# ENCLOSURES AND DATA CENTER SOLUTIONS

## SJ MANUFACTURING
(2003) PTE LTD

# CONTENT

## SJ MANUFACTURING (2003) PTE LTD

**OUR VISION**

To expand our reach as a leading enclosure manufacturer beyond South East Asia, promoting unparalleled value and innovative solutions to our customers around the world.

**OUR MISSION**

To manufacture quality enclosures and deliver promptly, partnering our customers, suppliers and employers for the long term, supporting them with value-added customer service.

**THE SJ BENEFIT**

- A cohesive team dedicated to producing quality products you can rely on.
- A wide range of standard and customised designs to suit your requirements and budget.
- A high-quality manufacturing process using the latest equipment and highly skilled staff.
- Finishes designed to last.
- Distribution and installation network that can deliver wherever your enclosure needs to be.
- Dedicated after-sales service.

# SJ PROFILE

Established in Singapore in 1982,
SJ Manufacturing is a leading
manufacturer of enclosure systems
within the Asia Pacific region.

We specialise in the design and
fabrication of:

- 19" Server Racks and Networking
- Cold Aisle Containment
- Outdoor IP55 Aluminium Enclosures
- Modular Command Consoles

We are also the licensed manufacturer
of the IMRAK® 1400 and IMSuite®
Modular Caging Suite System as well as
the distributor of a range of other APW
products for the South East Asia Region.

Headquartered in Singapore, SJ
Manufacturing is an ISO 9001 certified
company, operating manufacturing
facilities in Singapore, Malaysia and
Vietnam with a combined capability
of 95,000 sq ft.

We are the trusted suppliers to the
following industries:

- Electronics
- Data Communications
- Networks
- Internet Data Centre
- Broadcasting
- Energy
- Telecommunications
- Command Centre
- Oil & Gas
- Military

Since May 2014, SJ Manufacturing is part
of the Legrand Group. Legrand is the
global specialist in electrical and digital
building infrastructures and present
in more than 80 countries with a total
workforce of over 36,000.

Legrand's offerings cover 4 fields:

- Control & Command of electric power
- Cable Management
- Power Distribution & UPS
- Voice-Data-Image Distribution

SINGAPORE 1000
SINGAPORE SME 500

*Congratulates*

*SJ MANUFACTURING (2003) PTE. LTD.*
*on your achievement as a*

**SINGAPORE SME 500 COMPANY**

**2010**

SINGAPORE
**500**
SME

**KEN SANSOM**
*Chairman*

**CHEN YEW NAH**
*Managing Editor*

Ranking Body & Publisher

DP
INFORMATION
GROUP



BUREAU VERITAS
Certification

BUREAU VERITAS
1828

Certification
Awarded to

**SJ Manufacturing (2003) Pte Ltd**

17 Neythal Road, Singapore 628582

Bureau Veritas Certification certify that the Management System of the
above organisation has been audited and found to be in accordance with the
requirements of the management system standards detailed below

STANDARD

**ISO 9001:2008**

SCOPE OF SUPPLY

**Design and Manufacturing of Computer Cabinets and Operator
Consoles**

*Original Approval Date:* **24 February 2011**

*Subject to the continued satisfactory operation of the organisation's Management System, this certificate is
valid until:* **23 February 2014**

*To check the validity of this certificate please call (0)(1)-419-7717)*
*Refer to the appendix for other information on this certification where applicable. Further clarification regarding the
scope of this certificate and the applicability of the management system requirements may be obtained by consulting
the organisation.*

*Certificate Number* SGPSGP001459    *Date:* 24 February 2011

UKAS



*Date of issue: 01/09/2014*

biz**SAFE**

**CERTIFICATE**

The Workplace Safety and Health Council
is pleased to certify that

**SJ MANUFACTURING (2003) PTE. LTD.**

has fulfilled the requirements to attain bizSAFE Level 3

This certificate will expire on 24/08/2017

**Winston Yew**
Deputy Director, Industry Capability Building
Workplace Safety and Health Council

WSHCOUNCIL

Certificate No. E06256

# OUR CAPABILITIES

At SJ Manufacturing, we control the process from initial design through to distribution and delivery, ensuring high standards are maintained at every stage of production to bring you quality products guaranteed to last.







