600721	099C00600021	CT3000-21SX	42	800	215B00800742	099C00800042	CT3008-42SX				
29	600	215B00600729	099C00600029	CT3000-29SX	47	800	215B00800747	099C00800047	CT3008-47SX				
33	600	215B00600733	099C00600033	CT3000-33SX									
42	600	215B00600742	099C00600042	CT3000-42SX									
47	600	215B00600747	099C00600047	CT3000-47SX									

- Perforated front door included in standard build
- Plain rear door included in standard build
- Optional Glazed front door – specify at the time of ordering

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

Mini Cab is an elegant and compact floor-standing version of the Cannon 3000 Series Wall Mounted Box.

**STANDARD SPECIFICATIONS**

- Six heights: 6U, 9U, 12U, 15U, 18U, 21U
- Width: 516mm
- Depth: 525mm
- Two fixed 19" mounting posts
- Two fixed side panels
- Choice of Perspex, steel or maxi-vent mesh front door – supplied with a cylinder lock
- Two locking and two non-locking castors
- Two 1U transit panels
- Ideal for small spaces

**OPTIONS/UPGRADES – SEE ACCESSORIES SECTION**

**FINISH**

- Standard: Powder painted Black RAL9005 or Grey White RAL 9002.
- Other colours available on request.

**TECHNICAL INFORMATION**

Manufactured (where applicable) to BS.EN60950 2002, IEC 60297, EIA-310-D, UL94V0

Load rating: 150kg



Front View showing glazed front option

AVAILABLE ASSEMBLED OR FLATPACKED

Removable rear panel providing open access to equipment

MINI CAB			
HEIGHT U	WITH PERSPEX DOOR	WITH MAXI-VENT PERFORATED DOOR	WITH PLAIN STEEL DOOR
6	580A06606020-MC	580A06606040-MC	580A06606060-MC
9	580A09606020-MC	580A09606040-MC	580A09606060-MC
12	580A12606020-MC	580A12606040-MC	580A12606060-MC
15	580A15606020-MC	580A15606040-MC	580A15606060-MC
18	580A18606020-MC	580A18606040-MC	580A18606060-MC
21	580A21606020-MC	580A21606040-MC	580A21606060-MC



DESCRIPTION	PART CODE
EARTH BONDING KIT	KP0294

**For FLAT PACK versions please replace the 580A prefix with 520A**  
 e.g. Mini Cab 9U 600 x 600 assembled with glass door 580A09606020-MC Flat Pack = **520A09606020-MC**

# CANNON WALL MOUNTED BOX

## 600MM DEEP SINGLE SECTION WALL MOUNTED BOXES

Single Section (fixed) 3000 Series Wall Mounted Boxes are a true 600mm wide x 600mm deep with removable side panels.

### STANDARD SPECIFICATIONS

- Six heights: 6U, 9U, 12U, 15U, 18U, 21U
- Width: 600mm wide
- Depth: 600mm usable depth (actual overall 625mm)
- Four 19-inch mounting posts
- Two removable side panels
- Choice of glass, steel or maxi-vent mesh front door – supplied with a cylindrical lock

### OPTIONS/UPGRADES – SEE ACCESSORIES SECTION

### FINISH

Standard: Powder painted Black RAL9005 or Grey White RAL9002.  
Other colours available on request.

### QUICK ASSEMBLY

1. Fix top panel to wall with two screws\* (top and bottom covers are identical)
2. Fit 19-inch mounting posts in desired position
3. Assemble bottom cover to sides and fix to wall
4. Fit side panels and door as and when required

\*Fixings depend on the wall constructions and are, therefore, not included.



DESCRIPTION	PART CODE
EARTH BONDING KIT	KP0294



**REMOVABLE  
SIDE  
PANELS**

**AVAILABLE  
ASSEMBLED  
OR FLATPACKED**



ORDER CODES – 600 DEEP			
Height U	With Glass Door	With Perforated Door	With Steel Door
6	510F06606020	510F06606040	510F06606060
9	510F09606020	510F09606040	510F09606060
12	510F12606020	510F12606040	510F12606060
15	510F15606020	510F15606040	510F15606060
18	510F18606020	510F18606040	510F18606060
21	510F21606020	510F21606040	510F21606060

For ASSEMBLED versions please replace the 510F prefix with 510A  
e.g. Wall Box 9U 600 x 600 Flat Pack with glass door 510F09606020 | Assembled = [510A09606020](#)

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

Single section (fixed) 3000 Series Wall Mounted Boxes will grace any installation. Modern and stylish soft line appearance.

### STANDARD SPECIFICATIONS

- Six heights: 6U, 9U, 12U, 15U, 18U, 21U
- **\*\*\*12U Flat packed variants available on XPRESS delivery service for 1 to 3 working day delivery.**
- Width: 516mm
- Two depths: 400mm nominal to door (425mm overall), 600mm nominal to door (625mm overall)
- Two fixed 19" mounting posts
- Two fixed side panels
- Choice of perspex, steel or maxi-vent mesh front door - supplied with a cylinder lock

### OPTIONS/UPGRADES - SEE ACCESSORIES SECTION

### FINISH

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Other colours available on request.



### QUICK ASSEMBLY:

1. Fix top panel to wall with two screws\* (top and bottom covers are identical)
2. Hook sides to top cover and fix with screws and nuts included (sides are identical)
3. Assemble bottom cover to sides and fix to wall with one centre screw\*
4. Fit 19" mounting posts in desired position

Maximum load capacity is 60kg subject to fixings and wall conditions. Upgrade kits available for heavier loads. \*Fixings depend on the wall constructions and are therefore, not included.

ORDER CODES – 425 DEEP				
Height U	With Perspex Door	With Perforated Door	With Steel Door	No Door
6	520A06604020	520A06604040	520A06604060	520A06604000
9	520A09604020	520A09604040	520A09604060	520A09604000
<b>12***</b>	<b>520A12604020</b>	<b>520A12604040</b>	<b>520A12604060</b>	<b>520A12604000</b>
15	520A15604020	520A15604040	520A15604060	520A15604000
18	520A18604020	520A18604040	520A18604060	520A18604000
21	520A21604020	520A21604040	520A21604060	520A21604000

ORDER CODES – 625 DEEP				
Height U	With Perspex Door	With Perforated Door	With Steel Door	No Door
6	520A06606020	520A06606040	520A06606060	520A06606000
9	520A09606020	520A09606040	520A09606060	520A09606000
<b>12***</b>	<b>520A12606020</b>	<b>520A12606040</b>	<b>520A12606060</b>	<b>520A12606000</b>
15	520A15606020	520A15606040	520A15606060	520A15606000
18	520A18606020	520A18606040	520A18606060	520A18606000
21	520A21606020	520A21606040	520A21606060	520A21606000

DESCRIPTION	PART CODE
EARTH BONDING KIT	KP0294



### Conversion Kit

Conversion kits provide a complete set of components to convert a 600mm deep 3000 Series Wall Mounted Box to a floor standing cabinet.

TO SUIT	PART NO.
6U	KP0270
9U	KP0271
12U	KP0272
15U	KP0273
18U	KP0274
21U	KP0277



CONVERSION KIT

For ASSEMBLED versions please replace the 520A prefix with 580A

e.g. Wall Box 9U 600 x 600 Flat Pack with glass door 520A09606020 | Assembled = **580A09606020**

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



# CANNON WMB – 3000 SERIES

## SINGLE SECTION WALL MOUNTED BOX – NO DOOR OPTION

Single section (fixed) 3000 Series Wall Mounted Boxes will grace any installation. Modern and stylish soft line appearance.

### STANDARD SPECIFICATIONS

- Five heights: 6U, 9U, 12U, 15U, 18U
- Width: 600mm (ACTUAL 516mm)
- Two depths: 400mm nominal to door (425mm overall), 600 nominal to door (625mm overall)
- Two fixed 19" mounting posts
- Two side panels (REMOVABLE ON 510F MODEL)
- Choice of perspex, steel or maxi-vent mesh front door - supplied with a cylinder lock
- Flat packed as standard



Wall Mounted Boxes Shown with door options installed; note please order door option as tables below

### FINISH

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Other colours available on request.

600 WIDE - ORDER CODES – 400/425 DEEP					
Height U	WMB NO DOOR	*Perspex Door	*Perforated Door	*Steel Door	
6	CT400-WB06C	CT3000-06SX	CT3000-06FD	CT3000-06PS	
9	CT400-WB09C	CT3000-09SX	CT3000-09FD	CT3000-09PS	
12	CT400-WB12C	CT3000-12SX	CT3000-12FD	CT3000-12PS	
15	CT400-WB15C	CT3000-15SX	CT3000-15FD	CT3000-15PS	
18	CT400-WB18C	CT3000-18SX	CT3000-18FD	CT3000-18PS	
600 WIDE - ORDER CODES – 600/625 DEEP					
Height U	WMB NO DOOR	*Perspex Door	*Perforated Door	*Steel Door	
6	CT600-WB06C	CT3000-06SX	CT3000-06FD	CT3000-06PS	
9	CT600-WB09C	CT3000-09SX	CT3000-09FD	CT3000-09PS	
12	CT600-WB12C	CT3000-12SX	CT3000-12FD	CT3000-12PS	
15	CT600-WB15C	CT3000-15SX	CT3000-15FD	CT3000-15PS	
18	CT600-WB18C	CT3000-18SX	CT3000-18FD	CT3000-18PS	
700 WIDE - ORDER CODES – 600/625 DEEP					
Height U	WMB NO DOOR	*Perspex Door	*Perforated Door	*Steel Door	
6	510F06706000	CT06U-700SX	CT06U-700FD	CT06U-700PS	
9	510F09706000	CT09U-700SX	CT09U-700FD	CT09U-700PS	
12	510F12706000	CT12U-700SX	CT12U-700FD	CT12U-700PS	
15	510F15706000	CT15U-700SX	CT15U-700FD	CT15U-700PS	
18	510F18706000	CT18U-700SX	CT18U-700FD	CT18U-700PS	
21	510F21706000	CT21U-700SX	CT21U-700FD	CT21U-700PS	
FLOOR STANDING CONVERSION KIT FOR 700W X 600D ABOVE					
Height U	6	9	12	15	18
<b>PART CODE:</b>	<b>KP0335-06</b>	<b>KP0335-09</b>	<b>KP0335-12</b>	<b>KP0335-15</b>	<b>KP0335-18</b>

### Conversion Kit

Conversion kits provide a complete set of components to convert a 600mm deep 3000 Series Wall Mounted Box to a floor standing cabinet.

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

### QUICK ASSEMBLY:

- Fix top panel to wall with two screws\*\* (top and bottom covers are identical)
- Hook sides to top cover and fix with screws and nuts included (sides are identical)
- Assemble bottom cover to sides and fix to wall with one centre screw\*\*
- Fit 19" mounting posts in desired position

Maximum load capacity is 60kg subject to fixings and wall conditions. Upgrade kits available for heavier loads.

### NOTES:

\* DOOR ONLY ORDER MAIN BODY SEPARATELY

\*\* Fixings depend on the wall construction and are therefore not included.



CONVERSION KIT

DESCRIPTION	PART CODE
EARTH BONDING KIT	KP0294

Hinged (Double-Section) 3000 Series Wall Mounted Boxes will grace any installation. Modern and stylish soft line appearance.

### STANDARD SPECIFICATIONS

- Six heights: 6U, 9U, 12U, 15U, 18U, 21U
- Width: 600mm nominal (actual width 557mm)
- Depth: 500mm nominal to door (actual overall 525mm)
- Standard 19-inch mounting
- Choice of perspex, steel or maxi-vent mesh front door - supplied with a cylinder lock
- A wall mounted back section, which is not visible when the unit is closed, for 19-inch mounted interconnection and is concealed within the front equipment section

### OPTIONS/UPGRADES - SEE ACCESSORIES SECTION

#### FINISH

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Other colours available on request.

*Hinged Wall Box available in Assembled version only.*



DESCRIPTION	PART CODE
EARTH BONDING KIT	KP0294



Side Open View

*Maximum load capacity is 60kg subject to fixings and wall conditions.*

*Fixings depend on the wall constructions and are, therefore, not included.*

*Left Hand Hinged version shown above for reference only; see part code table below for RH & LH hinged options*

ORDER CODES			
<b>*Right Hand Hinged as standard</b>			
Height U	With Perspex Door	With Perforated Door	With Steel Door
6	550A06605020	550A06605040	550A06605060
9	550A09605020	550A09605040	550A09605060
12	550A12605020	550A12605040	550A12605060
15	550A15605020	550A15605040	550A15605060
18	550A18605020	550A18605040	550A18605060
21	550A21605020	550A21605040	550A21605060

**NOTE: \*Right Hand Hinged as standard for Left Hand Hinged add LH to part code above e.g. 21U with Perspex door and Left Hand hinged would be 550A21605020LH**

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

### TECHNICAL FEATURES

Enclosure manufactured from sheet steel, supplied with cable entry and blank reversible door, complete with 1 pair of 19" rack profiles mounted to the front.

Enclosure suitable for the assembly of both nr. 2 additional rack profiles on the back and the mounting plate. Rack profiles manufactured from galvanized sheet steel.

### PAINT FINISH

- Epoxy polyester powder coating.
- Enclosure and door: colour RAL 7035 textured finish.

### SUPPLY

- Enclosure Body
- Door provided with locking system with  $\varnothing$  3mm double bar key
- 1 pair of 19" rack mounting profiles
- Cable entry plate with sealing gasket
- Screws for earth connection and mounting accessories.



ORDER CODES					
Height U	Width mm	Height mm	Depth mm	With Plain Door	With Glazed Door
10	600	500	400	APRO6540B	APRO6540BV
10	600	500	500	APRO6550B	APRO6550BV
10	600	500	600	APRO6560B	APRO6560BV
13	600	600	400	APRO6640B	APRO6640BV
13	600	600	500	APRO6650B	APRO6650BV
13	600	600	600	APRO6660B	APRO6660BV
17	600	800	400	APRO6840B	APRO6840BV
17	600	800	500	APRO6850B	APRO6850BV
17	600	800	600	APRO6860B	APRO6860BV
21	600	1000	400	APRO61040B	APRO61040BV
21	600	1000	500	APRO61050B	APRO61050BV
21	600	1000	600	APRO61060B	APRO61060BV

Note: Further dimensions available on request.

### PROTECTION RATING

- IP66 complying with EN 60529
- NEMA 4 (single door) NEMA 12 (double door) complying with NEMA 250
- protection degree guaranteed by the two component foam seal
- impact resistance IK10 complying with EN62262.

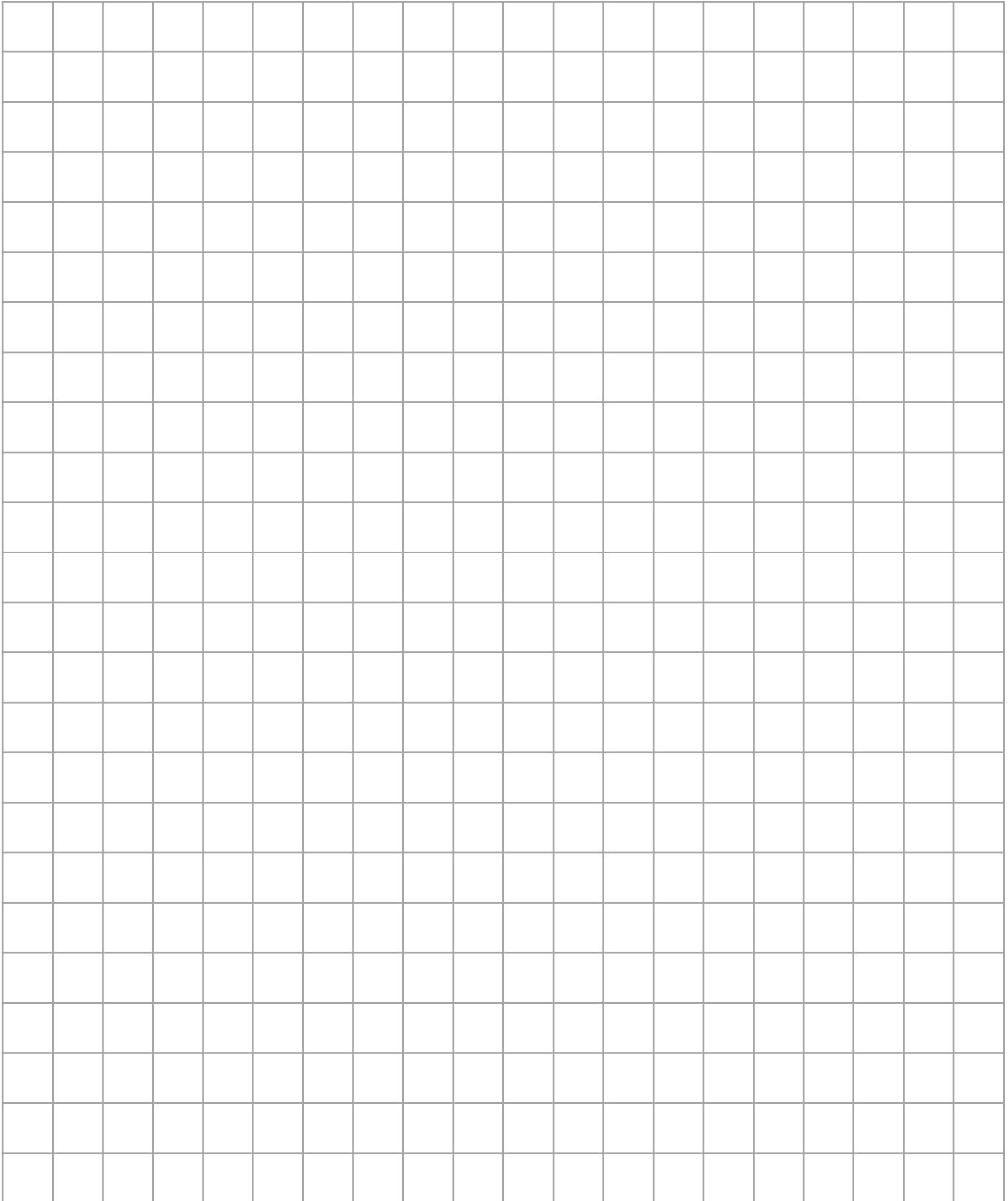


### WALL-MOUNTING BRACKETS

**PART CODE:** SDWC-010

Manufactured from zinc passivated sheet steel 2.5 mm.  
Supply: 4 pieces.

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





**M U L T I - O P T I O N S**

**INTRODUCTION**

Where there is a requirement for standalone computing and communications, or highly resilient, multi mirroring of critical IT systems an 'All In One' cabinet provides a life support package for your IT equipment.

Cooling may be by normal air cooling if available (with standard mesh doors front and rear).

If the ambient room or exterior air temperature is not suitable then Water or DX gas cooled heat exchangers may be employed to remove the heat from sealed cabinets – also ensuring the security of the IT equipment within.

The solution is easy to transport and rapid to deploy.

“Security safes in different versions provide physical protection for one or more server racks. A broad spectrum of additional equipment permits expansion of the safe into a fully-featured micro data centre.”

**KEY BENEFITS:**

High Performance Infrastructure providing;

- Reduced PUE
- Low CAPEX and OPEX
- Scalable platform modules
- Turn-key and IT ready options
- Pay-as-You-Grow modular design
- Rapidly Deployed
- Can incorporate 3<sup>rd</sup> party systems
- Future Proof advantages
- Extreme Power & Cooling

Examples of indoor and outdoor Micro Data Centres providing 'All in One' IT Equipment protection, monitoring and security.



**INTERNAL COOLING SYSTEMS:**

Cooling Module function:

The Cooling units draw in the hot exhaust air at the rear of the enclosure, moving the air through a large air to fluid heat exchanger coil. As the fluid circulating within is cooler than the exhaust air the heat dissipates into the coils many cooling fins.

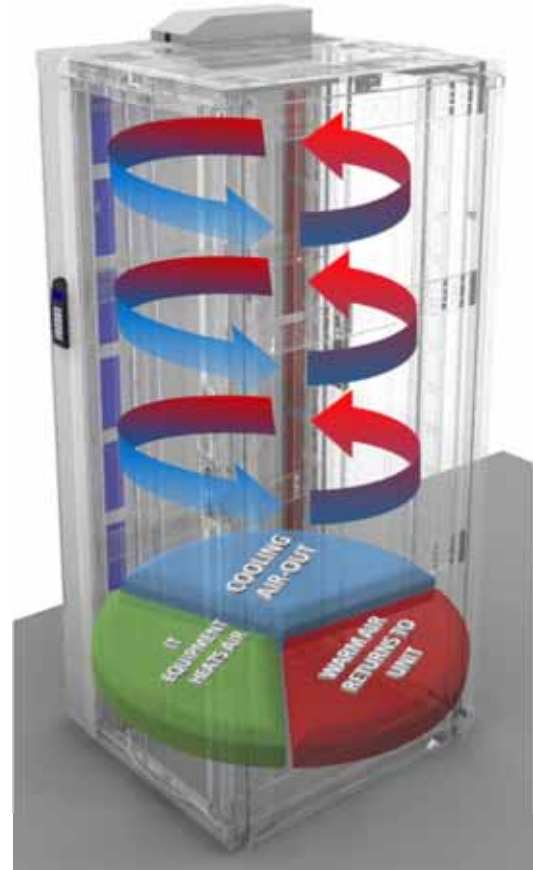
The cooled air is fan recirculated to the front of the enclosure where the whole cycle starts again.

The heat removed by the fluid (DX or Water) is then re-cooled by an external pumped system and returned. (With DX this must be less than 70 meters away).

Due to the sealing of the cabinet very little dust can enter and the air humidity within remains constant once the system has settled.

The Cannon system has multiple low noise hot swappable fan blowers with infinite ramped step less speed control. Temperatures are monitored 24/7.

‘Eco mode’ cooling can result in a PUE of less than 1.05



**FEATURES AND BENEFITS**

- A full data center in a single rack or single row
- Chilled water or DX cooled versions
  - Up to 30kW as standard
  - Up to 60kW optional
- Side mount or rear door mounted cooling options
- Closed or open loop
- Cannon Power: UPS and PDU (Smart versions)
- Cannon Guard: Local and remote locking / security system
- In rack fire detection & suppression.
- Cannon Data Centre Manager (DCM) software for local and remote monitoring

**Integrated In-Row cooling to the front plenum which spans the front of the rack row - Energy efficiency and cost saving**



Cooling units may be fitted to most of Cannons large range of indoor and outdoor cabinets.



**COOLING SYSTEM TYPE COMPARISON**

**Water Cooling:**

Water / Glycol fluid is pumped at 14°C to the cabinet which has an air to water cooling coil, the heat in the cabinet is then exchanged into the water and returned warm to the external Chiller. Water based cooling is both efficient and easily controlled, it is suitable for low < 5kw to very high cooling requirements >60kw and dynamic changes in heat load. Water Chillers may use high COP systems and adiabatic cooling to reduce power consumption. Chilled water is often available on site and is easily provisioned if not. Cooling units may be mounted on any face of the cabinet. Near silent <60db.

**DX Split system: (Direct Exchange to Gas) 8 to 40kw.**

In a DX split system, an external condenser / compressor pumps a gas to convert into a liquid, this is piped to the evaporator coil in or beside the cabinet and when the liquid passes through the coil it removes heat from the cabinet. The gas then flows back to the compressor / condenser and the cycle repeats. DX systems require a specific minimum heat load for operation and DX split system cost less than a comparable chilled water system, although they cost more to run. Near silent <60db operation.

**DX Packaged:** A single unit as above, compact, highly cost effective systems. Available in sizes of 1 to 10kw they exchange the interior heat to the air outside the cabinet (heats the room). 62-72db average noise levels (ambient temperature dependent)

**Mounting types:-** Side/With In row/Inside cabinet, Rear & Front door, Roof, Ducted.

**Capacity:-**Cooling systems of up to 60kw per cabinet in N, N+1, 2N and 2N+1 redundancy possible.

**Deployment:-** Indoor, Outdoor, Track & Street side, Marine & Seismic, EMC & MIL spec available.

Cooling units may be fitted to most of Cannons large range of indoor and outdoor cabinets.



**COOLING SYSTEM FORCED AMBIENT AIR AND DX PACKAGED:**

A single unit as above, compact, highly cost effective system. Available in sizes of 1 to 10kw they exchange the interior heat to the air outside the cabinet (heats the room). 62-72db average noise levels (ambient temperature dependent).

DX cooling units can include external duct system which directs the warm air created by the operation of the DX compressor. This air is expelled to an external environment.

**Mounting types:- Side, Rear & Front door, Roof, Ducted.**

**Capacity:-Cooling systems of up to 10kw per cabinet in N; N+1, 2N and 2N+1 redundancy possible.**

**Deployment:- Indoor; Outdoor variant available, contact Cannon for further details.**

HEIGHT U	WIDTH / DEPTH	ORDER CODE	COOLING MEDIUM	COMMENTS
24	850 (600 + 250)	MIDC2468BK15DXRH1171	1.5kW ACU	Solo Unit
33	1050 (800 + 250) /1200	DXSM33801200	4kW ACU	Solo Unit with Remote Monitoring via CannonGuard, INRAK Fire Suppressant, PDU's
42	1050 (800 + 250) / 1000	DXSM428099394900	1.6kW ACU	Solo Unit
42	1050 (800 + 250) / 1200	DXSM42801200	4.0kW ACU	Solo Unit
42	1050 (800 + 250) / 1200	DXSM42801203	4.0kW ACU	Solo Unit with Remote Monitoring via CannonGuard
45	1050 (800 + 250)	DXSM458099BT01	4kW ACU	Solo Unit with Remote Monitoring via CannonGuard
45	1050 (800 + 250)	DXSM458099BT02	4kW ACU	Solo Unit



### SINGULAR & ROW BASED COOLING:

Where cabinets are to be arranged in rows, as in a single row data centre or network core, the Cannon Cool units maybe mounted between them. This allows the system to share the cooling along the row without the need for an aisle containment system.

The cabinets must be 42U or taller and be at least 1200mm deep for an in-row cooling solution.

300mm mid row (200mm end row) cooling units have a maximum capacity of 30kw with water coils and 25kw with DX units. (optional 600mm 50-90 kW water cooled version). Additional side mount cooling units may also be installed on the row ends to increase both capacity and resilience.

The layout examples below have a total capacity of 60kw across the four cabinets, with two off WIRC 30kw water cooled units giving a total load of up-to 25kw in each cabinet. (50kw sensible)

Two off end of row units could be added, then 120kw of cooling is available, giving 30kw\* per cabinet, or 22.5kw\* with n+1 redundancy.

\*These are total cooling values.

### FEATURES:

- Rows may be extended easily by adding more cooling units and cabinets as and when required.
- These data centre ‘PODS’ may be used within any space or inside a traditional data centre, if required, with no impact upon the existing cabinets or cooling infrastructure. Quick to deploy and simple to configure.
- As ‘Stand Alone’ units they offer huge amounts of processing or networking in a small footprint.
- Particularly suitable for SAN, CCTV, Card Services, Network cores and High Density computing.
- Also available in external weatherproof cabinets for CCTV, Broadcast, Traffic, Rail, Telecoms/Cellular etc.
- Extreme security versions available



MIDC42121450KWDX

HEIGHT U	WIDTH/DEPTH	ORDER CODE	COOLING MEDIUM	COMMENTS
42	800 (600 + 200) / 1200	MIDC42601230KWLH	30kW Water	600W Cab with WIRC to Left Hand
42	1000 (800 + 200) / 1200	MIDC42801230KWLH	30kW Water	800W Cab with WIRC to Left Hand
42	1000 (800+200) / 1200	MIDC42801225KWDX	25kW DX	800W Cab with WIRC to Left Hand
42	1000 (800 + 200) / 1200	MIDC42201230KW	30kW Water	Solo WIRC Unit Only – Add Cab below*
42	1000 (800 + 200) / 1200	MIDC42201225KWDX	25kW DX	Solo WIRC Unit – Add Cab below*
42	1100 (800 + 300) / 1200	MIDC42301230KW	30kW Water	Multi-cab possible*
42	1100 (800 + 300) / 1200	MIDC42301230KWDX	25kW DX	Multi-cab possible*
42	800 / 1200	MIDC428012000101	-	Additional cab only for above*
42	800 / 1200	MIDC428012302101	-	Additional cab only for above* including split (wardrobe)front door
42	600 / 1200	MIDC426012	-	Additional cab only for above*
42	1200 / 1400	MIDC42121450KWDX	50kW DX	**800W Cab with WIRC to LH & RH sides
42	800 / 1400	MIDC428014000101	-	Additional cab only for above**

**ALL IN ONE OPTIONS**

Mini / Micro Data Centres are available with multiple options including:

- 'Entry level': A cabinet with sound deadening and air control glands, Configured with a suitable cooling system ready for customer IT fit out.
- 'IT ready': As above but complete with a UPS, PDU Strips and FM200 or Novec Fire Protection system inbuilt.
- Just fit your own servers & network switch.
- 'Turnkey': As above plus your required servers and switches may be installed and preconfigured by our Cisco certified Engineers.
- 'Retrofit': Existing cabinets may be converted to actively cooled micro data centre units with the addition of internal, side, roof or rear door mounted cooling units.

**TURNKEY FOR TOTAL PROJECT DELIVERY**

Cannon is able to provide two levels of Turnkey delivery

'IT Ready' Turnkey or 'Full IT' Turnkey

'IT' Ready Turnkey provides an operational facility which is powered, cooled, tested and commissioned ready for the client to install and commission their IT infrastructure within.

'Full IT' Turnkey is provided when the client requires a fully operational Data Centre complete with fully functional IT infrastructure ,ready to fulfil the end mission.

**INTEGRATED IT SYSTEMS**

**FIRE SUPPRESSION**

**UPS**

**Pre-configured at Cannons' facilities prior to shipment.**

## DOOR & LOCK OPTIONS PAGES 4.0



### STANDARD FEATURES

- Heights: 25U to 47U
- Two widths: 600mm & 800mm
- Options: Vented Glass, Vented Plain Steel, Maxi-Vent & Maxi-Vent Plus Curved, Split Wardrobe Doors
- Split door multi-point lock rod system
- Standard Swing Handle Lock
- Combination & Combi-Lock
- Electronic Lock

## SIDE PANELS PAGE 4.4



### STANDARD FEATURES

- Heights: 12U to 54U
- Depths: 600mm to 1000mm (1200 = 2 x 600mm)
- Lockable side panels
- Security Bar
- Cable Aperture/Brush Strip Side Panel for cable interconnect
- Vented Side Panels
- SMART Cab Trims

## QUICK FIT ACCESSORIES PAGE 4.8



### STANDARD FEATURES

- Fixed Shelf
- Cantilever (Modem) Shelf
- Telescopic Shelf
- Depth Support Members
- Chassis Support Angles

## QUICK FIT & ROOF FAN UNITS PAGE 4.11



### STANDARD FEATURES

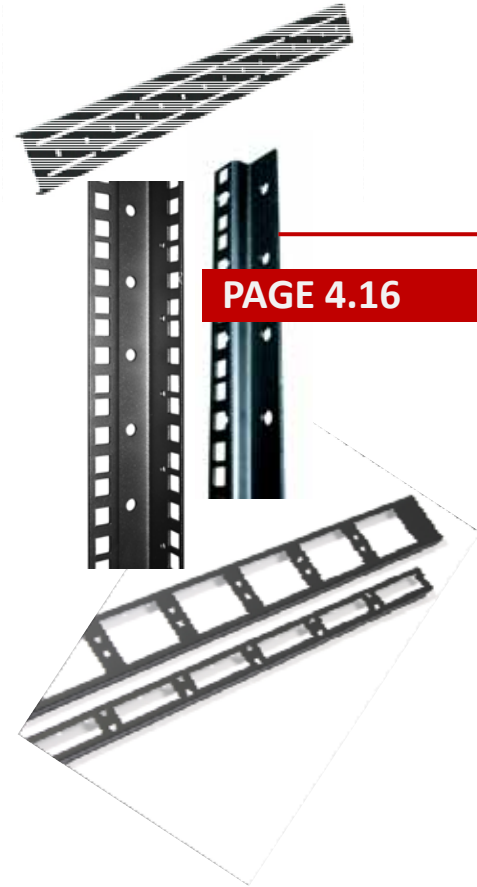
- Quick fit roof fan unit
- 2, 4 or 6 fans
- Low-noise fans
- Horizontal Flow Fan Unit – Page: [4.12](#)
- Locally Monitored Varifan – Page: [4.12](#)
- SMARTNET Fan Unit – Page: [4.13](#)
- Intermediate Vertical Flow Fan Unit – Page: [4.13](#)

## STANDARD SHELVES PAGE 4.14



### STANDARD FEATURES

- Heights: 25U to 47U
- Three widths: 600mm, 700mm & 800mm
- Depths: 900mm to 1200mm
- MaxiVENT Plus Curved Perforated front & rear door
- Roof panel with multiple entry cable brush glands
- Maximum cable access through base
- Load rating: 1200kg static (sited directly on floor)



## PAGE 4.16

Vertical Cable Management & Extension Frame

## PAGE 4.20



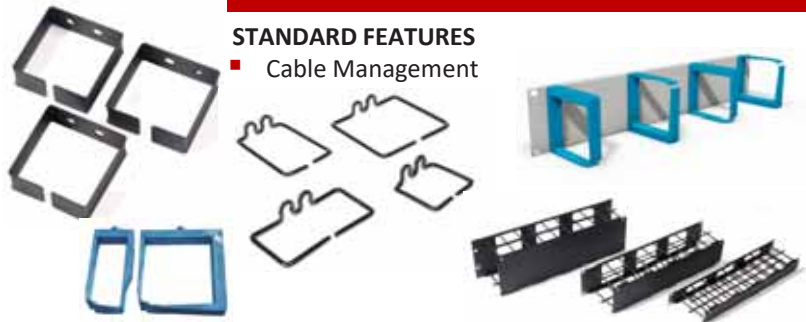
# ACCESSORIES OVERVIEW

## DATA CENTRE INFRASTRUCTURE

### CABLE MANAGEMENT ACCESSORIES PAGE 4.21

#### STANDARD FEATURES

- Cable Management



### FIXINGS & BLANK PANELS PAGE 4.28

#### STANDARD FEATURES

- Fixing Kits, CANNON Wrap, MiKEY Buttons
- Blank, Vented & Brush Panels



### CASTORS, FEET, DOC WALLET & PLINTH PAGE 4.30

#### STANDARD FEATURES

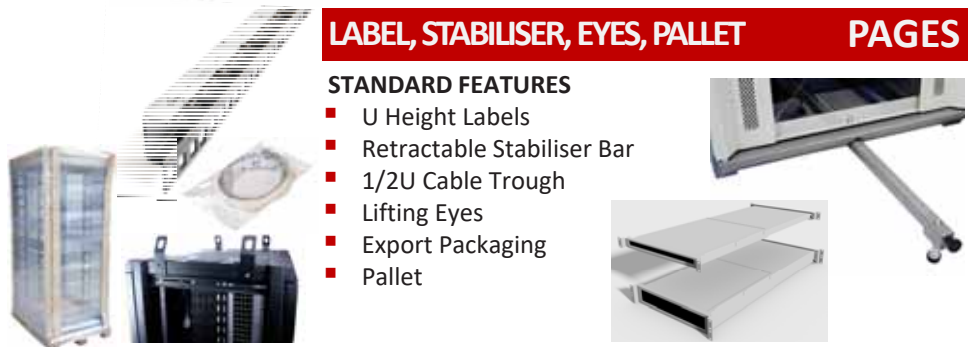
- Light to Heavy Duty
- Adjustable Feet
- Fixed Plinth
- Mobile Plinth
- Document Wallet



### LABEL, STABILISER, EYES, PALLET PAGES 4.32

#### STANDARD FEATURES

- U Height Labels
- Retractable Stabiliser Bar
- 1/2U Cable Trough
- Lifting Eyes
- Export Packaging
- Pallet



### EARTHING KITS PAGE 4.34

#### STANDARD FEATURES

- Vertical & 19" Earth Bars
- Cabinet Earth Bonding Kits
- ESD Stud
- Anti-static Earth Straps



19" Mounting & Intermediate Posts, Depth Support Members & Infill Panels



PAGE 4.18

Cable Trays



### DOOR OPTIONS

Cannon unique Smart Doors are removable and lockable. Equipped with sprung hinges for easy removal with hinging to the left as standard or right-hand side of the cabinet on request.

Door opening 180° when bayed and 270° opening as stand alone or when at end of a bay. Cannon SMARTNET doors will allow personnel to exit past a cabinet in any direction at front, side or rear, with no obstruction and with minimal danger of snagging loose clothing. These requirements are critical, particularly in an emergency i.e. in smoke filled rooms, even with wide gangways.



- Finish**
- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
  - Other colours available on request.

**\*Smart Vertically Split Doors require LC265-x-xxxx Locking rod kit with swing handle**

Height	Vented Frame Glass Door	Vented Frame Steel Door	Maxi Vent Perforated Door	Maxi Vent Plus Curved Perforated Door	Smart Vertically Split Maxi Vent Perforated Doors*	Smart Vertically Split Plain Steel Doors*	*Split Door Lock Rod Kit including swing handle & standard barrel
	Part Code	Part Code	Part Code	Part Code	Part Code	Part Code	Part Code
<b>600mm Wide</b>							
25U	235B85600025	235B65600025	235B95600025	715B90600025	265B90600025	265B10600025	LC265-1-6025
27U	235B85600027	235B65600027	235B95600027	715B90600027	265B90600027	265B10600027	LC265-1-6027
33U	235B85600033	235B65600033	235B95600033	715B90600033	265B90600033	265B10600033	LC265-1-6033
42U	235B85600042	235B65600042	235B95600042	715B90600042	265B90600042	265B10600042	LC265-1-6042
45U	235B85600045	235B65600045	235B95600045	715B90600045	265B90600045	265B10600045	LC265-1-6045
47U	235B85600047	235B65600047	235B95600047	715B90600047	265B90600047	265B10600047	LC265-1-6047
<b>800mm Wide</b>							
25U	235B85800042	235B65800025	235B95800025	715B90800025	265B90800025	265B10800025	LC265-1-8025
27U	235B85800047	235B65800027	235B95800027	715B90800027	265B90800027	265B10800027	LC265-1-8027
33U	235B85800042	235B65800033	235B95800033	715B90800033	265B90800033	265B10800033	LC265-1-8033
42U	235B85800047	235B65800042	235B95800042	715B90800042	265B90800042	265B10800042	LC265-1-8042
45U	235B85800042	235B65800045	235B95800045	715B90800045	265B90800045	265B10800045	LC265-1-8045
47U	235B85800047	235B65800047	235B95800047	715B90800047	265B90800047	265B10800047	LC265-1-8047

**Please note that 900mm, 1000mm & 1200mm deep cabinets will come with perforated front and rear doors, all other cabinets will have a vented frame glass door (front) and a vented frame steel door (rear).**

**ALTERNATIVE LOCK OPTIONS AVAILABLE: SEE SECTION 4.1 to 4.3**

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

**CANNON SWING HANDLE LOCK**

- A new concept in swing handle locks which stylishly incorporates the innovative Cannon Dual-Mode Lock which is a standard fitment to Cannon cabinets.
- Dual-Mode SNAP Lock – See Below for details.
- The pivoting lock cover can be secretly screw retained to prevent unauthorised access to the key-lock or can be wire/lead sealed.

**Cannon Swing Handle Lock  
SMART NET / SMART CAB /  
SERVER SMART Cabinets.**



**LOCK OPTIONS**

**Mechanical Lock:**

- Non-locking: Swing handle with dummy euro lock cylinder fitted.
- Dedicated Key Locking: Swing handle with customer specific key access.
- Swing handle will accommodate euro half cylinder locks with rotary or linear latch movement.
- Combination Lock: Swing handle with mechanical rotary entry code with or without key override.

DESCRIPTION	ORDER PART CODE
Standard Swing Handle (each)	LC102
Unique Numbered Lock Barrels (pair)	LC138
<b>LC138 Master Key (Client Approval)</b>	<b>LC138-M</b>
Standard Swing Handle (each) for a Smart Vertically Split Door with lock rods (2 point)	LC265-1-Width of Cabinet & U Height e.g. <b>LC265-1-8042</b> for a 800mm wide & 42U Height Cabinet
Standard Swing Handle (each) for a Smart Vertically Split Door with lock rods (3 point)	LC295-1-Width of Cabinet & U Height e.g. <b>LC295-1-8042</b> for a 800mm wide & 42U Height Cabinet

**CANNON DUAL-MODE EURO LOCK CYLINDER:**

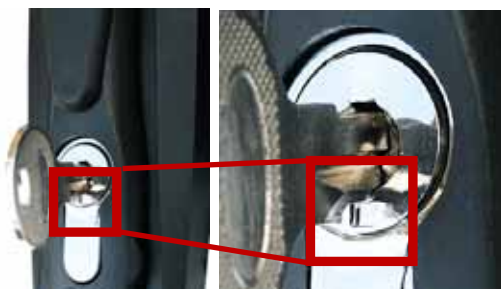
- Instant selection of “Snap-Lock” or “Non-Lock” settings.

**Snap-Lock Mode**

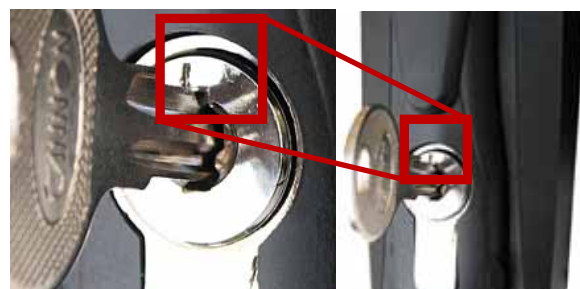
- Lock set in 6 o'clock position with key removed allows an open handle to be snapped shut and locked at any time without further use of the key.

**Non-Lock Mode**

- Lock set in 12 o'clock position with key removed allows the handle to freely open and close the door without being locked or the key being required.



Snap-Lock



Non-Lock

Pictorial representation moulded into handle

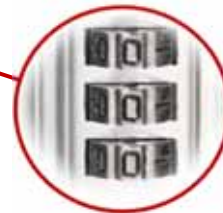
**SWING HANDLE COMBINATION LOCK**

- Swing handle fitted with a ‘safe-type’ dial-up deadlock.
- A rotary combination lock with unique 3 number entry
- Lock activates internal swing handle mechanism.
- Can be used with or without key override.