### In-House Design

Our products are made to meet our customers' exact specifications. While we produce standard products that meet most customers' requirements, we are also specialists in design to order. Our design team works with your specifications to design and configure the enclosure that meets your needs, down to size, shape and colour. Using the latest CAD software, our designers draw the 3D conceptual design for your approval before it is transferred to our production and assembly facilities.

### Manufacturing

Our factories have the latest machines that quickly and accurately create, shape and form the components necessary to build your industrial prototype or handle your volume manufacturing. The whole process is guided at every stage by the expertise of our experienced production personnel.

### Coating

The components of your enclosure are coated to your specifications to give long lasting protection and a good quality finish. Our powder coating ensures complete and even coverage to produce a finish that complements your existing colour scheme or corporate identity. Plating and anodising services are also available upon request.

### Assembly

Our highly skilled assembly team is well versed in our complete range of products and are highly specialised in their field. Once an enclosure leaves our factory, we guarantee that it is ready for operation.

### Storage

With quick turn service, we can provide our customer with standard products at short notice. To ensure that we consistently meet our customer's expectations, we stock a wide range of accessories so that we can assemble and deliver an enclosure in the shortest possible time.

### Logistics

When it comes to delivery, we have a strong alliance with our established network of partners, authorised distributors and installers to ensure that, no matter where in the world you are, we will deliver on time and co-ordinate the full installation, leaving you to focus on your business.

# EZRAK® MVS

## Dual depth mounting suits different server

## Fully perforated door with 80% ventilation
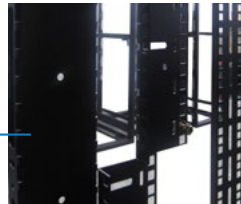




### EzRak® MVS
### Multi-Vendor Server Version

EzRak® MVS Multi-Vendor Server Rack comes with depth of 1,000mm or more with double split rear panel mounts, suitable for high-density 19" rack mount servers with rear space for cable management. The perforated doors provide maximum thermal management for mission critical active equipment.

### FEATURES

- Supplied fully assembled or knocked down version
- Load rating of 1,500kg Static Weight Load (SWL)
- Front honeycomb perforated metal door
- Rear honeycomb perforated metal door
- Door with heavy duty, robust swing handle and lock
- 4 Heights – 27U, 42U, 45U and 47U (other height available)
- 2 Widths – 600mm and 800mm (other width available)
- 3 Depths – 1,000mm, 1,100mm and 1,200mm
- Cable entry provided for the top and bottom
- Top fan tray for 2, 4 or 6 fans (optional)
- Adjustable 19" panel mounts – Multi-Vendor Server version
- Split rear panel mounts for multiple server depths
- Quick release side panel, lock optional
- Adjustable feet, 100mm plinth or heavy duty castors
- Two tone fine texture black
- Other sizes are available upon request
- A wide range accessories

## ORDERING INFORMATION

| HEIGHT (U) | WxD (mm) 600x 1,000 | WxD (mm) 600x 1,100 | WxD (mm) 600x 1,200 | WxD (mm) 800x 1,000 | WxD (mm) 800x 1,100 | WxD (mm) 800x 1,200 |
|---|---|---|---|---|---|---|
| 27U | MVS 61027 | MVS 61127 | MVS 61227 | MVS 81027 | MVS 81127 | MVS 81227 |
| 42U | MVS 61042 | MVS 61142 | MVS 61242 | MVS 81042 | MVS 81142 | MVS 81242 |
| 45U | MVS 61045 | MVS 61145 | MVS 61245 | MVS 81045 | MVS 81145 | MVS 81245 |
| 47U | MVS 61047 | MVS 61147 | MVS 61247 | MVS 81047 | MVS 81147 | MVS 81247 |

## EzRak® MVS – Dimensions and mounting positions

| Height (U) | DIM 'A' (mm) | DIM 'B' (mm) |
|---|---|---|
| 27U | 1,308.00 | 1,201.80 |
| 42U | 1,975.00 | 1,868.50 |
| 45U | 2,108.00 | 2,001.90 |
| 47U | 2,197.00 | 2,090.80 |

| Width (mm) | External | Mounting |
|---|---|---|
| 600 | 600 | 466 |
| 800 | 800 | 666 |

| Depth (mm) | External | Mounting |
|---|---|---|
| 1,000 | 1,000 | 540 |
| 1,100 | 1,100 | 640 |
| 1,200 | 1,200 | 740 |

| Description | DIM 'C' |
|---|---|
| Heavy duty castor wheel | 92.1mm |
| Adjustable feet | Min. 25 Max. 40 |
| Adjustable foot adaptor | Add 56mm to adjustable feet |
| Top cover (std) | 48mm |

## Standards

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimension)
EN 60950
VDE 0100
EIA-310-D
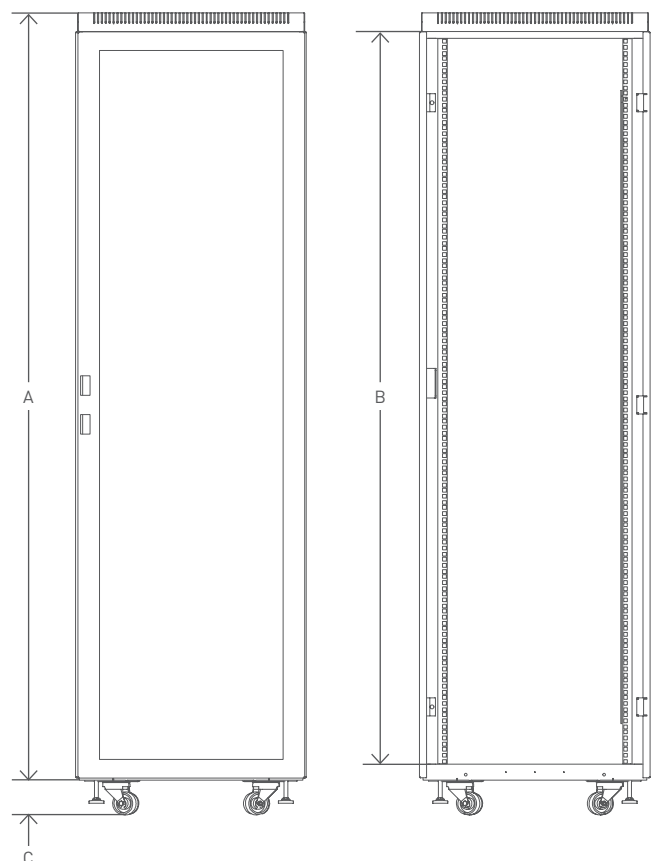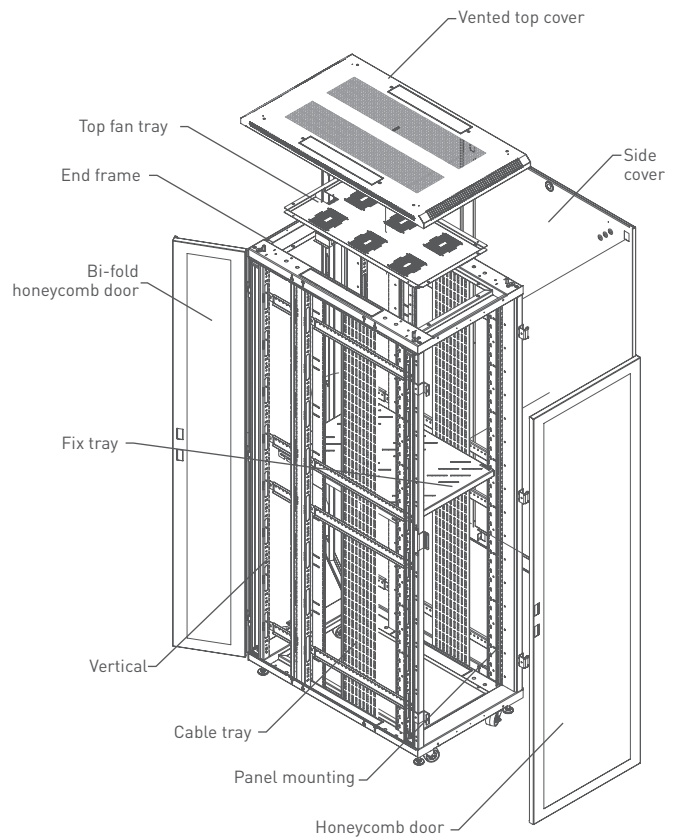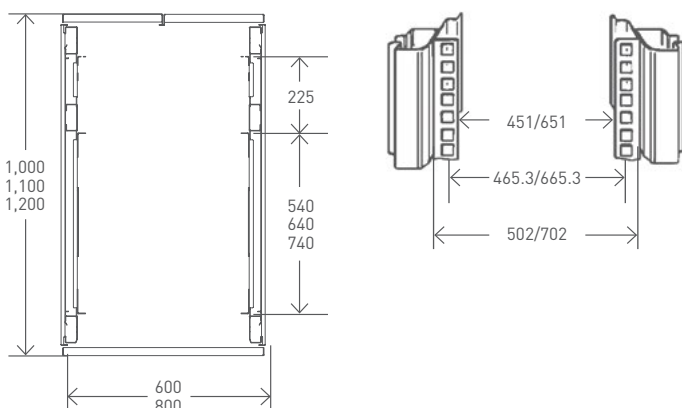
# SMARTRAK®