DESCRIPTION	ORDER CODE
SWING HANDLE COMBINATION LOCK	LC139-KIT
SWING HANDLE COMBINATION LOCK (EACH) FOR A SMART VERTICALLY SPLIT DOOR*	LC265-5-WIDTH OF CABINET & U HEIGHT I.E. LC265-5-8042 FOR A 800MM WIDE & 42U HEIGHT CABINET
3-POINT LOCK SYSTEM FOR CANNON 235B/715B DOORS – <b>PURCHASE SWING HANDLE ALSO</b>	LC293-5-XX (XX = “U” HEIGHT OF DOOR) I.E. 42U DOOR = <b>LC293-5-42</b>



Image shows LC265-5-xxxx Swing Handle combination lock utilised with Cannon Split (wardrobe) door locking system\*.



**CANNON COMBI-LOK**

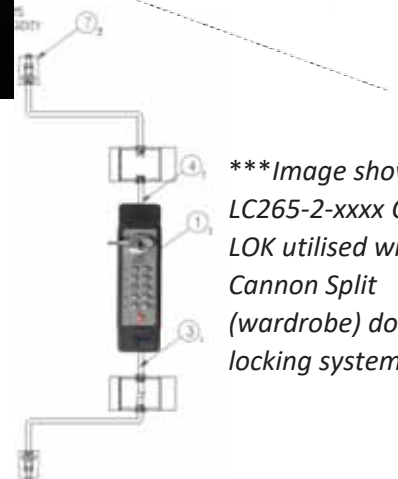
- The Cannon COMBi-LOK provides selectable mechanical push-button code entry with unique key over-ride.
- The COMBi-LOK enables each client to have controlled access to specific enclosures, maintaining maximum integrity and security.
- Entry codes can consist of 1 to 10 digits, inserted in any order.
- Changing the entry code can either be completed by inserting the existing code, turning the lock to RESET, cancelling the existing code and re-entering a new code, or by over-riding the lock with a security Master Key\*\* and then inserting the new code.



\*\*Cannon Combi-Lok master key is not included with the lock, so if a master key is required please order the key separately.

**CANNON COMBI-LOK MASTER KEY\*\***

- The COMBi-LOK Master Key facility allows the re-setting of forgotten codes as well as emergency access for Data Centre management



\*\*\*Image shows LC265-2-xxxx COMBi-LOK utilised with Cannon Split (wardrobe) door locking system.

DESCRIPTION	ORDER CODE
Combi-Lok	COMBI-LOK-1B
Cannon Combi-Lok Master Key**	COMBI-KEY-B
Combi-Lok (each) for a Smart Vertically Split Door***	LC265-2-Width of Cabinet & U Height i.e.  <b>LC265-2-8042</b>  for a 800mm wide & 42U Height Cabinet

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

### CANNON ELECTRONIC LOCK

- Electronic Lock with or without integrated Keypad and LCD 'walk by' display:
- Swing handle set in stylish escutcheon with electronic keypad entry and mechanical key override
- Cool blue LCD readout shows:- Cabinet Location  
Temperature and Power used inside the cabinet  
Large, robust, 'touch' Keypad

Available in stand alone, dual and networked versions:

- ✓ **Single Keypad / dual lock:**  
One Keypad/Lock and one rear door 'E' lock kit.
- ✓ **Dual Keypad / dual lock:**  
Two Keypad/locks and cables to suit 2 doors.
  - Both include PSU, cables, switches, connectors and brackets to convert a cabinet to an electronically locked one.

**For remote unlocking/Network version contact Cannon Technologies**

### ELECTRONIC LOCK (WITHOUT KEYPAD):

- Swing handle with remote electronic lock operation with or without key override.
- Allows the use of 3rd party lock controllers with the Cannon 'E' Swing handle.
- Includes door and handle switches and all cables/connectors to convert one door.

### REMOTE LOCKING:

Remote locking of the electronic swing handle locks, with or without keypads for local access, is available as part of the CannonSecure suite of modules.

The multi-function keypad allows Security Access Control as well as Environmental and Power Monitoring.

CannonSecure provides real-time Monitoring and Management for access control, allowing or denying entry to any door and the setting of entry codes locally or remotely via the CannonView software.

All locking options are available as single or 3-point locking.

**Contact Cannon Technologies for more detailed information**

LOCK MODULE	DESCRIPTION	PART CODE
Single Keypad, dual lock kit	Front Keypad with swing handle and rear slave swing handle lock, PSU, door switch and cabling	405E-ELKP-01
Double Keypad, dual lock kit	Front & Rear Keypad with swing handle PSU, door switch and cabling	405E-ELKP-02
Electronic lock kit, Stand alone	"E" Lock, door switch, connectors and cabling to convert 1 door	405E-ELOC-05



### Electronic Lock with Keypad

Keypad display shows cabinet location and temperature, Pressing a (F) function key shows: Water/Cabinet temperatures, Power displays or allows the entering of unlocking Keycodes.

After a preset 'timeout' the display reverts to location and temperature.



**Biometric and RFID options available, please contact the CANNON Sales Team for details**





### STANDARD SIDE PANELS (NOT SMART SPACE)

- Cannon side panels **are normally** included in a standard CANNON cabinet build.
- Side panels are available as spares or may be ordered separately .
- Side panels locate easily into the cabinet and lock by the means of two identical locks.
- \*On 1200mm deep cabinets 2 side panels are required for each side of the cabinet i.e. 4 side panels required per 1200mm deep cabinet.

#### Finish

- Standard: Powder painted Black to RAL9005 or Grey White RAL9002.
- Other colours available on request.

#### Supplied:

- Individually

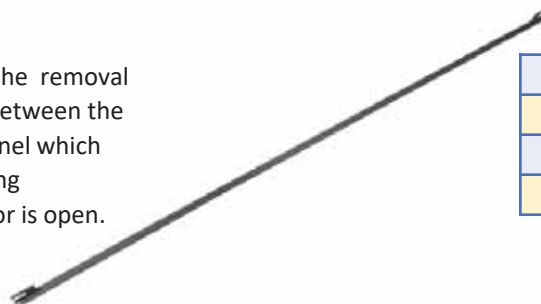


\*Please see the note above on how many side panels are required for a 1200mm deep cabinet.

HEIGHT	ORDER PART CODE			
	600mm DEEP	800mm DEEP	900mm DEEP	1000mm DEEP
12U	217C00006012	217C00008012	-	217C00009912
15U	<b>217C00006015</b>	<b>217C00008015</b>	-	<b>217C00009915</b>
18U	217C00006018	217C00008018	-	217C00009918
20U	<b>217C00006020</b>	<b>217C00008020</b>	-	-
21U	217C00006021	-	-	217C00009921
22U	-	<b>217C00008022</b>	-	-
25U	217C00006025	217C00008025	217C00009025	217C00009925
27U	<b>217C00006027</b>	<b>217C00008027</b>	-	<b>217C00009927</b>
33U	217C00006033	217C00008033	217C00009033	217C00009933
37U	<b>217C00006037</b>	<b>217C00008037</b>	-	<b>217C00009937</b>
39U	217C00006039	217C00008039	-	217C00009939
42U	<b>217C00006042</b>	<b>217C00008042</b>	<b>217C00009042</b>	<b>217C00009942</b>
45U	217C00006045	217C00008045	217C00009045	217C00009945
47U	<b>217C00006047</b>	<b>217C00008047</b>	<b>217C00009047</b>	<b>217C00009947</b>
50U	-	-	-	217C00009950
52U	<b>217C00006052</b>	<b>217C00008052</b>	<b>217C00009052</b>	<b>217C00009952</b>
54U	217C00006054	-	-	-

### SIDE PANEL SECURITY BAR

The Side Panel Security Bar prevents the removal of the side panel. The bar is installed between the two locks on the inside of the side panel which disables both locks therefore restricting unauthorised access, unless front door is open.



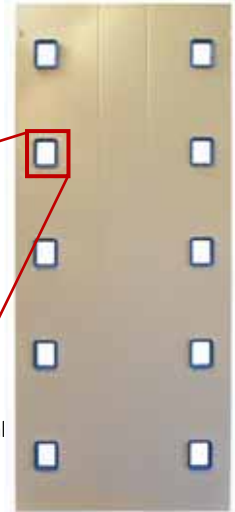
Description	Order Code
600mm Deep	901C00600100
800mm Deep	901C00800101
1000mm Deep	901C00990101

\*Please note when ordering security bars for 1200mm deep cabinets you will require 2 x 901C00600101 per side panel so the total required for 1 x cabinet would be 4 security bars.

### SIDE PANELS WITH CABLING APERTURES

- 600 to 1000mm deep Side Panels with 10/ cut-outs/cable apertures
- Each cut out/cablings aperture has blue mouldings fitted for ease of cabling
- The cut-out/cablings apertures maybe blanked off if required with the use of optional blanking plates
- Side panels locate easily into the cabinet and lock by the means of two identical locks.

Each cut out/cablings aperture has radiused blue mouldings fitted, protecting cabling from sharp edges



#### Finish

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Additional colours available on request.

**\*\*Please note 2 side panels per side are required for a 1200mm deep cabinet i.e. 4 side panels total**

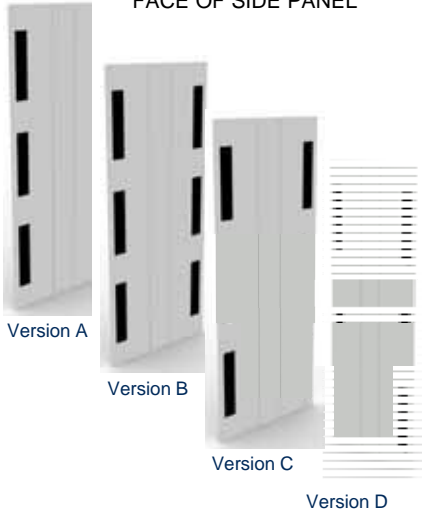
#### Supplied:

- Individually

HEIGHT	ORDER PART CODE					NOTES	
U	600mm DEEP**	600mm DEEP** RH WITH 5 X BLUE MOULDINGS	600mm DEEP** LH WITH 5 X BLUE MOULDINGS	800mm	1000mm DEEP		
42U	218C42026000 *			218C42028000 *	218C42029900 *	-	*6 x NR152 Moulding
47U	218C47026001 ***	218C47026002 ***	218C47026003 ***	218C47028000 *	218C47029901 ***	218C4702990 ****	*** 10 x Blue moulding Blue Moulding **** 28 x Blue moulding Blue Moulding
52U	-	-	-	-	218C52029901 ***	-	

### SIDE PANELS WITH BRUSH STRIPS

ALL VIEWS ON OUTSIDE FACE OF SIDE PANEL



- Side Panels with 6 or 3 cut-outs (\*3 cut-outs in 600 deep side panel) with brush strip
- Provides interconnect cabling whilst ensuring energy efficient air-flow within the cabinet.
- Side panels locate easily into the cabinet and lock by the means of two identical locks.

#### Finish

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Additional colours available on request.

#### Supplied:

- Individually

HEIGHT	ORDER PART CODE				
	Universal 3 cut-out Ver "A"	6 cut-out Ver "B"		3 cut-out Ver "C"	3 cut-out Ver "D"
U	600mm DEEP*	800mm DEEP	1000mm DEEP	1000mm DEEP	1000mm DEEP
42U	218C42026006	218C42028001	218C42029906	-	-
45U	-	-	218C45029906	-	-
47U	218C47026006	218C47028001	218C47029906	218C47029907	218C47029908

### SIDE PANEL SECURITY BAR

The Side Panel Security Bar prevents the removal of the side panel. The bar is installed between the two locks on the inside of the side panel which disables both locks therefore restricting unauthorised access, unless front door is open.



Description	Order Code
600mm Deep	901C00600101
800mm Deep	901C00800101
1000mm Deep	901C00990101

**\*Please note when ordering security bars for 1200mm deep cabinets you will require 2 x 901C00600101 per side panel so the total required for 1 x cabinet would be 4 security bars.**

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

### SIDE PANELS WITH BOTTOM VENTS

- Ribbed for additional rigidity
- Includes Vent Slots to lower area of side panel allowing ambient air inlet via lower side panel slots.
- Side panels locate easily into the cabinet and lock by the means of two identical locks.
- Optional Side panels with cross interconnect cabling available on request.

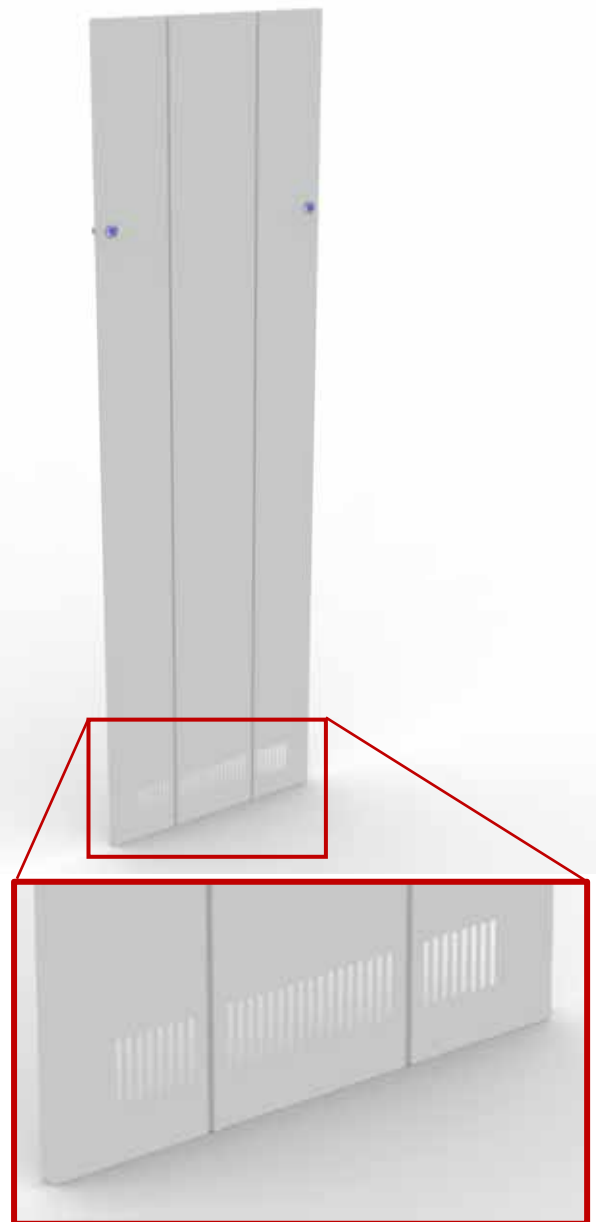
#### Finish

- Standard: Powder painted Black RAL9005 or Grey White RAL9002.
- Other colours available on request.

#### Supplied:

- Individually

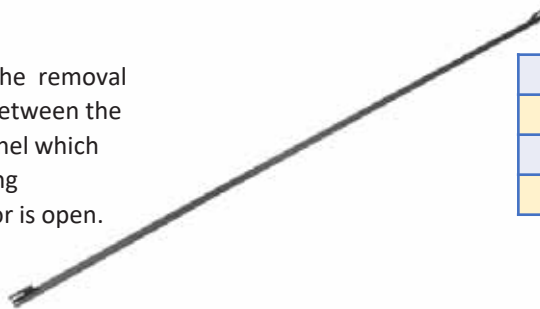
HEIGHT	ORDER PART CODE		
	600mm DEEP	800mm DEEP	1000mm DEEP
12U	218C00106012	218C00108012	218C00109912
15U	<b>218C00106015</b>	<b>218C00108015</b>	<b>218C00109915</b>
18U	218C00106018	218C00108018	218C00109918
20U	<b>218C00106020</b>	-	-
21U	218C00106021	-	-
22U	<b>218C00106022</b>	<b>218C00108022</b>	<b>218C00109922</b>
25U	218C00106025	218C00108025	218C00109925
27U	<b>218C00106027</b>	<b>218C00108027</b>	<b>218C00109927</b>
33U	218C00106033	218C00108033	218C00109933
37U	<b>218C00106037</b>	<b>218C00108037</b>	<b>218C00109937</b>
39U	218C00106039	218C00108039	218C00109939
42U	<b>218C00106042</b>	<b>218C00108042</b>	<b>218C00109942</b>
45U	218C00106045	218C00108045	218C00109945
47U	<b>218C00106047</b>	<b>218C00108047</b>	<b>218C00109947</b>
50U	218C00106050	-	218C00109950
52U	<b>218C00106052</b>	<b>218C00108052</b>	<b>218C00109952</b>
54U	218C00106054	218C00108054	218C00109954



4 x 600 deep side panels are required for a 1200mm deep cabinet.

### SIDE PANEL SECURITY BAR

The Side Panel Security Bar prevents the removal of the side panel. The bar is installed between the two locks on the inside of the side panel which disables both locks therefore restricting unauthorised access, unless front door is open.



Description	Order Code
600mm Deep	901C00600101
800mm Deep	901C00800101
1000mm Deep	901C00990101

**\*Please note when ordering security bars for 1200mm deep cabinets you will require 2 x 901C00600101 per side panel so the total required for 1 x cabinet would be 4 security bars.**

### SMART TRIM DOOR

Cannon Smart Trim provides elegant vertical coach lines to style any door or surface.

Cannon Door Smart Trims are self adhesive colour strips which affix directly to the front door of any Cannon cabinet.

- 2.3m length (trim to length)
- Fitted to either left, right or both sides of frame on door
- Matching side panel lock trim also available
- 7 to 8mm wide
- Self adhesive peel off backing

#### SMART TRIM AVAILABLE IN A VARIETY OF COLOURS:

- BLUE
  - GREEN
  - RED
  - YELLOW
  - PURPLE
- 

COLOUR SMART TRIM	COLOUR SPEC	ORDER CODE
Blue	RAL 5015	NR051
Green	RAL 6024	NR052
Red	RAL 3020	NR053
Yellow	RAL 1018	NR054
Purple	RAL 4005	NR058



### SMART TRIM SIDE PANEL

Cannon Side Panel Smart Trims are coloured decals which affix directly onto the side panels of any Cannon cabinet, around the cylindrical lock.

- Fitted to each side panel prior to lock insertion
- Available to match door Smart Trim

#### SMART TRIM AVAILABLE IN A VARIETY OF COLOURS:

- BLUE
- GREEN
- RED
- YELLOW
- PURPLE



COLOUR SMART TRIM	COLOUR SPEC	ORDER CODE
Blue	RAL 5015	LA0240-1
Green	RAL 6024	LA0240-2
Red	RAL 3020	LA0240-3
Yellow	RAL 101 8	LA0240-4
Purple	RAL 4005	LA0240-7





### QUICK FIT SHELVES

No fixings are needed for Cannon Quick-Fit shelves. They can be fitted and moved within the Cannon cabinet in a matter of seconds. They accommodate the same weight as traditional shelves and do not require the extensive fitting time that is commonly required.

#### Quick-Fit Fixed Shelves (Patented)

Cannon Quick-Fit Fixed Shelves: One edge hinged relative to the main body of the shelf. Operation of this patented feature with its integral lock, allows fast installation and can be re-configured by unskilled personnel.

These shelves have pre-formed lugs which fit into Cannon standard cut-outs in the depth facing flanges of the 19-inch equipment mounting posts.

The front to back fixing centres of mounting posts on Cannon cabinets is common for all Cannon shelves in each nominal depth, this allows for Quick-Fit and traditional shelves to be mixed as required.

Quick-Fit Shelves are pre-punched with ventilation slots.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

**Load rating:** 50kg max (evenly distributed).



#### Quick-Fit 2U Modem (Cantilever) Shelves

Cannon QuickFit 2U & 3U Modem Shelves are fitted without cage nuts, screws or cup washers. They are assembled to the cabinet 19-inch equipment mounting posts by the novel use of pre-formed hooks and 1/8 turn Cannon Quick-Fit Buttons.

They can be assembled or re-located in seconds by unskilled labour without the need for specialist tools or screwdrivers.

These shelves occupy 2U OR 3U of front panel space and are available in the same range of depths as the more traditional screw-fixed Cannon Modem Shelves.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

**Supplied:** Complete with two Cannon Quick-Fit Buttons.

**Load rating:** 15kg max (evenly distributed).



HEIGHT	DEPTH	PART CODE
2U	255mm	701C02602500
2U	350mm	701C02603500
2U	400mm	701C02604000
2U	500mm	701C02605000
3U	450mm	701C03604500

NOMINAL DEPTH	ACTUAL DEPTH	PART CODE	MOUNT CTRS	POST TO POST
350mm	336mm	765B00603500	286mm	366mm
450mm	436mm	765B00604500	386mm	466mm
550mm	536mm	765B00605500	486mm	566mm
600mm	586mm	765B00606000	536mm	616mm
670mm	661mm	765B00606701	606mm	691mm
700mm	686mm	765B00607000	636mm	716mm
770mm	761mm	765B00607701	711mm	791mm
800mm	786mm	765B00608000	736mm	816mm

### QUICK-FIT TELESCOPIC SHELVES (PATENTED)

No more fiddly time consuming effort is required to fit telescopic slide brackets to 19-inch equipment mounting posts with cage nuts, special screws, bar nuts, etc. Instead pre-set brackets which have been factory fitted to the slides, simply clip into the rear and front 19-inch mounting posts.

Cannon Quick-Fit Telescopic Shelves are pre-punched with ventilation slots.

**Finish:**

Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

Slides - Bright zinc plated steel.

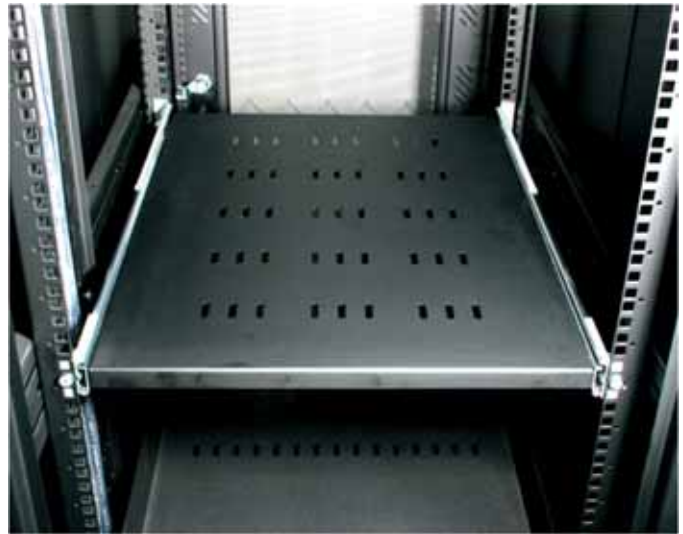
Slide brackets - 1.5mm zintec steel .

**Load rating:** 40kg max (evenly distributed).

**Additional benefit:** Equipment mounting positions are left free when using the Quick-Fit Telescopic Shelves.

**Caution:** *The use of heavy loads on telescopic slides may cause the cabinet to become unstable. Therefore the cabinet should either be bolted to the floor or used with a stabiliser bar – SEE SECTION 4.32*

NOMINAL DEPTH	ACTUAL DEPTH	PART CODE
450mm	436mm	775B02604500
550mm	536mm	775B02605500
600mm	586mm	775B02606000
640mm	626mm	775B02606400
700mm	686mm	775B02607000



### QUICK-FIT DEPTH SUPPORT MEMBERS

Cannon Quick-Fit depth support members can be quickly and easily installed to provide additional support for mounting posts or vertically side mounted accessories e.g. cable trays, Power Strips etc.

Each end of the depth member is rigidly retained by the internal profile of the Cannon cabinet corner post. Height positions can be varied in 1U increments by sliding it up or down within the Cannon cabinet corner post.

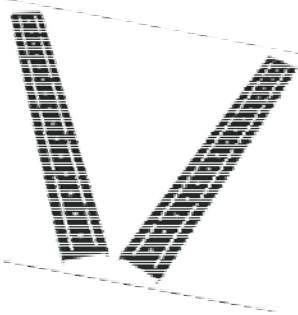
Quick-Fit depth support members are available in standard sizes to suit Cannon cabinet depths of 400 to 1200mm.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

**Supplied:** In pairs with four Cannon Quick-Fit buttons.

CABINET DEPTH	PART CODE
400mm	398C02004000
600mm	398C02006000
800mm	398C02008000
900mm	398C02009000
1000mm	398C02009900
1200mm	398C02001200



### QUICK-FIT CHASSIS SUPPORT ANGLES

Cannon Quick-Fit chassis support angles hook into the depth facing flanges of the 19-inch equipment mounting posts. They are safety locked into position by a pair of Cannon Quick-Fit buttons. Cannon Quick-Fit chassis angles are available in four depths, and can be matched with any Cannon shelf of the same nominal depth.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002. Other colours available on request.

**Supplied:** In pairs with four Cannon Quick-Fit buttons.  
**Load rating:** 30kg max (evenly distributed).

Quick-Fit Chassis Support Angles will provide support for heavy equipment/have no 19-inch panel mount ears, leaving vertical airflow paths clear for vertically cooled equipment.



DEPTH	PART CODE	MOUNT CTRS	POST TO POST
250mm	713C02002500	186mm	266mm
350mm	713C02003500	286mm	366mm
450mm	713C02004500	386mm	466mm
550mm	713C02005500	486mm	566mm
600mm	713C02006000	536mm	616mm
750mm	713C02007500	686mm	766mm

### STANDARD FIT

#### Chassis Support Angles

Cannon chassis supports offer extra support, generally to 19-inch equipment, fitting between the front and rear mounting posts. Care should be taken to ensure that the chassis supports are sized to suit any fixed shelf depths or that additional intermediate mounting posts are fitted to the cabinet - see page 4.16

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

**Supplied:** In pairs with fixings.

**Load rating:** 50kg max (evenly distributed).



DEPTH	PART CODE	MOUNT CTRS	POST TO POST
350mm	KP0020	286mm	366mm
400mm	KP0026	336mm	416mm
450mm	KP0021	386mm	466mm
550mm	KP0022	486mm	566mm
600mm	KP0023	536mm	616mm

### HEAVY DUTY CHASSIS SUPPORT ANGLES

Heavy Duty Chassis Support Angles provide restricted lateral movement of 19-inch equipment. Recommended for use with intermediate mounting posts - see page 4.16

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.

**Supplied:** In pairs with fixings.

**Load rating:** 170kg max (evenly distributed).



DEPTH	PART CODE	MOUNT CTRS	POST TO POST
650mm	401C00046500	586mm (293+293)	666mm
830mm	401C00048300	762mm	842mm
917mm	401C00049900	853mm (426.5+426.5)	933mm

### ROOF-MOUNTED QUICK-CHANGE FAN UNIT (SERVERSMART CAB/SMART CAB VERSION)

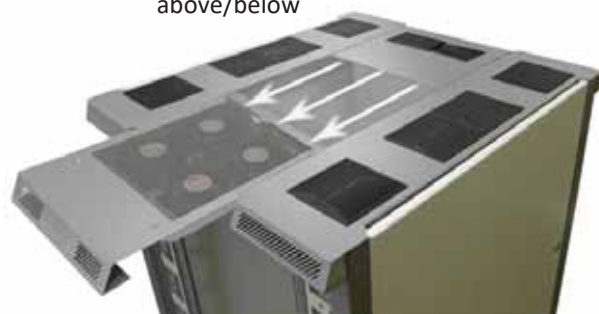
Cannon’s patented Quick-Change fan unit allows removal in seconds without the need to remove active equipment in the top positions within the cabinet and without the need to remove the cabinet roof or overhead cable trays.

- The Quick-Change fan tray allows the fan unit to be omitted during initial installation for fitting at a later time, and if heat loads warrant; this also simplifies project planning.
- The 3 pin IEC connection to the rear of the fan unit ensures an instant electrical break when fan is removed providing immediate safety.
- No flying leads exist, avoiding danger of entanglement or shorting out.
- Deep server cabs need roof cooling fans to be positioned further towards the rear of the cabinet for maximum efficiency, as fans too near the front of cabinet will starve cooling air flow to the front of servers ; Cannon Quick-Change fan unit can instantly be fitted to rear of the roof achieving this critical benefit.
- Front face of fan unit is set back (recessed) from roof edge as this provides protection for LED indicators and alarms when fitted.
- 2, 4 and 6 fan Quick-Change fan units available (230v 50Hz).

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.  
Other colours available on request.



Quick-Fit Fan Unit (ServerSmart Cab/SmartCab versions only – SMARTCAB example shown above/below)



NUMBER OF FANS	PART CODE 13A PLUG 3A FUSE 3M LEAD	PART CODE 13A PLUG 3A FUSE 3M LEAD LOW SMOKE ZERO HALOGEN	Power Block 2M LEAD IEC C14 <b>OPTIONAL</b>	Power Block 2M LEAD IEC C14 LOW SMOKE ZERO HALOGEN <b>OPTIONAL</b>	Power Block 5M Orange Lead 3A FUSE 13A UK PLUG LSZH	Power Block Double 5M Orange Lead 3A FUSE 13A UK PLUG LSZH	Power Block 3M Orange Lead 3A UK LSZH
2	705E01510202	705E01510202LSZH	705E01580002	705E01580002LSOH	705E01510012	705E01510025	705E01510013
4	705E01510402	705E01510402LSZH	705E01580002	705E01580002LSOH			
6	705E01510602 <i>FOR USE ON 800 to 1200 DEEP CABS ONLY</i>	705E01510602LSZH <i>FOR USE ON 800 to 1200 DEEP CABS ONLY</i>	705E01580002	705E01580002LSOH			

#### SERVER SMART CAB & SMART CAB ROOF PANEL REFERENCE CHART

SIZE	SMART CAB		SERVER SMART	
	STANDARD PANEL	<b>FAN PANEL</b>	STANDARD PANEL	<b>FAN PANEL</b>
2	318C01345600	<b>318C01345601</b>	318C11345600	<b>318C11345601</b>
4	318C01345600	<b>318C01345601</b>	318C11345600	<b>318C11345601</b>
6	318C01345600	<b>318C01346600</b>	318C11345600	<b>318C11346600</b>

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



### HORIZONTAL FLOW FAN UNIT

The Cannon Quick-Fit 3U 19-inch Horizontal Air Flow Fan Unit can be assembled to the 19-inch equipment mounting posts in Cannon cabinets, or re-located to a new position, in seconds. No more fiddly screws, cage nuts and washers, just two Cannon 1/8 turn Quick-Fit buttons. The unit is designed to assist in the horizontal movement of air where high thermal loads exist, such as in Server applications.

Held in place by two pre-formed hooks and two Quick-Fit buttons.

**Supplied:** Complete with two Cannon Quick-Fit buttons and installed with three axial 230 VAC fans, finger guards and 2m lead with moulded 13 amp plug (230VAC Version Only).

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

#### OPTION 1

**19-inch Mounted Fan Unit which EXHAUSTS warm air horizontally from the cabinet**

- 3 fans
- 2m lead
- 13A fused moulded plug (230VAC option only)

VOLTAGE	PART CODE	NOTE
230VAC	725E03600002	UK PLUG
230VAC	725E03600002LSOH	UK PLUG, Low Smoke Zero Halogen
48VDC	725E03600006	ORANGE 5M CABLE
-48VDC	725E05522303	ORANGE 3M CABLE
230VAC	725E03600007	IEC PLUG 3M ORANGE CABLE
48VDC	725E03600008	WHITE 3M CABLE
230VAC	725E03600009	NO PLUG 3M ORANGE LEAD
230VAC	725E03600010	IEC PLUG 3M BLACK LEAD



#### OPTION 2

**19-inch Mounted Fan Unit which INPUTS cool air horizontally into the cabinet**

- 3 fan
- 230VAC
- 2m lead
- 13A fused moulded plug

VOLTAGE	PART CODE
230VAC (UK PLUG 2M CABLE)	725E03600003
230VAC (UTE/SCHUKO PLUG 2M WHITE CABLE)	725E03600004
230VAC (IEC PLUG 2M WHITE CABLE)	725E03600005

### LOCALLY MONITORED VARIFAN

Equipment Fan Cooling with Local Warning of Failure.

#### Scope

A self-monitoring fan tray to aid cooling of your rack housed equipment. It comprises of up to 6 fans which are electronically controlled. The speed of each fan is monitored and local alarms are triggered as a result of partial or total fan failure. These units can be upgraded to give total remote control and monitoring with the CannonGuard System – contact Cannon for further details.

#### Features

- Incorporates all the advantages of the Roof-Mounted Quick-Change Fan Unit
- Lower average noise levels at normal room temperature
- Extended fan life due to lower average speed
- Fans can be controlled individually or in groups
- Constant or variable temperature range monitoring



#### Specification

- Steel fan tray - standard format is Roof-Mounted Quick-Change Fan Unit – see below for SMARTNET options
- Self-contained electronic control system – upgradeable with CannonGuard
- 2 to 6 fans 12V DC
- Maximum air flow 120cfm per fan at 51dB

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

NUMBER OF FANS	PART CODE	COMMENT
2	155E00305003	SMARTNET ONLY
4	155E00305000	SERVERSMART & SMART CAB
4	155E00305001	SMARTNET ONLY
6	155E00305002	SERVERSMART & SMART CAB

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

### ROOF MOUNTED FAN UNIT (SMART NET VERSION)

- Standard fixing roof mounted fan unit for use with Cannon's Smart Net Cabinet Enclosure
- 2, 4 and 6 fan option available (230VAC 50Hz 45dB per fan)
- Supplied fitted with 3m mains lead and 13 amp UK plug
- Alternative plug options available including commando and IEC
- Fitted with finger guards

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.

Number of Fans	Order Code	Comments
2	135E01424202	Requires Roof Fan Cover Plate*
4	135E01424204	Requires Roof Fan Cover Plate*
6	135E01424206	Requires Roof Fan Cover Plate*
BLANKING PLATE	009C00121200	



### VERTICAL FLOW 19-INCH FAN UNIT

Cannon 19-inch fan units offer simple temperature control by air movement using the 19-inch mounting posts. This is of particular use in wall mounted boxes.

- 1U high, requiring minimal mounting space
- 3 and 4 fan option available, (230V 50Hz 45dB per fan)
- Fitted with finger guards
- Complete with 2m cable and fused, moulded 13 amp plug; option with an IEC socket for mains lead connection

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.

NUMBER OF FANS	PART CODE	PART CODE
	13A	IEC
2	195E01602103	195E01582103
4	195E01603904	195E01582104
6	195E01603906	195E01582106



Image shows SMARTNET Roof Top Fan Cover Plate (excludes fan unit – order separately)

#### \*Smart Net/Server Cabinet Roof Top Fan Cover Plate

CAB Size (w x d)	Order Code
600 x 600	318C00606000
600 x 800	318C00608000
600 x 1000	318C00609900
600 x 1200	318C00601200

CAB Size (w x d)	Order Code
800 x 600	318C00806000
800 x 800	318C00808000
800 x 1000	318C00809900
800 x 1200	318C00801200

### FIXED SHELVES

Cannon Fixed Shelves contain vent slots as standard and will fit any of the Cannon cabinet range. Shelves are fixed between the front and rear mounting posts and are available in various widths and depths. Each shelf is supplied with fixings.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

**Load rating:** 50kg max. (evenly distributed).

- 19-inch Fixed Shelves, for use in any width Cannon Smart Net/Server cabinet where the mounting posts are in the 19-inch equipment position

*Plain (unvented) shelves are available to special order. Quick-Fit option available – See **QUICK FIT SECTION 4.8***



### REINFORCED SHELVES (FOR HEAVY LOADS)

Cannon Vented Reinforced Shelves will fit any Cannon cabinet range. They are fixed between the front and rear mounting posts and are available in various widths and depths. Each shelf is supplied with fixings.

These shelves are specifically strengthened to support evenly distributed loads up to a maximum of 100kg per shelf.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

**Load rating:** 100kg max. (evenly distributed across shelf).

- 19-inch Reinforced Shelves, for use in any width Cannon Smart Net/Server cabinet where the mounting posts are in the 19-inch equipment position.

*Plain (unvented) reinforced shelves are available to special order.*



NOMINAL DEPTH	ACTUAL DEPTH	PART CODE
300mm	286mm	446C00603000
350mm	336mm	446C00603500
400mm	386mm	446C00604000
450mm	436mm	446C00604500
470mm	456mm	446C00604700
500mm	486mm	446C00605000
550mm	536mm	446C00605500
570mm	556mm	446C00605700
600mm	586mm	446C00606000
640mm	626mm	446C00606400
700mm	686mm	446C00607000
800mm	786mm	446C00608000

NOMINAL DEPTH	ACTUAL DEPTH	PART CODE
350mm	336mm	447C00603500
450mm	436mm	447C00604500
550mm	536mm	447C00605500
600mm	586mm	447C00606000
800mm	786mm	447C00608000

*Reference information regarding post positions for both shelf variants*

NOMINAL DEPTH	ACTUAL DEPTH	MOUNT CTRS	POST TO POST
300mm	286mm	236mm	316mm
350mm	336mm	286mm	366mm
450mm	436mm	386mm	466mm
470mm	456mm	406mm	486mm
500mm	486mm	436mm	516mm
550mm	536mm	486mm	566mm
600mm	586mm	536mm	616mm
640mm	626mm	576mm	656mm
700mm	686mm	636mm	716mm
800mm	786mm	736mm	816mm

### TELESCOPIC SHELVES

Cannon Telescopic Shelves contain vents slots as standard and will fit any of the Cannon cabinet range\*. They are fixed between the front and rear mounting posts and are available in various widths and depths. Each shelf is supplied with fixings.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.

**Load rating:** 40kg max (evenly distributed).

*Plain (unvented) shelves are available to special order.*

Quick-Fit option available – See QUICK FIT SECTION 4.9

\*19-inch Telescopic Shelves, for use in any width Cannon cabinet where the mounting post are in the 19-inch equipment position.



NOMINAL DEPTH	ACTUAL DEPTH	PART CODE
450mm	436mm	525B01604500
550mm	536mm	525B01605500
600mm	586mm	525B01606000

### DEPTH ADAPTING SHELF

Cannon depth adapting shelves allow the installation of shelves within a Cannon cabinet at any depth fixing centres of the 19-inch panel mounting verticals. Two piece assembly, simply slides apart to the depth required.

**Supplied:** Complete with all fixings.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.

**Load rating:** 100kg max. (evenly distributed across shelf).

MINIMUM CABINET DEPTH	EXTENSION RANGE	PART CODE
600mm	350 - 550mm	535B01605600
800mm	432 - 750mm	535B01607601
1000mm	538 - 970mm	535B01609601
1000MM	538 - 970mm	<b>535B01609602*</b>



**535B01609602\***  
INCLUDES ADDITIONAL VENT SLOTS

Depth Adapting Shelf

### CANTILEVER SHELVES (FOR MODEMS, ETC)

Cannon cantilever shelves contain vent slots as standard and are designed to support lightweight equipment such as modems. Shelves fit directly to the front 19-inch mounting posts using front panel fixings which are not supplied with the shelves and **must be ordered separately**.

These shelves occupy 1U or 2U of front panel space dependent upon the depth chosen.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

**Load rating:** 20kg max (evenly distributed).

Quick-Fit option available – See QUICK FIT SECTION 4.8



HEIGHT	DEPTH	PART CODE
1U	190mm	341C01601900
1U	250mm	341C01602500
2U	250mm	341C02602500
2U	350mm	341C02603500
2U	400mm	341C02604000
2U	500mm	341C02605000
4U	500mm	341C04605000



### 19" MOUNTING POSTS

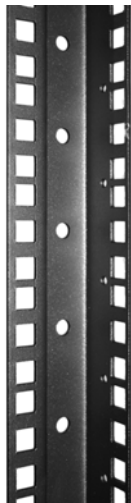
(ETSI OPTION\* FOR 800W CABS  
REQUIRES 75mm INFILL SEE 4.17)

Cannon mounting posts are available in a variety of sizes to suit various situations and to offer complete mounting flexibility of equipment.

**Please note:** Split height mounting posts may be fitted to accommodate varying equipment depths at front or rear. Depth Support Members (See below) may also be required when using intermediate sized posts i.e. smaller U height than cabinet height.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Other colours available on request.*



U HEIGHT	PART CODE	U HEIGHT	PART CODE
3U	292C03000003	28U	292C03000028
4U	292C03000004	29U	292C03000029
5U	292C03000005	30U	292C03000030
6U	292C03000006	31U	292C03000031
8U	292C03000008	32U	292C03000032
9U	292C03000009	33U	292C03000033
10U	292C03000010	35U	292C03000035
11U	292C03000011	36U	292C03000036
12U	292C03000012	37U	292C03000037
13U	292C03000013	38U	292C03000038
14U	292C03000014	39U	292C03000039
15U	292C03000015	40U	292C03000040
16U	292C03000016	41U	292C03000041
17U	292C03000017	42U	292C03000042
18U	292C03000018	43U	292C03000043
19U	292C03000019	44U	292C03000044
20U	292C03000020	45U	292C03000045
21U	292C03000021	47U	292C03000047
22U	292C03000022	48U	292C03000048
23U	292C03000023	49U	292C03000049
24U	292C03000024	50U	292C03000050
25U	292C03000025	51U	292C03000051
26U	292C03000026	52U	292C03000052
27U	292C03000027	54U	292C03000054

**\*ETSI OPTION MOUNTING POSTS 25mm PITCH REF IEC917-2-1**

SU HEIGHT	PART CODE
16SU	294C10050301
16SU	294C10050302
41SU	294C24050301
41SU	294C24050302
58SU	294C58030301
58SU	294C58030302
62SU	294C62030301
62SU	294C62030302
74SU	294C74030301
74SU	294C74030302
82SU	294C82030301
82SU	294C82030301

**ETSI TO 19" CONVERSION PLATE**

U HEIGHT	PART CODE
1U	002C01040001
2U	002C02040001
6U	002C06040001
45U	002C47040001

**'U' Height identification labels see Page 4.32**

### INTERMEDIATE MOUNTING POSTS

Cannon shelf mounting posts offer support for alternative depths of equipment, such as shelves and/or support runners, positioned between standard Cannon mounting posts.