## The entry level packing system

Cost effective
Assemble friendly
Flat-packed for shipping

## SMARTRAK®

SMARTRAK® is a Multi-Purpose mounting racking system that allows for 19" / ETSI / Metric equipment to be mounted in a cabinet.

This strong and versatile cabinet is suitable for large cable management from the top and bottom for both 600mm and 800mm width end frames. MVS version with 1,000mm depth is suitable for multi-vendor server installation.


Roof mounted fan tray with fan
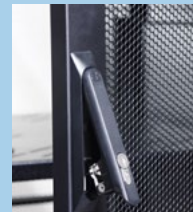

Robust swing handle lock set


Plinth, heavy duty castor, adjustable feet

## FEATURES

- Supplied fully assembled and configured with accessories
- Load rating of 1,000kg Static Weight Load (SWL)
- Front and rear full honeycomb perforation with robust swing handle lock
- 3 Heights - 27U, 42U and 45U
- 2 width options - 600mm and 800mm
- 2 depth options - 800mm and 1,000mm
- Cable entry provided for the top and bottom
- Power strip - 9 way 13A (option)
- Top fan tray for 2 fans (option)
- Standard 19" panel mounts
- Quick release side panel, lock
- Adjustable feet, 100mm plinth and heavy duty castors
- Fine textured black

## ORDERING INFORMATION

| Height (U) | W x D (mm) 600 x 800 | W x D (mm) 600 x 1,000 | W x D (mm) 800 x 800 | W x D (mm) 800 x 1,000 |
|---|---|---|---|---|
| 27U | SM 6827 | SM 6127 | SM 8827 | SM 8127 |
| 42U | SM 6842 | SM 6142 | SM 8842 | SM 8142 |
| 45U | SM 6845 | SM 6145 | SM 8845 | SM 8145 |

# SmartRak® - Dimensions and mounting positions

| Height (U) | DIM 'A' (mm) | DIM 'B' (mm) |
|---|---|---|
| 27U | 1,294.95 | 1,200.15 |
| 42U | 1,961.70 | 1,866.90 |
| 45U | 2,095.05 | 2,000.25 |

| Width (mm) | External | Mounting |
|---|---|---|
| 600 | 600 | 465.30 |
| 800 | 800 | 665.30 |

| Depth (mm) | External | Mounting |
|---|---|---|
| 800 | 800 | 540 |
| 1,000 | 1,000 | 740 |

| Description | DIM 'C' |
|---|---|
| Metal plinth | 100mm |
| Heavy duty castor wheel | 92.1mm |
| Adjustable feet | Min. 25 Max. 40 |
| Adjustable foot adaptor | Add 56mm to adjustable feet |

## Standards

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimension)
EN 60950
VDE 0100
EIA-310-D
1U = 44.45mm

Top cover plate
Fan tray cover
Fan tray
Top cover
Panel mounting
Honey-comb door
Honeycomb door
Bracing member
Frame
Side cover
Bottom cover plate
Caster wheel plate assembly

600
800
1,000

540
740

451/651
465.3/665.3
538/738

600
800

A

B

C
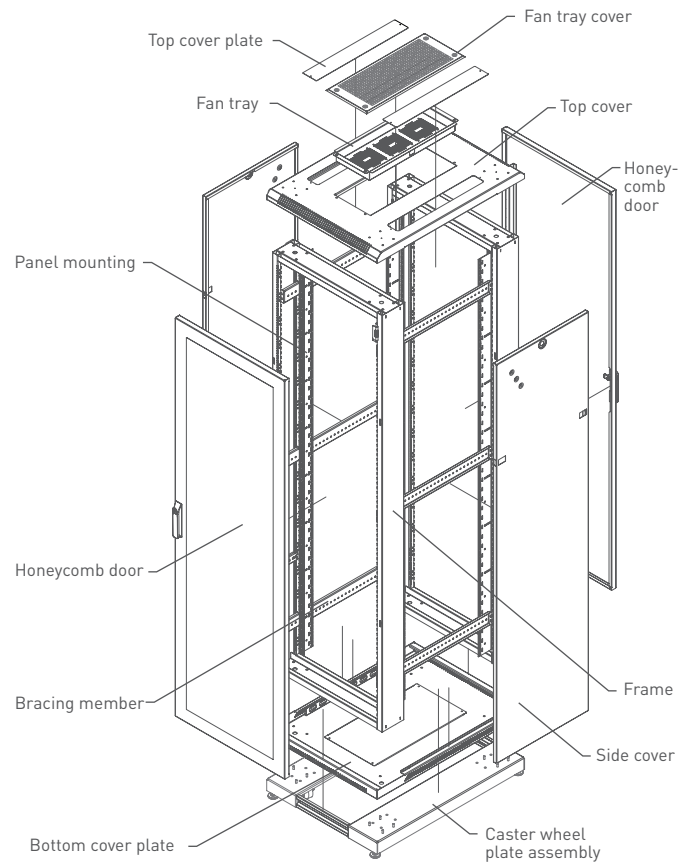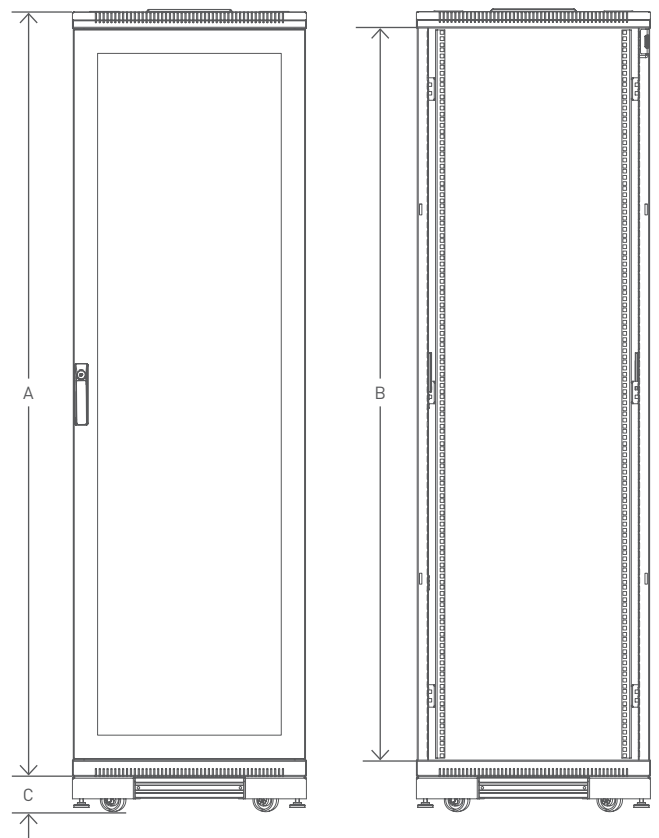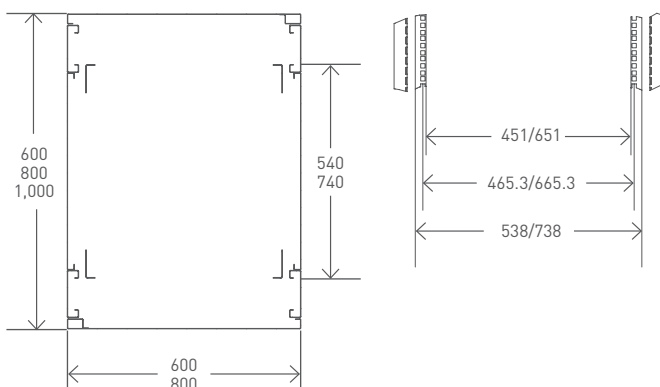
# IMRAK®