**Please note:** Depth Support Members (See below) may also be required when using intermediate sized posts i.e. smaller U height than cabinet height.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Other colours available on request.*



U HEIGHT	PART CODE
12U	293C01000012
18U	293C01000018
21U	293C01000021
25U	293C01000025
26U	293C01000026
27U	293C01000027
33U	293C01000033
37U	293C01000037
38U	293C01000038
39U	293C01000039
40U	293C01000040
42U	293C01000042
45U	293C01000045
47U	293C01000047
48U	293C01000048
52U	293C01000052

### POST RECESS BRACKET

Set back depth members (panels mounting post supports) increase the cabling space on each side of the cabinet at rear by 28mm giving an extra 56mm space in the back of a 600mm wide cabinet. SMARTNET/BROADCAST

Picture below shows wider cabling capacity at sides using 901C02050400 (normally 3 to 4 per mounting post)



### DEPTH SUPPORT MEMBERS

Cannon Quick-Fit depth support members are available in single or double width, can be quickly and easily installed, to provide additional support for mounting posts or accessories vertically mounted at the side of Cannon cabinets e.g. cable trays, PDUs (Power Distribution Units) etc.

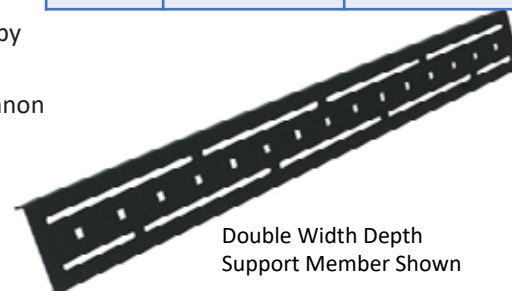
Each end of the depth member is rigidly retained by the internal profile of the Cannon cabinet corner post. Its height position can be varied as required in 1U increments (to match the punched fixing holes in the 19-inch mounting posts) by sliding it up or down within the Cannon cabinet corner post.

Quick-Fit depth support members are available in six standard sizes to suit Cannon cabinet depths of 400, 600, 800, 900, 1000 and 1200mm.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Other colours available on request.*

CABINET DEPTH	PART CODE (DOUBLE WIDTH)	PART CODE (SINGLE WIDTH)
400mm	398C02004000	392C01004000
600mm	398C02006000	392C01006000
800mm	398C02008000	392C01008000
900mm	398C02009000	392C01009000
1000mm	398C02009900	392C01009900
1200mm	398C02001200	392C01001200



Double Width Depth Support Member Shown

### VERTICAL INFILL PANELS

The primary use of Cannon Infill Panels is to maintain 19-inch equipment practice in various widths of cabinets. Additional fixing points throughout the height of the Infill Panels provide useful cable management mounting options. See pages 5.2 - 5.8.

Infill Panel Mouldings are available as part of the AIR-LOKK System to restrict air-flow whilst allowing cable access.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Other colours available on request.

*Please note: Cannon cabinets are supplied with Infill Panels as standard:*

- 700mm wide cabinet supplied with 50mm Infills.
- 800mm wide cabinet supplied with 100mm Infills. (\*For ETSI rack mounting posts 4.16 use 75mm)



Infill Panel fitted with AIR-LOKK Infill Panel Mouldings to manage airflow within the cabinet, whilst allowing cabling as required.

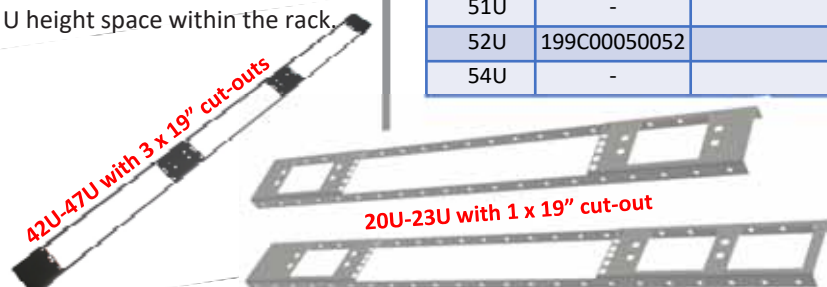
See Section 5.2 for details

CABINET U HEIGHT	PART CODE (50mm INFILL PANELS)	*PART CODE (75mm INFILL PANELS)	PART CODE (100mm INFILL PANELS)
2U	-		201C00100002
3U	-		201C00100003
4U	-		201C00100004
5U	199C00050005		201C00100005
6U	199C00050006		201C00100006
8U	-		201C00100008
9U	199C00050009		201C00100009
10U	199C00050010	202C00070010	201C00100010
11U	199C00050011		201C00100011
12U	199C00050012		201C00100012
13U	-		201C00100013
14U	199C00050014		201C00100014
15U	199C00050015		201C00100015
16U	199C00050016		201C00100016
17U	-		201C00100017
18U	199C00050018		201C00100018
20U	199C00050020		201C00100020
21U	-		201C00100021
22U	-		201C00100022
23U	-		201C00100023
24U	199C00050024	202C00070024	201C00100024
25U	199C00050025		201C00100025
26U	199C00050026		201C00100026
27U	199C00050027		201C00100027
29U	-		201C00100029
31U	-		201C00100031
32U	199C00050032		201C00100032
33U	199C00050033	202C00070033	201C00100033
35U	199C00050035		201C00100035
36U	199C00050036		201C00100036
37U	199C00050037		201C00100037
38U	-		201C00100038
39U	199C00050039		201C00100039
40U	-		201C00100040
42U	199C00050042	202C00070042	201C00100042
43U	-		201C00100043
45U	199C00050045		201C00100045
47U	199C00050047	202C00070047	201C00100047
48U	-		201C00100048
49U	-		201C00100049
50U	-		201C00100050
51U	-		201C00100051
52U	199C00050052		201C00100052
54U	-		201C00100054

### VERTICAL INFILL PANELS WITH CUT OUTS

Infill panels for 800W range of Cannon 19" cabs supplied with cut outs to accommodate the vertical mounting of 19-inch equipment such as PDU's & Patch Panels without infringing on the U height space within the rack.

CABINET U HEIGHT	PART CODE
20U	202C20100202
23U	202C23100202
42U	202C42100202
45U	202C45100202
47U	202C47100202



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

## CANNON HINGED COVER PANEL

- DESIGNED TO PROTECT VALUABLE CABLE MANAGEMENT INCLUDING COPPER AND FIBRE
- HINGED COVER IS HELD FIRMLY IN PLACE BY MAGNETIC CATCH
- HINGED COVER FIXED TO CANNON SUPPORT MEMBERS
- Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Height	Width	Part Code
U	mm	HINGED COVER PANEL ONLY
25	100	CA-HCP-1025
27	100	CA-HCP-1027
42	100	CA-HCP-1042
45	100	CA-HCP-1045
47	100	CA-HCP-1047
52	100	CA-HCP-1052

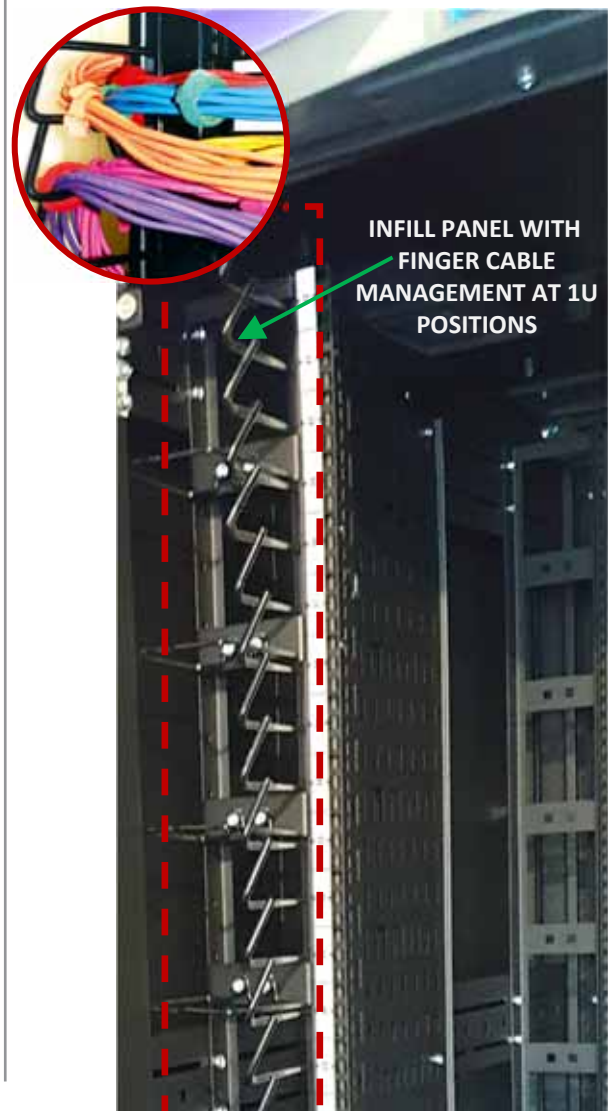


**HINGED COVER PANEL SHOWN IN CLOSED (PICTURE ABOVE) AND POSITIONS OPEN (PICTURE AT RIGHT)**

## CANNON INFILL WITH FINGERS

- EXCEPTIONAL CABLE MANAGEMENT FOR LARGE CABLE VOLUMES (EXCLUDES VERTICAL MANAGEMENT RINGS, SEE SECTIONS 4.22 & 4.23 FOR OPTIONS)
- CABLES ARE HELD BY WITH ROBUST, ROUNDED CABLE FINGERS BLACK PLASTIC COATED (NYLON 66-5/E TO 94 VO1.5/2.0 MS).
- CAN BE INSTALLED WITHIN THE SMART RANGE OF 800 WIDE CABINETS AND PROVIDES HIGH DENSITY CABLE MANAGEMENT OPTION FOR COPPER AND FIBRE CABLES
- CANNOT BE INSTALLED WITH KP0501-XX AIR BLOCK KIT OR NR214/244 OR 245 (CONTACT CANNON FOR INFILL AIR BLOCK OPTIONS)**

Height	Part Code
U	INFILL WITH FINGERS
25	CA-INFILL-FING-1025
27	CA-INFILL-FING-1027
42	CA-INFILL-FING-1042
45	CA-INFILL-FING-1045
47	CA-INFILL-FING-1047
52	CA-INFILL-FING-1052







**EXPLODED VIEW ABOVE SHOWING EXTENSION FRAME IN BLUE FOR REFERENCE ONLY.**



\*Optional cable tray available on request

### CABINET EXTENSION FRAME

- Provide effective expansion for customer onsite Cannon SMART racks and cabinets.
- Optional cable tray available shown in table below.
- May be fitted to front or rear face or both faces.
- Will accommodate the original door(s).
- Additional sizes on request; please contact Cannon sales representative for further details.

**Supplied:** 1 kit.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.

HEIGHT	WIDTH x DEPTH	PART CODE	OPTIONAL CABLE TRAY
42U	600W x 100D	965B4260100CN	047C00000642*
42U	600W x 150D	965B4260150CN	047C00001042*
42U	600W x 200D	965B4260200CN	047C00001542*
42U	800W x 100D	965B4280100CN	047C00000642*
42U	800W x 150D	965B4280150CN	047C00001042*
42U	800W x 200D	965B4280200CN	047C00001542*
45U	600W x 100D	965B4560100CN	047C00000645*
45U	600W x 150D	965B4560150CN	047C00001045*
45U	600W x 200D	965B4560200CN	047C00001545*
45U	800W x 100D	965B4580100CN	047C00000645*
45U	800W x 150D	965B4580150CN	047C00001045*
45U	800W x 200D	965B4580200CN	047C00001545*
47U	600W x 100D	965B4760100CN	047C00000647*
47U	600W x 150D	965B4760150CN	047C00001047*
47U	600W x 200D	965B4760200CN	047C00001547*
47U	800W x 100D	965B4780100CN	047C00000647*
47U	800W x 150D	965B4780150CN	047C00001047*
47U	800W x 200D	965B4780200CN	047C00001547*

**NOTE: \*CABLE TRAY ABOVE WILL ALSO REQUIRE THE FOLLOWING TO ALLOW INSTALLATION INTO EXTENSION FRAME:**

ITEM	QTY	PART CODE	DESCRIPTION
1	8	NR004	NYLON STANDOFF 25.4 H x 6.3 ID
2	8	FMW1460625P	M6 PENNY WASHER BZP
3	8	FMN08206P	M6 FLANGED NUT HEX BZP



## CABLE TRAYS (FOR VERTICAL CABLING)

Cannon PVC UL94 V-0 Rated Betaduct or Steel Cable Tray provide an attractive and very durable product for exceptional, simple cable management and in order to provide a neat support for cabling, the cable tray fits vertically to the depth supports within the cabinet. Steel Cable Tray has fixing slots located at the 'U' heights and offer a modular design appropriate with any Cannon cabinet or rack. No additional drilling is required, however you may require additional depth supports for shorter lengths than cabinet U height.

PVC UL94 V-0 BETADUCT have 25 pitch fixing points and 8mm slots are 20mm pitch.

Cable Tray Finish: Black RAL9005 or Grey White RAL9002.

CABLE TRAY  
(SEE TABLE BELOW)

### BETADUCT

LENGTH	60 x 60mm	80 x 80mm
2m	CA265-60X60	CA265-80X80



Soft  
Edge

HEIGHT	50mm WIDE	75mm WIDE	100mm WIDE	150mm WIDE	200mm WIDE	250mm WIDE	300mm WIDE	400mm WIDE	500mm WIDE
7U	-	047C00000707	-	-	-	-	-	-	-
10U	-	047C00000710	-	-	-	-	-	-	-
11U	-	-	047C00001011	-	-	-	-	-	-
12U	047C00000512	047C00000712	047C00001012	047C00001512	-	-	-	-	-
13U	-	047C00000713	-	047C00001513	-	-	-	-	-
15U	047C00000515	-	047C00001015	047C00001515	047C00002015	-	-	-	-
16U	-	047C00000716	047C00001016	-	-	-	-	-	-
17U	-	-	047C00001017	-	-	-	-	-	-
18U	-	047C00000718	047C00001018	047C00001518	047C00002018	-	047C00003018	-	-
20U	-	-	047C00001020	047C00001520	-	-	047C00003020	-	-
21U	-	-	-	047C00001521	-	-	-	-	-
22U	-	-	047C00001022	047C00001522	-	-	047C00003022	-	-
23U	-	-	047C00001023	-	-	-	047C00003023	-	-
24U	-	047C00000724	047C00001024	047C00001524	-	-	-	-	-
25U	047C00000525	-	047C00001025	047C00001525	047C00002025	-	047C00003025	-	-
26U	-	-	-	-	047C00002026	-	-	-	-
27U	-	-	047C00001027	047C00001527	047C00002027	-	047C00003027	-	-
28U	-	-	-	-	047C00002028	-	-	-	-
30U	-	047C00000730	-	-	-	-	-	-	-
31U	-	-	-	-	047C00002031	047C00002531	047C00003031	-	-
32U	-	047C00000732	047C00001032	047C00001532	-	-	-	-	-
33U	-	047C00000733	047C00001033	047C00001533	047C00002033	-	047C00003033	-	-
35U	-	-	047C00001035	-	-	-	047C00003035	-	-
36U	-	047C00000736	047C00001036	047C00001536	047C00002036	-	-	-	-
37U	-	-	047C00001037	047C00001537	-	-	047C00003037	-	-
38U	-	-	-	047C00001538	-	-	-	-	-
39U	047C00000539	047C00000739	047C00001039	047C00001539	047C00002039	047C00002539	047C00003039	-	-
40U	-	-	-	047C00001540	-	-	-	-	-
41U	-	-	047C00001041	047C00001541	-	-	047C00003041	-	-
42U	047C00000542	047C00000742	047C00001042	047C00001542	047C00002042	047C00002542	047C00003042	047C00004042	047C00005042
43U	-	-	047C00001043	047C00001543	-	-	-	-	-
45U	047C00000545	047C00000745	047C00001045	047C00001545	047C00002045	-	047C00003045	047C00004045	-
46U	-	-	-	047C00001546	-	-	-	-	-
47U	047C00000547	047C00000747	047C00001047	047C00001547	047C00002047	047C00002547	047C00003047	047C00004047	047C00005047
48U	-	-	-	047C00001548	047C00002048	-	047C00003048	-	-
							047C00003049	-	-
50U	-	-	-	-	047C00002050	-	-	-	-
52U	-	-	047C00001052	047C00001552	047C00002052	-	047C00003052	-	-
54U	-	-	047C00001054	-	-	-	047C00003054	-	-

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

**THROUGH-CABLING APERTURE FRAME**

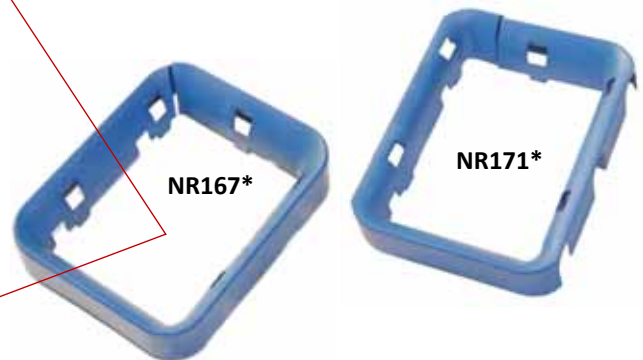


- Provide effective bend radius control for through-cabling apertures on Cannon racks and cabinets
- Cannon moulded, through-cabling aperture frames, ensure that bend radius control is provided to an often neglected cabling path
- The CannonThrough-Cabling Aperture Frame is designed to support CAT5e, CAT6, CAT7 and fibre installation standards
- May be fitted to one face or both faces of a through cabling window
- Aperture size through window frame is 73mm x 96mm
- Through-Cabling Aperture Frame clips into any aperture of 77mm x 100mm where the metal panel thickness is 1.5mm to 2.2mm
- Compatible with Vertical Cable Management Rings 110mm x 50mm and 110mm x 100mm

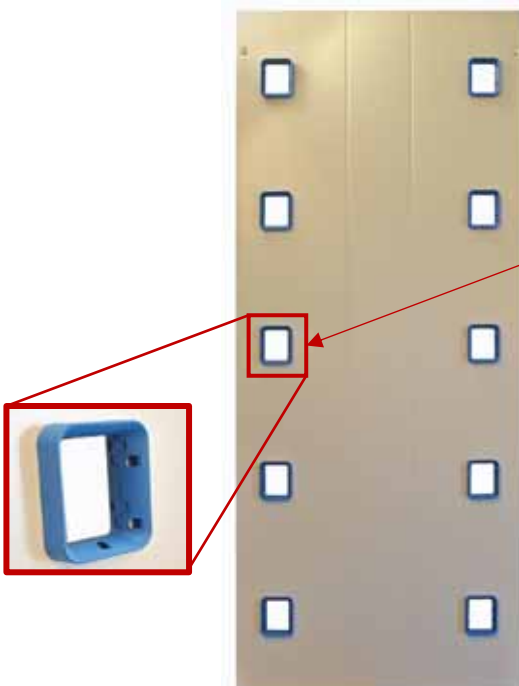
HEIGHT	FRONT ONLY	FRONT & REAR
25U	16-off	32-off
42U	28-off	56-off
47U	32-off	64-off

**Supplied:** Individual or packs of 10.

**Finish:** Blue plastic.



**\*NR167 & NR171 may be installed as a pair to front & rear of infill panel to provide maximum protection & cable management for fibre**



SIZE	PART CODE	QTY	COMMENTS
100mm x 123mm	CA162	10	Front Through cabling Aperture Frame*
100mm x 123mm	NR167	1	Front Through cabling Aperture Frame*
95mm x 123mm	NR171	1	Rear Through cabling Aperture Frame*

*For Side Panels fitted with blue mouldings see page 4.5*

**BLUE NYLON CABLE MANAGEMENT RINGS FOR 800MM WIDE CABINETS.**

Cannon Blue Nylon Cable Management fit directly onto the front or rear faces of each infill panel and are available in sizes in chart below:

**RECOMMENDED QUANTITIES PER INFILL**

INFILL PANEL SIZE	MAXIMUM NUMBER OF CABLE RINGS PER INFILL PANEL
4U to 8U	1
9U	2
10U to 13U	3
14U to 17U	4
18U	5
19U to 22U	6
23U to 25U	7
26U to 29U	8
30U to 31U	9
32U to 33U	10
35U to 36U	11
37U to 39U	12
40U to 43U	13
45U to 47U	14
48U to 49U	15
50U to 51U	16
52U to 55U	17



NR181



NR182



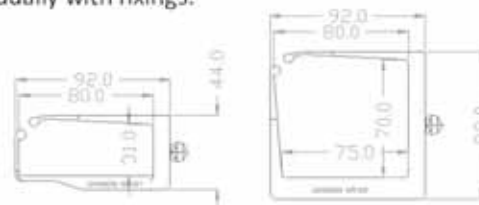
NR168



SIZE	PART CODE	QTY	COMMENTS
100mm x 100mm	NR168	1	"C" shape cable management ring
125mm x 141mm	NR169	1	"C" shape cable management ring
123mm x 141mm	NR180	1	"C" shape cable management ring
92mm x 44mm	NR181	1	Cable Management Ring
92mm x 88mm	NR182	1	Cable Management Ring

**Materials & Finish:** Nylon 66-S/E to 94 VO SKY BLUE RAL 5015.

**Supplied:** Individually with fixings.

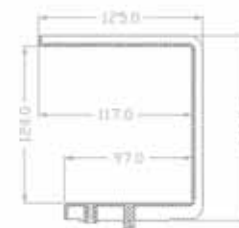


NR181

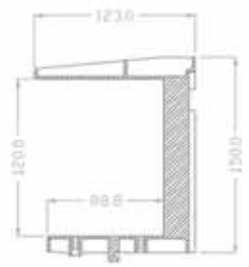
NR182



NR168



NR169



NR180

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



**VERTICAL CABLE  
MANAGEMENT RINGS FOR  
800MM WIDE CABINETS.**

Cannon vertical cable management rings fit directly onto the front or rear faces of each infill panel and are available in two sizes:

- 90mm x 60mm
- 90mm x 90mm

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

**Supplied:** Individually with fixings.



RING SIZE	PART CODE
90mm x 60mm	711C00090600
90mm x 90mm	711C00090900



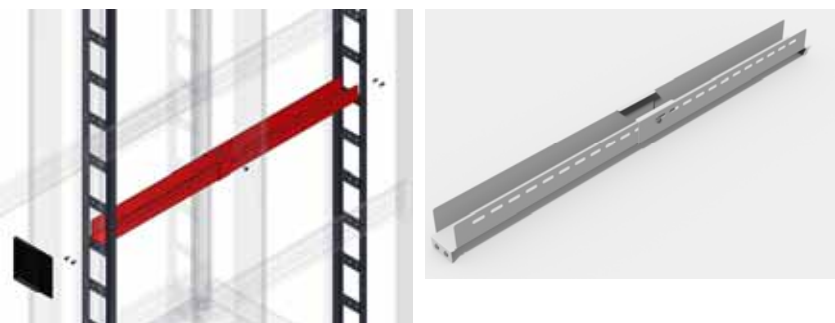
**TELESCOPIC CABLE  
TROUGH.**

Cannon telescopic cable trough fits directly to the 800 wide infill panels installed to CANNON SMART cab range. They allow:

- Cable management between the front and rear of installed equipment within the 19" area.
- Closed position: 536mm
- Maximum telescopic position: 950mm

**Materials & Finish:** Powder coated MS.

**Supplied:** Individually with fixings.



DESCRIPTION	PART CODE
TELESCOPIC CABLE TROUGH 536mm – 950mm	925B02058001

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



## PLASTIC COATED VERTICAL CABLE MANAGEMENT RINGS FOR 800MM WIDE CABINETS.

Cannon Vertical Cable Management Rings fit directly onto the front or rear faces of each infill panel and are available in four sizes:

- 60mm x 50mm
- 60mm x 100mm
- 110mm x 50mm
- 110mm x 100mm

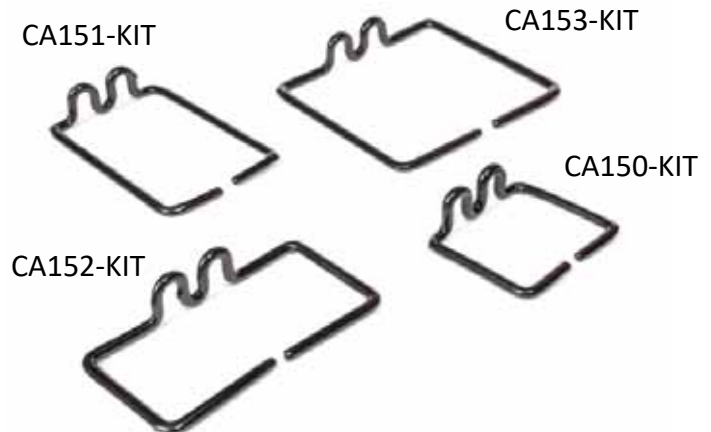
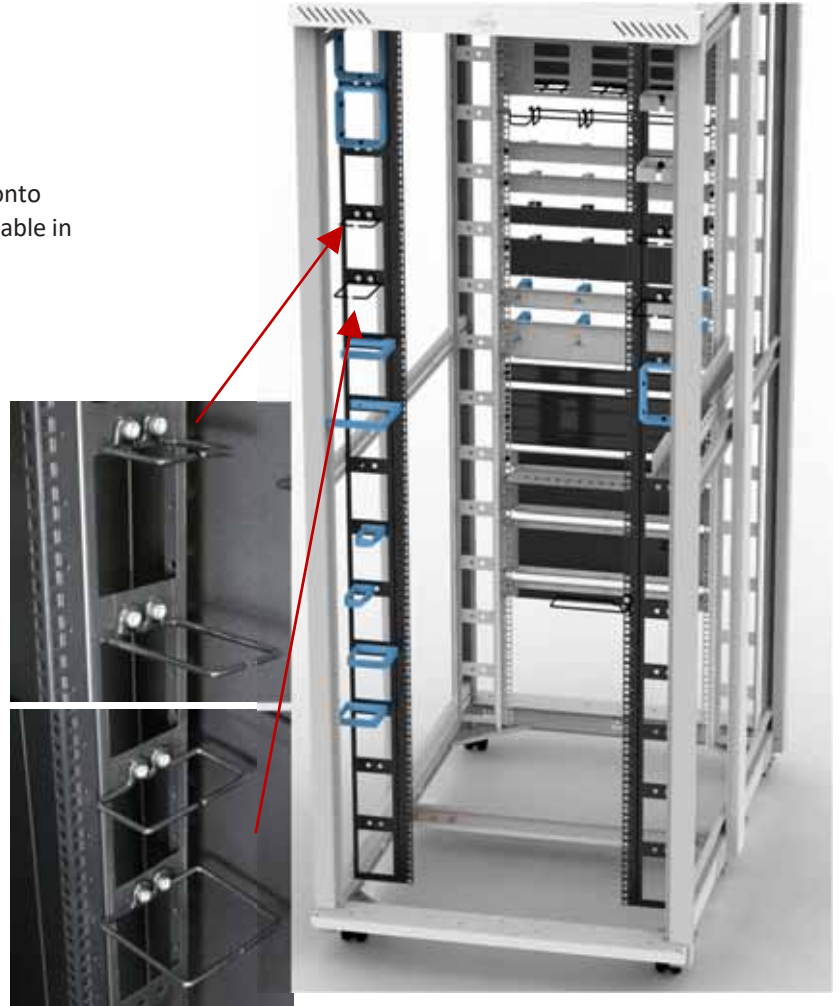
**Materials & Finish:** Black plastic coated (Nylon 66-S/E to 94 VO 1.5/2.0 MS).

**Supplied:** Individually with fixings.

RING SIZE	PART CODE	COMMENTS
60mm x 50mm	CA150-KIT	To fit either 50mm or 100mm infill panels
60mm x 100mm	CA151-KIT	To fit either 50mm or 100mm infill panels
110mm x 50mm	CA152-KIT	To fit 100mm infill panels
110mm x 100mm	CA153-KIT	To fit 100mm infill panels

### RECOMMENDED QUANTITIES PER INFILL

INFILL PANEL SIZE	MAXIMUM NUMBER OF CABLE RINGS PER INFILL PANEL
4U to 8U	1
9U	2
10U to 13U	3
14U to 17U	4
18U	5
19U to 22U	6
23U to 25U	7
26U to 29U	8
30U to 31U	9
32U to 33U	10
35U to 36U	11
37U to 39U	12
40U to 43U	13
45U to 47U	14
48U to 49U	15
50U to 51U	16
52U to 55U	17

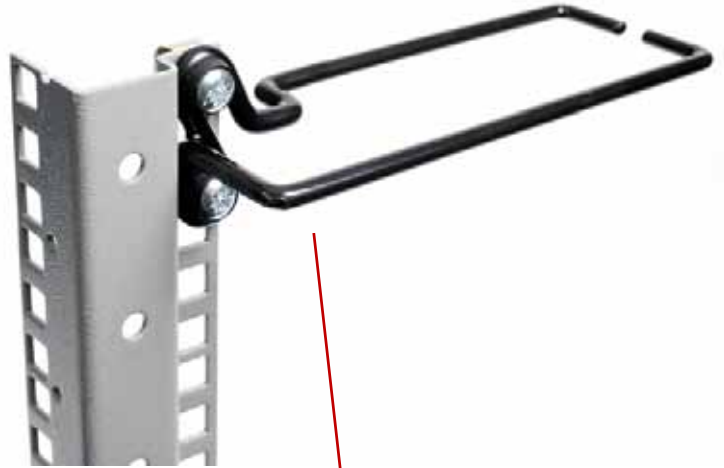


### 1U CABLE RINGS

These Cannon 1U cable rings fit to the side flange of 19-inch mounting posts to provide a neat cable management function.

**Materials & Finish:** Mild steel with a thick black plastic coating.

**Supplied:** Individually with fixings.



DESCRIPTION	CABLE CAPACITY	PART CODE
1U CABLE RING	150mm x 50mm	CA154-KIT



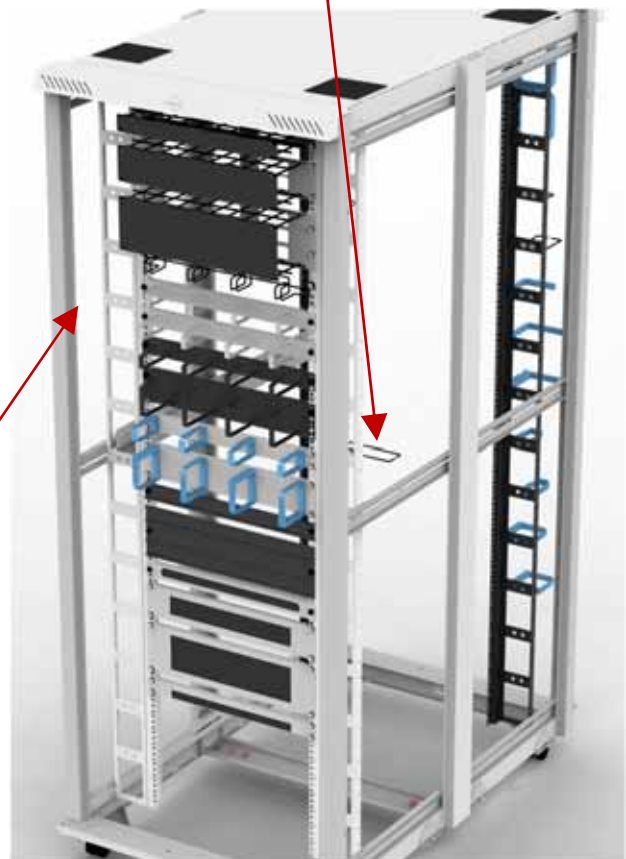
### CORNER POST CABLE RINGS

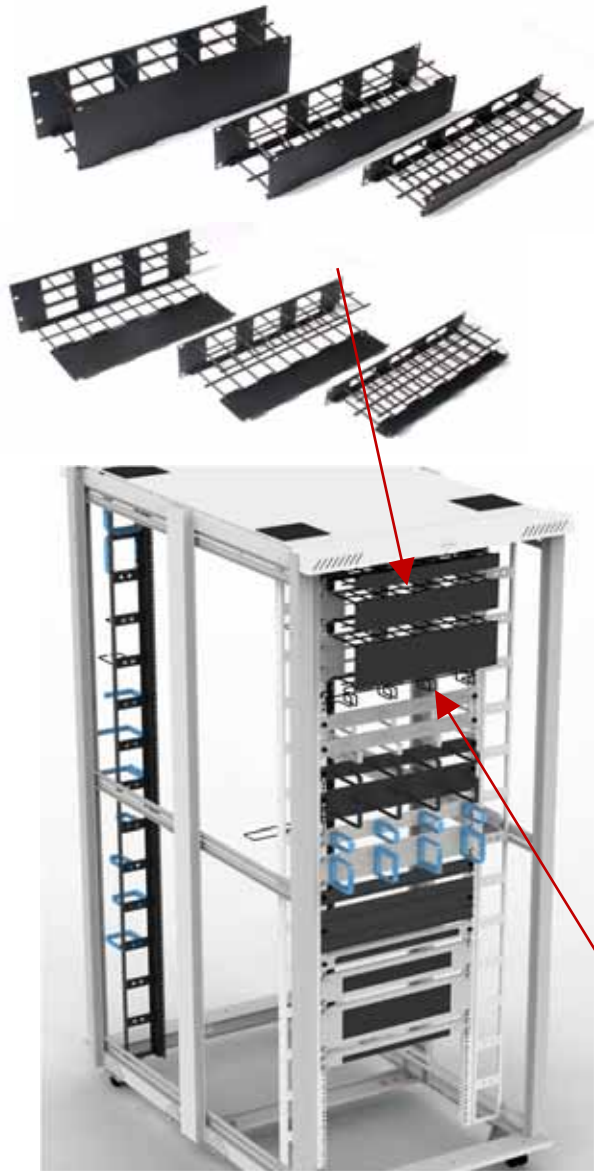
A simple twist and turn action locates this cable ring securely into the corner post profile enabling simple and accurate vertical cable management into all cabinet corner posts. **No fixings required!**

**Materials & Finish:** Spring steel with a thick black plastic coating.

**Supplied:** Individually.

DESCRIPTION	CABLE CAPACITY	PART CODE
CORNER POST CABLE RING	38mm X 38mm	CA156





**MULTI ENTRY 19-INCH CABLE BASKET**

High capacity cable management baskets for use within the 19-inch rack mount area.

**Features & Benefits**

- Multiple cable entry, in any direction
- Optional 'U' heights to optimise space deployment
- Hinged, drop door at front to hide/protect cabling whilst still providing easy access
- Attractive high tech appearance
- Robust and versatile
- Simplifies rack wiring and configuration
- Will fit any 19-inch rack

High capacity  
Provides easy and rapid cable management Extremely cost effective

Three sizes available: 1U, 2U and 3U.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.

SIZE	PART CODE
1U	CA211
2U	CA212
3U	CA213

**1U CABLE MANAGEMENT PANEL**

Cannon Cable Management Panels fit directly onto the 19-inch equipment mounting posts of Cannon cabinets and have been designed to provide user-friendly cabling support.

- Eliminates cable chaffing
- Allows through cabling
- Open design allows easy use of cable ties or CANNON WRAP if required.
- CANNON WRAP can be found on **page 4.28**

**Materials & Finish:** Mild steel welded construction with a thick black plastic coating

NB: Fixings required - see front panel fixing kit page 4.28



DESCRIPTION	PART CODE
1U CABLE MANAGEMENT PANEL	CA155-KIT



### 1U & 2U CABLE MANAGEMENT PANELS

Cannon Cable Management Panels fit directly onto the 19-inch equipment mounting posts and are designed to provide user-friendly cabling support.

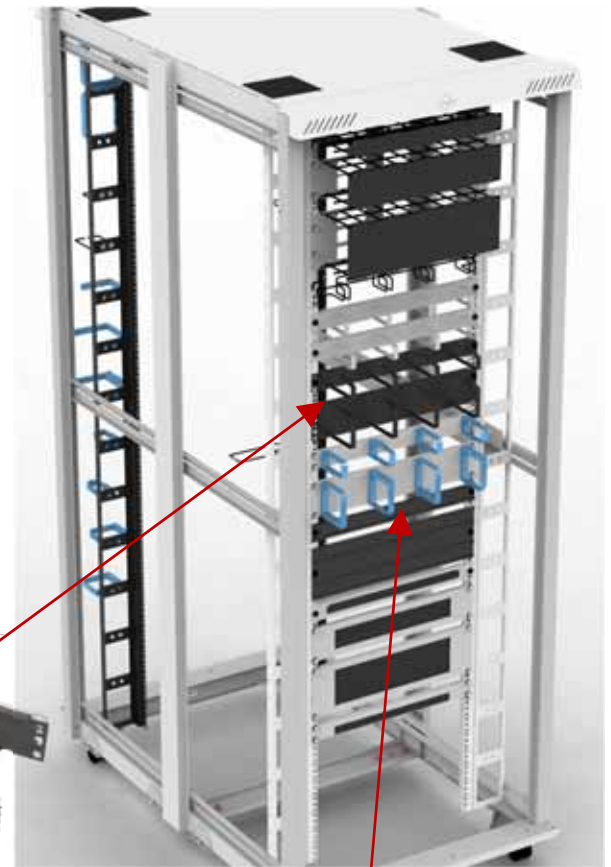
- Eliminates cable chaffing
- Allows through cabling
- Open design allows easy use of cable ties or CANNON WRAP if required.
- CANNON WRAP can be found on [page 4.28](#)

**Material & Finish:** 1.5mm steel, painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

NB: Fixings required - [see front panel fixing kit page 4.28](#)

DESCRIPTION	PART CODE
19" 1U RING SIZE 60mm D x 30mm H	702C01600601
19" 1U RING SIZE 90mm D x 30mm H	702C01600901
19" 2U RING SIZE 90mm D x 74mm H	702C02600902
19" 3U RING SIZE 90mm D x 128mm H	702C03600902



### 1U & 2U CABLE MANAGEMENT PANELS

Cannon Cable Management Panels fit directly onto the 19-inch equipment mounting posts and are designed to provide user-friendly cabling support.

- Eliminates cable chaffing via NYLON guides
- Allows through cabling
- Open design allows easy use of cable ties or CANNON WRAP if required.
- CANNON WRAP can be found on [page 4.28](#)

**Material & Finish:** 1.5mm steel, painted Black RAL9005 or Grey White RAL9002 & Blue Guides Nylon 66-S/E to 94 VO SKY BLUE RAL 5015.

NB: Fixings required - [see front panel fixing kit page 4.28](#)



DESCRIPTION	PART CODE
19" 1U RING SIZE 92mm D x 44mm H	CA158
19" 2U RING SIZE 92mm D x 88mm H	CA159



**CANNON WRAP**

- Self gripping enabling easy containment of cable bundles.
- Reduces possibility of damage to cabling.
- Softer than traditional plastic cable ties.
- Available in 20m roll – cut to any length for your own requirements.

**Colour:**  
Black with white text.



DESCRIPTION	PART CODE
CANNON WRAP	CA161



**FRONT PANEL FIXINGS**

Cannon front panel fixings consist of:

- M6 Cage nuts
- Cup washers
- M6 Pan Head Pozidrive screws
- Supplied in a bag of 25/50/100 sets.



QUANTITY	PART CODE
25	KP0276
50	KP0004
100	KP0275

**MIKEY BUTTONS**

- Quick-Fit Fasteners for 19-inch panel mounting – **10 per kit**
- **MI**cro Turn (1/8 turn to fix)
- **KEY**less/Tool-less
- Large ears provide easy grip for Quick-Fit mounting of Cannon 19-inch panels and cable management rings
- No more fiddly cage nuts
- Re-usable, quick, reliable



DESCRIPTION	PART CODE
MiKEY BUTTON	KP0323

**QUICK-FIT BUTTONS (1/8 TURN)**

- Quick-Fit Buttons fit Cannon Quick-Fit Accessories.



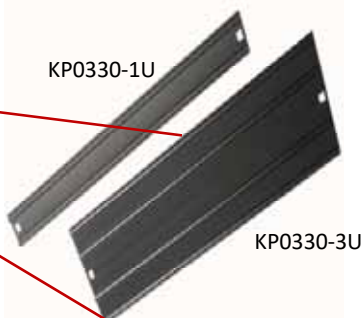
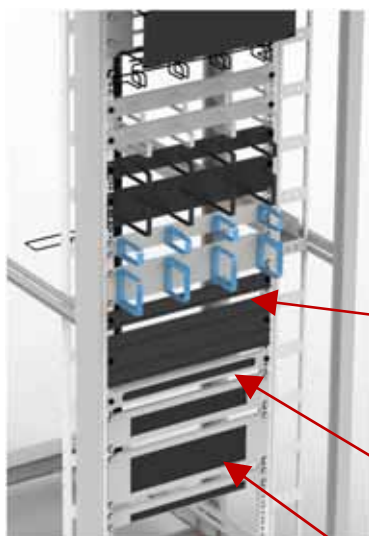
QUANTITY	PART CODE
20	KP0120
100	KP0121

### QUICK-FIT 19-INCH PLASTIC BLANKING PANELS

Cannon Quick-Fit 19-inch Plastic blank panels are supplied in **packs of 10** with MiKey Buttons.

Available in 1U & 3U versions.

**Material:** Black Polypropylene UL94V-0.



DESCRIPTION	PART CODE	NOTES
1U	KP0330-1U	KIT OF 10 x 1U PANELS
3U	KP0330-3U	KIT OF 10 x 3U PANELS
25U	KP0330-25U	KIT OF 10 x 1U & 5 x 3U PANELS
42U	GP504	COREX BLANKING SHEET
45U	GP505	COREX BLANKING SHEET
47U	GP502	COREX BLANKING SHEET
52U	GP503	COREX BLANKING SHEET

### 19-INCH BRUSH STRIP PANEL

Cannon 1U Brush Strip Cable Entry Panels fit directly onto the 19-inch equipment mounting posts of Cannon cabinets.

The panels are 1U to 3U high and have been designed to provide a convenient and tidy alternative to horizontal cable management when an excess of cable might be involved, or where cables need to be routed to the rear of equipment.