## Ideal rack for your data storage

### IMRAK® 1400

IMRAK® 1400 is a versatile 19" racking system. The cabinet's very strong yet lightweight frame can be configured to meet the special racking requirements of today's electronics and date communication broadcast industries.

**DESIGN AWARD WINNER**

**INDUSTRIE FORUM DESIGN HANNOVER**

## FEATURES

- Supplied fully assembled and configured with accessories
- Load rating of 800kg Static Weight Load (SWL)
- Front safety glass and rear vented metal door with lock
- 9 Heights – 12U, 17U, 22U, 27U, 32U, 37U, 42U, 45U and 47U
- 2 widths – 600mm and 800mm
- 2 depth options  – 670mm and 870mm
- Cable entry provided for the top and bottom
- Power strip options – 6 way, 9 way and 13 way
- Top fan tray for 2 or 4 fans
- Standard 19" panel mounts
- Quick release side panel, lock optional
- Adjustable feet, 100mm plinth or heavy duty castors
- Two tone grey, RAL 7035/7037
- Coachline – Green

## ORDERING INFORMATION

| HEIGHT (U) | WxD (mm) 600x670 | WxD (mm) 600x870 | WxD (mm) 800x670 | WxD (mm) 800x870 |
|---|---|---|---|---|
| 12U | IM 6612 | IM 6812 | IM 8612 | IM 8812 |
| 17U | IM 6617 | IM 6817 | IM 8617 | IM 8817 |
| 22U | IM 6622 | IM 6822 | IM 8622 | IM 8822 |
| 27U | IM 6627 | IM 6827 | IM 8627 | IM 8827 |
| 32U | IM 6632 | IM 6832 | IM 8632 | IM 8832 |
| 37U | IM 6637 | IM 6837 | IM 8637 | IM 8837 |
| 42U | IM 6642 | IM 6842 | IM 8642 | IM 8842 |
| 45U | IM 6645 | IM 6845 | IM 8645 | IM 8845 |
| 47U | IM 6647 | IM 6847 | IM 8647 | IM 8847 |

# IMRAK® 1400 – Dimensions and mounting positions

| Height (U) | DIM 'A' (mm) | DIM 'B' (mm) |
|---|---|---|
| 12U | 641.20 | 535.00 |
| 17U | 863.45 | 757.25 |
| 22U | 1,085.70 | 979.50 |
| 27U | 1,307.95 | 1,201.75 |
| 32U | 1,530.20 | 1,424.00 |
| 37U | 1,752.45 | 1,646.25 |
| 42U | 1,974.70 | 1,868.50 |
| 45U | 2,108.05 | 2,001.85 |
| 47U | 2,196.95 | 2,090.75 |

| Width (mm) | External | Mounting |
|---|---|---|
| 600 | 595 | 466 |
| 800 | 795 | 666 |

| Depth (mm) | External | Mounting |
|---|---|---|
| 670 | 670 | 440 |
| 870 | 870 | 640 |

| Description | DIM 'C' |
|---|---|
| Heavy duty castor wheel | 92.1mm |
| Adjustable feet | Min. 25 Max. 40 |
| Adjustable foot adaptor | Add 56mm to adjustable feet |
| Top cover (std) | 48mm |