Slots (where applicable) have been incorporated in the 100mm deep rearward facing support tray for cable fastening purposes. The brush strip gives a neat and tidy appearance to the finished configuration and reduces the ingress of dust.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



19" BRUSH STRIP PANEL with rear cable tie down tray

DESCRIPTION	PART CODE
1U 19" BRUSH STRIP PANEL	395B01601002



19" BRUSH **FLAT** STRIP PANEL

DESCRIPTION	PART CODE
1U 19" BRUSH FLAT STRIP PANEL	395B01601003
1U 19" BRUSH FLAT STRIP PANEL	395B01481000
2U 19" BRUSH FLAT STRIP PANEL	395B02481000
3U 19" BRUSH FLAT STRIP PANEL	395B03481000

### 19-INCH BLANKING/VENTED PANELS

Cannon front panels are plain or vented as required and are provided with standard 19-inch fixing holes.

**Material & Finish:** 1.5mm steel, Powder painted Black RAL9005 or Grey White RAL9002. Other colours available on request.



SIZE	BLANKING PANEL	VENTED PANEL
1U	166C01600000	167C01600000
2U	166C02600000	167C02600000
3U	166C03600000	167C03600000
4U	166C04600000	167C04600000
5U	166C05600000	167C05600000
6U	166C06600000	167C06600000
7U	166C07600000	167C07600000
8U	166C08600000	167C08600000
9U	166C09600000	167C09600000
10U	166C10600000	167C10600000
11U	166C11600000	167C11600000
12U	166C12600000	167C12600000
14U	166C14600000	-
23U	166C23600000	-

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

### CAGE NUT INSERTION/EXTRACTION TOOL

- Simple and easy to use, this aids the insertion or extraction of cage nuts from the Cannon mounting posts.



DESCRIPTION	PART CODE
CAGE NUT TOOL	CA021

### CABINET JOINING/BAYING KIT/SIDE FIXINGS

- Cannon cabinet joining kits offer a very simple solution where cabinets are required to be joined, or bayed together. One joining kit will bay two cabinets together.
- Side fixing kits are used to mount 19" posts, shelves, infill panels, supports etc to cabinet where not included in accessory kit.

DESCRIPTION	PART CODE	QTY
JOINING/BAYING KIT	KP0236	4 x M6x16 SCREWS & NUTS
SIDE FIXINGS	KP0009	50 x M6x12 SCREWS & NUTS



### CASTORS

Cannon castors are easily fitted to the base of any Cannon cabinet. Medium duty castors are supplied in a choice of two weight carrying capacities, either lockable or non-lockable. It is recommended that two of the castors in a set of four are lockable and that these should be fitted at the front of the cabinet.

**Supplied:** Individually with fixings.

DESCRIPTION	DYNAMIC MAX. LOAD EACH	PART CODE
NON-LOCKING, LIGHTWEIGHT	50KG	CA003
LOCKING, LIGHTWEIGHT	50KG	CA004
NON-LOCKING, MEDIUM DUTY	75KG	CA001
LOCKING, MEDIUM DUTY	75KG	CA002
NON-LOCKING HEAVY DUTY	100KG	CA005
LOCKING HEAVY DUTY	100KG	CA006
NON-LOCKING <b>EXTRA</b> HEAVY DUTY	160KG	CA029
PACKER PLATE REQUIRED FOR EACH <b>EXTRA</b> HEAVY DUTY CASTOR	-	901C00080800
HD XT CASTOR SWIVEL	200KG	CA098
HD XT CASTOR FIXED	200KG	CA099

*Please note that all cabinets are normally supplied with light duty castors (not shown here).*



**Non-locking medium duty castors**  
Castor height 70mm.



**Locking medium duty castors**  
Castor height 70mm.



**Non-locking heavy duty castors**  
Castor height 70mm.

**\*On 1200mm deep cabinets you will require 6 castors**

### ADJUSTABLE FEET/SCREW JACKS



50mm diameter foot

Cannon adjustable jacking feet fit easily into the base of any Cannon cabinet to allow the leveling of cabinets on uneven surfaces.

- Thread size M10 x 35mm
- Supplied individually.

DESCRIPTION	MAX. LOAD EACH	PART CODE
SCREW JACKS 50mm	500KG	CA010

Cannon 25mm Adjustable Screw Jacks are for use with the castors. These screw jacks when fully retracted, allow castors to pivot 360°.

- Supplied individually.



25mm diameter feet

DESCRIPTION	MAX. LOAD EACH	PART CODE
SCREW JACKS M10 x 70mm	500KG	CA011
SCREW JACKS M10 x 100mm	500KG	CA018

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

T: +44(0)1425 632600 | CANNONTECH.CO.UK | SALES@CANNONTECH.CO.UK



### MODULAR PLINTH KITS

Cannon modular plinths fit beneath the cabinet to allow cable to feed from both sides and the rear.

Plinths consist of four rugged corner supports and infill panels to suit all footprints of the cabinet range. The front and rear panels and side panels are plain.

The nature of the modular construction allows simple and easy access, also the possibility of retrofitting the plinth, should this be required.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.



Modular plinth shown assembled, but supplied in flat pack kit form.

600mm WIDE CABINET FOOTPRINT		700mm WIDE CABINET FOOTPRINT		800mm WIDE CABINET FOOTPRINT	
600 x 600	335B02606005	700 X 600	335B02706005	800 X 600	335B02806005
600 x 800	335B02608005	700 x 800	335B02708005	800 x 800	335B02808005
600 x 900	335B02609005	700 x 900	335B02709005	800 x 900	335B02809005
600 x 1000	335B02609905	700 x 1000	335B02709905	800 x 1000	335B02809905
600 x 1200	335B02601206	700 x 1200	-	800 x 1200	335B02801206

### MOBILE PLINTH

Designed for moving cabinet around labs or buildings

- DIA 125mm castors provide stability on uneven surfaces
- Maximum mobile load 400kg
- Care should be taken to ensure loads are evenly distributed with heavy loads to the base of the cabinet

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

Additional colours available on request.



600mm WIDE CABINET FOOTPRINT		800mm WIDE CABINET FOOTPRINT	
600 x 600	EPICPLINTH6099	800 X 600	EPICPLINTH8099
600 x 800	EPICPLINTH6099	800 x 800	EPICPLINTH8099
600 x 900	EPICPLINTH6099	800 x 900	EPICPLINTH8099
600 x 1000	EPICPLINTH6099	800 x 1000	EPICPLINTH8099

### DOCUMENT WALLET

Cannon plastic, self-adhesive document wallets can be fitted to the inside of any enclosure door, in any position, allowing simple storage and access of documentation relating to the product within the cabinet.

**Pocket size:**

232mm(w) x 220mm(h) - suits A4.

**Materials & Finish:**

Moulded ABS plastic, Black.

DESCRIPTION	PART CODE
A4 DOCUMENT WALLET	CA020



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

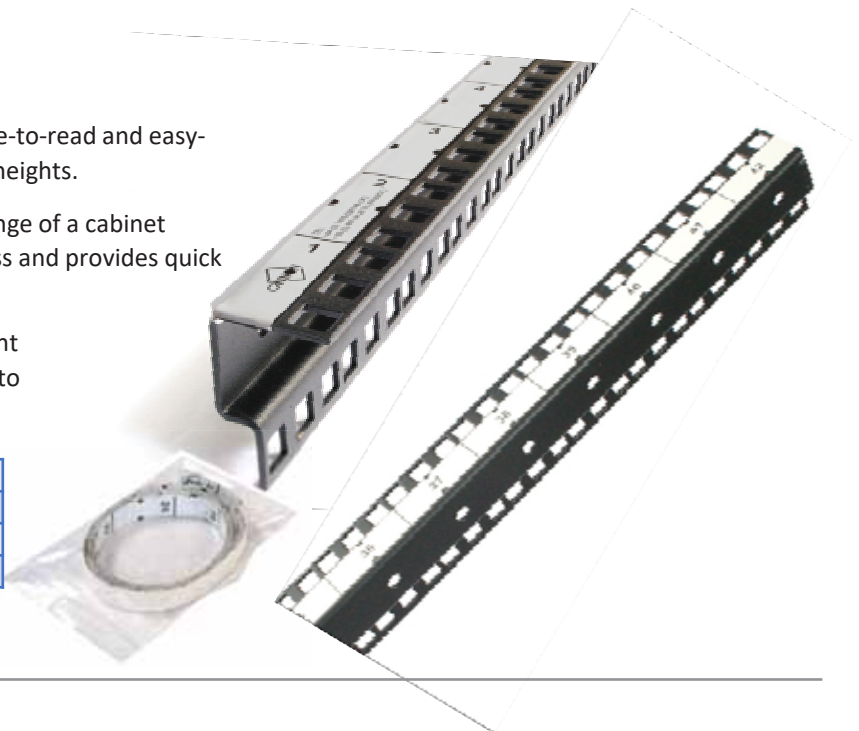


### 'U' HEIGHT IDENTIFICATION LABELS

Cannon 'U' height identification labels offer a simple-to-read and easy-to-fix identification system for all standard cabinet heights.

The self-adhesive strip is designed to fit the side flange of a cabinet mounting post where it is discrete but easy to access and provides quick and easy equipment positioning.

The identification strip offers standard cabinet height breaks, 'U' height position markers and may be cut to suit any height of cabinet up to a maximum of 52U.



DESCRIPTION	PART CODE
U HEIGHT LABEL 1U -52U KIT	LA0050
1U-26U LABEL	LA0082-A
27U-52U LABEL	LA0082-B

### RETRACTABLE STABILISER

This optional stabiliser is easily retro-fittable to the cabinet base and provides a degree of protection against tipping for free standing cabinets, sited directly on the floor.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



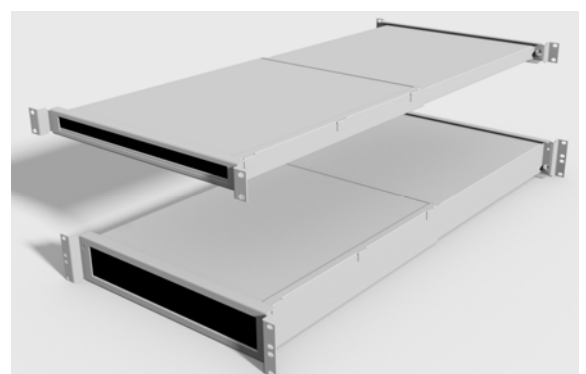
CABINET FOOTPRINT	PART CODE
600mm x 600mm	365B50606000
600mm x 800mm	365B50608000
600mm x 900mm	365B50609000
600mm x 1000mm	365B50609900
600mm x 1200mm	365B50601200
800mm x 600mm	365B50806000
800mm x 800mm	365B50808000
800mm x 1000mm	365B50809900
800mm x 1200mm	365B50801200

### TELESCOPIC CABLE TROUGH.

Cannon telescopic cable trough fits directly to front and rear 19in ch mounting posts and allow:

- Cable management between the front and rear of installed equipment within the 19" area.
- Seal front air path to provide efficient cooling of equipment
- Telescopic size: 550mm to 1000mm

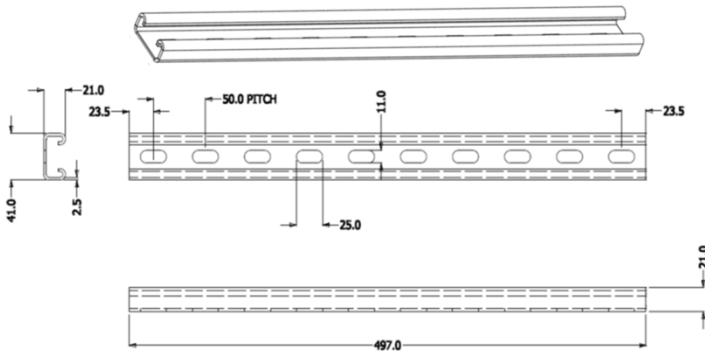
DESCRIPTION	PART CODE
1U 19" 550 to 1000mm CABLE TROUGH WITH FRONT BRUSH STRIP	925B01609900
2U 19" 550 to 1000mm CABLE TROUGH WITH FRONT BRUSH STRIP	925B02609900



**Materials & Finish:** Powder coated MS & Nylon Brush.  
**Supplied:** Individually with fixings.

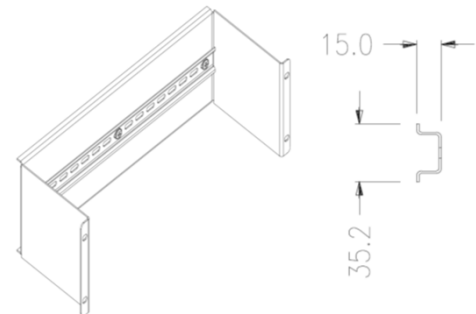
### 19" UNISTRUT

DESCRIPTION	PART CODE
1U 19" UNISTRUT SUPPORT	CA267
<ul style="list-style-type: none"> <li>COMPLETE WITH M8 SOCKET HEAD SCREW (2), WASHER (4) &amp; HEX NUT (2) - STAINLESS STEEL</li> <li>IDEAL ADDITIONAL SUPPORT FOR CABLE MANAGEMENT, FIXING OF HD POWER/SWA CABLES ETC.</li> </ul>	



### 19" RECESS BRACKET

DESCRIPTION	PART CODE
2U 19" RECESS BRACKET	P5516308-2U
3U 19" RECESS BRACKET*	P5500002
5U 19" RECESS BRACKET	P5510605
6U 19" RECESS BRACKET	P5516308
<ul style="list-style-type: none"> <li>COMPLETE WITH M6 CAGE NUT(4), SCREW (4), WASHER (4) - STAINLESS STEEL</li> <li>*3U VERSION INCLUDES 436mm DIN RAIL SK5037 – 15mm DEEP x 35.2mm WIDE DIN RAIL; OTHER SIZES AVAILABLE ON REQUEST</li> </ul>	



DESCRIPTION	PART CODE
SET OF 4 LIFTING EYES	KP0010

### LIFTING EYES

Cannon lifting eyes for use when cabinets are required to be lifted into position; lifting eyes affix to the top of the cabinet - two on each side.

Must be fitted with the side panels removed.

**Supplied:** In set of four with fixings - can be factory fitted on request.

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

**Recommended total lifting load:** 500kg.

### PACKAGING & TRANS-SHIPMENT BASE

- Standard size Euro pallets to allow safe and easy fork-lift and movement of cabinets, particularly when being transhipped.
- Height of Trans-shipment base: 140mm.
- Secured by bolting cabinet base directly to pallet through each of the four corners.
- Pallet size: 800mm x 1200mm.

**Two options available:**

DESCRIPTION	PART CODE
PALLET PLUS EXPORT PACKAGING	PA07057
PALLET ONLY	PA07057A

DESCRIPTION	PART CODE
600x600 FLATPACK PACKAGING	PACT60-60
600x800 FLATPACK PACKAGING	PACT60-80
600x1000 FLATPACK PACKAGING	PACT60-99
600x1200 FLATPACK PACKAGING	PACT60-1200
800x600 FLATPACK PACKAGING	PACT80-60
800x800 FLATPACK PACKAGING	PACT80-80
800x1000 FLATPACK PACKAGING	PACT80-99
800x1200 FLATPACK PACKAGING	PACT80-1200



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

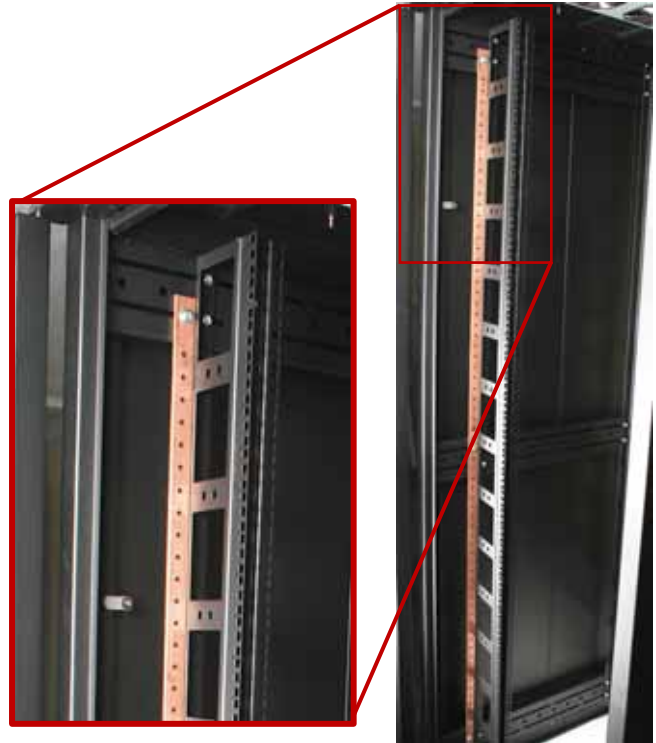
### VERTICAL EARTH BAR

Cannon 64 way 42U vertical earth bar provides easily accessible earth connections the full height of any cabinet. Connection is by screwing the earth terminal (earth terminals not supplied) to the copper bar using the M6 fixings provided.

**Supplied as:** 1 x earth bar (busbar) 38 WAY (27U), 49 WAY (33U) & 64 WAY (42U) plus fixings supplied bagged separately:

- 22 x M6x16 Pozi pan head screws
- 20 x M6 Flat form washers
- 20 x M6 Shake-proof washer
- 20 x M6 Flanged shake-proof nut
- 3 x M6 X 30 Pozi pan head screws, M6 hex nuts, Nylon screw insulator & Spacers

DESCRIPTION	PART CODE
27U VERTICAL EARTH BAR	012C27020001
33U VERTICAL EARTH BAR	012C33020001
42U VERTICAL EARTH BAR	012C42020001



### 19-INCH (HORIZONTAL) EARTH BAR

Cannon 20 way 19-inch (horizontal) earth bar provides easily accessible earth connections at the rear of any cabinet. Connection is by screwing the earth terminal (earth terminals not supplied) to the copper bar using the M6 fixings provided.

**Supplied as:** 1 x 19-inch earth bar (busbar) 20 way plus fixings supplied bagged separately:

- 22 x M6x16 Pozi pan head screws
- 20 x M6 Flat form washers

**As supplied**

- 20 x M6 Shake-proof washer
- 20 x M6 Flanged shake-proof nut
- 2 x M6 Cage nuts

DESCRIPTION	PART CODE
19-INCH EARTH BAR	012C01480500





**VERTICAL EARTH STRIP**

Cannon vertical earth strips offer a full height earthing option within a cabinet with ‘fast-on’ connectors in groups of three. The earth strip should either be connected to the earth stud in the bottom of the cabinet or to a common horizontal earth bar, as is shown below. Other designs on request.



SIZE	PART CODE
9U	012C09000000
12U	012C12000000
15U	012C15000000
22U	012C22000000
25U	012C25000000
27U	012C27000000
33U	012C33000000
37U	012C37000000
39U	012C39000000
42U	012C42000000
45U	012C45000000

**EARTH BONDING KITS**

Cannon earth bonding kits consist of five terminated cables and fixings. These cables can be easily fitted to the M6 earth studs, suitably positioned in all Cannon cabinets, to provide panel and door earth bonding.

**5 Terminated cables:**

- Cable 1: For Top Cover
- Cable 2: For One Side Panel
- Cable 3: For One Side Panel
- Cable 4: For Front Door
- Cable 5: For Rear Door



DESCRIPTION	PART CODE
EARTH BONDING KIT 600-1000D CAB	KP0223
EARTH BONDING KIT 1200D CAB	KP0223-1200D
EARTH BONDING KIT LOW SMOKE ZERO HALOGEN	KP0223LSZH
EARTH BONDING KIT ( <i>SERVER SPACE</i> ) CAB	KP0223-SLDP
MOUNTING POST EARTH BONDING KIT	KP0251
EARTH LEAD FOR VERTICALLY SPLIT DOORS (ONE REQUIRED FOR EACH PAIR OF DOORS)	EC1305/11

**VERTICAL EARTH RAIL**

1 or 2 Meter earth rail able to be fitted vertically into any Cannon cabinet.

**Supplied as:**

- 1 x length earth rail 10mm x 3mm x 1M or 2M
- 3 x insulated mounting blocks
- 1 x large terminal 16 – 35mm conductor
- 10 x small terminal 1.5 – 4mm conductor
- 3 x M5x16 pozi pan head screw BZP
- 3 x M5 flange nut

**NOTE: ADDITIONAL SINGLE WIDTH DEPTH SUPPORT MEMBER MAY BE REQUIRED – SEE PAGE 4.16**

SIZE	PART CODE
1M EARTH RAIL	CA141
2M EARTH RAIL	CA142



**ESD BONDING STUD**

Electro Static Discharge bonding point for attachment of wristband whilst working within the cabinet.

**Supplied:** Fitted complete with label.



DESCRIPTION	PART CODE
ESD BONDING POINT	EA0231

**ANTI-STATIC FABRIC WRIST BAND FOR ESD GROUNDING**

- Fully adjustable, elastic
- 1.8 Coil lead length
- Stud size 10
- Press stud termination type



DESCRIPTION	PART CODE
ANTI-STATIC WRIST BAND	EA0232



**AN AIR FLOW BARRIER SYSTEM, comprising a range of components which prevent the inefficient and costly escape of cooling air through voids in a 19-inch cabinet.**

**THE CHALLENGE**

Even a fully populated cabinet can lose in the region of 50% of cooling air through escape routes which are outside the perimeter of the 19-inch equipment field. Causing massive wastage of cooling energy, increasing carbon footprint and reducing the cooling effect of the CRAC.

**THE SOLUTION**

Cannon “Air Management Solutions” effectively closes these escape routes ensuring that cooling air flows only through the active equipment present in the cabinet.

Significant energy savings can be achieved and the Computer Room Air Conditioning (CRAC) will be less stressed, improving efficiency.

- Air block mouldings\* which close apertures in vertical infill panels in 800 wide cabinets

*\*Air block mouldings can be fully blanked or contain flexible finger brushes for cable entry combined with air blocking*

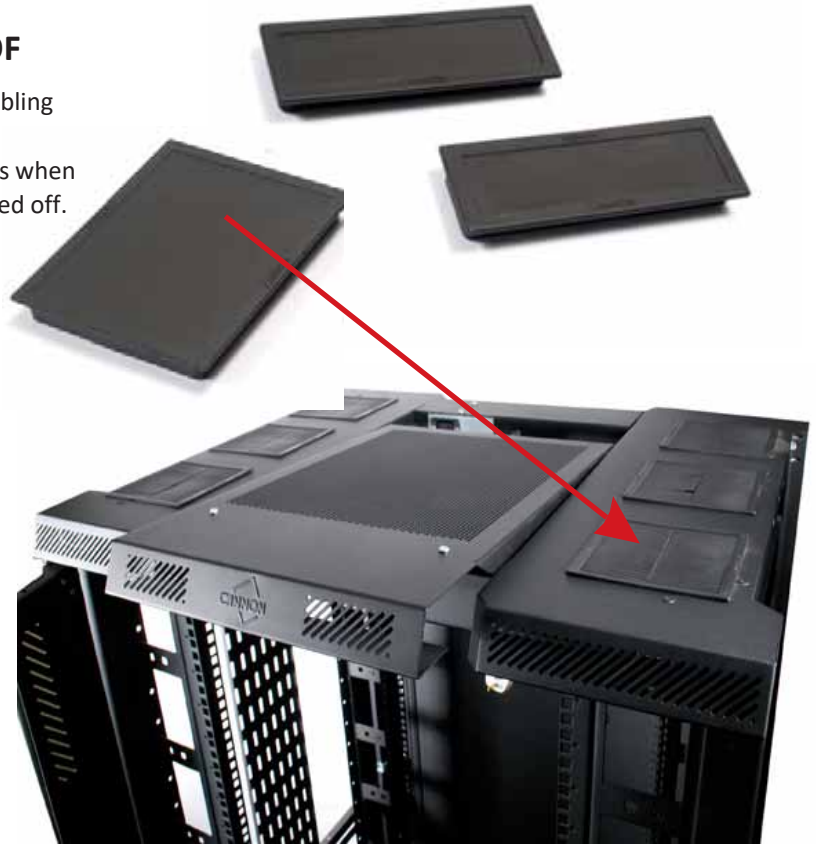
- Air block kits for total cabinet air blocking
- Cabinet blanking base plates, to cover the whole cabinet base area, locking cold air into the floor plenum
- Air-lock raised floor grommets for through tile cabling with improved air blocking
- Brush gland frame a multi configurable large gland assembly covering total raft surface
- Quick fit 19-inch blank panels and quick fit MiKey buttons



### BLANK MOULDINGS FOR CABINET ROOF

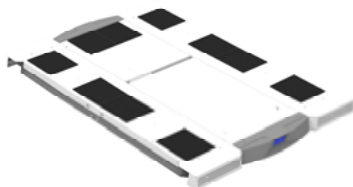
These blanking plastic mouldings fit into cabinet roof cabling apertures of CANNON ServerSmart Cab and Smart Cab enclosures. In place of the finger-type cabling mouldings when the roof is required to have the cabling apertures blanked off.

**Material:** Black Polypropylene UL94V-0



SIZE	PART CODE
SMALL BLANK MOULDING	NR172
LARGE BLANK MOULDING	NR173

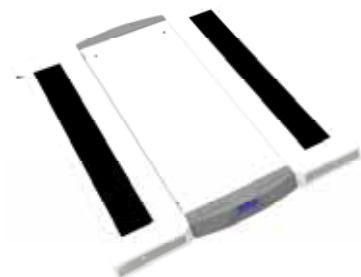
QUANTITY OF MOULDINGS PER CABINET		
CABINET SIZE	SMALL MOULDING	LARGE MOULDING
600 x 600	6	0
600 x 800	8	2
600 x 1000	8	2
600 x 1200	0	12
800 x 600	2	6
800 x 800	0	10
800 x 1000	0	10
800 x 1200	0	12



Standard roof panel shown above (SERVERSMART shown for reference)



Side Brush roof panel with central brush tray shown above (SERVERSMART shown for reference)



Side Brush roof panel shown above (SERVERSMART shown for reference)

### CABINET ROOF OPTIONS

These top cover options include plastic mouldings as standard, with options for full length side brush mouldings or side brush mouldings with central brush tray. See images to the left and table below for further details. \*SC= 1200D SINGLE CHAMBER VARIANT, CONTACT CANNON FOR SPLIT CAB VARIANT

TOP COVER CABLE ENTRY VARIANTS				
CABINET SIZE W x D	STANDARD NR152 BRUSH GLANDS	CENTRAL BRUSH ONLY	SIDE BRUSH ONLY (ORDER **BRUSH SEPARATELY)	BRUSH FOR SIDE **BRUSH TOP COVER (2/Cab required)
600 x 600	065B1100001	PLEASE CONTACT CANNON WITH THE DETAILS OF THE CABINET MODEL REQUIRED	065B2600001	SG237B
700 x 600	065B1100002		-	-
800 x 600	065B1100003		065B2600007	SG103B
600 x 800	065B1100004		065B2600004	SG237C
700 x 800	065B1100005		065B2600005	
800 x 800	065B1100006		065B2600006	SG103L
600 x 900	065B1100007		-	-
700 x 900	065B1100008		-	-
800 x 900	065B1100009		-	-
600 x 1000	065B1100011		065B2600003	SG237D
600 x 1200 SC*	065B3000001		065B2600024	
700 x 1000	065B1100017		065B2600008	
700 x 1200	065B3000003		065B2600027	
800 x 1000	065B1100019		065B2600019	SG103K
800 x 1200 SC*	065B3000002		065B2600025	SG103S

### AIR BLOCK KIT - FOR 800MM WIDE CABINET

Components which can substantially improve effective cooling.

- Air Block Kits provide:
  - An effective air lock preventing cold air escaping through the rack and by bypassing the 'IT' equipment for which it is intended.
  - Prevent hot exhaust air from the rear of the rack recirculating to the front of the rack and contaminating the cold air.
  - Effectively seal the gaps at the side, above and below the 19-inch equipment mounting field, ensuring that costly cooling air is guided **only** to the target equipment and not wasted.
- As much as 50% of a wide/tall rack can comprise air bypass paths which are outside of the 19-inch equipment field. Failing to block these paths can dramatically reduce PUE performance.

Air Block components include mouldings which seal the apertures in vertical infill panels. These mouldings can be brush finger type to allow through cabling or solid mouldings. Both types can embody side tabs which extend to the side panel sealing often ignored areas. In addition special brush strip components are available to seal the gaps above and below the 19-inch equipment field.



CABINET SIZE	NUMBER OF NR214 MOULDINGS	PART CODE	COMMENTS
42U x 800W	28	KP0501-42	INCLUDES CORRECT NUMBER OF NR214 MOULDINGS AND TOP/BOTTOM BRUSH STRIP SEAL
45U x 800W	30	KP0501-45	
47U x 800W	30	KP0501-47	
52U x 800W	36	KP0501-52	
<b>42U x 800W</b>	<b>28</b>	<b>KP0501-42-NR244</b>	
<b>45U x 800W</b>	<b>30</b>	<b>KP0501-45-NR244</b>	INCLUDES CORRECT NUMBER OF NR244 MOULDINGS (FOR CABLE MANAGEMENT OPTION) AND TOP/BOTTOM BRUSH STRIP SEAL
<b>47U x 800W</b>	<b>30</b>	<b>KP0501-47-NR244</b>	
<b>52U x 800W</b>	<b>36</b>	<b>KP0501-52-NR244</b>	
SINGLE INFILL MOULDING	1	NR214	
SMALL INFILL MOULDING WITH SIDE SEAL	1	NR244	ALLOWS INFILL CABLE MANAGEMENT AREA
SINGLE INFILL MOULDING	1	NR245	ALLOWS INFILL CABLE MANAGEMENT AREA
50mm INFILL BLANK MOULDING	1	NR308	BLANKS APERATURE IN 50mm INFILL PANEL
100mm INFILL BLANK MOULDING	1	NR309	BLANKS APERATURE IN 100mm INFILL PANEL
100mm INFILL BLANK	1	184C15080001	PAINTED STEEL WITH FIXINGS



Supplied: KP0501 KIT comprising;  
2 x Brush Air Baffle Strips (top & bottom of 19" area) and correct brush mouldings for the cabinet height.



### \*SINGLE INFILL PANEL MOULDING

These cleverly designed mouldings quickly clip into the rectangular apertures of the vertical infill panels, at the sides of 800mm wide ServerSmart, Smart Cab and Smart Net range.

Mouldings contact the side panel providing an effective air block up the full height of the cabinet.

Close fit cable fingers allow through cabling to be achieved, whilst preserving the air block effect.

**Material:** Black Polypropylene UL94V-0

*It is standard practice to only fit these mouldings to the Infill Panels at the front of an 800mm wide Cannon Cabinet, unless side air flow equipment is installed, in which case four mounting infill panels are fitted with Air Block Mouldings.*



NR214



NR244



NR245

CABINET SIZE	NUMBER OF MOULDINGS PER INFILL
25U	8
33U	11
42U	13
45U	15
47U	17
50U	19
52U	21



**AIR BLOCK KIT - FOR 600MM WIDE CABINET**

Air Block Kits provide an air lock at the top and bottom of enclosures, sealing the perimeter of the 19-inch equipment field on 600mm wide cabinets using Brush Air Baffle Strips and seal the space between the 19-inch mounting post and side panels using Airflow Control Mouldings.

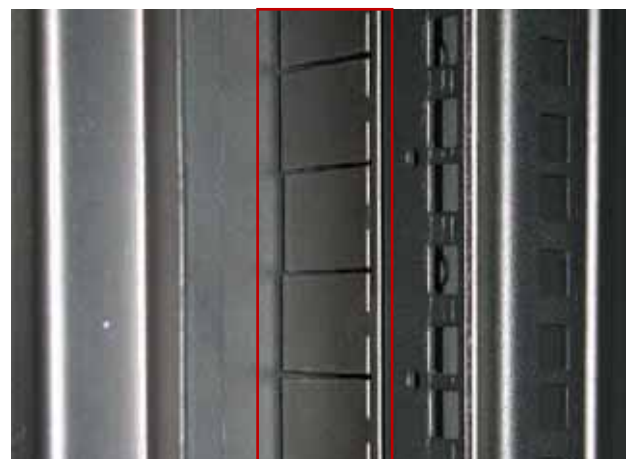
**Supplied:** Kit comprising 2 x Brush Air Baffle Strips and correct number of Airflow Control Mouldings for the cabinet height.

CABINET SIZE	PART CODE
42U x 600W CABINET KIT	KP0500-42
45U x 600W CABINET KIT	KP0500-45
47U x 600W CABINET KIT	KP0500-47
52U x 600W CABINET KIT	KP0500-52

DESCRIPTION	QTY	PART CODE	COMMENTS
6U AIR FLOW CONTROL MOULDING	1	NR225-KIT	FITS TO SIDE OF 19" POST AND SIDE PANEL



Bottom Brush Air Baffle Strip



Side Air Flow Moulding Side Baffle Strip (NR225)



### BRUSH & PLATE GLAND FRAME

#### for use with Cannon RAFT™ System

Brush & Plate version available to suit Central and Rear Overhang RAFT™

- A framed floor gland which fits within the base of the rack, onto the RAFT (retrofitable)
- Covers the whole raft area and enables easy cable entry
- Allows cold air in the under floor plenum to be contained, preventing leakage through the gland area
- Available with two brushes (one each side) and central blanking plates
- Available with four brush strips covering almost the whole gland area for large cabling volumes
- Air brush glands can be specified for cabs which are centrally positioned on the raft (equal rack overhang, front and rear) or for total rear overhang of the rack **(see different Part Codes below)**
- Enables re-cabling

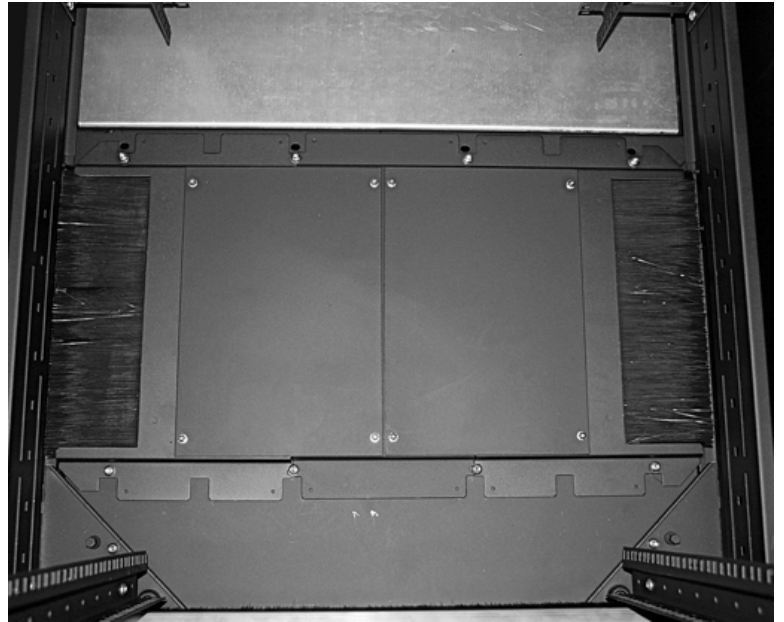


Image shows product in situ within RAFT with cabinet installed

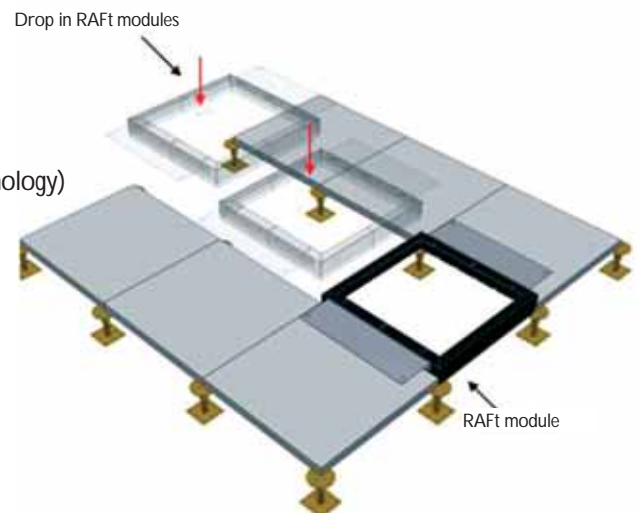
REAR OVERHANG – BRUSH & PLATE	
CABINET WIDTH	PART CODE
600W CABINET KIT	005B40609935
800W CABINET KIT	005B40809935

CENTRAL CABINET POSITION – BRUSH & PLATE	
CABINET WIDTH	PART CODE
600W CABINET KIT	005B40608030
800W CABINET KIT	005B40808030

For details of Cannon RAFT™ System see Page 6.0



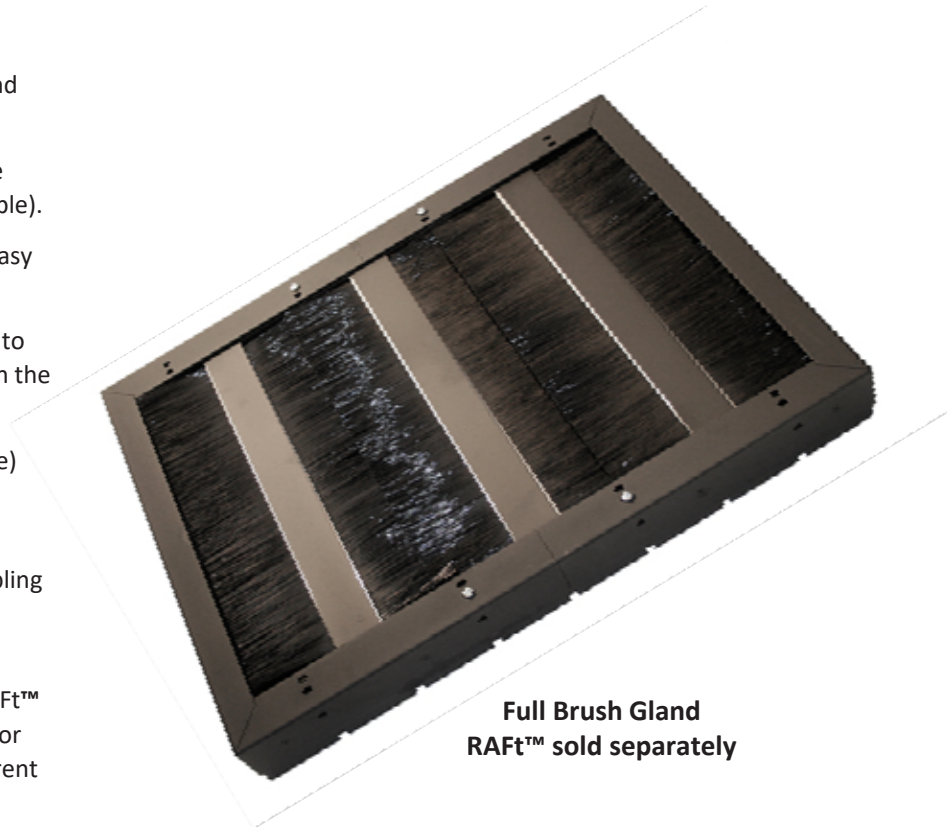
RAFT's™ (Raised Access Floor technology)



**Full Brush Gland Frame**  
for use with Cannon RAFT™ System

Full Brush version available to suit Central and Rear Overhang RAFT's™

- A framed floor gland which fits within the base of the rack, onto the RAFT (retrofitable).
- Covers the whole raft area and enables easy cable entry.
- Allows cold air in the under floor plenum to be contained, preventing leakage through the gland area.
- Available with two brushes (one each side) and central brushes/blanking plates.
- Available with four brush strips covering almost the whole gland area for large cabling volumes.
- Air brush glands can be specified for cabs which are centrally positioned on the RAFT™ (equal rack overhang, front and rear) or for total rear overhang of the rack (see different ordering codes)
- Enables re-cabling



**Full Brush Gland**  
RAFT™ sold separately

REAR OVERHANG RAFT™ – FULL BRUSH	
CABINET WIDTH	PART CODE
600W CABINET KIT	005B40609945
800W CABINET KIT	005B40809945

CENTRAL RAFT™ – FULL BRUSH	
CABINET WIDTH	PART CODE
600W CABINET KIT	005B40609940
800W CABINET KIT	005B40809940

## CABINET BLANKING BASE PLATE

Plain steel blanking plate fitted into the cabinet base to restrict air-flow into the cabinet from floor cavity

**Finish:** 1.5mm steel, Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

CABINET FOOTPRINT	PART CODE
<b>600mm WIDE</b>	
600mm x 600mm	005B20606001
600mm x 800mm	005B20608001
600mm x 1000mm	005B20609901
600mm x 1200mm	005B20601200

CABINET FOOTPRINT	PART CODE
<b>800mm WIDE</b>	
800mm x 600mm	005B20806000
800mm x 800mm	005B20808000
800mm x 1000mm	005B20809901
800mm x 1200mm	005B20801200



## CABINET BLANKING BASE PLATE WITH BRUSH STRIP

Plain steel blanking plate with brush strip panel fitted into the cabinet base to restrict air-flow into the cabinet from floor cavity.

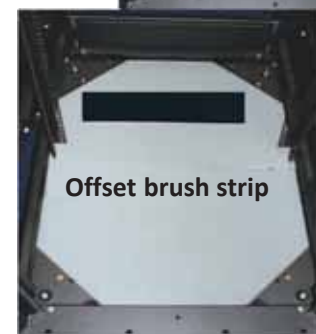
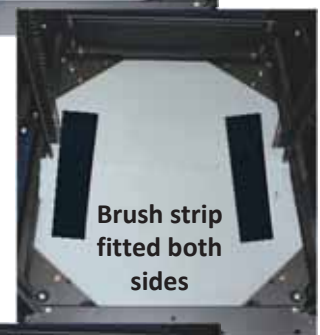
**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

CABINET FOOTPRINT	CENTRAL BRUSH	BRUSH TO SIDES	OFFSET BRUSH
<b>600mm WIDE</b>	PART CODE	PART CODE	PART CODE
600mm x 600mm	005B20606005	005B20606010	005B20606004
600mm x 800mm	005B20608005	005B20608006	005B20608004
600mm x 900mm	005B02609005	005B20609002	005B20609004
600mm x 1000mm	005B20609905	005B20609911	005B20609904
600mm x 1200mm	005B20601205	005B20601201	005B20601202

CABINET FOOTPRINT	CENTRAL BRUSH	BRUSH TO SIDES	OFFSET BRUSH
<b>700mm WIDE</b>	PART CODE	PART CODE	PART CODE
700mm x 1200mm		005B20701202	

CABINET FOOTPRINT	CENTRAL BRUSH	BRUSH TO SIDES	OFFSET BRUSH
<b>800mm WIDE</b>	PART CODE	PART CODE	PART CODE
800mm x 600mm	005B50806000	005B20806010	005B20806004
800mm x 800mm	005B50808000	005B20808010	005B20808004
800mm x 900mm	005B50809000	005B20809010	005B20809004
800mm x 1000mm	005B50809900	005B20809910	005B20809904
800mm x 1200mm	005B50801200	005B20801201 (2/side)	005B20801202
		005B20801203 (1/side)	(BRUSH GLAND)



Two issues are of significant importance to separate Cold and Hot Air via any grommet:-

- Cold air pressure should not lift the brush strip seal and escape through the gland
- Hot air should not be drawn downwards, below the tile and into the cold air flow

Note: IPACK 2001-15728ASME advises that grommet/tiles near the CRAC unit often experience negative air flow from inside the rack, pulling hot air down into the cold air stream.

**BrushGland™** Grommets have been laboratory tested and their brushes did not lift or flap until a large air pressure differential of 1500 pascals (0.44" water gauge) was reached.

Under-floor static pressure is commonly 6 pascals (0.025" water gauge) or less.

**BrushGland™** Grommets substantially exceed the common static pressure with a high safety factor and will keep the Cold Air in.

## Unique Brush Gland

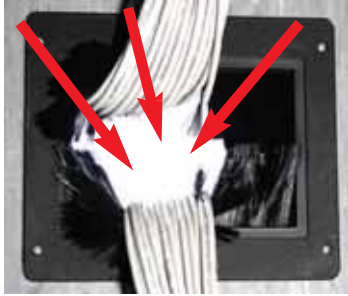
The Cannon brush gland is pre-stressed to resist air pressure. The patented system provides firm support to both ends of the brush; the brush tips press down onto the radiused sides of the grommet, acting like leaf springs. This imparts greater resistance to air pressure.





**Seven Deadly Sins of Old Fashioned Grommets**

1. Cables significantly distort the root of the brush, opening a large air leakage path, destroying the air blocking objective of the gland.



2. Sharp corners in the gland can corrupt data.



3. No cable strain / tie off capability so total weight of cable has to be man handled during install.



4. Power and data cabling are not reliably separated.



5. No visibility through gland adds complication.



6. No protection for cables against sharp cut tile edge.



7. Many types of old fashioned gland need to be on hand to cope with varying challenges.



**Seven Wonders of the BrushGland™ Grommet**



1. Cables pass tips of brush avoiding distortion and maintaining an effective air seal.



2. Big bend radii protects cables.



3. Tie off fingers take cable strain, easing effort and protecting cable & fibre.



4. Power and data are separated by an optional drop in Power/Data Partition.



5. Total "see through"\* capability eases install.



\*Brush is removable.

6. Radiused skirt protects cables from damage by sharp cut-edge of tile.



7. Just one **BRUSHGLAND** will satisfy all usual installation challenges reducing stock, space and cost.



**BRUSHGLAND** can be instantly installed in drop-in, surface mount, or retro-fitted around pre-cabled cut-outs in the tile.

- The brush is “Quick-Fit” and Quick-Release removable, allowing access through the gland to under floor void
- The brush is mounted on a central bar so that the tips of the brush rest on the sides of the gland where the brush is not heavily distorted by cables
- Cables do not pass through the middle of the brush where increased distortion will occur
- This patented orientation of the brush dramatically improves air blocking and supports the brush to prevent brush sag over-time
- Bend radii and cable tie points around the edge, avoid data cable damage and simplify installation
- BRUSHGLAND can be either “surface mounted”, “drop in” (into a cut out in the tile) or retro-fit around pre-installed cables, reducing the range of glands required to fit in a pre-cut tile
- The BRUSHGLAND has quick release features for instant separation of the frame when retro-fitting, so no tools are needed
- For Drop-in mode, the skirt of the gland protects data cables from sharp metal at the lower cut edges of the tile and provides bend radius at the lower and upper edges to protect data cable integrity
- An optional Data/Power Partition is available to separate power cable from data cable by the required amount, to protect against data corruption
- The separator bridge just drops in after large power connectors have been passed through the gland, so any size of pre-terminated connectors can be used
- Fibre optic cable can be introduced through the bridge to utilise the data separation space effectively. This maximises gland capacity without endangering data integrity

## BRUSHGLAND

- Provides a higher level of air blockage when compared to other cabled grommets
- Is more protective of fragile data cable
- Separates power cable from data cable
- Is much more user-friendly
- Provides visual and physical access to the underfloor
- One BRUSHGLAND™ achieves all of the install needs i.e. Surface Mount, Drop-In or Retro-Fit

*It's common sense!*

### Specification BRUSHGLAND:

- Cut-out size in floor tile: 270mm x 185mm (10<sup>5/8</sup>" x 7<sup>5/16</sup>" )
- Fixing centres: 281mm x 195mm (11<sup>1/16</sup>" x 7<sup>11/16</sup>" )
- Overall dimensions: 296mm x 210mm x 40mm (11<sup>3/4</sup>" x 8<sup>1/4</sup>" x 1<sup>9/16</sup>" )
- Height above floor tile when fitted into floor tile: 3mm (flange thickness) (1/8")
- Height above floor tile when fitted above floor tile: 40mm (1<sup>9/16</sup>" )
- Height of Power/Data Partition 'ears' (when fitted) above Floor Gland flanges: 20mm (3/4")

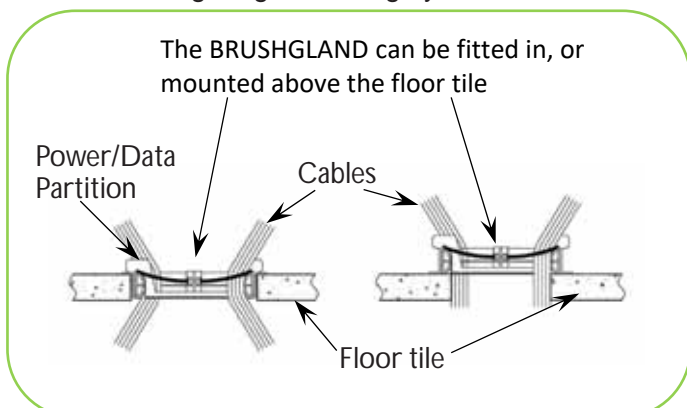
### Frame Material:

Glass filled Polyamide (Fire Resistant)

### Power/Data Partition Material:

Galvanized Steel (Hand fold)

**Colour:** Black



Order Codes	
Description	Part Code
BRUSHGLAND Assembly	NR178 
Power/ Data Partition	NR178-5 

A RAFT™ is an installation frame which is used under a cabinet, in place of a floor tile, in raised floor installations, to provide extensive benefits.

### ADVANTAGES & BENEFITS

- The RAFT™ sits on the pedestal heads integrating into the raised floor installation
- RAFTs are bayed, just like cabinets
- Saves cost when compared to old fashioned installation methods
- Saves considerable installation time
- No tile cutting needed - saving further cost and mess
- Provides massive cable entry through base
- Base airflow is exceptional but may be sealed with Cannon brush gland
- Secures cab to pedestal system avoiding the need for tie bars to the floor substrate
- Lateral movement of raised floor installation becomes more rigid
- Allows minimised aisle widths and avoids cut tiles in aisle even for 1000mm deep cabinets as tiles in aisle slide under cabinet
- Tiles in aisle can be raised because of the resulting clearance from the raised cabinet base (cabinet sits 50mm above tile surface)
- RAFT™ accessories include brackets for commando connectors enabling power connections at RAFT™ level avoiding the need to enter floor void for power connection to PDUs etc



*Saves pedestal costs, no tile cutting, quicker install, simplifies planning.*

*Avoids the need for intermediate pedestals. Only 600mm pitch pedestals are required, as no cut tiles means no intermediate pedestals*

See Page 5.5 for details on RAFT™ Blanking options including Brush Strip

CABINET WIDTH	PART CODE	
CABINET FOOTPRINT	CENTRAL MOUNT	REAR OVERHANG
600 x 600	435B02606020	-
600 x 800	435B02608020	435B02608025
600 x 1000	435B02609920	435B02609925
600 x 1200	435B02601220	-
700 x 600	435B02706020	-
700 x 800	435B02708020	435B02708025
700 x 1000	435B02709920	435B02709925
700 x 1200	435B02701220	-
800 x 600	435B02806020	-
800 x 800	435B02808020	435B02808025
800 x 1000	435B02809920	435B02809925
800 x 1200	435B02801220	-

**Finish:** Standard: Powder painted Black RAL9005 or Grey White RAL9002.



**Centrally Mounted Cab shown on Cannon RAFT™ has been shown highlighted in red**

RAFT is a registered trade mark of the Cannon Technologies Group Ltd

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

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The Cannon RAFT™ System is compatible with the majority of Raised Access Floors with a modular tile size of 600mm x 600mm in current use worldwide.

Installation of the Cannon RAFT™ System is very simple as the system is designed to replace complete floor tiles in Raised Access Flooring where Cannon cabinets are to be installed.

**RAFT™ Depth**

The RAFT™ consists of a series of individual ‘picture frames’ which are bolted together and which always have the same depth (front-to-back) dimension as a floor tile (600mm). Cabinets with a depth (front-to-back) dimension greater than 600mm, overhang the RAFT™ equally at front and rear, i.e. a 1000mm cabinet would overhang the RAFT™ by 200mm at the front and rear or may be offset/aligned with front of cabinet or rear.

However, the RAFT™ raises the cabinet above the floor sufficiently to allow the overhanging tiles to be raised vertically and slid sideways for access to the under floor void.

**RAFT™ Width**

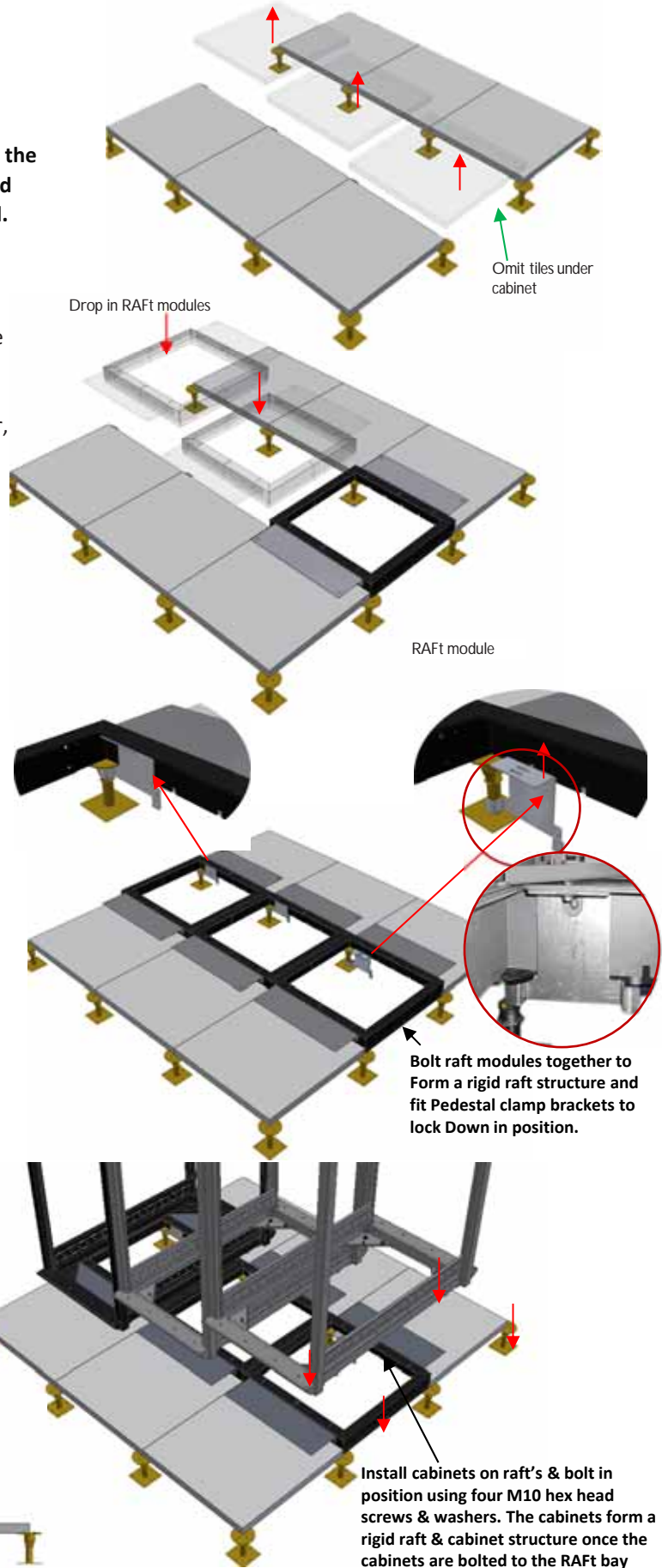
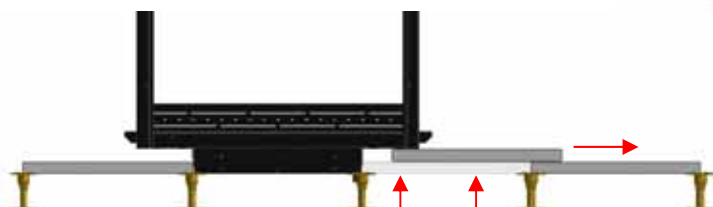
It is preferable that the frame width matches the cabinet width (600, 700 or 800mm).

**RAFT™ System Clamps**

Single front & rear clamps (Order code: 307C11180500) - for use where stringers are not present. These clamps are slotted for adjustment and clamp to the underside of the pedestal heads. Four clamps per cabinet should be used, one in each corner, however, if the cabinets are securely bayed together it may be considered adequate to use two per cabinet (one front & rear). It is recommended that the end cabinets in a row, each have four clamps fitted, or at least the clamps should be to the ‘outside’ of these cabinets.

**RAFT™ SYSTEM & Raised Floor Side View**

The RAFT raises the cabinet above the floor sufficiently to allow the overhung tiles to be raised vertically and slid sideways for access to the under floor void.



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



### RAft SYSTEM 600, 700 & 800 wide versions

#### RAft Width

It is preferable that the frame width matches the cabinet width (600, 700 or 800mm). A 700 wide or 800 wide RAft is laid out in the same manner as the 600 wide RAft except from the position of clamp brackets and the end of raft position. Where a RAft is built up from a multiple of frame widths other than the tile modular width of 600mm, it is likely that a part tile will be needed to act as a 'filler' at the end of the bay. A bracket is available (Order code: 307C00025002 cut tile support ) which bolts to the end of the RAft to support this tile. However, installers should check with the flooring manufacturers as to whether extra pedestals are also required to maintain the integrity /warranty of the floor system.

#### RAft Brackets

##### RAft Stringer Clamp

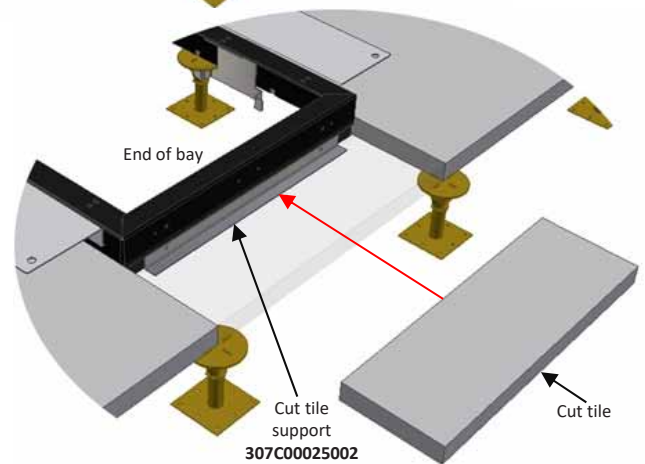
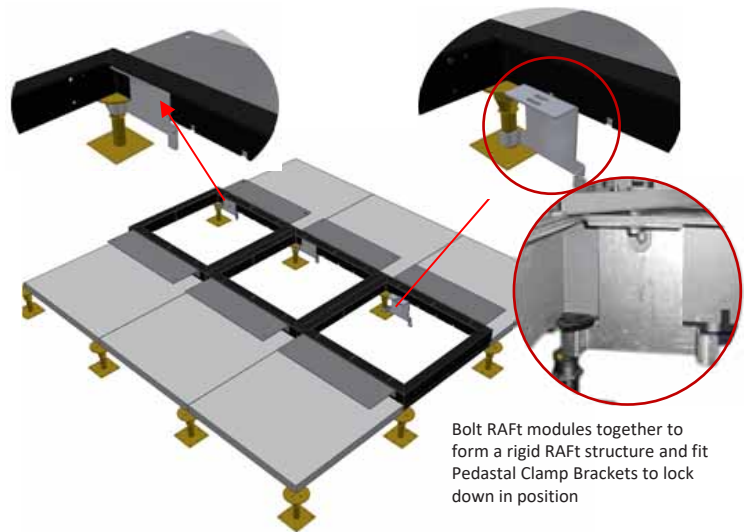
Individual clamps for use with floor stringers which hook under the stringers to prevent cabinet tipping. Four clamps per cabinet recommended, one in each corner. However, if the cabinets are securely bayed together one clamp may be used at the front and the rear. The end cabinets should still have four clamps each.

##### RAft Pedestal Clamp

Single front and rear clamps for use when stringers are not present. These clamps are slotted for adjustment and clamp to the underside of the pedestal heads. Four clamps per cabinet recommended, one in each corner. However, if the cabinets are securely bayed together one clamp may be used at the front and the rear. The end cabinets should still have four clamps each.

##### RAft Pedestal Clamp - 600 Centres

Double side clamps for use when stringers are not present. These clamps are slotted for adjustment and clamp to the underside of the pedestal heads. Two clamps per cabinet recommended, one on each side. However, if the cabinets are securely bayed together one clamp may be used. The end cabinets should still have two clamps each.



DESCRIPTION	PART CODE
RAft STRINGER CLAMP	307C01200505
RAft PEDESTAL CLAMP	307C11180500
RAft PEDESTAL CLAMP – 600 CENTRES	307C12126003
CUT TILE SUPPORT	307C00025002
RAFT CLAMP ON PEDESTAL KIT	435B0067000
CLAMP ON PEDESTAL KIT	435B0067001



## CABLE RACEWAY

Cabinet Roof Mounted Cable Raceway dramatically reduces installation cost.

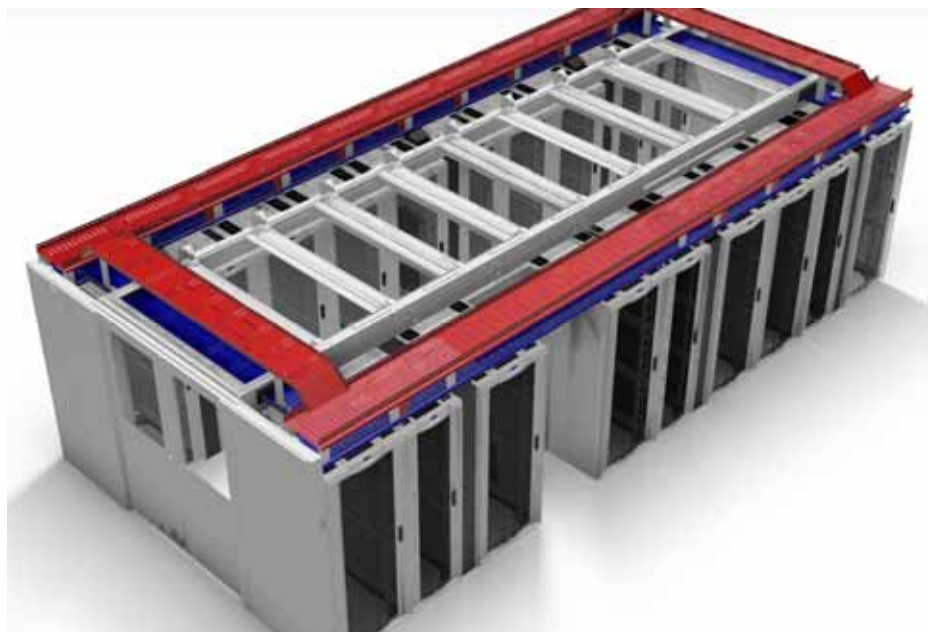
The Cannon Cable Raceway can be mounted onto the roof area of any Cannon SMART cabinet or Patching Frame by matching the cabinet width. Cannon Raceway will connect to any number of racks or cabinets.

### Single or multi-tier options

#### Features & Benefits

This cable tray system:

- Modular.
- No high ladder work is required to install cable routing raceway.
- Avoids the need for ceiling fixtures.
- Reduces installation time.
- Dramatically reduces overall cost.
- Avoids landlord constraints due to ceiling damage.
- Provides more scope for changes in room layout.
- Enables easy cable entry through rack roof and facilitates cable separation.
- Provides bend radius control into the rack.
- Supplied in rack sets, or pre-fitted Gangway Bridge Unit. raceway
- In-line raceway links.
- Raceway will divide into separate sections to accommodate both copper and fibre cable.
- All Cable Raceways support a cable load of 100kg evenly distributed, per meter of cable raceway.
- Cannon Cable Raceway is supplied in sets which exactly match cabinet widths.
- As the raceway and cabinet are connected they can easily be moved together, providing a high degree of flexibility and considerable time saving.
- For more cabling capacity or separation use multiple raceways in one system.
- Brackets position raceway above the cabinet roof and allow one tier, two tier or three tier cable runs.
- In addition parallel sets of tiers can be installed.
- Cannon Cable Raceway does not interfere with the maintenance of roof mounted fan trays.
- Adjustable cable-retention plates allow any selection of cable exit position along the length of cable raceway, substantially easing cabling drop down.



### OFFSET SINGLE PARALLEL RACEWAY

Medium capacity single raceways attached to the cabinet roof, above the cabinet cable entry positions.

- Options of 100mm deep mounted 150mm & 400mm deep mounted 100mm (285mm option see below) above cabinet roof
- 100mm, 200mm, 250mm, 300mm & 400mm deep supplied as single raceway:
- One cable raceway
- Two cable retention plates

Also available as a pair.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

Optional - earth bonding kit.

CABINET WIDTH	PART CODE	RACEWAY WIDTH	MOUNTING HEIGHT
600mm	935B02600100	100mm	100mm
600mm	935B10602000	200mm	100mm
600mm	935B10602500	250mm	250mm
600mm	935B20603000	300mm	200mm
600mm	935B01604000	400mm	100mm
600mm	935B21604000	400mm	200mm
600mm	935B20605000	500mm	200mm
700mm	935B02700100	100mm	100mm
700mm	935B01704000	400mm	100mm
800mm	935B02800100	100mm	100mm
800mm	935B20802000	200mm	200mm
800mm	935B25802500	250mm	250mm
800mm	935B20803000	300mm	200mm
800mm	935B01804000	400mm	100mm
800mm	935B21804000	400mm	200mm
800mm	935B03804000	400mm	285mm
800mm	935B30804000	400mm	300mm
800mm	935B40804000	400mm	400mm
800mm	935B20805000	500mm	200mm

### CENTRAL SINGLE PARALLEL RACEWAY

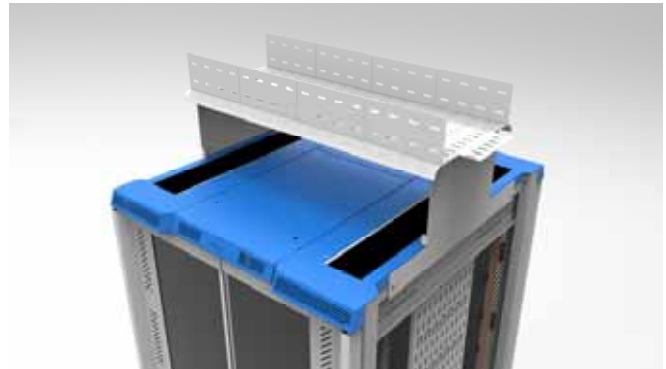
Medium to large capacity single raceway attached to the cabinet roof, centrally above the cabinet cable entry positions providing a cabling waterfall.

- 300mm width raceway mounted 200mm above cabinet roof
- One cable raceway, two cable retention plates and fixing kit

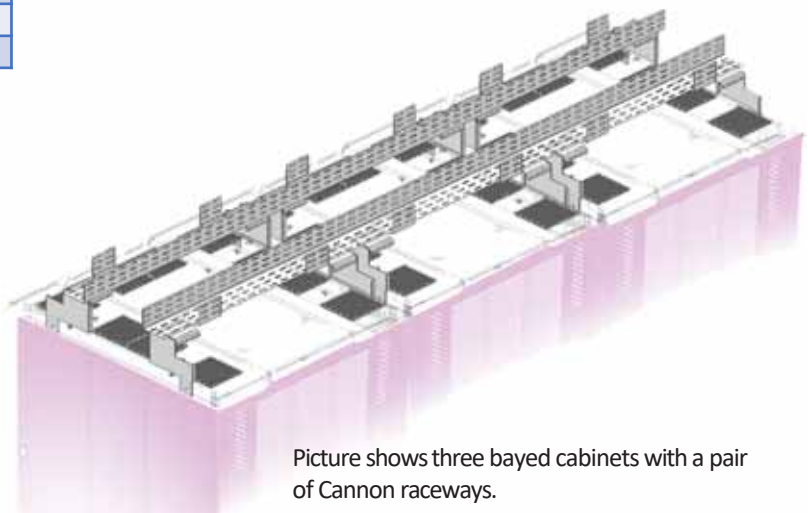
**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

Optional - earth bonding kit.



CABINET WIDTH	CABINET DEPTH	PART CODE	RACEWAY WIDTH	MOUNTING HEIGHT
600mm	600mm	935B20603060	300mm	200mm
600mm	800mm	935B20603080	300mm	200mm
600mm	1000mm	935B20603001	300mm	200mm
600mm	1200mm	935B20603012	300mm	200mm
800mm	600mm	935B20803060	300mm	200mm
800mm	800mm	935B20803002	300mm	200mm
800mm	1000mm	935B20803001	300mm	200mm
800mm	1200mm	935B20803012	300mm	200mm



Picture shows three bayed cabinets with a pair of Cannon raceways.



### STEPPED DOUBLE RACEWAY

(Suitable for **1000mm/1200mm deep** cabinets).

Large capacity stepped double raceways allow cross bridging between raceways, additional capacity and separation of cabling (Fibre/Copper/Power).

Comprises two cable raceways attached to the cabinet roof above the cabinet cable entry positions.

- One: 400mm deep, mounted 100mm above cabinet roof
- One: 400mm deep mounted 200mm above cabinet roof
- *Additional sizes available on request*

#### Optional earth bonding

**Supplied:** 2 x 400mm deep cable channels, 2 x stepped side mounting panels plus fixings.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



Side view.

TO SUIT CABINET FOOTPRINT (W X D)	PART CODE
600mm x 1000mm	935B04609900
700mm x 1000mm	935B04709900
800mm x 1000mm	935B04809900
600mm x 1200mm	935B04601200
800mm x 1200mm	935B04801200

### STEPPED DOUBLE RACEWAY

(To suit **800mm deep** cabinets).

Large capacity stepped double raceways allow cross bridging between raceways, additional capacity and separation of cabling (Fibre/Copper/Power).

Comprises two cable raceways attached to the cabinet roof above the cabinet cable entry positions.

- One: 300mm deep, mounted 100mm above cabinet roof
- One: 300mm deep mounted 200mm above cabinet roof
- *Additional sizes available on request*

#### Optional earth bonding

**Supplied:** 2 x 300mm deep cable channels, 2 x stepped side mounting panels plus fixings.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



Side view.

TO SUIT CABINET FOOTPRINT (W X D)	PART CODE
600mm x 800mm	935B03608000
800mm x 800mm	935B03808000

### LEVEL DOUBLE RACEWAY

(To suit **1000/1200mm deep** cabinets).

Large capacity level double raceways allow cross bridging between raceways, additional capacity and separation of cabling (Fibre/Copper/Power).

Comprises two cable raceways attached to the cabinet roof above the cabinet cable entry positions.

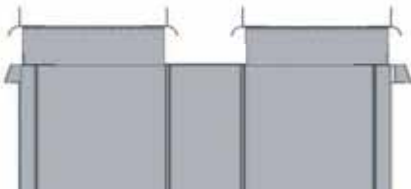
- One: 350mm deep, mounted 100mm above cabinet roof.
- One: 350mm deep mounted 100mm above cabinet roof.
- *Additional sizes available on request.*

#### Optional earth bonding

**Supplied:** 2 x 350mm deep cable channels, 2 x level side mounting panels plus fixings.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



Side view.

TO SUIT CABINET FOOTPRINT (W X D)	PART CODE
600mm x 1000mm	935B02609900
700mm x 1000mm	935B02709900
800mm x 1000mm	935B02809900

### TWO-TIER RACEWAY

Large capacity Two-Tier Raceway comprises two cable raceways attached to the cabinet roof above the cabinet cable entry positions.

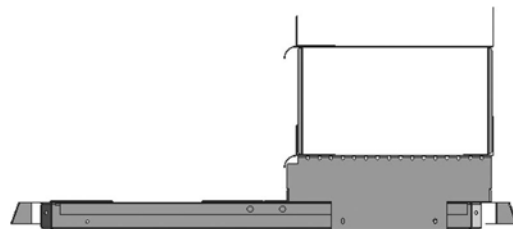
- First tier: 400mm deep, mounted 100mm above cabinet roof
- Second tier: 400mm deep mounted 250mm above cabinet roof

#### Optional earth bonding

**Supplied:** 2 x 400mm deep cable channels, complete two-tier section spanning width of cabinet plus fixings.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



Side view.

TO SUIT CABINET FOOTPRINT (WIDTH)	PART CODE	MOUNTING POSITION
600mm	935B42604500	FRONT/REAR
700mm	935B42704500	FRONT/REAR
800mm	935B42804500	FRONT/REAR
800mm	935B48804500	CENTRALLY
Please note: End of the bay require additional brackets (2-off per bay).		
<b>END BAY BRACKETS</b>	<b>PART CODE: 053C05100600</b>	

### GANGWAY BRIDGE & IN-LINE

#### LINKS FOR CABLE RACEWAY

Telescopic Cable Raceway section to enable continuity of raceway across gangways and between bays of cabinets. Also, for use as an in-line linking tray where Cable Raceways require to be joined.

- Telescopic function will extend from:
  - 900mm to 2,700mm: 400mm WIDE
  - 1100mm to 1600mm: 300mm WIDE
  - 1600mm to 2600mm: 400mm WIDE
  - 1050mm to 2000mm: 200mm WIDE
  - 800mm to 1350mm: 400mm WIDE
  - 800mm to 2000mm: 400mm WIDE
  - 900mm to 1500mm: 150mm WIDE
  - 900mm to 1500mm: 400mm WIDE
  - 900mm – 1500mm: 600mm WIDE
  - 1200 – 1800mm: 450mm WIDE
- 150mm to 600mm width cable raceway tray
- Gangway Bridge & In-Line Links are secured directly to Cable Raceway.

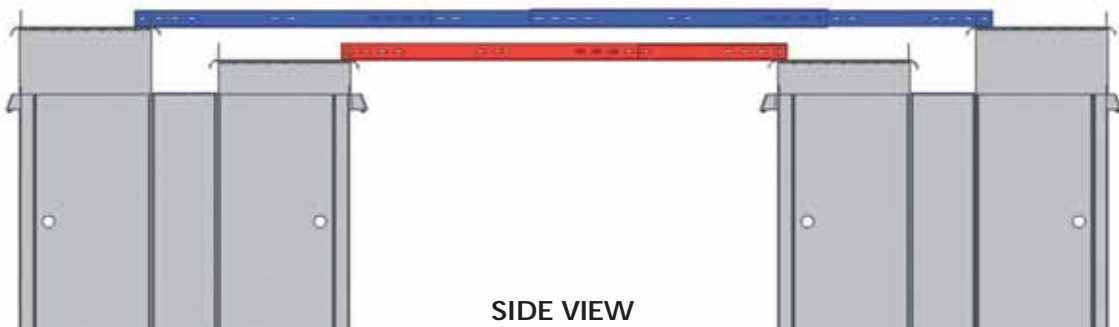
RACEWAY LENGTH	PART CODE	RACEWAY WIDTH
900 – 2700mm	935B02904000	400mm
1100 - 1600mm	935B02113000	300mm
1600 - 2600mm	935B02260400	400mm
1050 - 2000mm	935B02802020	200mm
800 - 1350mm	935B02804000	400mm
800 - 2000mm	935B02804020	400mm
900 – 1500mm	935B02901500	150mm
900 – 1500mm	935B02904000	400mm
900 – 1500mm	935B02906000	600mm
1200 – 1800mm	935B04124500	450mm
1200 – 1800mm	935B18200500	200mm

\*For use with all Cable Raceway.

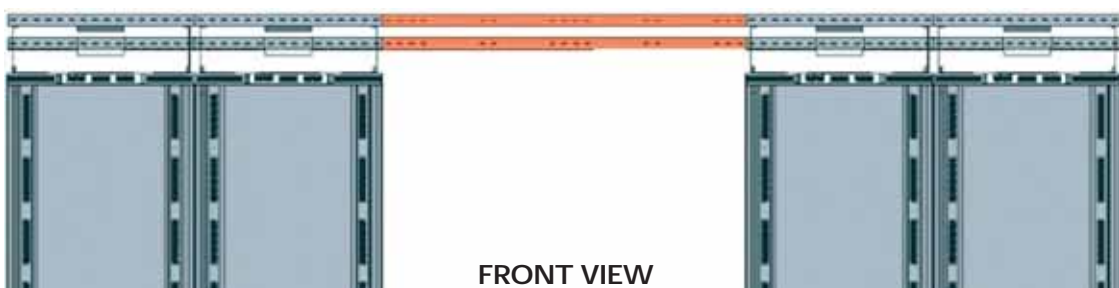
**Supplied:** With fixings.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



Picture shows Gangway Bridge Raceway (depicted here in blue and red).



Picture shows in-line link Raceway (depicted here in orange).





## 19" UK HORIZONTAL RACK MOUNTED PDU



DESCRIPTION	PART CODE / PLUG TYPE				
	13A PLUG	16A BS4343/BS EN 60309 PLUG	32A BS4343/BS EN 60309 PLUG	10A C14 PLUG	16A C20 PLUG
4 WAY 13A 19" HORIZONTAL RACK MOUNT	CP-X194	CP-X194-16	CP-X194-32	CP-X194-E	CP-X194-C20
5 WAY 13A 19" HORIZONTAL RACK MOUNT	CP-X195	CP-X195-16	CP-X195-32	CP-X195-E	CP-X195-C20
6 WAY 13A 19" HORIZONTAL RACK MOUNT	CP-X196	CP-X196-16	CP-X196-32	CP-X196-E	CP-X196-C20
8 WAY 13A 19" HORIZONTAL RACK MOUNT	CP-X198	CP-X198-16	CP-X198-32	CP-X198-E	CP-X198-C20
NEON LIGHT INDICATOR ADD:	<b>-N</b> TO APPROPRIATE PART CODE ABOVE				
NEON LIGHT SWITCH ADD:	<b>-S</b> TO APPROPRIATE PART CODE ABOVE (NOT POSSIBLE ON 8 WAY)				
SURGE PROTECTION ADD:	<b>-SU</b> TO APPROPRIATE PART CODE ABOVE				
RCD ADD:	<b>-R</b> TO APPROPRIATE PART CODE ABOVE				
EMC FILTER ADD:	<b>-EMC</b> TO APPROPRIATE PART CODE ABOVE				

Compliance	CE Compliant: 93/68/EEC BS5773 BS 1363-1-2-3 BS EN 60950 IEC/EN 60309 BS EN 60309
Materials	Accessories: Polycarbonate Body: Aluminium Extrusion: BS1474 Alloy 6063T6 Finish: Category 3 - Anodised Black End Brackets: Mild Steel: CR4 BS10130
Current	10Amps - IEC C14 Plug 13Amps - BS 1363 - 1 Plug 16 Amps - IEC C20 Plug BS EN 60309 Plug 32 Amps - BS EN 60309 Plug
Voltage	230 - 250 a.c.
Frequency	50Hz
Connection Details	1.5mm <sup>2</sup> x 3Mtrs 3core HO5VV-Flex to BS 1363 Plug fused @13Amps, 16Amp BS4343 Plug, IEC C14 Plug, IEC C20 Plug via strain relief gland. 4.0mm <sup>2</sup> x 3Mtrs 3core HO5VV-Flex to 32Amp BS EN 60309 Plug via strain relief gland
Box Quantity	1 Piece / 1.23Kgs(CPX198) / 0.0054M <sup>3</sup>
Environmental Issue	Packaging Waste: Cardboard - 0.0015Kg / 125T/125T B Flute RoHS Compliant - ref: 2015/863 The products manufactured & otherwise supplied by the company do not have any perceived known hazardous materials or by-products that would be deemed hazardous to the environment.



Under the Waste Electrical and Equipment Directive (WEEE) this product should be disposed of responsibly

## 19" IEC C13 HORIZONTAL RACK MOUNTED PDU



DESCRIPTION	PART CODE / PLUG TYPE				
	13A PLUG	16A BS4343/BS EN 60309 PLUG	32A BS4343/BS EN 60309 PLUG	10A C14 PLUG	16A C20 PLUG
4 WAY C13 19" HORIZONTAL RACK MOUNT	CP-X194E	CP-X194E-16	CP-X194E-32	CP-X194E-E	CP-X194E-C20
8 WAY C13 19" HORIZONTAL RACK MOUNT	CP-X198E	CP-X198E-16	CP-X198E-32	CP-X198E-E	CP-X198E-C20
12 WAY C13 19" HORIZONTAL RACK MOUNT	CP-X1912E	CP-X1912E-16	CP-X1912E-32	CP-X1912E-E	CP-X1912E-C20
16 WAY C13 19" HORIZONTAL RACK MOUNT	CP-X1916E	CP-X1916E-16	CP-X1916E-32	CP-X1916E-E	CP-X1916E-C20
NEON LIGHT INDICATOR ADD:	<b>-N</b> TO APPROPRIATE PART CODE ABOVE				
NEON LIGHT SWITCH ADD:	<b>-S</b> TO APPROPRIATE PART CODE ABOVE (NOT POSSIBLE ON 16 WAY)				
SURGE PROTECTION ADD:	<b>-SU</b> TO APPROPRIATE PART CODE ABOVE				
RCD ADD:	<b>-R</b> TO APPROPRIATE PART CODE ABOVE				
EMC FILTER ADD:	<b>-EMC</b> TO APPROPRIATE PART CODE ABOVE				

### CABLE ASSEMBLY ACCESSORIES FOR ABOVE

DESCRIPTION	PART CODE
IEC C13 TO C14 <b>2M</b> CORD	EC0631
IEC C13 TO C14 <b>3M</b> CORD	EC0920
IEC C13 TO C14 <b>5M</b> CORD	EC0633
IEC C13 TO C14 <b>2M</b> CORD - LSZH	EC0646-2
IEC C14 TO C19 <b>2M</b> CORD – LSZH	EC0656-2
IEC C14 TO C15 <b>2M</b> CORD- LSZH	EC0644-2-LSZH



Compliance	CE Compliant: 93/68/EEC BS 5773, BS1363-1, BS 1363-2, BS EN 60950, IEC/EN 60320-2-2 / IEC/EN 60320-1, BS EN 60309-1 (BS4343)
Materials	Accessories: Polycarbonate Body: Aluminium Extrusion: BS1474 Alloy 6063T6 Finish: Category 3 - Anodised Black End Brackets: Mild Steel: CR4 BS10130
Current	10Amps - IEC C14 Plug 13Amps - BS 1363 - 1 Plug 16 Amps - IEC C20 Plug / BS EN 60309 Plug 32 Amps - BS EN 60309 Plug
Voltage	230 - 250 a.c.
Frequency	50Hz
Connection Details	1.5mm <sup>2</sup> x 3Mtrs 3core HO5VV-Flex to BS 1363 Plug fused @13Amps, 16Amp IEC 6030T Plug, IEC C14 Plug, IEC C20 Plug via strain relief gland. 4.0mm <sup>2</sup> x 3Mtrs 3core HO5VV-F Flex to 32Amp BS EN 60309 Plug via strain relief gland.
Box Quantity	1 Piece / 1.24Kgs(CPX198E) / 0.0054M <sup>3</sup>
Environmental Issue	Packaging Waste: Cardboard - 0.0015Kg / 125T/125T B Flute RoHS Compliant - ref: 2015/863 The products manufactured & otherwise supplied by the company do not have any perceived known hazardous materials or by-products that would be deemed hazardous to the environment. <i>Under the Waste Electrical and Equipment Directive (WEEE) this product should be disposed of responsibly</i>



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

## 19" C19 HORIZONTAL RACK MOUNTED PDU

DESCRIPTION	PART CODE / PLUG TYPE				
	13A PLUG	16A BS4343/BS EN 60309 PLUG	32A BS4343/BS EN 60309 PLUG	10A C14 PLUG	16A C20 PLUG
4 WAY C19 19" HORIZONTAL RACK MOUNT	CP-X194C19	CP-X194C19-16	CP-X194C19-32	CP-X194C19-E	CP-X194C19-C20
5 WAY C19 19" HORIZONTAL RACK MOUNT	CP-X195C19	CP-X195C19-16	CP-X195C19-32	CP-X195C19-E	CP-X195C19-C20
6 WAY C19 19" HORIZONTAL RACK MOUNT	CP-X196C19	CP-X196C19-16	CP-X196C19-32	CP-X196C19-E	CP-X196C19-C20
8 WAY C19 19" HORIZONTAL RACK MOUNT	CP-X198C19	CP-X198C19-16	CP-X198C19-32	CP-X198C19-E	CP-X198C19-C20
NEON LIGHT INDICATOR ADD:	<b>-N</b> TO APPROPRIATE PART CODE ABOVE				
NEON LIGHT SWITCH ADD:	<b>-S</b> TO APPROPRIATE PART CODE ABOVE (NOT POSSIBLE ON 8 WAY)				
SURGE PROTECTION ADD:	<b>-SU</b> TO APPROPRIATE PART CODE ABOVE				
RCD ADD:	<b>-R</b> TO APPROPRIATE PART CODE ABOVE				
EMC FILTER ADD:	<b>-EMC</b> TO APPROPRIATE PART CODE ABOVE				



CABLE ASSEMBLY ACCESSORIES FOR ABOVE	
DESCRIPTION	PART CODE
IEC C19 TO C20 <b>1M</b> CORD – 16A	EC0662-1
IEC C19 TO C20 <b>2M</b> CORD – 16A	EC0662-2
IEC C19 TO C14 <b>2M</b> CORD - LSZH	EC0656-2
IEC C19 TO C20 <b>3M</b> CORD	EC0662-3
IEC C19 TO C20 <b>3M</b> CORD – LSZH	EC0663-3

<b>Compliance</b>	CE Compliant: 93/68/EEC BS5773 BS 1363-1-2-3 BS EN 60950 IEC/EN 60309 BS EN 60309
<b>Materials</b>	Accessories: Polycarbonate Body: Aluminium Extrusion: BS1474 Alloy 6063T6 Finish: Category 3 - Anodised Black End Brackets: Mild Steel: CR4 BS10130
<b>Current</b>	10Amps - IEC C14 Plug 13Amps - BS 1363 - 1 Plug 16 Amps - IEC C20 Plug BS EN 60309 Plug 32 Amps - BS EN 60309 Plug
<b>Voltage</b>	230 - 250 a.c.
<b>Frequency</b>	50Hz
<b>Connection Details</b>	1.5mm <sup>2</sup> x 3Mtrs 3core HO5VV-Flex to BS 1363 Plug fused @13Amps, 16Amp BS4343 Plug, IEC C14 Plug, IEC C20 Plug via strain relief gland. 4.0mm <sup>2</sup> x 3Mtrs 3core HO5VV-Flex to 32Amp BS EN 60309 Plug via strain relief gland
<b>Box Quantity</b>	1 Piece / 1.23Kgs(CPX198) / 0.0054M <sup>3</sup>
<b>Environmental Issue</b>	Packaging Waste: Cardboard - 0.0015Kg / 125T/125T B Flute RoHS Compliant - ref: 2015/863 The products manufactured & otherwise supplied by the company do not have any perceived known hazardous materials or by-products that would be deemed hazardous to the environment.