## Standards

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimension)
EN 60950
VDE 0100
EIA-310-D
1U = 44.45mm
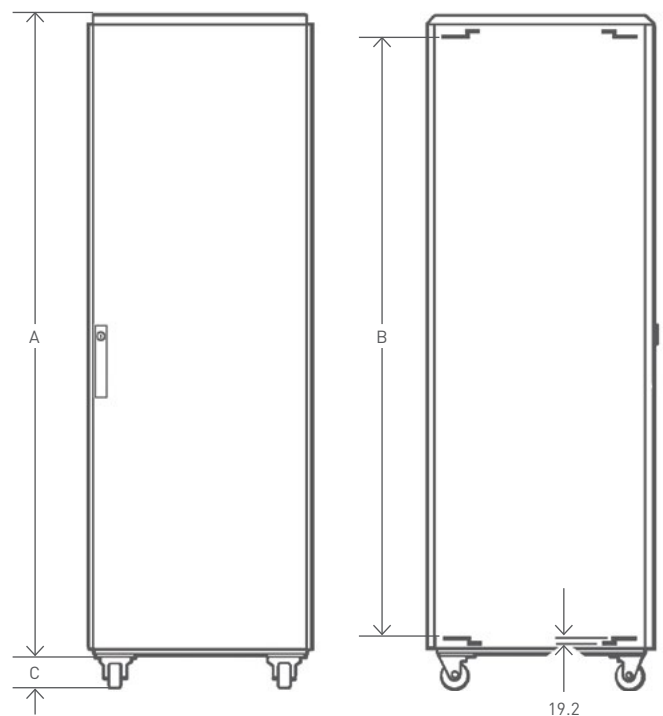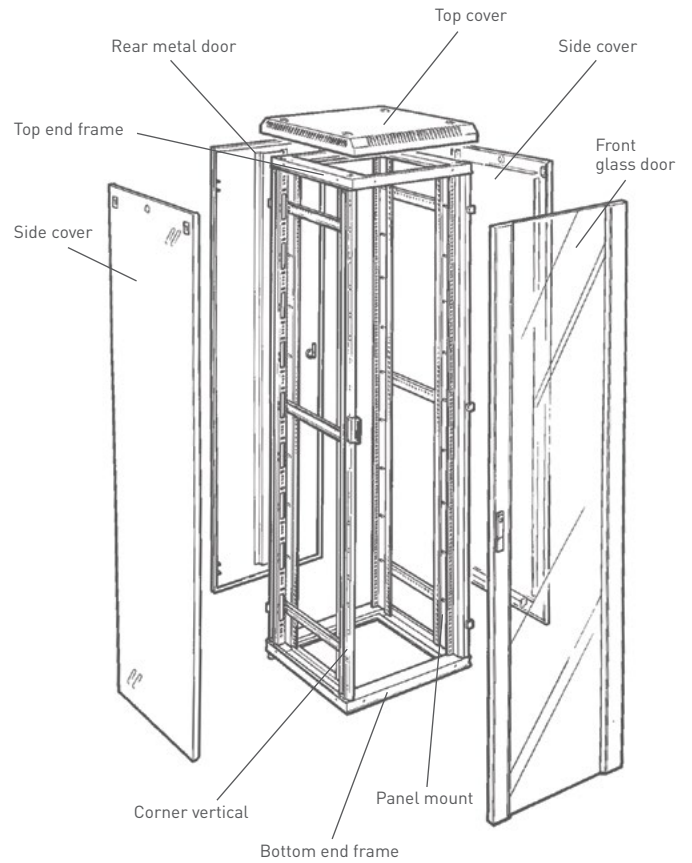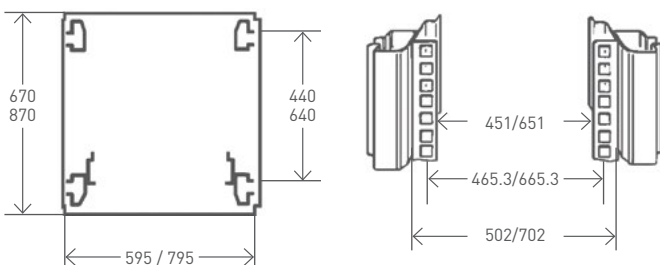
# EZRAK®
# WALL MOUNT CABINET