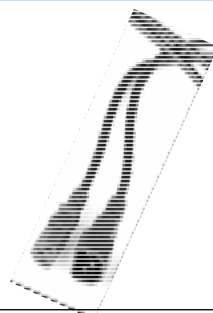
Under the Waste Electrical and Equipment Directive (WEEE) this product should be disposed of responsibly

## 19" IEC C13/C19/13A COMBINATION HORIZONTAL RACK MOUNTED PDU



DESCRIPTION	PART CODE / PLUG TYPE				
	13A PLUG	16A BS4343/BS EN 60309 PLUG	32A BS4343/BS EN 60309 PLUG	10A C14 PLUG	16A C20 PLUG
4 x C13/4 x C19/2 x 13A UK 19" HOR MOUNT	CP-X19C1	CP-X19C1-16	CP-X19C1-32	CP-X19C1-E	CP-X19C1-C20
4 x C13/2 x C19/4 x 13A UK 19" HOR MOUNT	CP-X19C2	CP-X19C2-16	CP-X19C2-32	CP-X19C2-E	CP-X19C2-C20
8 x C13/3 x C19/2 x 13A UK 19" HOR MOUNT	CP-X19C3	CP-X19C3-16	CP-X19C3-32	CP-X19C3-E	CP-X19C3-C20
4 x C13 / 6 x 13A UK 19" HORIZONTAL MNT	CP-X19C4	CP-X19C4-16	CP-X19C4-32	CP-X19C4-E	CP-X19C4-C20
SURGE PROTECTION ADD:	<b>-SU</b> TO APPROPRIATE PART CODE ABOVE				
RCD ADD:	<b>-R</b> TO APPROPRIATE PART CODE ABOVE				
EMC FILTER ADD:	<b>-EMC</b> TO APPROPRIATE PART CODE ABOVE				

CABLE ASSEMBLY ACCESSORIES FOR ABOVE	
DESCRIPTION	PART CODE
IEC C13 TO C14 <b>2M</b> CORD	EC0631
IEC C13 TO C14 <b>3M</b> CORD	EC0920
IEC C13 TO C14 <b>5M</b> CORD	EC0633
IEC C13 TO C14 <b>2M</b> CORD - LSZH	EC0646-2
IEC C14 TO C19 <b>2M</b> CORD – LSZH	EC0656-2
IEC C14 TO C15 <b>2M</b> CORD- LSZH	EC0644-2-LSZH



CABLE ASSEMBLY ACCESSORIES FOR ABOVE	
DESCRIPTION	PART CODE
IEC C19 TO C20 <b>1M</b> CORD – 16A	EC0662-1
IEC C19 TO C20 <b>2M</b> CORD – 16A	EC0662-2
IEC C19 TO C14 <b>2M</b> CORD - LSZH	EC0656-2
IEC C19 TO C20 <b>3M</b> CORD	EC0662-3
IEC C19 TO C20 <b>3M</b> CORD – LSZH	EC0663-3

Compliance	CE Compliant: 93/68/EEC BS 5773, BS1363-1, BS 1363-2, BS EN 60950, IEC/EN 60320-2-2 / IEC/EN 60320-1, BS EN 60309-1 (BS4343)
Materials	Accessories: Polycarbonate Body: Aluminium Extrusion: BS1474 Alloy 6063T6 Finish: Category 3 - Anodised Blac End Brackets: Mild Steel: CR4 BS10130
Current	10Amps - IEC C14 Plug 13Amps - BS 1363 - 1 Plug 16 Amps - IEC C20 Plug / BS EN 60309 Plug 32 Amps - BS EN 60309 Plug
Voltage	230 - 250 a.c.
Frequency	50Hz
Connection Details	1.5mm <sup>2</sup> x 3Mtrs 3core HO5VV-Flex to BS 1363 Plug fused @13Amps, 16Amp IEC 6030T Plug, IEC C14 Plug, IEC C20 Plug via strain relief gland. 4.0mm <sup>2</sup> x 3Mtrs 3core HO5VV-F Flex to 32Amp BS EN 60309 Plug via strain relief gland.
Box Quantity	1 Piece / 1.24Kgs(CPX198E) / 0.0054M <sup>3</sup>
Environmental Issue	Packaging Waste: Cardboard - 0.0015Kg / 125T/125T B Flute RoHS Compliant - ref: 2015/863 The products manufactured & otherwise supplied by the company do not have any perceived known hazardous materials or by-products that would be deemed hazardous to the environment. <i>Under the Waste Electrical and Equipment Directive (WEEE) this product should be disposed of responsibly</i>

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



## UK ANGLED RIGHT & LEFT VERTICAL RACK MOUNT PDU



DESCRIPTION	PART CODE / PLUG TYPE				
	13A PLUG	16A BS4343/BS EN 60309 PLUG	32A BS4343/BS EN 60309 PLUG	10A C14 PLUG	16A C20 PLUG
<b>RIGHT HAND ANGLES 13A SOCKETS</b>					
4 WAY 13A RIGHT VERTICAL MOUNT	CP-XAR4	CP-XAR4-16	CP-XAR4-32	CP-XAR4-E	CP-XAR4-C20
5 WAY 13A RIGHT VERTICAL MOUNT	CP-XAR5	CP-XAR5-16	CP-XAR5-32	CP-XAR5-E	CP-XAR5-C20
6 WAY 13A RIGHT VERTICAL MOUNT	CP-XAR6	CP-XAR6-16	CP-XAR6-32	CP-XAR6-E	CP-XAR6-C20
8 WAY 13A RIGHT VERTICAL MOUNT	CP-XAR8	CP-XAR8-16	CP-XAR8-32	CP-XAR8-E	CP-XAR8-C20
10 WAY 13A RIGHT VERTICAL MOUNT	CP-XAR10	CP-XAR10-16	CP-XAR10-32	CP-XAR10-E	CP-XAR10-C20
12 WAY 13A RIGHT VERTICAL MOUNT	CP-XAR12	CP-XAR12-16	CP-XAR12-32	CP-XAR12-E	CP-XAR12-C20
15 WAY 13A RIGHT VERTICAL MOUNT	CP-XAR15	CP-XAR15-16	CP-XAR15-32	CP-XAR15-E	CP-XAR15-C20
20 WAY 13A RIGHT VERTICAL MOUNT	CP-XAR20	CP-XAR20-16	CP-XAR20-32	CP-XAR20-E	CP-XAR20-C20
<b>LEFT HAND ANGLES 13A SOCKETS</b>					
4 WAY 13A LEFT VERTICAL MOUNT	CP-XAL4	CP-XAL4-16	CP-XAL4-32	CP-XAL4-E	CP-XAL4-C20
5 WAY 13A LEFT VERTICAL MOUNT	CP-XAL5	CP-XAL5-16	CP-XAL5-32	CP-XAL5-E	CP-XAL5-C20
6 WAY 13A LEFT VERTICAL MOUNT	CP-XAL6	CP-XAL6-16	CP-XAL6-32	CP-XAL6-E	CP-XAL6-C20
8 WAY 13A LEFT VERTICAL MOUNT	CP-XAL8	CP-XAL8-16	CP-XAL8-32	CP-XAL8-E	CP-XAL8-C20
10 WAY 13A LEFT VERTICAL MOUNT	CP-XAL10	CP-XAL10-16	CP-XAL10-32	CP-XAL10-E	CP-XAL10-C20
12 WAY 13A LEFT VERTICAL MOUNT	CP-XAL12	CP-XAL12-16	CP-XAL12-32	CP-XAL12-E	CP-XAL12-C20
15 WAY 13A LEFT VERTICAL MOUNT	CP-XAL15	CP-XAL15-16	CP-XAL15-32	CP-XAL15-E	CP-XAL15-C20
20 WAY 13A LEFT VERTICAL MOUNT	CP-XAL20	CP-XAL20-16	CP-XAL20-32	CP-XAL20-E	CP-XAL20-C20
<b>OPTIONS - ADD THE APPROPRIATE SUFFIX TO THE CODE ABOVE E.G. CP-XAR4-N-SU FOR NEON AND SURGE PROTECTION</b>					
NEON LIGHT INDICATOR ADD:	<b>-N</b> TO APPROPRIATE PART CODE ABOVE				
NEON LIGHT SWITCH ADD:	<b>-S</b> TO APPROPRIATE PART CODE ABOVE				
SURGE PROTECTION ADD:	<b>-SU</b> TO APPROPRIATE PART CODE ABOVE				
RCD ADD:	<b>-R</b> TO APPROPRIATE PART CODE ABOVE				
EMC FILTER ADD:	<b>-EMC</b> TO APPROPRIATE PART CODE ABOVE				

<b>Compliance</b>	CE Compliant: 93/68/EEC BS5773, BS 1363-1, BS 1363 2, BS EN 60669-1 IEC/EN 60320-2-2, IEC EN 60309-1 (BS4343)
<b>Materials</b>	Accessories: Polycarbonate Body: Aluminium Extrusion: BS1474 Alloy 6063T6 Finish: Category 3 - Anodised Black End Brackets: Mild Steel: CR4 BS10130
<b>Current</b>	10Amps - IEC C14 Plug 13Amps - BS 1363 - 1 Plug 16 Amps - IEC C20 Plug or BS EN 60309 Plug 32 Amps - BS EN 60309 Plug
<b>Voltage</b>	230 - 250 a.c.
<b>Frequency</b>	50Hz
<b>Connection Details</b>	1.5mm <sup>2</sup> x 3Mtrs 3core HO5VV-Flex to BS 1363 Plug fused @13Amps, 16Amp BS4343 Plug, IEC C14 Plug, IEC C20 Plug via strain relief gland. 4.0mm <sup>2</sup> x 3Mtrs 3core HO5VV-F Flex to 32Amp BS EN 60309 Plug via strain relief gland
<b>Box Quantity</b>	1 Piece / 1.20Kgs(CPXAR6) / 0.0034M <sup>3</sup>
<b>Environmental Issue</b>	Packaging Waste: Cardboard - 0.0015Kg / 125T/125T B Flute RoHS Compliant - ref: 2015/863 The products manufactured & otherwise supplied by the company do not have any perceived known hazardous materials or by-products that would be deemed hazardous to the environment.



Under the Waste Electrical and Equipment Directive (WEEE) this product should be disposed of responsibly

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

## IEC C13 VERTICAL RACK MOUNT PDU



DESCRIPTION	PART CODE / PLUG TYPE				
	13A PLUG	16A BS4343/BS EN 60309 PLUG	32A BS4343/BS EN 60309 PLUG	10A C14 PLUG	16A C20 PLUG
12 WAY C13 VERTICAL MOUNT	CP-XH12E	CP-XH12E-16	CP-XH12E-32	CP-XH12E-E	CP-XH12E-C20
16 WAY C13 VERTICAL MOUNT	CP-XH16E	CP-XH16E-16	CP-XH16E-32	CP-XH16E-E	CP-XH16E-C20
20 WAY C13 VERTICAL MOUNT	CP-XH20E	CP-XH20E-16	CP-XH20E-32	CP-XH20E-E	CP-XH20E-C20
24 WAY C13 VERTICAL MOUNT	CP-XH24E	CP-XH24E-16	CP-XH24E-32	CP-XH24E-E	CP-XH24E-C20
NEON LIGHT INDICATOR ADD:	<b>-N</b> TO APPROPRIATE PART CODE ABOVE				
NEON LIGHT SWITCH ADD:	<b>-S</b> TO APPROPRIATE PART CODE ABOVE				
SURGE PROTECTION ADD:	<b>-SU</b> TO APPROPRIATE PART CODE ABOVE				
RCD ADD:	<b>-R</b> TO APPROPRIATE PART CODE ABOVE				
EMC FILTER ADD:	<b>-EMC</b> TO APPROPRIATE PART CODE ABOVE				

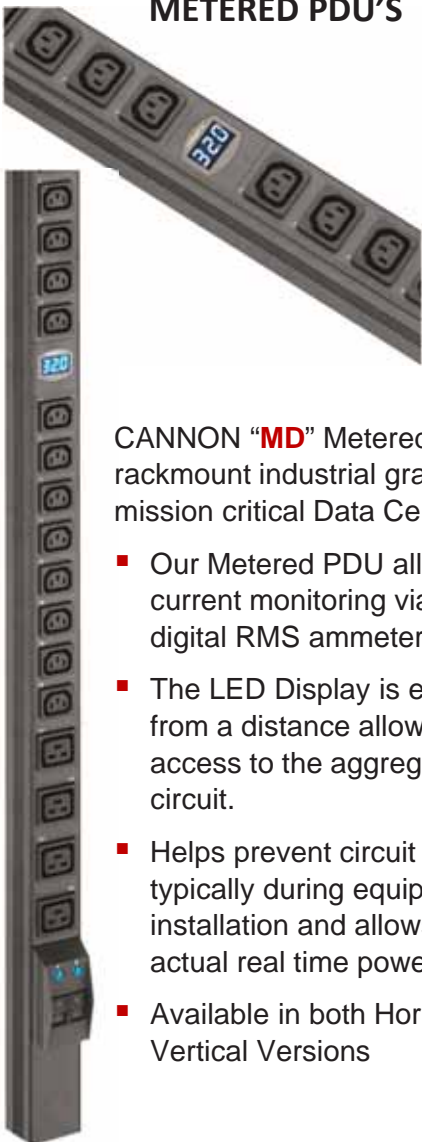
CABLE ASSEMBLY ACCESSORIES FOR ABOVE	
DESCRIPTION	PART CODE
IEC C13 TO C14 <b>2M</b> CORD	EC0631
IEC C13 TO C14 <b>3M</b> CORD	EC0920
IEC C13 TO C14 <b>5M</b> CORD	EC0633
IEC C13 TO C14 <b>2M</b> CORD - LSZH	EC0646-2
IEC C14 to C19 <b>2M</b> CORD – LSZH	EC0656-2
IEC C14 TO C15 <b>2M</b> CORD- LSZH	EC0644-2-LSZH



<b>Compliance</b>	<b>CE Compliant: 93/68/EEC</b> <b>BS5773</b> <b>BS EN 60950</b> <b>IEC/EN 60320-2-2</b> <b>BS EN 60309-1</b>
<b>Materials</b>	<b>Accessories: Polycarbonate</b> <b>Body: Aluminium Extrusion: BS1474 Alloy 6063T6</b> <b>Finish: Category 3 - Anodised Black</b> <b>End Brackets: Mild Steel: CR4 BS10130</b>
<b>Current</b>	<b>BS EN 60309 Plug</b>
<b>Voltage</b>	<b>230 - 250 a.c.</b>
<b>Frequency</b>	<b>50Hz</b>
<b>Connection Details</b>	<b>1.5mm<sup>2</sup> x 3Mtrs 3core HO5VV-Flex to BS 1363 Plug fused @13Amps, 16Amp BSEN 60309 Plug via strain relief gland.</b>
<b>Box Quantity</b>	<b>1 Piece / 1.23Kgs (CP-X198E) / 0.0054M<sup>3</sup></b>
<b>Environmental Issue</b>	<b>Packaging Waste:</b> <b>Cardboard - 0.0015Kg / 125T/125T B Flute</b> <b>RoHS Compliant - ref: 2015/863</b> <b>The products manufactured &amp; otherwise supplied by the company do not have any perceived known hazardous materials or by-products that would be deemed hazardous to the environment.</b> <b>Under the Waste Electrical and Equipment Directive (WEEE) this product should be disposed of responsibly</b>



### METERED PDU'S



CANNON “MD” Metered PDU’s are rackmount industrial grade PDU for mission critical Data Centre’s.

- Our Metered PDU allows true RMS current monitoring via a simple digital RMS ammeter.
- The LED Display is easy to read from a distance allowing rapid access to the aggregate load on the circuit.
- Helps prevent circuit overloads typically during equipment installation and allows planning on actual real time power load.
- Available in both Horizontal and Vertical Versions

### MONITORED PDU

CANNON “W” Series Monitored PDU is a rackmount industrial grade PDU for mission critical Data Centre’s and remote install sites.

- The “W” Series PDU ammeter is designed with a 1.8” colour LCD display. It provides a sharp and highly visible reading for the local strip level reading of current (Amps), voltage (Volt), power (kW), energy consumption (kWh), power factor, as well as temperature and humidity.
- Allows monitoring with the use of an IP dongle via a simple, secure web based GUI management interface.
- Can be cascaded up to a maximum of 16 PDU’s using a low cost Cat6 patch cord allowing access control and monitoring via a single IP address over an Ethernet network.
- The real time monitoring can not only help by reducing manpower and related travel costs, but can also help users with capacity planning and improving the overall efficiency of the data centre.
- IP DONGLE PART CODE: PDUC302632
  - Cascade up-to 16 PDU’s
- TEMP & HUMIDTY SENSOR: PDUC065553
- TEMP SENSOR: PDUC2061116



CANNON POWER	DIRECTION	SOCKET QTY	SOCKET TYPE	SOCKET QTY	SOCKET TYPE 2	SOCKET QTY	SOCKET TYPE 3	RATING	MODEL TYPE	CORD LENGTH	INPUT PLUG	FEED INPUT	COLOUR
CP	V	02	3 = UK 45	02	1 = C13	02	2 = C19	1 = 13A	0 = BASIC	1 = 1m	1 = 60309	1=bottom	1=black
	H	04	4 = UK 135	04		04		2 = 16A	1 = MD	2 = 2m	2 = C20	2=top	2=blue
		06	5 = UK 90	06		06		3 = 32A	2 = MT	3 = 3m	3 = UK		3=red
		08	6 = CEE 7/4	08		08		4 = 10A	3 = MTS	4 = 4m	4 = Schuko		4=grey
		10	7 = US NEMA	10		10		5 = 20A	4 = W	5 = 5m	5=UNTERMINATED		
		12	8 = CEE 7/5	12		12		6 = 30A	5 = WI		6 = C14		
		16		14				7 = 16A(3)	6 = WS		7=L6-20P		
		20		16				8 = 32A(3)	7 = WSI		8=LC6-30P		
		24		18									
				20									
				24									
				28									
				32									
				36									

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



### MONITORED & SWITCHED PDU

CANNON “WS” range of PDU’s and includes all the power monitoring features of “W” model. In addition, it allows **individual** outlet **switch on/off** remotely through the InfraPower or CANNON management software

- By applying the top edition of IPM-Pro, outlet switching on/off scheduling can be achieved for an advanced switching management.
- The “WS” series PDU ammeter is designed with a 1.8” colour LCD display. It provides a sharp and highly visible reading for the local strip level reading of current (Amp), voltage (Volt), power (kW), energy consumption (kWh), power factor, as well as temperature and humidity.
- Remote monitoring and switching of individual sockets is possible with the use of an IP dongle via a simple, secure web based GUI management interface.
- The “WS” series can be cascaded up to a maximum of 16 PDU’s using a low cost Cat6 patch cord allowing access control and monitoring via a single IP address over an Ethernet network.
- IP DONGLE PART CODE: PDUC302632
  - Cascade up-to 16 PDU’s
- TEMP & HUMIDTY SENSOR: PDUC065553
- TEMP SENSOR: PDUC2061116

### MONITORED & SWITCHED PDU

CANNON “WSi” Series is the most sophisticated PDU model using InfraPower management software IPM-Pro or IPM-03.








- The “WSi” Series PDU allows **individual** socket level **switching** and **monitoring**.
- The “WSi” series ammeter is designed with a 1.8” colour LCD display. It provides a sharp and highly visible reading for the local individual socket level reading of current (Amps), voltage (Volt), power (kW), energy consumption (kWh), power factor, as well as temperature and humidity.
- Remote monitoring and switching of individual sockets is possible with the use of an IP dongle via a simple, secure web based GUI management interface.
- Can be cascaded up to a maximum of 16 PDU’s using a low cost Cat6 patch cord allowing access control and monitoring via a single IP address over an Ethernet network.
- The real time monitoring can not only help by reducing manpower and related travel costs, but can also help users with capacity planning and improving the overall efficiency of the data centre.
- IP DONGLE PART CODE: PDUC302632
  - Cascade up-to 16 PDU’s
- TEMP & HUMIDTY SENSOR: PDUC065553
- TEMP SENSOR: PDUC2061116



CANNON POWER	DIRECTION	SOCKET QTY	SOCKET TYPE	SOCKET QTY	SOCKET TYPE 2	SOCKET QTY	SOCKET TYPE 3	RATING	MODEL TYPE	CORD LENGTH	INPUT PLUG	FEED INPUT	COLOUR
CP	V	02	3 = UK 45	02	1 = C13	02	2 = C19	1 = 13A	0 = BASIC	1 = 1m	1 = 60309	1=bottom	1=black
	H	04	4 = UK 135	04		04		2 = 16A	1 = MD	2 = 2m	2 = C20	2=top	2=blue
		06	5 = UK 90	06		06		3 = 32A	2 = MT	3 = 3m	3 = UK		3=red
		08	6 = CEE 7/4	08		08		4 = 10A	3 = MTS	4 = 4m	4 = Schuko		4=grey
		10	7 = US NEMA	10		10		5 = 20A	4 = W	5 = 5m	5=UNTERMINATED		
		12	8 = CEE 7/5	12		12		6 = 30A	5 = WI		6 = C14		
		16		14				7 = 16A(3)	6 = WS		7=L6-20P		
		20		16				8 = 32A(3)	7 = WSI		8=LC6-30P		
		24		18									
				20									
				24									
				28									
				32									
				36									

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




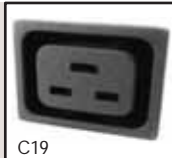




Socket	Rating	Alternative Names	Panel Mount Socket	Trailing Socket	Plug
UK	13A	BS1363			
SCHUKO	16A	European CEE7	 German  French/Belgium		

**Notes:** The standard plug and socket adopted for most of Continental Europe is CEE7/7, also known as the Schutzkontaktsteckdose plug and socket, or Schuko for short. These are sometimes referred to as a Euro plug and socket, this is incorrect. The Euro plug and socket or CEE7/16 is a 2.5Amp two pin un-earthed plug and is not used in our industry. The Earth in the Schuko plug is achieved through the scraping clips on the inside of the socket. The French/Belgian socket differs slightly in that it has an Earth pin although the plug is the same.

NEMA	15A	N/A		N/A	
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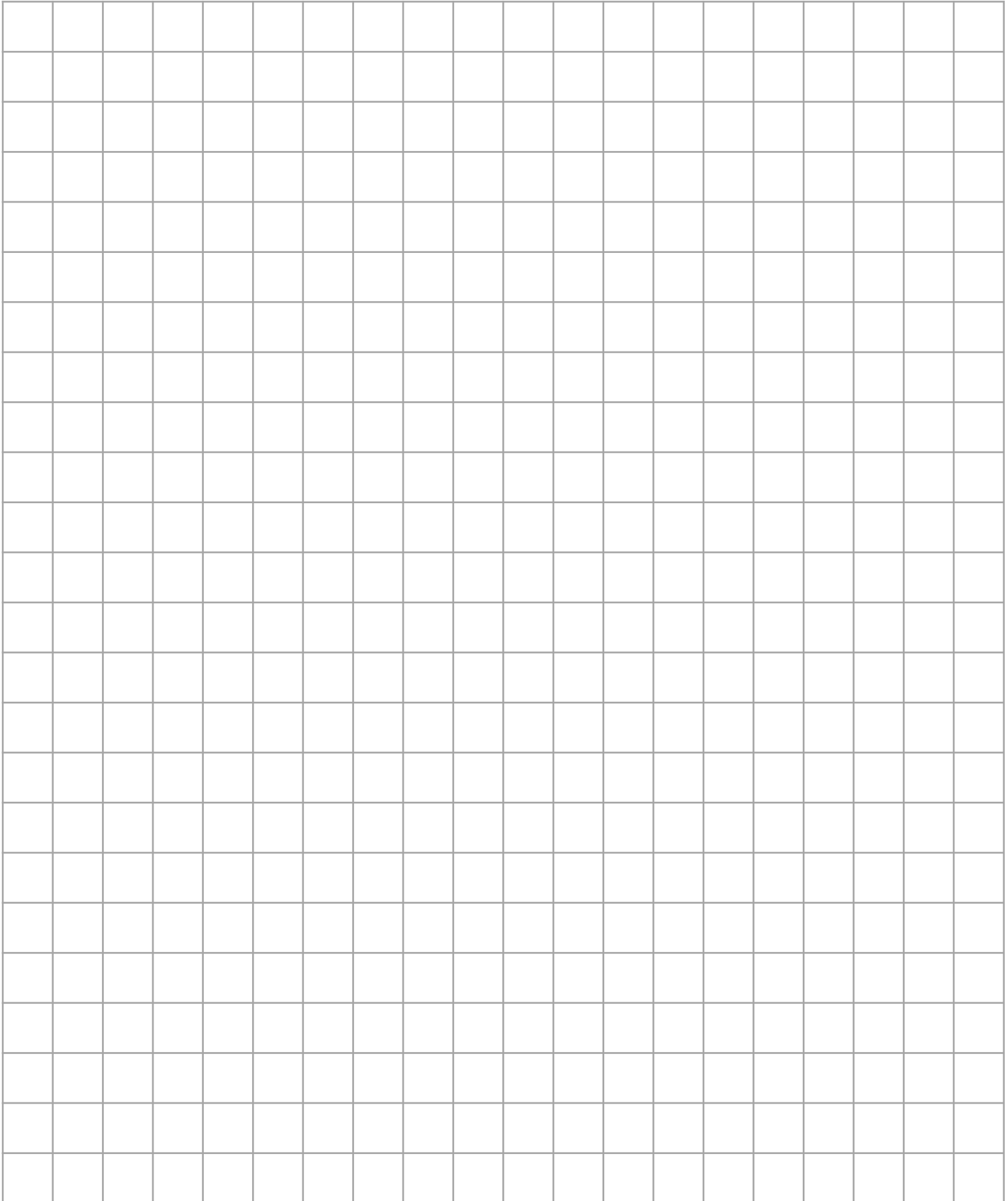
**Notes:** Works on the US electrical system of 110-125V. Not compatible with the European 230V system

IEC C13/C14	10A	Kettle plug/socket IEC 60320	 C13	 C13	 C14
IEC C19/C20	16A	IEC 60320	 C19	 C19	 C20

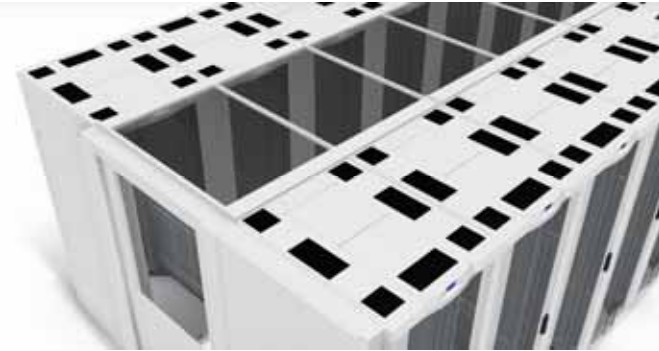
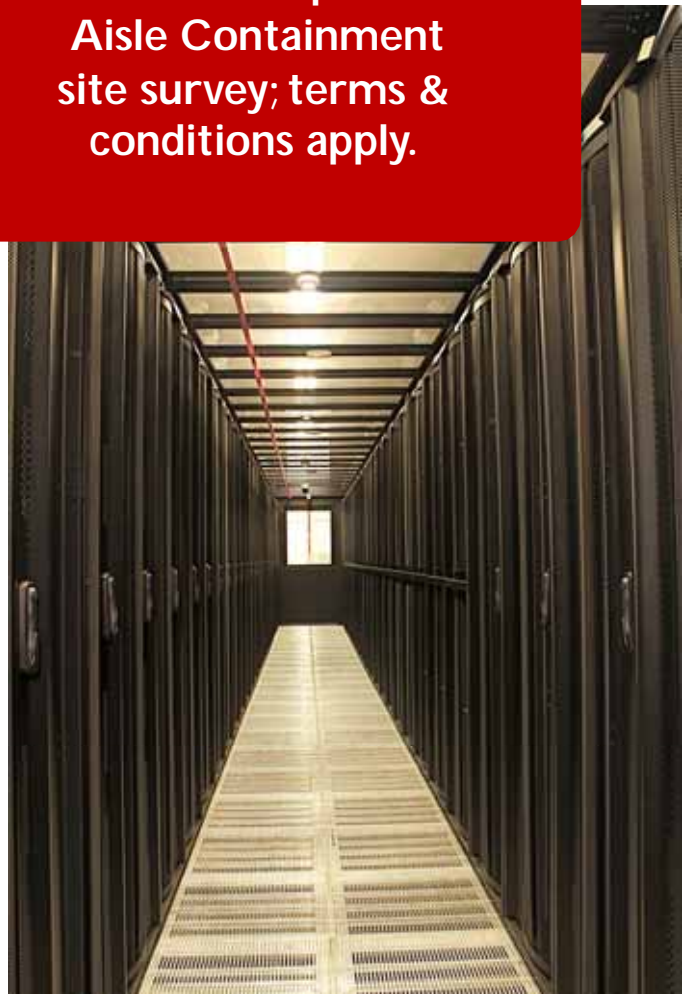
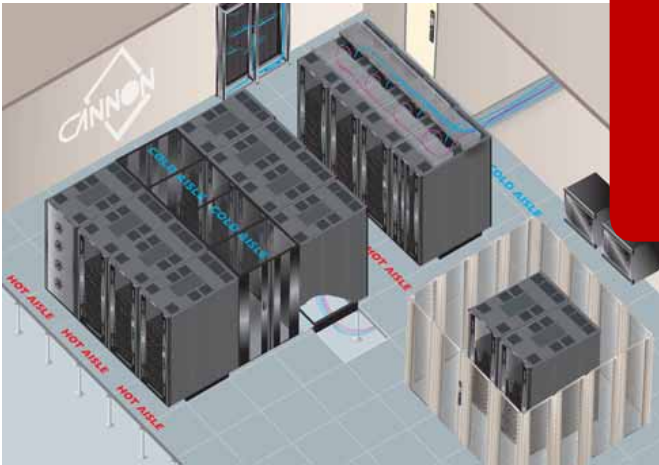
**Notes:** The initials IEC stand for International Electro-technical Commission, who are an International body of technical experts from within the manufacturing industries and various national test houses. Their publications are not 'a standard' as such, but are a set of recommendations that form the basis of most of the national standards in Europe and Australia. You will often hear the phrase 'IEC' used to describe a type of plug or socket, usually referred to as a kettle type connector. This seems to have developed as an incorrect generic term that we all tend to use (and will continue to use in this text). To muddy the waters straight away, you will notice that the connector on your kettle has a raised section inside the inlet. These types of inlets are actually IEC C15 & IEC C16; we don't normally use this type of connector in our industry. The most important term used to clarify exactly what you want is the 'C' Number. Below are a few examples of 'IEC' plugs and sockets covered by the standard IEC 60320. I have included the higher rated C19 & C20 as they are becoming more common for connections to UPSs. The current ratings quoted are based on VDE (Verband Deutscher Electrotechniker) approvals, not UL (Underwriters Laboratory).

BS4343	16A & 32A	Commando IEC 60309			
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**Notes:** The next group of plugs and sockets causes just as much confusion. They go by a range of names, Commando, BS4343, IEC60309 and Industrial. Most people use the name 'Commando' but this is a registered name of MK Electric, so is an incorrect generic name, in the same way we call a vacuum cleaner a Hoover. Having said that, we'll stick to the term 'Commando' to save confusion.



**Cannon FREE pre-sales Aisle Containment site survey; terms & conditions apply.**



Images show examples of CANNON Hot/Cold Aisle Containment solutions including:  
Cold Aisle and Cage solutions (TOP LEFT), Passive Slide-in Roof (MIDDLE LEFT), Standard Passive Roof (ABOVE), Hot Aisle (BOTTOM LEFT), Passive Roof with Integrated Raceway (BELOW)



**For further details on Aisle Containment please contact the Cannon SalesTeam.**

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

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### THE CANNON HOT/COLD AISLE CONTAINMENT SYSTEM

Provides segregation of cold aisle air flow from hot aisle exhaust air in Datacentres. By preventing the contamination of cold air by hot air, the full effect of this cooling resource is available to servers and other power hungry equipment contained in 'IT' enclosures, ensuring effective cooling. Servers mounted at the upper levels of a cabinet are particularly prone to overheating due to the combined effects of:

- Upwards heat convection and radiation, from equipment below
- Heat gradient up the vertical height of the computer room
- Undesirable air recirculation, in which hot exhaust air is pulled to the front of the enclosure, re-entering the server with damaging effect.

Hot/Cold Air Aisle Containment, usually of the cold aisle, dramatically lowers the cold air temperature available to the servers by preventing contamination of the cold air by hot/exhaust air. This protects equipment against damage, prolongs equipment life, reduces the load on the computer room air-conditioning and saves energy, reducing your carbon footprint.

#### Aisle Containment Features and Benefits

- Segregated cold aisle air flow from hot aisle air flow.
- Maximises cooling effect of cold aisle.
- Reduces workload of computer room air-conditioning.
- Reduces energy cost.
- Reduces your carbon footprint.
- Active cotainment versions with automated roof panel opening for instances of fire/smoke.
- Totally integrated with cabinet infrastructure and not connected to the building.
- Can be quickly installed.
- Easily relocated.
- CannonGuard remote management upgrades.
- Can be retrofitted to existing bays of enclosures with the use of customising kits.
- Within aisle lighting upgrades.

**Cannon Aisle Containment can be retro-fitted to other manufacturers cabinets if required**



#### Specification

- Fully compatible with Cannon Smart Cab range.
- Modular overhead containment panels, with Quick-Fit mounting pins.
- High transparency polycarbonate glazing in panels.
- Standard aisle widths include 1200mm and 1800mm; alternative aisle widths available.
- Containment panels to match cabinet widths (600mm, 700mm and 800mm).
- Alternative containment panel widths available.
- Self-closing sliding end aisle doors.
- Half glazed end doors for increased damage resistance.
- Remote temperature monitoring of various aisle points using CannonGuard (optional upgrade).
- Active containment panels opened by electronic actuators for gas/fog/sprinkler water ingress in the event of fire/smoke.
- Will fit any cabinet size.
- Can be extended to form a complete Cannon Data Centre POD for disaster recovery development or temporary use.

**For further details on Aisle Containment please contact the Cannon Sales Team.**

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



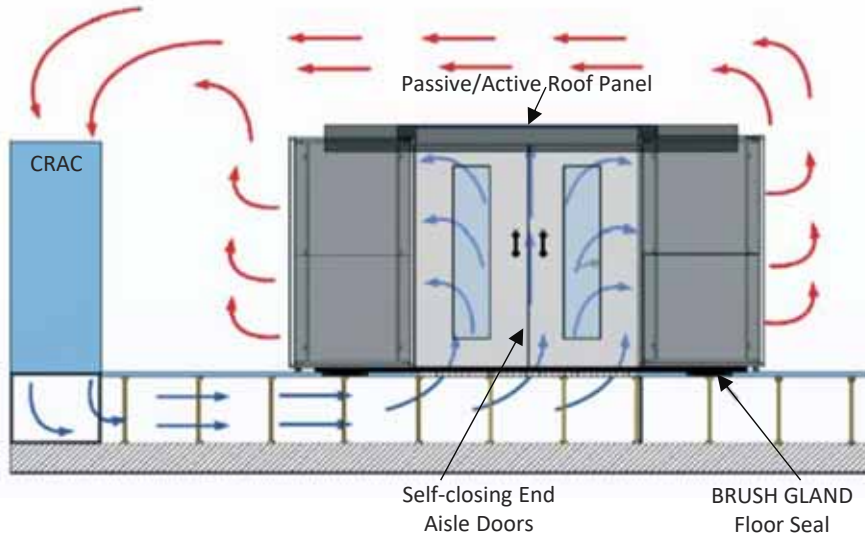
**HOW DOES IT WORK?**

The completed Cannon Hot/Cold Aisle Containment system is well-designed & technically superior, as all significant air pathways from the hot aisle to the cold aisle are blocked. The Cannon Hot/Cold Aisle Containment solution provides an arrangement of overhead aisle panels and end aisle doors to effectively seal and contain hot/cold air paths. This ensures that the cold air emitted from the floor is sealed in a cocoon and is therefore unaffected by hot exhaust air. The cooling air can only exit through the equipment for which it is intended.

All Aisle Containment components such as overhead panels and aisle end doors are fixed to the cabinet bay structure alone and not connected to the room structure.

The whole infrastructure is:

- Modular
- Quick-Fit
- Effective
- Relocatable
- Inexpensive



**The Cannon Aisle Containment solution is available in two versions: Passive or Active**

**PASSIVE AISLE ROOF PANEL**

In the passive version, the overhead panels which cocoon the aisle are mounted with Quick-Fit spring pins which fix the panel to the edge beam on the cabinet top cover.

These modular panels can be fixed in position or manually demounted in seconds.

**ACTIVE AISLE ROOF PANEL**

In the active version, the panels are electrically controlled by BMS (Building Management System) Control Panel and will automatically and instantly open in the case of fire/smoke, to allow gas suppressant or water from an overhead sprinkler system to pass through to the aisle. Remote control and monitoring is also available with this version.

In all other respects, the two versions are identical.



**For further details on Aisle Containment please contact the Cannon Sales Team.**

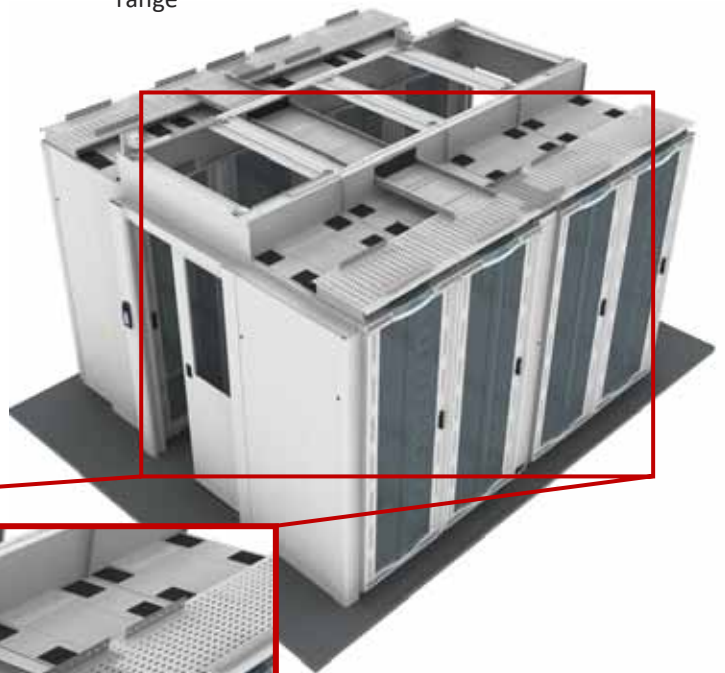
Size conversions: 1U = 44.45mm = 1 3/4"    600mm = 24"    700mm = 28"    800mm = 32"    1kg = 2.2lbs

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**FEATURES**

- A fully integrated infrastructure, end-to-end compliant Overhead, modular panels of Quick-Fit design to cocoon and contain the aisle (Cold or Hot aisle).
- Ideally, panel widths match the sizes of supporting cabinets (these can be of mixture widths) i.e. 600mm, 700mm or 800mm wide cabinets/panels.
- The roof panels can be mounted to non-matching cabinet widths, if required, by installing an adjustable edge beam (CANNON customising kit – available on request).
- In case of a fire/smoke activation, the CANNON Active roof system provides automatic panel opening (Via customer BMS link), to allow gas suppressant or water from sprinkler system to enter aisle (avoids the need to modify and extend room sprinklers).
- Roof Panel options: transparent or opaque polycarbonate.
- Panel mounting height options to suit room constraints and headroom requirements.
- Optional containment panel spans, to suit aisle widths
- Within-aisle lighting upgrades to supplement or replace room lighting.
- Sliding Aisle end doors of various widths, single or pairs.
- End Aisle sliding door(s) “auto close” when not manually held open, to rapidly preserve cotainment.
- *Auto Opening End Aisle Door option available on request.*

- Cannon Hot/Cold Aisle Containment is compatible with:
  - All Cannon enclosures.
  - With Cannon overhead cable raceway.
- Adaptor kits can be provided where non-Cannon enclosures are required within CANNON Hot/Cold aisle containment PODS.
- CannonGuard upgrades to enable temperature remote monitoring/mapping of aisles (hot and cold). Cannon Monitoring can provide alarm outputs to CANNON DCM or 3<sup>rd</sup> Party Systems
- CANNON provide design and installation retrofit service for any installed cabinet range



CANNON Hot/Cold Aisle Containment can also allow for overhead cable raceway/bridges.

**For further details on Aisle Containment please contact the Cannon SalesTeam.**

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

### SELF CLOSING SLIDING DOOR: NON-LOCKING

#### Features & Benefits

- Non-intrusive sliding action.
- Solid construction and design with wide opening capacity.
- Filler panel options for obstructions, 3<sup>rd</sup> party racks etc.
- Self-closing/opening options.
- Electronic/RFID/BIOMETRIC lock upgrade options.
- Security upgrades for local and remote control & monitoring.
- See through viewing panel with solid lower area anti-kick panels.

#### Specification

- A single flat sliding door with top hung hanger rail system.
- Half glazed self closing, manual slide to open door.
- Viewing window 4mm clear toughened glass.
- Standard aisle width 1000/1200/1300/1400mm, alternative aisle widths available on request.
- Right hand or left hand opening options.
- 47U high door (independent of Rack height).
- Electronic Key-pad, Biometric and RFID upgrades available.

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

**Additional colours available on request.**



Optional:  
CA202 door  
holder



#### Locking Upgrades Include:

- Electronic Key-pad
- Biometric scanner (fingerprint or retinal scan) and Key-pad
- Radio-Frequency Identification (RFID) and Key-pad

42U 1200mm AISLE DOOR – 1000D CAB	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD421210SCNLRH
A SELF CLOSING, NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD421210SCNLLH

46U 1200mm AISLE DOOR - 1200D CAB	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD461212SCNLRH
A SELF CLOSING, NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD461212SCNLLH

47U 1200mm AISLE DOOR - 1000D CAB	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471210SCNLRH
A SELF CLOSING, NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD471210SCNLLH

47U 1200mm AISLE DOOR -1200D CAB	
DESCRIPTION	PART CODE
<b>SELF CLOSING</b> , NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471212SCNLRH
<b>SELF CLOSING</b> , NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD471212SCNLLH

47U 1300mm AISLE DOOR -1000 CAB	
DESCRIPTION	PART CODE
<b>SELF CLOSING</b> , NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471310CNLRH
<b>SELF CLOSING</b> , NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD471310SCNLLH

42U 1000mm AISLE DOOR -1000D CAB	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD421008SCNLRH
A SELF CLOSING, NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD421008SCNLLH

47U 800mm AISLE DOOR -1000D CAB	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471006SCNLRH
A SELF CLOSING, NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD471006SCNLLH

47U 1000mm AISLE DOOR - 800D CAB	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD47100808SCNLRH
A SELF CLOSING, NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD47100808SCNLLH

47U 1000mm AISLE DOOR -1000D CAB	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471008SCNLRH
A SELF CLOSING, NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD471008SCNLLH

47U 1400mm AISLE DOOR – 1000D CAB	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD47141010SCNLRH
A SELF CLOSING, NON-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD47141010SCNLLH

**For further details on Aisle Containment please contact the Cannon Sales Team.**

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

**SELF CLOSING MESH SLIDING DOOR:**

**NON-LOCKING**

*Provides security of Aisle whilst maintaining Computer Room Air Conditioning (CRAC) Down Flow Front Displacement into the Aisle*

**Features & Benefits**

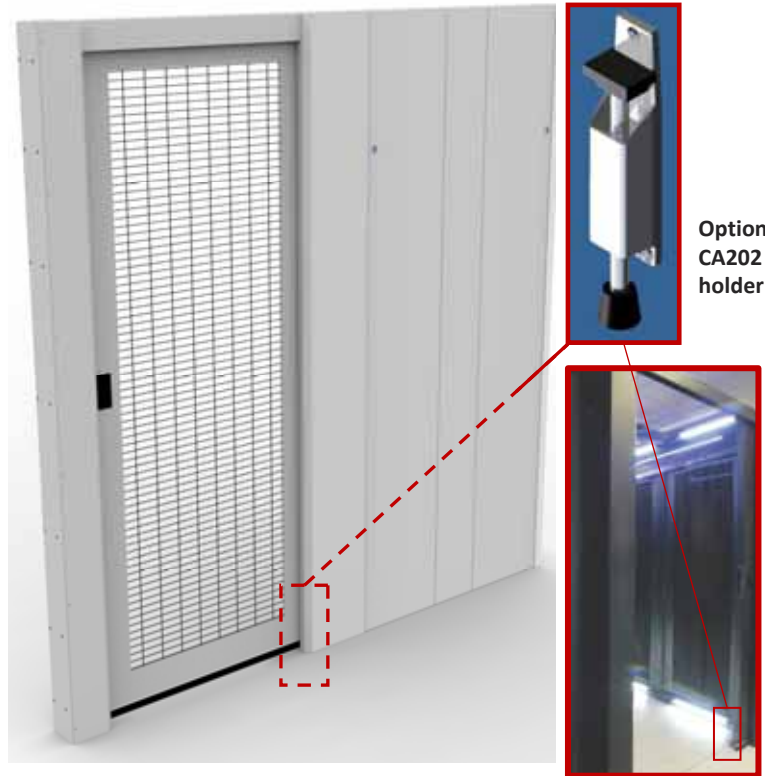
- Non-intrusive sliding action.
- Steel frame and mesh panel construction and design for maximum air-flow & security.
- Wide opening capacity.
- Filler panel options for obstructions, 3<sup>rd</sup> party racks etc.
- Self-closing/opening options.
- Electronic/RFID/BIOMETRIC lock options.
- Security upgrades for local and remote control & monitoring.

**Specification**

- A single flat mesh sliding door with top hung hanger rail system.
- Manual slide to open door.
- Standard aisle width 1200mm - alternative aisle widths available.
- 1000mm door aperture with 880mm maximum door opening.
- Right hand or left hand opening option.
- 47U high door (independent of Rack height).
- **Non-Locking.**
- Electronic Key-pad, Biometric and RFID upgrades available.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



**Locking Upgrades Include:**

- Electronic Key-pad
- Biometric scanner (fingerprint or retinal scan) and Key-pad
- Radio-Frequency Identification (RFID) and Key-pad

47U 1200mm AISLE DOOR	
DESCRIPTION	PART CODE
A SELF CLOSING, NON-LOCKING <b>MESH</b> SLIDING DOOR, RIGHT HAND OPENING	COLD471208SCNLMRH
A SELF CLOSING, NON-LOCKING <b>MESH</b> SLIDING DOOR, LEFT HAND OPENING	COLD471208SCNLMLH
<b>PLEASE CONTACT CANNON FOR FURTHER SIZES.</b>	

**For further details on Aisle Containment please contact the Cannon SalesTeam.**

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



### BLANK END PANEL

Hot/Cold Aisle Containment that only require one door can have a Blank End Panel or Blank Window Panel instead of a second door at the opposite end of the aisle.

- Saves on the cost of an aisle compared to the door option.
- 42U, 45U or 47U high blank end panel.
- Standard aisle width 1000, 1200mm, 1300mm & 1400mm - alternative aisle widths available on request.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



**BLANK END PANEL**

**WINDOW END PANEL**

END PANEL SIZE	BLANK	WINDOW
<b>1000mm WIDE</b>	PART CODE	PART CODE
<b>42U 1000mm WIDE</b>	BEP4210	BEPVW4210
<b>45U 1000mm WIDE</b>	BEP4510	BEPVW4510
<b>47U 1000mm WIDE</b>	BEP4710	BEPVW4710
<b>1200mm WIDE</b>	PART CODE	PART CODE
<b>42U 1200mm WIDE</b>	BEP4212	BEPVW4212
<b>45U 1200mm WIDE</b>	BEP4512	BEPVW4512
<b>47U 1200mm WIDE</b>	BEP4712	BEPVW4712
<b>1300mm WIDE</b>	PART CODE	PART CODE
<b>42U 1300mm WIDE</b>	BEP4213	BEPVW4213
<b>45U 1300mm WIDE</b>	BEP4513	BEPVW4513
<b>47U 1300mm WIDE</b>	BEP4713	BEPVW4713
<b>1400mm WIDE</b>	PART CODE	PART CODE
<b>42U 1400mm WIDE</b>	BEP4214	BEPVW4214
<b>45U 1400mm WIDE</b>	BEP4514	BEPVW4514
<b>47U 1400mm WIDE</b>	BEP4714	BEPVW4714

**For further details on Aisle Containment please contact the Cannon Sales Team.**

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

### SELF CLOSING SLIDING DOOR: ELECTRO-MAGNETIC LOCKING WITH SECURE KEYPAD ENTRY

#### Features & Benefits

- Non-intrusive sliding action
- Solid construction and design for maximum security.
- Wide opening capacity.
- Filler panel options for obstructions, 3<sup>rd</sup> party racks etc.
- Self-Closing/Self-Opening options.
- Electronic lock:
  - The electronic lock provides increased security against unwanted access, keeping mission critical systems protected.
  - All access events into the protected aisle can be controlled from the NOC or by local door controller via electronic key pads, RFID or biometric device.
  - Entry events can be recorded through BMS/DCM, whether failed or successful.
- See through viewing panel with solid lower area anti-kick panels.

#### Specification

- A single sliding door with top hung hanger rail system.
- Half glazed self closing, manual slide to open door.
- Viewing window 4mm clear toughened glass.
- Standard aisle width 1000/1200mm - alternative aisle widths available on request.
- Right hand or left hand opening options.
- **Electro-Magnetic Locking with Secure Keypad Entry as standard.**
- Biometric and RFID upgrades available on request.



Optional: CA202 door holder



**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

47U 1000mm AISLE DOOR	
DESCRIPTION	PART CODE
<b>SELF CLOSING</b> , ELECTRONIC-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471008SCELRH
<b>SELF CLOSING</b> , ELECTRONIC-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD471008SCCELLH

42U 1000mm AISLE DOOR	
DESCRIPTION	PART CODE
<b>SELF OPENING</b> , ELECTRONIC-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD421008SOELRH
<b>SELF OPENING</b> , ELECTRONIC-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD421008SOELLH

47U 1200mm AISLE DOOR - 1000D CAB	
DESCRIPTION	PART CODE
<b>SELF CLOSING</b> , ELECTRONIC-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471210SCELRH
<b>SELF CLOSING</b> , ELECTRONIC-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD471210SCCELLH

42U 1200mm AISLE DOOR	
DESCRIPTION	PART CODE
<b>SELF OPENING</b> , ELECTRONIC-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD421210SOELRH
<b>SELF OPENING</b> , ELECTRONIC-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD421210SOELLH

47U 1200mm AISLE DOOR -1200D CAB	
DESCRIPTION	PART CODE
<b>SELF CLOSING</b> , ELECTRONIC-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471212SCELRH
<b>SELF CLOSING</b> , ELECTRONIC-LOCKING SLIDING DOOR, LEFT HAND OPENING	COLD471212SCCELLH

**For further details on Aisle Containment please contact the Cannon Sales Team.**

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

### SLIDING DOUBLE DOORS

Double Sliding Doors provide an exceptional solution for standard 1800mm and extra wide aisles i.e. when an infill panel combined with a single sliding door is not acceptable.

Double Sliding Doors operate with the same range of virtues as Single Sliding Doors.

Cannon Double Sliding Doors can be opened singularly with only one hand for quick personal access. Both doors can be opened wide to allow carts etc. to pass through. They automatically close with the same smooth two speed action as the single doors and can be upgraded to electronic locking if required.



47U 1800mm AISLE DOUBLE DOOR – 1200 CAB	
DESCRIPTION	PART CODE
<b>SELF CLOSING</b> , NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD471812SCNLDD
<b>SELF CLOSING</b> , <b>ELECTRONIC-LOCKING</b> SLIDING DOOR, LEFT HAND OPENING	COLD471888SCELDD

47U 2000mm AISLE DOUBLE DOOR	
DESCRIPTION	PART CODE
<b>SELF CLOSING</b> , NON-LOCKING SLIDING DOOR, RIGHT HAND OPENING	COLD472010SCNLDD
<b>SELF CLOSING</b> , <b>ELECTRONIC-LOCKING</b> SLIDING DOOR, LEFT HAND OPENING	COLD472010SCELDD

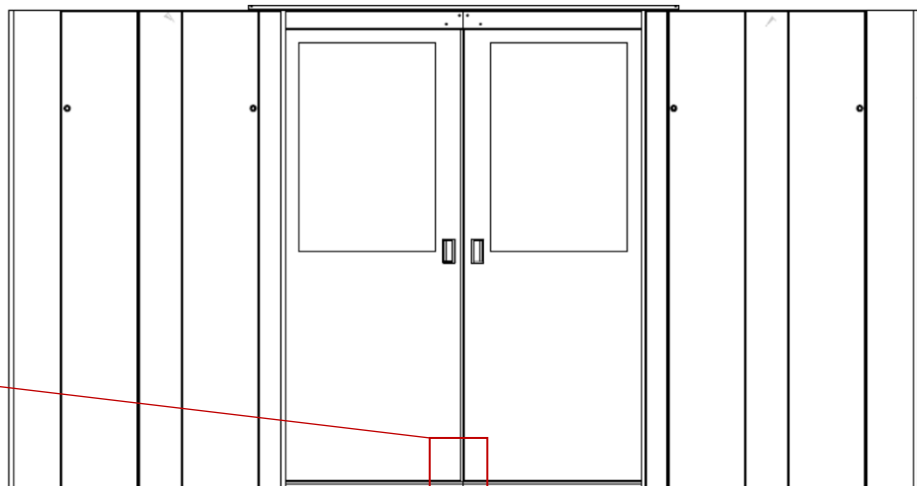


**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



Optional:  
CA202 door  
holder (2 per  
double door kit)



**For further details on Aisle Containment please contact the Cannon Sales Team.**

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

**HIGH SECURITY KEYPAD AND ELECTRO-MAGNETIC LOCK**

**Features**

- Push button exit from Aisle
- A five second unlock time before auto-relock
- Failsafe mode and if power fails the door can be opened but rests in the closed position
- Four digit entry codes
- Up to 64 different entry pin codes of between 4 & 8 digits (remote option)
- Local or remote alarms for door status
- Aisle temperature display on keypad
- Cannon Data Centre Manager for full remote control and monitoring option including entry code changes or remote activation of lock



**Locking Upgrades Include:**

- Biometric scanner (fingerprint or retinal scan) and Key-pad
- Radio-Frequency Identification (RFID) and Key-pad



DESCRIPTION	PART CODE
Interface upgrade to Electronic Locking Aisle Door shown on 9.7 & 9.8 when using PAXTON RFID P75 Reader and NET2 Controller (Reader and Controller not supplied). Includes "push to Exit" internal aisle push button with 20 second delay, Cannon Magnetic Lock. Management provided by PAXTON NET2 Platform (not supplied).	405E-ELOC-CA-RFID-PAX
Interface upgrade to Electronic Locking Aisle Door shown on 9.7 & 9.8 which provides the additional of a CANNON BIO 1 finger print BIOMETRIC reader, Includes "push to Exit" internal aisle push button with 20 second delay, Cannon Magnetic Lock. Management provided by Cannon DCM Platform (Sold separately).	405E-ELOC-CA-BIO
Interface upgrade to Electronic Locking Aisle Door shown on 9.7 & 9.8 which provides the additional of a CANNON BIO 2 – PIN, RFID, face & finger print BIOMETRIC reader, Includes "push to Exit" internal aisle push button with 20 second delay, Cannon Magnetic Lock. Management provided by Cannon DCM Platform (Sold separately) – 2000 user templates, IP interface built in.	405E-ELOC-CA-BIO-MULTI

**For further details on Aisle Containment please contact the Cannon Sales Team.**

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



### PASSIVE AISLE ROOF

In the passive version, the overhead panels enclose the aisle and are mounted with Quick-Fit spring pins for Quick removal. Passive panels are fixed to the edge beam which is located on top of the cabinet roof area.

These modular panels can be fixed in position and manually demounted in seconds.

#### Specification

- Compatible with the CANNON Smart Cab range. Modular overhead containment panels, with Quick-Fit mounting pins.
- High transparency polycarbonate glazed panels.
- Optional Opaque polycarbonate glazed panels.
- If possible, panel dimensions match the widths of supporting cabinets (these can be of mixed width if required) i.e. standard 600mm, 700mm or 800mm wide cabinets and panels.
- Passive panels can be mounted to 3<sup>rd</sup> party and non-matching cabinet widths, by installing an optional adjustable edge beam (customised kits available on request).
- Panel mounting height options to suit room constraints and headroom obstructions i.e. lighting
- Standard aisle width 1200/1800mm; Additional sizes on request.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*



PASSIVE ROOF PANEL 1200mm AISLE	PART CODE
600mm WIDE PASSIVE ROOF PANEL	PAS6012
700mm WIDE PASSIVE ROOF PANEL	PAS7012
800mm WIDE PASSIVE ROOF PANEL	PAS8012
1000mm WIDE PASSIVE ROOF PANEL	PAS9912

PASSIVE ROOF PANEL 1800mm AISLE	PART CODE
600mm WIDE PASSIVE ROOF PANEL	PAS6018
700mm WIDE PASSIVE ROOF PANEL	PAS7018
800mm WIDE PASSIVE ROOF PANEL	PAS8018
1000mm WIDE PASSIVE ROOF PANEL	PAS9918



**Fixed overhead Aisle Panel and fixed Edge Beam**  
(Image above shows optional Raceway Entry point)

**For further details on Aisle Containment please contact the Cannon Sales Team.**

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

### ACTIVE AISLE ROOF PANEL

In the active version, the panels are electrically controlled by the BMS\* control panel and will automatically and instantly open in the case of fire/smoke, to allow gas suppressant or water from an overhead sprinkler system to pass through to the aisle.

#### Specification

- In case of a fire/smoke activation, the CANNON Active roof system provides automatic panel opening (Via customer BMS link), to allow gas suppressant or water from sprinkler system to enter aisle (avoids the need to modify and extend room sprinklers).
- Compatible with the CANNON Smart Cab range.
- Modular overhead panels, with Quick-Fit mounting pins.
- High transparency polycarbonate glazed panels.
- Optional Opaque polycarbonate glazed panels.
- Ideally panel widths match the widths of supporting cabinets providing matched modules (these can be of mixed width if required) i.e. 600mm, 700mm or 800mm wide cabinets and panels
- If possible, panel dimensions match the widths of supporting cabinets (these can be of mixed width if required) i.e. standard 600mm, 700mm or 800mm wide cabinets and panels.
- Passive panels can be mounted to 3<sup>rd</sup> party and non-matching cabinet widths, by installing an optional adjustable edge beam (customised kits available on request).
- Panel mounting height options to suit room constraints and headroom obstructions i.e. lighting
- Standard aisle width 1200/1800mm; Additional sizes on request.

**Finish Standard:** Powder painted Black RAL9005 or Grey White RAL9002.

*Additional colours available on request.*

ACTIVE ROOF PANEL 1200mm AISLE	PART CODE
600mm WIDE ACTIVE ROOF PANEL	ACT6012**
700mm WIDE ACTIVE ROOF PANEL	ACT7012**
800mm WIDE ACTIVE ROOF PANEL	ACT8012

ACTIVE ROOF PANEL 1800mm AISLE	PART CODE
600mm WIDE ACTIVE ROOF PANEL	ACT6018**
700mm WIDE ACTIVE ROOF PANEL	ACT7018**
800mm WIDE ACTIVE ROOF PANEL	ACT8018**

DESCRIPTION	PART CODE
6 x ACTIVE ROOF PANEL ACTIVATION SYSTEM, PSU, CABLING ETC. KIT**	KP5004
12 x ACTIVE ROOF PANEL ACTIVATION SYSTEM, PSU, CABLING ETC. KIT**	KP5004-12
15 x ACTIVE ROOF PANEL ACTIVATION SYSTEM, PSU, CABLING ETC. KIT**	KP5004-15



- When a fire alarm is raised/activated the CANNON Active Roof Panels are able to rotate about their centre point to allow external Fire Suppressant Systems to extinguish a fire in the aisle or cabinets.
- Activation devices may be smoke and fire detectors or call points.
- Actuators are magnetic holding solenoids as per standard fire doors.
- System will normally be “power-on” to hold panels shut and automatically “open-on” fire/smoke or power-loss (equivalent to a retained fire door within a corridor).
- Voltages - normally 24VDC SLEV

**Cannon pre-wire the active roof system temporarily to prove its operation and to allow access to the area above the aisle and cabinets.**

**Any fixed wiring, PSU, alarm, actuator or detection installation may have to comply with the BS/EN requirements of an insurer or specified use of the space in the country of use.**

**Cannon recommends a certified fire installations company be employed to interface these systems with a customer’s fixed fire/BMS installation and ensure compliance with relevant legislation.**

\*BMS = BUILDING MANAGEMENT SYSTEM

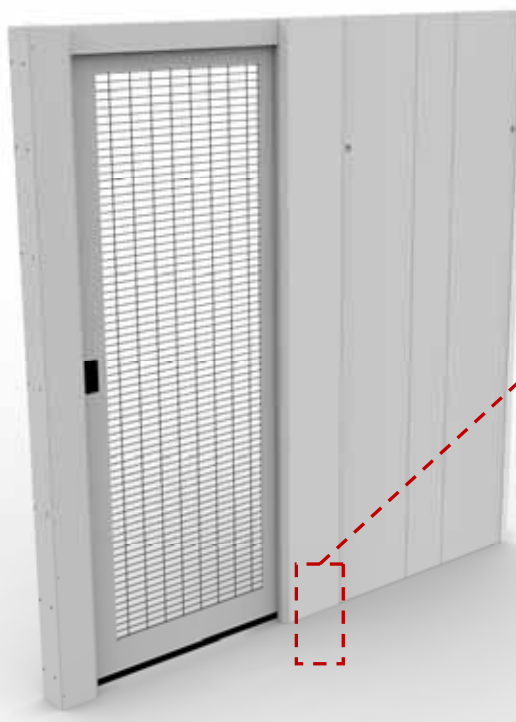
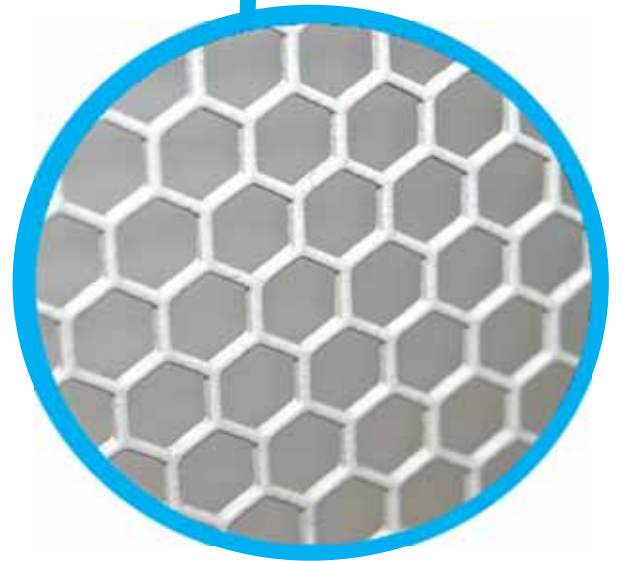
\*\* KP5004-xx (xx=1/12/15 etc) KIT REQUIRED FOR ACTIVATION FOR ACTIVE ROOF. CONTACT CANNON TO CONFIRM NUMBER OF ACTIVE ROOFS REQUIRED AND NUMBER OF ACTIVATION KITS.

**For further details on Aisle Containment please contact the Cannon Sales Team.**

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

**AISLE CAGE**

- For use when door(s) are not installed on 19" rack cabinets in a COLO/Shared facility.
- Secure any individual or row of 19" cabinets against unauthorised entry, with high security mesh doors at aisle ends and overhead mesh panels to allow through flow of air.
- Avoid the wasteful, space consuming negatives of old fashioned security cages.
- Preserve maximum floor space for valuable data processing capacity.
- Maximise density and return on capital employed
- Add "Cannon Guard" for positive, controlled security and access control
- Combine electronic key pad entry with biometrics, interactive video surveillance and remote control
- Maintain a full audit trail of all access activity.
- Maintain high efficiency cooling and avoid the cooling inefficiencies interposed by out-dated cages.
- Combine cold aisle containment with "Aisle Cage" mesh for the hot aisle, to achieve high efficiency cooling and all round security.
- Aisle Cage can add 30%- 50% more capacity to your data hall when compared to outmoded security cages.
- Security can actually be enhanced with Cannon Aisle Cage and CannonGuard Access Control.



Optional:  
CA202 door  
holder

**SELF CLOSING MESH  
SLIDING DOOR:**

*Provides security of Aisle whilst maintaining Computer Room Air Conditioning (CRAC) Down Flow Front Displacement into the Aisle*

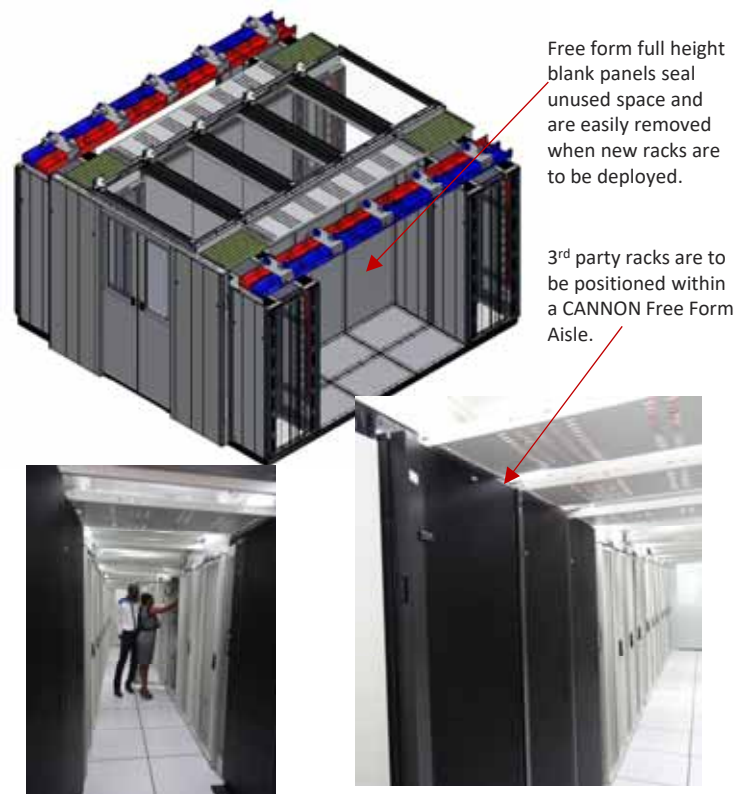
**For further details on Aisle Containment please contact the Cannon SalesTeam.**

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



### FREE FORM AISLE CONTAINMENT

- Enables an installed Rack to be removed from a row of Racks, quickly and easily, within a few minutes.
- 3<sup>rd</sup> Party Racks or OEM equipment Racks can also be installed or removed from the row, allowing extreme versatility. CANNON Aisle Containment features and benefits continue to be maintained.
- There is no disturbance to the Aisle Containment infrastructure as it remains in place and operational.
- All rack mounted cable raceway also remains undisturbed and replacement Racks can be introduced into the row with similar ease.
- Achieves cost effective airflow and cabling containment in one cohesive system.



### Complete Free Form Aisle Design Principles

- End to end edge beam:**  
The edge beam which supports the overhead Containment panels above the Aisle is a full “end to end” beam, not individually dedicated to any one Rack. It is substantially fixed at each end to the Aisle end frame and Aisle end rack.

- Moveable, intermediate support jacks:**  
To adjust the edge beam, taking out any slight downward deflection, simple small support jacks can be positioned anywhere along the edge beam.

Small support jacks can be positioned wherever a convenient surface exists, on a rack roof, easily fitting in clear space between glands, vents etc.

- Jack removal/replacement**  
Intermediate support jacks can be quickly disengaged to allow removal of the required Racks.

The stiff edge beam design enables the support beam to span vacant Rack-pockets. Full height panels provisionally close off vacant Rack pockets until Racks are introduced.

- Spanning, rack mounted cable raceway**  
The Cannon cable raceway is designed to span vacant Rack-pockets and ensure continued cabling when vacant rack space is blanked off.

- Vertical closure panels**  
Adjustable closure panel(s) cover and seal the small vertical space between the edge beam and the installed Rack roof.

- Extended vertical closure panels**  
Where an installation is fed with down flow cold air from the ceiling, vertical closure panels can be of a type which extend upwards to meet and seal the ceiling. This option provided separation of the Cold Aisle & Hot Aisle air flow.

- All Cannon Aisle Containment features are retained**  
All of the usual Active or Passive Aisle Containment features are maintained with the Cannon Free Form Aisle system.

- Aisle upgrade of old installations**  
Where old Rack installations exist, even with mixed Rack types and sizes the Cannon Free Form Aisle Containment system provides a cost effective retrofit Aisle Containment solution.

- It is good practice for a “Complete Free Form Aisle” to restrict any open span in the row to three rack widths e.g. 3 x 800mm cabinets = 2400mm (7-11”) or four rack widths e.g. 4 x 600mm cabinets = 2400mm (7-11”) – With “Basic Free Form Aisles” we recommend an open span of no more than 1600mm with each end of aisles including a minimum of 1 cabinet per aisle.

BLANK PANEL SIZE (Equivalent CANNON cabinet height)	600 WIDE	700 WIDE	800 WIDE
	PART CODE		PART CODE
42U Direct to Floor	BIWP4260CFF	BIWP4270CFF	BIWP4280CFF
42U Castor to Floor	BIWP4260COC	BIWP4270COC	BIWP4280COC
45U Direct to Floor	BIWP4560CFF	BIWP4570CFF	BIWP4580CFF
45U Castor to Floor	BIWP4560COC	BIWP4570COC	BIWP4580COC
47U Direct to Floor	BIWP4760CFF	BIWP4770CFF	BIWP4780CFF
47U Castor to Floor	BIWP4760COC	BIWP4770COC	BIWP4780COC

For further details on Aisle Containment please contact the Cannon Sales Team.

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

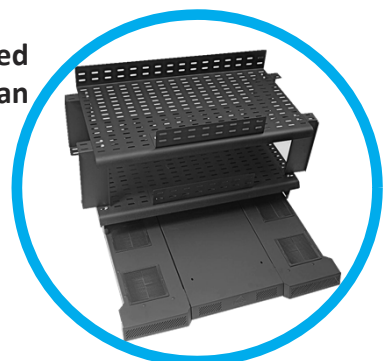


**HOT AIR CONTAINMENT CHIMNEY**

- Hot exhaust air can be contained and kept separate from room inlet air through the use of a CANNON vertical chimney.
- Exhaust air from one rack cabinet or a row can be efficiently directed to the room ceiling plenum/CRAC or external environment, without affecting aisle temperature.
- The CANNON Passive Containment Chimney enables the "IT" equipment fans to provide air pressure/movement through the chimney.
- To increase air pressure (positive or negative)/flow, The Active CANNON Containment Chimney includes fan units to provide forced air flow.
- CANNON temperature speed controlled fan trays are also available for Smart Energy Efficient Air Management.
- CANNON Containment Chimneys include adjustable telescopic designs for flexibility when installing into indeterminate installation heights or single piece construction for known ceiling heights.



Cannon rack mounted Cable Raceway can be combined with Containment Chimney installations.



For further details on Aisle Containment please contact the Cannon SalesTeam.

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

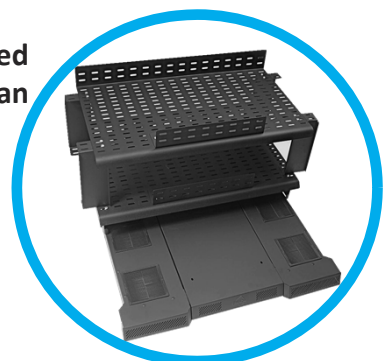
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**VERTICAL AISLE CONTAINMENT**

- For efficient down-flow air cooling or up-flow exhaust hot air extraction.
- Provides segregation of cold and hot air flow
- Maximises cooling efficiency in vertical airflow configurations.
- Compatible with CANNON Cable Raceway.
- Achieves cost effective cabling containment and air flow containment in one integrated system.
- Variable height containment panels/chimneys to accommodate various room heights



Cannon rack mounted Cable Raceway can be combined with Containment Chimney installations.



**For further details on Aisle Containment please contact the Cannon SalesTeam.**

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

### AISLE LIGHTING

**LED Strip Light (White) Kit comprising the following:**

- Average Bulb Life: 50000h
- CCT: 5000K
- Current Rating: 500mA
- LED Colour: White Power
- Rating: 6VA
- Supply Voltage: 110/230VAC - 12V output
- External Depth: 16mm
- External Length/Height: 520mm
- External Width: 16mm
- Illumination Colour: Pure White
- Light Source: 56 x LED
- Optional PIR Occupancy Sensor

**2M LED Flexible Strip Light (Blue) Comprising of the following:**

- Flexible LED strips
- Length: 2m
- Available with white or blue LEDs
- Self adhesive backing
- Easy to install
- Supply Voltage: 12V
- 72D high powered LEDs per strip
- 50k hour life



AISLE LIGHTING KITS	PART CODE
5 LED STRIP LIGHTS (WHITE) KIT WITH 230VAC PSU	405E-LIGHTKIT-CA-5
8 LED STRIP LIGHTS (WHITE) KIT WITH 230VAC PSU	405E-LIGHTKIT-CA
9 LED STRIP LIGHTS (WHITE) KIT WITH 230VAC PSU	405E-LIGHTKIT-CA-9
10 LED STRIP LIGHTS (WHITE) KIT WITH 230VAC PSU	405E-LIGHTKIT-CA-10
10 LED STRIP LIGHTS (WHITE) KIT WITH 230VAC PSU & PIR SENSOR	405E-LIGHTKIT-PIR-10
10 LED STRIP LIGHTS (WHITE) KIT WITH 110VAC PSU	405E-LIGHTKIT-CA-10S
PIR SENSOR FOR ABOVE	405E-LIGHT-SEN-12DC
2M LED FLEXIBLE STRIP LIGHT (BLUE)	CA224
CABINET LED LIGHT STRIP WITH DOOR SWITCH	405E-LIGHTKIT-01

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

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### CCTV SYSTEM

- A high performance CCTV system managed via the optional CannonGuard rack management Data Centre Manager.
- Can be integrated with the CannonGuard Electronic Locking system to provide a high security solution with access event audits.
- Overt and Covert camera's combine to cover a large visual range within your facility.
- Cost-effective security for use in co-hosted or enterprise data centres as well as larger corporates
- In/on rack covert camera system that records every access as well as provide live audio/video feeds
- Full and easy to access audit trail linking events with video and instant playback
- Alerts by; SNMP, Email, Cannon Data Centre Manager.
- Tiny, Covert analogue cameras can be fitted inside cabinets and aisles to provide viewpoints tailored to your requirements.
- A Digital Video Recording (DVR) system runs 24/7
- Still pictures/video clips are triggered from access events within the aisle or cabinet and stills can be sent via Email
- Live video can be viewed at any time over your network or the internet connection.
- Available with 4 or 8 cameras per DVR with 1 to 4 TB HDD providing weeks of recording.
- 2 Way Audio option with remote control interface.
- Quick deployment on site, plug and play.



HD versions use Highline Displays to trigger audits and stills on Cabinet access

DESCRIPTION	PART CODE
4 x CAMERA COVERT SYSTEM, 1TB, HIGHLINE DISPLAY VERSION	405E-CAMERA-4-HD
8 x CAMERA COVERT SYSTEM, 1TB, HIGHLINE DISPLAY VERSION	405E-CAMERA-8-HD
<i>The kits above comprise 4 or 8 (as specified above) Camera Covert System, 1TB DVR, complete with cables and connectors, plugs into optional Highline Display or Rack Monitor (405ELIMPITMC) for triggering alarms.</i>	
4 x CAMERA COVERT SYSTEM, 1TB, STANDALONE VERSION	405E-CAMERA-4-SA
8 x CAMERA COVERT SYSTEM, 1TB, STANDALONE VERSION	405E-CAMERA-8-SA
<i>The kits above comprise 4 or 8 (as specified above) stand alone system Camera Covert System, 1TB DVR complete with cables and connectors. This standalone system does <b>not</b> require any other CannonGuard modules such as Highline Display or Rack Monitor to function.</i>	
2 WAY AUDIO OPTION PLUGS INTO DVR	405E-CAMERA-AV



## CANNON COOL: WITHIN ROW COOLING (WIRC) UNITS

Cannon Water & DX Cooling solutions work on the air to water/DX Gas heat exchanger principle:

- Warm air from a cabinet, room or aisle is forced through a heat exchanger fan coil by high efficiency fans.
- The heat exchanger has circulating chilled water/DX Gas at between 7° and 20°C within it's coil, the chilled water is supplied by an external water chiller(s) (supplied separately).
- The heat in the warm air will naturally dissipate into the fins of the WIRC coil as they are colder than the air, by this process the heat is "exchanged" with the cold water/DX Gas circulating within the coil.
- The resulting cold air is carried out of the coil and returned via forced air cooling fans into the cold aisle or cabinet.
- The water/DX Gas that has been warmed by the heat exchanger coil is returned to the main system chiller loop through a flow control valve (optional automatic).
- Performance of the system is dependant on many climatic and environmental conditions including:
  - The Computer room being be sealed from outside heat sources and fresh air minimised within reason.
  - Any open spaces to the sides of the 19-inch racks should be blanked and all wiring taken to the sides of equipment to keep the airways to and from the equipment fans open.
  - The equipment within the the cabinet rack spaces should have it's airflow maximised.
  - All unused rack space should be blanked off.



Cannon computer rack cabinet/aisle water cooling systems are not traditional air conditioners and they do not regulate humidity. When the humidity level is high i.e. within humid atmospheres, the WIRC unit(s) will remove water vapour as condensate. In this instance a condensate drain should be run to a normal gravity drain sump or an optional condensate pump may be fitted as required.

In some situations the room humidity may be too low, and static electricity may cause a hazard to persons and equipment. The climate inside a data centre should meet the standards set by ASHRAE.

Cannon equipment is designed and built to comply with BS EN60950 and the low voltage directive/SELV where appropriate. Any installations must meet local building and electrical supply regulations where applicable.

DESCRIPTION	PART CODE
WITHIN ROW COOLING UNIT (WIRC) 42U X 200W X 1000D 10KW	WIRC42209910KW
WITHIN ROW COOLING UNIT (WIRC) 42U X 200W X 1200D 10KW	WIRC42201210KW
WITHIN ROW COOLING UNIT (WIRC) 42U X 200W X 1000D 25KW	WIRC42209925KW
WITHIN ROW COOLING UNIT (WIRC) 42U X 200W X 1200D 25KW	WIRC42201225KW
WITHIN ROW COOLING UNIT (WIRC) 42U X 200W X 1000D 30KW	WIRC42209930KW
WITHIN ROW COOLING UNIT (WIRC) 42U X 200W X 1200D 30KW	WIRC42201230KW
WITHIN ROW COOLING UNIT (WIRC) 42U X 300W X 1000D 30KW	WIRC42309930KW
WITHIN ROW COOLING UNIT (WIRC) 42U X 300W X 1200D 30KW	WIRC42301230KW
WITHIN ROW <b>DX</b> COOLING UNIT (WIRC) 42U X 200W X 1000D 30KW	WIRCDX42209930KW
WITHIN ROW <b>DX</b> COOLING UNIT (WIRC) 42U X 200W X 1200D 30KW	WIRCDX42201230KW

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

## CANNON WIRC CONTROL MODULE

The integrated monitoring system for Cannon With-in-Row (WIRC) cooling unit.

### Specifications

- Controlling up-to 6 PWM, Low noise, high capacity radial blower fans 3000cfm (5100 m<sup>3</sup>/h) total airflow.
- Varies the speed of the fans and optionally the water flow through the system dependent on heat load, this ensures optimal conditions and maximum cooling efficiency.
- 16 x temperature sensor inputs, 4 each side of the heat exchanger, 4 cooling medium and 4 customer configured all viewable on the WIRC display.
- 1 x humidity sensor input with remote monitoring via Cannon Data Centre Manager and SNMP.
- 4 x dry alarm relay outputs (1A @ 30Vdc).
- Over temperature alarms on cabinet Highline display or via Cannon Data Centre Manager and SNMP.
- Fan & Sensor fail alarms on cabinet or Cannon Data Centre Manager and SNMP.
- Class II SELV Power isolation.

## CANNON VARIABLE COOLING FAN UNIT

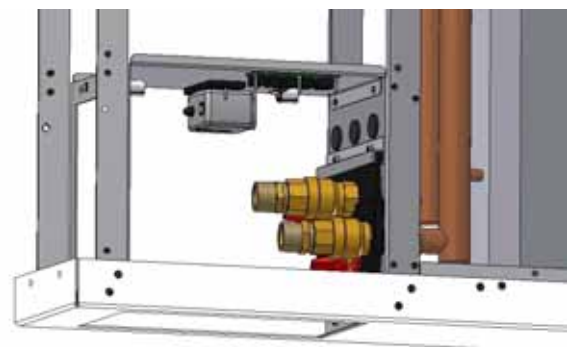
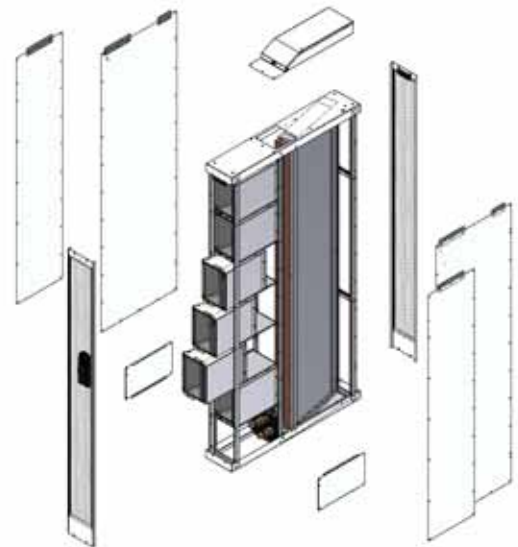
### Specifications

- 6/3 Fans in each WithIn Row Cooling Unit.
- Hot Swappable 48v DC PWM Fan Units.
- Soft Start: The motor is fitted with a soft start feature to prevent current surges being drawn from the power supply.
- Variable Speed: The fan is fitted with a control circuit which varies the speed of the motor dependant upon temperature.
- Over-current & Lock-rotor protection: The motor is designed to self protect in the event of an over-current condition which might cause damage.
- Low Noise Radial blower fan system noise level at normal running conditions are 70db 'A'.

## WATER CONNECTION

### Specifications

- 1-inch full bore shut valve as standard on flow & return
- Customer supply: Return connection 1" BSP manual flow control valve full bore & meter. Flow connection 1" bspm shut valve full bore
- Condensate Pump max flow rate 20 l/h, max discharge head 6m supplied with 3m 11mm O.D. 8mm I.D. PVC tube
- Optional flexible hose 3m st/st braided 1-inch (32mm O.D.) full bore with 1-inch BSP for connection to chilled water supply flow and return.
- Optional: Automatic flow control/by-pass valve & leak detection/shut down.



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



### CANNON REAR DOOR COOLER

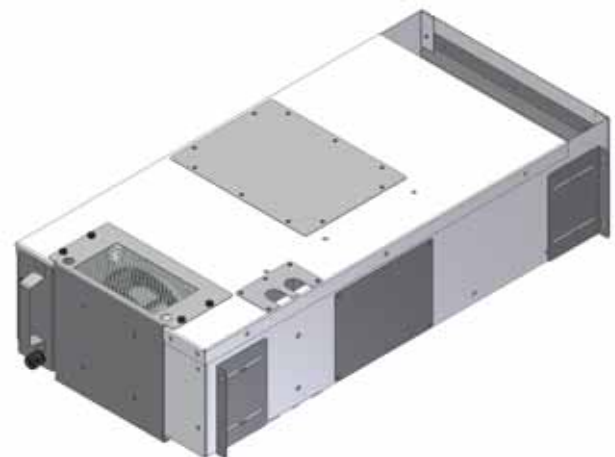
- 10kW, 15kW & 20kW Variants:
  - RD10, RD15 & RD20
- Intelligent, Rear Door Chiller, Heat Exchange Unit
- Energy Efficient Cost Savings.
- Lower CAPEX due to increased compute densities.
- Containment within a 19" rack cabinet therefore no additional aisle containment required.
- Possible to Share Unit between cabinets.
- Excellent PUE figures of 1.05 to 1.09 at Full load
- Intelligent monitoring reduces hot spots within hardware, extending equipment lifespan.
- Could be retrofitted onto existing cabs.

### Overview

- RD20 is installed to the back of an IEC 297-3 and EIA STD 310 compliant cabinet enclosure.
- The unit ensures optimum thermal and energy performance by removing the heat generated by the active equipment, preventing hot exhaust air to enter the data hall.
- Ambient air is drawn into the cabinet by active equipment, the how air produced passes over the heat exchanger unit and speed controlled fans pull air.
- Equipment heat is rejected into the chiller unit coolant and chilled air passed back into the cabinet.

### 5KW IN-RACK COOLING CHILLER UNIT

- The 5KW In-Rack Cooling Unit is mounted within the base of a 1200mm Deep, 19" rack mount cabinet and provides efficient internal cooling of the hot exhaust air produced by active equipment.
- Coolant is fed into the sealed heat exchange unit and intelligent speed controlled fan(s) pressurise the air within the cabinet allowing hot air to pass over the cooling coils and cool air is then forced back into the cabinet.
- Part Code: IRAC05199905KW







### REMOTE MANAGEMENT

- Rack Monitor/Master Controller Module (Network interface Card) is mounted within a Cabinet or Hot/Cold Aisle Containment to monitor the environmental conditions within that Aisle/cabinet and/or adjacent cabinets. A maximum of 24 cabinets to each Master Unit.
- This module has been designed to be used as the gateway to a suite of Cannon modules and provides full remote access to in excess of 100 cabinet door locks, PDU's, temperature sensors etc. **USING JUST ONE IP ADDRESS.**
- The module is designed to be connected to a standard 10/100 base TX Full Ethernet Network Switch by way of a standard Cat5 patch lead.
- Each module is assigned a user configurable static IP address which enables the user to access the installation from anywhere within the world via a standard TCP/IP protocol.
- Using the Cannon Data Centre Manager software allows, along with other actions, the monitoring of any SNMP traps, remote unlocking of doors for engineers to enter. Remote operator can see any out of tolerance conditions and alarms.
- All alarms, actions and events to access any site are for audit purposes event history is recorded in a 1000 file log.
- All of the module types configured within the Aisle/ Cabinet are designed to interface with the Rack Monitor/ Master Controller, which will monitor all of the configured alarm outputs forwarding them to a remote monitoring station via SNMP.

- 10/100 to CannonGuard RS485 'modbus' allows up to 240 sub modules to communicate over the CG network using one IP address.
- Magnetic or screw mounting, Zero U



DESCRIPTION	PART CODE	COMMENTS
CANNON GUARD/DCM MASTER CONTROLLER FOR CABINET NETWORK INTERFACE	405ELIMPITMC	Zero U Network Interface Card, 10/100 to Cannon Guard RS485, Allows up to 240 sub modules to communicate over the CG network using 1 IP address, 24 fully configured Cannon Guard cabinets (slaves) may be managed using only one Network module, Magnetic or screw mounting.
V1 (2010) CANNONGUARD FIELD TEST NETWORK CONTROLLER WITH CARRY CASE HOUSING INCLUDES 230VAC PSU, X-OVER PATCHING LEAD 2-OFF	405EFIELDKIT-CV1*	FIELD TEST UNIT ALLOW CONNECTION TO CANNON V1 (2010) CHILLER BOARDS VIA A <b>Network Interface Card, 10/100 to Cannon Guard RS485</b> . ALLOWS INTEGREGATION AND PROFILING OF CANNON INSTALLED DEVICES INCLUDING FANS, HEATER, TEMP SENSORS, DOOR CONTACTS ETC. COMPLETE WITH CANNONVIEW 69> SOFTWARE EA5100
DCM (2017 ONWARDS) FIELD TEST NETWORK CONTROLLER WITH IP RATED CARRY CASE HOUSING INCLUDES 230VAC PSU, 3M PATCHING LEAD 2-OFF	405EFIELDKIT-DCM**	FIELD TEST UNIT ALLOW CONNECTION TO CANNON LATEST CHILLER BOARDS VIA A <b>Network Interface Card, 10/100 to Cannon Guard RS485</b> . ALLOWS INTEGREGATION AND PROFILING OF CANNON INSTALLED DEVICES INCLUDING FANS, HEATER, TEMP SENSORS, DOOR CONTACTS ETC. COMPLETE WITH CANNONVIEW SOFTWARE EA5100-WEB
CANNONVIEW OPERATION MANUAL	DC0500	
V1 (2010) CANNONGUARD FIELD TEST POTENTIOMETER FOR FAN SPEED TESTING WITH*	405E-POT-TEST-CV*	POTENTIOMETER FOR FIELD TEST UNIT 405EFIELDKIT-CV1, ALLOWS CONTROL OF FAN SPEEDS TO COMPLETE SITE ALARM TESTS, FAN OPERATION AND FAULT FINDING, COMPLETE WITH AMP MTA 0.1" 2 POLE CONNECTION LEADS, ADJUSTABLE KNOB HOUSED IN ABS ENCLOSURE
DCM (2017 ONWARDS) FIELD TEST POTENTIOMETER FOR FAN SPEED TESTING WITH**	405E-POT-TEST-DCM**	POTENTIOMETER FOR FIELD TEST UNIT 405EFIELDKIT-DCM, ALLOWS CONTROL OF FAN SPEEDS TO COMPLETE SITE ALARM TESTS, FAN OPERATION AND FAULT FINDING, COMPLETE WITH RJ11 CONNECTION LEADS, ADJUSTABLE KNOB HOUSED IN ABS ENCLOSURE

### RACK MANAGEMENT AND MONITORING

*“Wherever you find yourself, make sure that you have total control, total security”*

- Have you ever wanted to know who was the last person near those blade servers?
- Reboot a switch and lock off those unused PDU outlets?
- See who is accessing your cold aisle or IT rooms and data halls?
- To check how much server power has used this week?
- Securely open racks; to allow access remotely, record entry, use Biometric, RFID and PIN?
- To know whether cooling fans and room ACU is working correctly?
- Check the data hall climate, see the water cooling system status, adjust the aisle temperature?

Control access to your equipment and remotely monitor all this from anywhere on the globe with **CannonGuard and Data Centre Manager** from Cannon Technologies.

- CannonGuard is a comprehensive suite of hardware that provides both local and remote control of every aspect of your rack cabinets or outside enclosures and data halls.
- The system integrates ‘plug and play’ modules which can be used standalone, or may be daisy chained together into a high security, resilient system with remote monitoring and control from multiple locations.
- The modules can be accessed by a standard web browser or Mobile device.
- All that’s required is a CannonGuard module and a web server that runs our powerful data centre manger software, installed anywhere on your LAN or WAN.
- We can also provide monitoring and support services from our head office if required.

DESCRIPTION	PART CODE
CANNON GUARD/DCM SOFTWARE	EA5100-WEB



### Features

- A Remote rack/Aisle monitoring and management system.
- A Simple & Scalable solution, one to thousands of cabinets and devices.
- An Easy to use interface, Web browsers can be used to login to the system.
- Multi-user roles and permissions, individual users can be given permissions to view and control specific module types and the roles they can perform e.g. Building management can view the cooling performance of a water cooled cold aisle - but not see any power or access devices.
- Local and remote audit trail, every action on the browser screen and at the racks is monitored and audited, every access event can be recorded with CCTV, audit trails can be automatically archived to remote or local servers.
- Automatic site monitoring & drill down:
  - Alarms from sites can be seen as groups of sites and the status viewed as a whole
  - Complete building power usage can be shown at the top level of a group.
  - Maximum/minimum temperatures and power are always shown.
- A Simple point and click interface where any cabinet with a fault shows up red, you can then hover over the cabinet icon for further status information and then click on the device to investigate further.
- Easy to set-up keypads and biometric access devices
- SNMP viewer to monitor the last 1000 SNMP alarms from a master controller.
  - Master controllers monitor 249 devices on the modbus interface they control.
  - Quick CSV export of audits
- Monitoring of A & B Total Power, Max temperature & Humidity, Row status.
- CCTV can all be viewed on one screen, CCTV can be viewed on a 2nd monitor if desired.
- Cannon Data Centre Manager is a Java Web server application, which can be self-installed on a web server or Cannon can assist or provide a 1U server configured to your requirements.



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

## HiLINE STATUS DISPLAY & ELECTRONIC LOCK KITS

- The latest addition to the CannonGuard line up is an integrated status display that is built into the roof of the SERVERSMART cabinet.
- The display unit replaces the standard curved centre moulding and incorporates many useful and novel features: AutoScroll which steps through each display, every second.
- Provides Cabinet Location ID; programmable with 16 characters.
- Display:
  - Temperature and Humidity, Alarms. 4 Temperature sensors may be displayed (option).
  - Power – kW, Volts and Amps from two iPDU's
- Door and side panel switch status.
- Support for Keypads and Electronic locks.
- Display of water temperatures and alarms on water cooled cabinets.
- Dual power versions available.
- Power 'daisy chaining' feature to power 24 cabinets from one power supply unit if no electronic locks are needed.



DESCRIPTION	PART CODE
*SERVERSMART Highline Unit & status monitor (master/stand alone). 1 x temp & humidity sensor, 1 x 1m Cannon Guard patch lead. Single 60W, 24Vdc PSU (master unit), can power up-to 23 slave displays (without locks), daisy chained via Cannon Guard data bus. Connections for: 2 x DC power jacks, 1 x Humidity & 1 x Temp sensor, 3 x Cannon -Guard data bus, 2 x Electronic Locks, 2 x Keypads, 2 x PDU's/2 x RS232, 1 x side panel contact, 1 x LED/Buzzer. See page 11.3 for additional sensors etc. <i>NOTE: UK, Cannon Guard or IEC C13 plugs available, please specify when ordering.</i>	405E-DISPLAY-01
Highline display unit as above* but NO PSU (Slave Unit) – Uses PSU from item above.	405E-DISPLAY-00
Highline display, as above* but with Dual 24Vdc PSU's. Powers 23 displays without locks & provides N+1 resilience (Dual PSU, master unit).	405E-DISPLAY-02
MAG-MOUNT Highline Unit when using locking, monitoring with non SERVERSMART Cabs. Provide same functions as 405E-DISPLAY-01.	405E-DISPLAY-RM-01 (-02 = 2 x PSU)
As above but 19" 1U rack mounted unit. NOTE: "xx" in Part Code denotes options for 0, 1 or 2 PSU i.e. 405E-DISPLAY-RM-19-01 = 1 x PSU	405E-DISPLAY-RM-19-xx
**Keypad and electronic lock on the front door and a 2nd electronic lock on the rear door. Includes door and handle alarms, anti tamper wiring detection, single PSU to power two locks.	405E-ELKP-HD-01
As above** but with Dual PSU.	405E-ELKP-HD-02
Lock kit for two doors, includes wiring and connectors for front and rear doors, 1 x 60W, 24Vdc power supply (Display-PSU).	405E-ELOC-HD
Keypad, stand alone (no lock), details as ELKP-HD above.	405E-KLCD-HD
BIOMETRIC ZK Finger Print Reader with Cannon PIN lock and electronic locking swing handle. Requires HIGHLINE Display card to operate	405E-BIOMETRIC-HD
Keypad with Finger Print BIOMETRIC, front/rear lock and door status switch, 64 users access by group or timed entry. Requires 405ELIMPITMC & EA5100-WEB to register and monitor.	405E-ELKP-BIO-01
As 405E-ELKP-BIO-01 but with dual Keypad front/rear	405E-ELKP-BIO-02
Dual front/rear lock for use with "client free issue" PAXTON NET2 controller/reader, single PSU – NOTE 405E-RFID-PAX-P2 also required & NO reader or controller supplied.	405E-ELOC-HD-01
Interface for "client free issue" PAXTON NET2 controller/reader	405E-RFID-PAX-P2
For use with 2-off PAXTON P75 readers & NET2 Controller with IP based management (Rear/controller not supplied) – Uses Cannon DCM & Paxton Net 2 User Management (not supplied)	405E-RFID-PAX-C2 <b>405E-RFID-PAX-K2</b> (When NO Highline display being used)



**405E-LKP-HD-\*\***

### HiLINE with Electronic Lock with Keypad

Keypad display shows cabinet location and temperature, Pressing a (F) function key shows: Water/Cabinet temperatures, Power displays or allows the entering of unlocking Keycodes.

After a preset 'timeout' the display reverts to location and temperature.

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



### HiLINE STATUS DISPLAY FEATURES

- Auto scroll:- The screen scrolls through the status of the devices inside the cabinet.
- “Cabinet Location”, programmable, 16 characters:
  - Uses the customer editable ‘Location’ parameter from the Cannon View DCM set up page.
- Temperature and Humidity, display & Alarms:
  - Plug in Temperature and humidity sensors. If the Cabinet temperature goes over a customer pre-set threshold the display will flash. The optional beacon and sounder can be enabled & SNMP\* alarms sent .
  - Power – kW, Volts and Amps from two PDU’s.
  - Takes the current cumulative readings from any PDU and displays them, ‘PDU A’, kW, Volts and Amps, ‘PDU B’ , kW, Volts and Amps are shown.
  - Also many manufacturers PDU’s with RS232 output are compatible with this system, Cannon Smart PDU’s with Cannon Guard RS485 interface plug straight in.
- Door and side panel switch status:
  - If door and side panel switches are fitted and the door or panel is open, they show as DOORS ‘F’ ‘B’ ‘L’ ‘R’ on the Door status page. (Front/Back/Left/ Right)
  - ‘Doors OK’ - ‘Panels OK’ show when they are closed & secure.
- Support for Keypads and Electronic locks:
  - Cannon Keypads and Electronic locks can be plugged straight into the display unit – only requiring a PSU per cabinet to drive the locks.
  - Both ‘Single Shot’ local Keypad/Locks and High security, Monitored, Remote & Local operation locks may be fitted.
- Display of fan speeds and water temperatures; fan and cabinet status on water cooled cabinets.
- Dual power version and ‘daisy chaining’ feature to power 24 cabinets from one mains PSU.
- Sounder/Beacon option – plugs in to give a visual and audible warning of alarms.
- If no Keypads or Locks are used in the cabinets a single PSU in the 1st cab will support 24 Displays daisy chained together. Locks and Keypads require a small PSU per cab.

### OPTIONAL ACCESSORIES/SENSORS

DESCRIPTION	PART CODE
Temperature upgrade kit set, sensors and cables for 4 temperature probes, 3M cable to splitter & 4 x 1.5m long probes.	405E-TEMP4-HD
Cabinet door alarm kit set, switches and cables for two doors, allows remote(****) monitoring of door status (included with ELOC kit).	405E-DRAL-03
End Aisle door alarm kit set, switches and cables for two doors, allows local via separate BEACON below or remote(****) monitoring of door status (included with ELOC kit).	405E-DRAL-HD
End Aisle Door Alarm sounder 110dB kit including: 405E-DISPLAY-RM19-01, 405E-DRAL-HD, 405E-ALARM-ZENON-HD, EA-SOUNDER, REED SWITCH AND ASSOCIATED CABLING .	405E-COLD-BEACON
Cabinet/End Aisle Door Alarm 110dB sounder.	405E-SOUNDER
Cabinet Alarm sounder / beacon kit, LED based beacon and 110dB sounder that shows when any alarms are active.	405E-BEACON-HD
End Aisle Door Alarm sounder / RED beacon kit, LED based beacon and 110dB sounder that shows when any alarms are active.	405E-ALARM-BEA-RED
Beacon Interface Unit for above	405E-ALARM-ZENON-HD
Side panel alarm kit set, switches and cables for two side panels, allows remote(***) monitoring of panel status.	405E-SPAL-HD
Smoke alarm kit set, alarm and cables, allows LOCAL AND remote(***) monitoring of smoke alarm status.	405E-SMOKE-HD-01
Water alarm kit set, switches and cables for a water alarm, allows remote(***) monitoring of water alarm status (30’ detection cable in kit).	405E-WATER-ALARM-01
***For Remote management a Cannon Guard Network module is required.  Zero U Network Interface Card, 10/100 to Cannon Guard RS485, Allows up to 240 sub modules to communicate over the CG network using 1 IP address, 24 fully configured Cannon Guard cabinets (slaves) may be managed using only one Network module, Magnetic or screw mounting.	405ELIMPITMC



**CANNON HEAT LOAD**

We are the leading provider of server emulator and heat load units used exclusively for testing data centres, ICT rooms and other clean spaces. We provide our services globally and provide equipment on a rental or sales basis; we can ship to site or provide a fully managed installation service.

**What type of test are you Conducting?**

If you are planning to do a Power test only, it may be appropriate to use large capacity floor standing heat load units. The same units could be used for testing the cooling at a room level.

The Advantage of using fewer units means less cabling, less set-up time and are quicker to Power on/off fewer units. A more accurate cooling test would require smaller, preferably rack mounted Emulators mounted in the racks. By distributing the load in smaller capacities you can more accurately simulate the location of the computer equipment within the racks and across the room. Rack mounted emulators have a delta-t close to that of computer equipment.

**What power distribution is available at the time of testing?**

Heat load can be split into two groups; single or 3-phase powered. It is important to identify how the power is terminated within the room. If commando sockets are available the load can simply be plugged in using the lead provided with the heat load. If the power distribution is not fully implemented it may be necessary to hardwire temporary leads into the power Distribution or to install temporary power distribution Boards.

If the customer racks are Installed, including power strips, it is recommended that the rack mounted server Emulators are connected to the power strips (as this fully tests the power system from the incoming supply through to the power outlet on the power strip).

If the power strips are not implemented or the customer does not want the load to be connected to the strips, it may be necessary to provide temporary power strips. Are there sufficient power outlets in terms of capacity and quantity in the locations where the heat load is required?



Single & 3-phase floor standing heat load banks provide *predictable* electrical and heat loads. This enables the testing of the electrical and cooling systems in a controlled environment.  
2kW to 3kW – Single Phase  
9kW, 15kW & 22kW – 3 Phase



*Over 50 temporary power distribution boards; with a mixture of 200 and 250Amp boards available.*



*Three single phase rack mounted server emulator/heat load offerings are available; a basic 2kw heat load unit and 2kw/3.5kw server emulators.*

**For further details on Heat Load Hire please contact the Cannon Sales Team.**

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

T: +44(0)1425 632600 | CANNONTECH.CO.UK | SALES@CANNONTECH.CO.UK

<b>Contact Name:</b>	
<b>Company:</b>	
<b>Phone:</b>	
<b>E-Mail:</b>	
<b>Address:</b>	
<b>Country / Post Code:</b>	
<b>Delivery Address:</b>	
<b>Country / Post Code:</b>	
<b>Total kW/MW required:</b>	
<b>Delivery Date:</b>	
<b>Delivery Required:</b>	
<b>Collection Required:</b>	
<b>Duration of rental or sale:</b>	
<b>Installation Required:</b>	
<b>Un-installation required:</b>	
<b>On-site management of load required (Fire Watch):</b>	
<b>Type of heat load required:</b>	
<b>If Rack Mounted, are all the racks installed:</b>	
<b>Do you require a monitoring solution:</b>	
<b>If no, do you require temporary racks:</b>	
<b>Do you require blanking in installed racks?</b>	
<b>Is the power distribution installed in the racks:</b>	
<b>Power distribution socket type:</b>	
<b>If no, do you require 250A power distribution:</b>	
<b>Type of power available:</b>	
<b>Power connectivity:</b>	
<b>Additional Comments:</b>	

## 1U LCD CONSOLE DRAWERS

- 16.7M colours
- 104-key keyboard with either touchpad or trackball
- Moulded front panel - 2 point front panel lock in closed position
- One Man installation design

MODEL	LCD SCREEN	DESCRIPTION	RESOLUTION
K117	17"	1U 4K ULTRA HD CONSOLE DRAWER	3840 x 2160
F117	17"	1U FULL HD CONSOLE DRAWER	1920 x 1080
X117	17"	1U WUXGA CONSOLE DRAWER	1920 x 1200
L120	20"	1U CONSOLE DRAWER	1600 x 1200
W119	19"	1U CONSOLE DRAWER	1440 x 900
RKP117/119	17" / 19"	1U CONSOLE DRAWER	1280 x 1024
N117	17" / 19"	1U CONSOLE DRAWER	1280 x 1024
RKP7 / 9	17" / 19"	1U CONSOLE DRAWER	1280 x 1024



## LARGE LCD CONSOLE DRAWERS

- K123: 1.07B colours (10-bit) / F121/X124: 16.7M colours (8-bit)
- 104-key keyboard with either touchpad or trackball
- Moulded front panel - 2 point front panel lock in closed position
- One Man installation design

MODEL	LCD SCREEN	DESCRIPTION	RESOLUTION
K123	23"	1U 23" 4K LCD CONSOLE DRAWER	3840 x 2160
F121	21"	1U 21" FHD LCD CONSOLE DRAWER	1920 x 1080
X124	24"	1U 24" WUXGA CONSOLE DRAWER	1920 x 1200



## DUAL SLIDE LCD CONSOLE DRAWERS

- Dual slide - LCD and keyboard slide independently
- 104-key keyboard with either touchpad or trackball
- Moulded front panel - 2 point front panel lock in closed position
- One Man installation design

MODEL	LCD SCREEN	DESCRIPTION	RESOLUTION
DK117	17"	1U DUAL SLIDE 4K ULTRA HD CONSOLE DRAWER	3840 x 2160
DF117	17"	1U DUAL SLIDE FULL HD LCD CONSOLE DRAWER	1920 x 1080
DX117	17"	1U DUAL SLIDE WUXGA CONSOLE DRAWER	1920 x 1200
D117/D119	17"/19"	1U DUAL SLIDE WUXGA CONSOLE DRAWER	1280 x 1024
RKP2417K	17"	2U SHORT DEPTH DUAL SLIDE 4K CONSOLE DRAWER	3840 x 2160
RKP2417F	17"	2U SHORT DEPTH DUAL SLIDE FHD CONSOLE DRAWER	1920 x 1080
RKP2417 / 2419	17"/19"	2U SHORT DEPTH DUAL SLIDE WUXGA CONSOLE DRAWER	1280 x 1024



## ULTRA SHORT DEPTH LCD CONSOLE DRAWERS

- Ultra Short Depth 400mm / 15.7"
- 104-key keyboard with either touchpad or trackball
- Moulded front panel - 2 point front panel lock in closed position
- One Man installation design

MODEL	LCD SCREEN	DESCRIPTION	RESOLUTION
K1417	17"	1U SHORT DEPTH 4K ULTRA HD CONSOLE DRAWER	3840 x 2160
F1417	17"	1U SHORT DEPTH FULL HD CONSOLE DRAWER	1920 x 1080



## MULTI-DISPLAY CONSOLE DRAWERS

- 2U 22" short depth design
- Dual or triple display console drawer
- Three LED backlit display selections (4K, FHD, 4:3)
- DVI-D + VGA video input for FHD & 4:3 (per display)
- Display port 1.2 video input for 4K (per display)

CONSOLE	17" 4K ULTRA HD	17" FULL HD	19" 4:3 DISPLAY
RESOLUTION	3840 x 2160	1920 x 1080	1280 x 1024
TRIPLE DISPLAY	MRK-K17-3	MRK-F17-3	MRK-19-3
DUAL DISPLAY - LEFT HAND	MRK-K17-2L	MRK-F17-2L	MRK-19-2L
DUAL DISPLAY - RIGHT HAND	MRK-K17-2R	MRK-F17-2R	MRK-19-2R



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

### 4K 60Hz KVM

- 4K KVM with 8 HDMI USB ports in 1U
- 4K KVM cables support DP & HDMI video input
- USB hub port share peripheral devices among computers
- Local console & KVM ports support resolution 4K, 2K and 1080p.
- Multi-platform for PC, server, blade server & SUN / MAC
- Port switching via front button & keyboard hotkeys
- Hot pluggable, no software or drivers required



### 2K KVM

- 2K KVM with 8 HDMI USB ports in 1U
- 2K KVM cables support DVI-D & HDMI video input
- Local console & KVM ports support resolution 2K and 1080p.
- Multi-platform for PC, server, blade server & SUN / MAC
- Port switching via front button & keyboard hotkeys
- Hot pluggable, no software or drivers required



### DVI-D KVM

- DVI-D KVM with 12 ports in 1U
- Local console & KVM ports support resolution up to 1920 x 1200
- Multi-platform for PC, server, Blade Server & SUN / MAC
- Port switching via front button & keyboard hotkeys
- Hot pluggable, no software or drivers required



### CAT6 MATRIX KVM

- CAT6 KVM with 16 or 32 Ports in 1U
- Simultaneous & independent access up to 4 consoles
- Cat6 dongle available for DP, HDMI, DVI-D or VGA video input
- Local console & KVM ports support resolution up to 1920 x 1080
- Port switching via OSD, front button & keyboard hotkeys
- Multi lingual OSD menu
- Hot pluggable, no software or drivers required
- Multi-platform for PC, server, Blade Server & SUN / MAC
- Cascade levels up to 8 KVM switches



### IP-S101

IP Combo KVM Extender

- Compatible with all branded KVM switches
- IP Remote access from any location via web browser
- Maintaining servers across the world up to BIOS level



**For further details on KVM Products please contact the Cannon Sales Team.**

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



**MATRIX DB-15 KVM**

- DB-15 KVM with 8 or 16 ports in 1U
- Simultaneous & independent access up to 4 consoles
- Local console & KVM ports support resolution up to 1920 x 1080
- Port switching via OSD, front button & keyboard hotkeys
- Multi lingual OSD menu
- Hot pluggable, no software or drivers required
- Multi-platform for PC, server, Blade Server & SUN / MAC
- Cascade levels up to 8 KVM switches



**CAT6 COMBO KVM**

- Cat6 KVM with 8, 16 or 32 ports in 1U
- Cat6 dongle available for DP, HDMI, DVI-D or VGA video input
- Local console & KVM ports support resolution up to 1920 x 1200
- Port switching via OSD, front button & keyboard hotkeys
- Multi lingual OSD menu
- Hot pluggable, no software or drivers required
- Multi-platform for PC, server, Blade Server & SUN / MAC
- Cascade levels up to 8 KVM switches



**DB-15 USB HUB KVM**

- DB-15 KVM with 8 or 16 ports in 1U
- USB hub ports share peripheral devices among computers
- Local console & KVM ports support resolution up to 1920 x 1200
- Multi-platform for PC, server, Blade Server & SUN / MAC
- Port switching via OSD, front button & keyboard hotkeys
- Multi lingual OSD menu
- Hot pluggable, no software or drivers required



**DB-15 COMBO KVM**

- DB-15KVM with 8 or 16 Ports in 1U
- Local console & KVM ports support resolution up to 1920 x 1200
- Port switching via OSD, front button & keyboard hotkeys
- Multi lingual OSD menu
- Hot pluggable, no software or drivers required
- Multi-platform for PC, server, Blade Server & SUN / MAC
- Cascade levels up to 8 KVM switches



**SUN-31 kit**

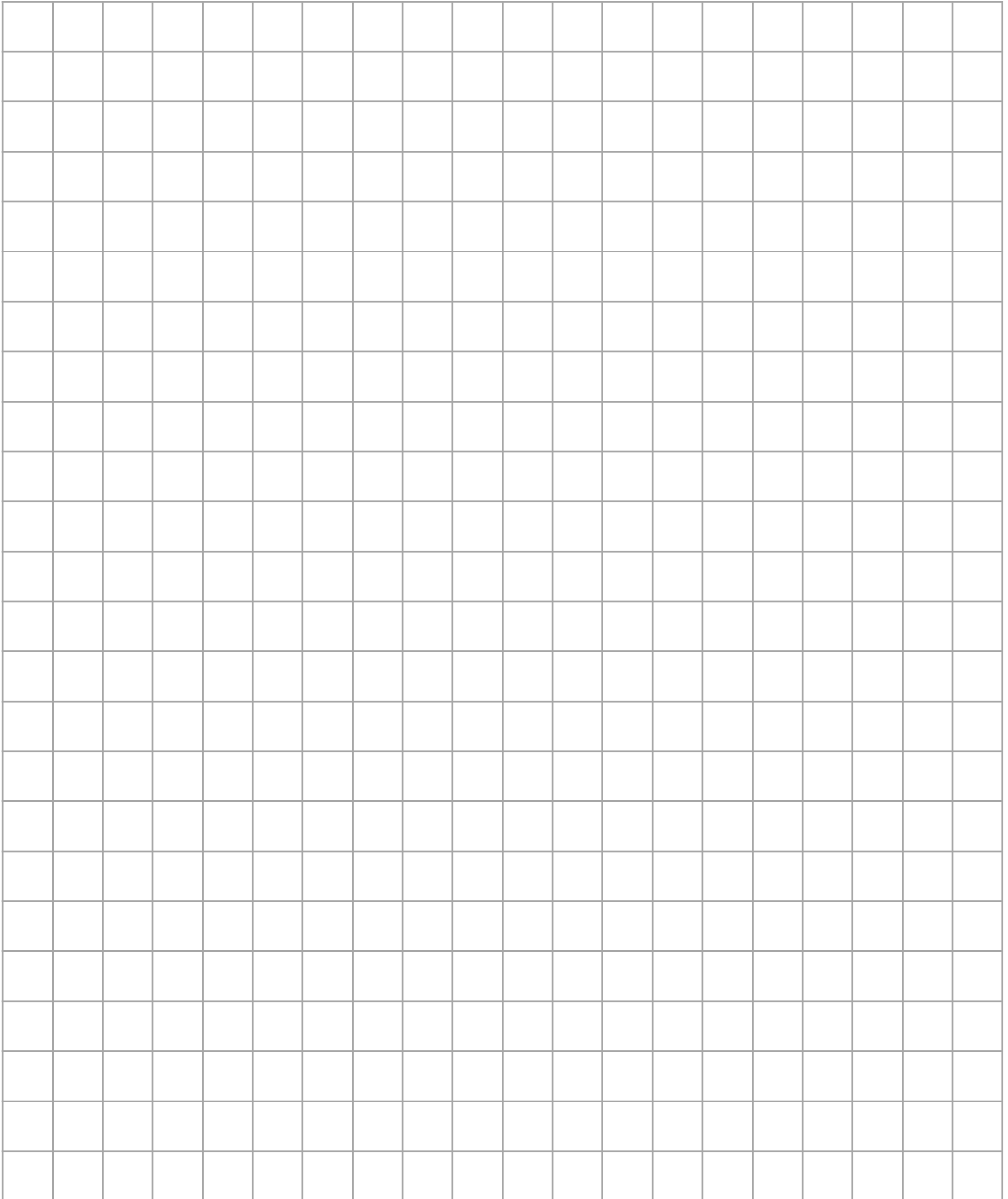
PS/2 to USB Adapter

- Convert PS/2 keyboard and mouse to the USB Interface
- Convert PS2 KVM switches to USB KVM switches
- Supports standard PS/2 mouse and Microsoft IntelliMouse
- Easy to Install
- Bus power, no external power required
- Complies to USB 1.0 and 1.1 specification
- Support UHCI and OHCI USB interface



**For further details on KVM Products please contact the Cannon Sales Team.**

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



### 19" INRACK FIRE SUPPRESSION SYSTEM

#### Features:

- Self-contained fire detection & suppression system
- Additional environmental control capabilities
- Compact 2U x 19" chassis mounting
- Local/remote audio/visual condition monitoring & control
- Monitored alarm/fault circuits
- Visual alarm & fault status indications
- Point-type or air sampling smoke detection
  - Single or coincident alarm
- Choice of gaseous extinguishing agents
- Selectable gas release delay
- Up to 12 hour battery back-up
- Fan/power shutdown control
- IT/BMS data output
- EMC tested/CE mark tested

#### Benefits:

- Complete rack/cabinet fire solution
- Close protection for high value assets & critical operations
- Faster response to in-cabinet fire incidents
- 24/7 running, no daytime lock-off
- Requires little to no fire engineering design, installation cost or floor space
- Reduced extinguishing gas requirement/maintenance costs
- Contributes to responsible environmental emissions policy
- And by distributing protection within cabinets, improves cost effectiveness of fire safety policy
- **Inrack fire suppression unit** is transportable, it moves with the cabinet
- **Inrack fire suppression unit** can be extended and networked
- Communication links to IT networks/BMS
- SNMP/Web enabled for greater integration/management control
- Improved control & security integration with main building systems



Representing the future in cabinet protection; **Inrack fire suppression system** is a self contained automatic fire extinguishing system for rack enclosures and equipment cabinets, which can be used in all industry sectors to protect valuable assets and critical systems and processes.

Designed to be housed in 19" racking systems for the protection of electronic equipment, The unit is fully capable of detecting a fire using a range of proven and approved fire detection sensors.

If a fire condition is detected, the system can automatically respond to the hazard by controlling a planned release of proven fire extinguishing gas into the enclosure; all within 10 seconds of the detection of a fire condition. The unit also carries on-board processing and communication functions to pass on information to building management and security systems. Signals can be sent to other equipment via Form 'C' VFCC to inform of the units status and to key personnel for immediate investigation.

**Inrack fire suppression system** is also suitable for non-19" applications through its unique mounting tray layout, which can be accommodated within top and side-mounted boxes, as well as being installed to side walls within non-19" equipment cabinets. Where standard rack enclosures are used, the **Inrack** unit is sited at the top of each rack.

By siting the 19" **Inrack fire suppression system** at the top of each equipment rack the individual piece of equipment is being protected right at the heart of the potential risk, therefore more accurately pinpointing the fire at a very early stage and eliminating the need to discharge large costly amounts of fire suppressant. Designed around existing fire detection/control standards and also within the existing performance requirements for extinguishing systems. This is crucial in ensuring that all parts, bottles, valves, smoke detectors, etc; are pre-approved. Similarly, the unit undergoes continual assessment testing under different fire and hazard conditions; again to ensure that each application is fully understood and the **Inrack** system is able to detect a fire hazard and take the appropriate action to annunciate and contain the condition.

DESCRIPTION	PART CODE
19" INRACK FIRE SUPPRESSION SYSTEM HFC227EA (FM200) SUPPRESSION 1.5m <sup>3</sup>	CA-INRACK-FIRE-FM1.5
19" INRACK FIRE SUPPRESSION SYSTEM HFC227EA (FM200) SUPPRESSION 3.0m <sup>3</sup>	CA-INRACK-FIRE-FM-3
19" INRACK FIRE SUPPRESSION SYSTEM FK-5-1-12 SUPPRESSION 1.5m <sup>3</sup>	CA-INRACK-FIRE-FK1.5
19" INRACK FIRE SUPPRESSION SYSTEM FK-5-1-12 SUPPRESSION 3.0m <sup>3</sup>	CA-INRACK-FIRE-FK-3
19" INRACK FIRE SUPPRESSION SYSTEM HFC227EA (FM200) SUPPRESSION 3.0m <sup>3</sup> (WITH REMOTE DETECTION & EXTERNAL SOUNDERS)	405E-FIRE-INRACK-01

**For further details on Fire Suppression Systems please contact the Cannon Sales Team.**

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

## UPS & BATTERY SYSTEMS

CANNON'S range of uninterruptible power supply systems incorporates solutions for every application, from domestic use and home offices through to factories, utilities and data centres.

Choose from a selection of single phase or three phase UPS from 400 VA to 6.4 MVA. Whether it's online, line interactive, or VFD, all UPS power supplies are designed using the latest technologies and techniques to deliver reliable power protection in the most energy efficient way possible.

## Transfer Systems

Static transfer switches and UPS bypass systems that ensure continuous and reliable power distribution.

Our range of static switches enable you to automatically and instantaneously transfer the power to multiple items of equipment or machinery if there's an issue with the incoming AC power source.

UPS's power transfer systems are available for both single phase and three phase applications.

## Software & Connectivity

The complete range of UPS software for uninterruptible power supplies, including network communication cards, environmental sensors, remote monitoring devices, and UPS management software.

These user-friendly and intuitive devices easily enable your UPS systems to connect and communicate across IT networks in a safe, secure, and reliable fashion.

UPS management software make it easy for network administrators to receive real-time operational information, such as the input voltage or applied load, or to schedule shutdown procedures in the event of a power outage.

communication cards help transform your power supply into a 'smart' UPS that can be monitored and controlled through a secure web browser, command line interface, or SNMP protocols.

**For further details on UPS & Battery Systems please contact the Cannon Sales Team.**



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





A wealth of information at your fingertips.  
Visit [www.cannontech.co.uk](http://www.cannontech.co.uk)  
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- Product Brochures & Updates
- Video's – Product & Training
- News & Case Studies
- Technical White Papers
- Company information
- Downloads



**INFORMED**

The easiest way to find up-to-the-minute information on cabinets, enclosures and data centre solutions is to visit [www.cannontech.co.uk](http://www.cannontech.co.uk). Here you will find the resources, contacts, data and product information that make specifying your requirements more simple.

At Cannon's website you will find breaking news and information on the latest product developments, as well as comprehensive support for our entire product lines.

**PRODUCTS**

Visit Cannon's **Products** section for the latest models for Cabinets, Enclosures and Data Centre applications, as well as our expanding selection of accessories.

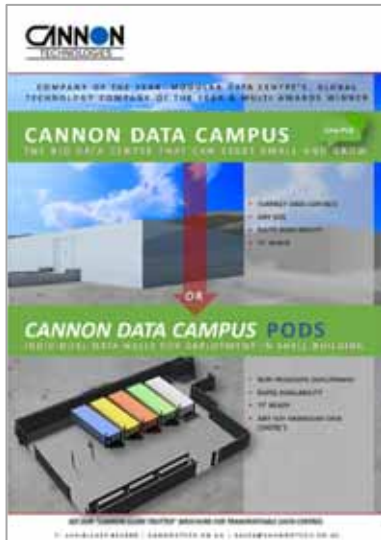
Download PDF versions of our current brochures as well as simple to use tools for cabinet configuration and room/building design.

**CUSTOMER SERVICE**

Cannon's website is also the first place you turn when you need customer service, whether you need to quickly find a local partner or to submit enquiries to Cannon Technologies.



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



**CANNON DATACAMPUS & PODS:**

‘Cannon Data Campus’ is a high performance low PUE, resilient data centre, built using modern technology to provide an expandable facility, comprising individual modules, each with a dedicated purpose, maximising efficiency.

The Modular Cannon Data Campus range offers two major advantages :-

- Exceptional financial advantages for investors.
- Greatly improved facility performance across all critical operational metrics.

Download a PDF copy from our website: [www.cannontech.co.uk](http://www.cannontech.co.uk) or request your copy today.



**CANNON GLOBE TROTTER:**

“Cannon GLOBE TROTTER” comprises the small capacity, transportable Modular Data Centre range which is complimentary to “Cannon Data Campus” multi-megawatt modular facilities.

Download a PDF copy from our website: [www.cannontech.co.uk](http://www.cannontech.co.uk) or request your copy today.



**CANNON INTEGRATED OUTDOOR SOLUTIONS:**

Cannon are at the forefront in the development of secure, high dependability and innovative designs of outdoor cabinets & enclosures. Our close collaboration with major communication providers has resulted in products providing security and environmental protection for sensitive electronics.

These cabinets can vary in size, from relatively small street-side cabinets to large walk-in cabins located trackside, on train platforms, green field sites, street-side etc.

Download a PDF copy from our website: [www.cannontech.co.uk](http://www.cannontech.co.uk) or request your copy today.

# CANNON INFRASTRUCTURE

CABINETS, RACKS, CONTAINMENT, PDU, UPS, HEAT LOAD & ACCESSORY SOLUTIONS

Additional Products available from  
Cannon Technologies Group :

- Modular Data Centres
  - Cannon Data Campus
  - Cannon GLOBE TROTTER
  - Cannon GMDC
  - Cannon Mini/Micro DC
  - Ruggedized DC Cases
- IT Infrastructure
  - 19" Server Cabinets
  - Patch Frames
  - Free Form Containment
  - Cold/Hot Aisle Containment
  - Air Management
  - UPS & Power
- Techni-Cabins
  - Mobile-Cell & Mast Stations
  - Outdoor Cabinets & Enclosures

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