## Ideal for small office equipment
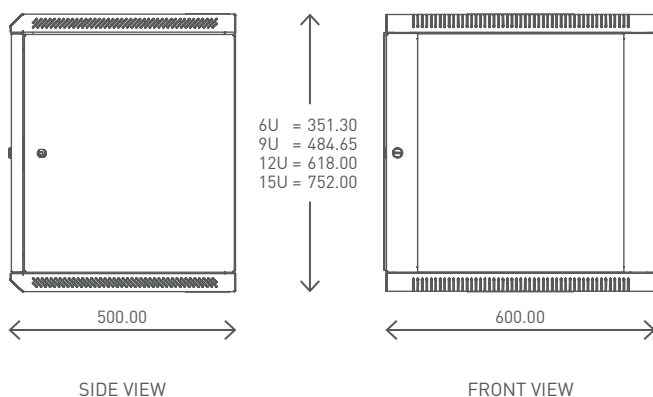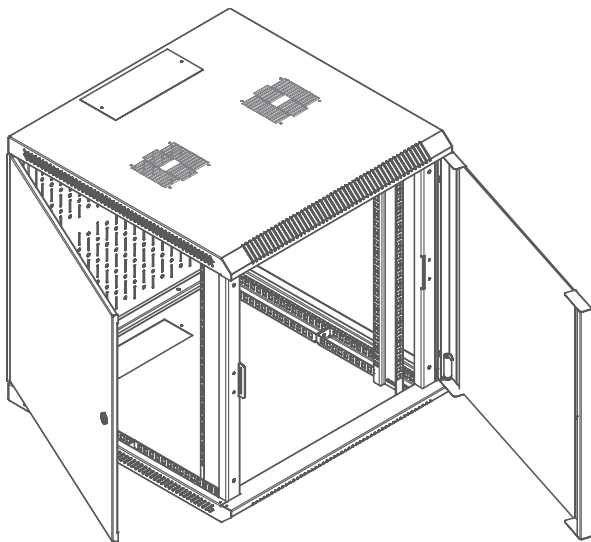


## EzRak® Wall Mount

EzRak® Wall Mount cabinet has been designed to provide a solution where side access is needed during installation, service and maintenance. Cable access from top and bottom provide via removable gland plates. To ensure ventilation options, the wall box has pre-punched fan pattern at the top for up to two exhaust fans. Maximum versatility is provided with removable side panels and front door to ease installation.

## FEATURES

- 4 height options – 6U, 9U, 12U and 15U
- Depth: 500mm (option 600mm)
- Width: 600mm
- Welded frame or knocked down version
- Front and side access
- Quick release reversible safety glass door
- Light weight strong construction
- Adjustable 19˝ panel mounts
- Load rating 40kg
- Fixing kit supplied
- Two tone grey
- Other sizes available upon request
- Green coachline on glass door
- Material: 1.2mm electro galvanised steel



6U   = 351.30
9U   = 484.65
12U = 618.00
15U = 752.00

500.00

600.00

SIDE VIEW

FRONT VIEW

| HEIGHT (U) | DIM# | WxD (mm) 600x500 | WxD (mm) 600x600 |
|---|---|---|---|
| 6U | 351.3 | WB500-6U | WB600-6U |
| 9U | 484.6 | WB500-9U | WB600-9U |
| 12U | 618.0 | WB500-12U | WB600-12U |
| 15U | 752.0 | WB500-15U | WB600-15U |

| Description | Part Number |
|---|---|
| Exhaust Fan | FT-2 |
| 19˝ 5 way 13A socket strip | PDU-005 |
| 19˝ Front Mount Tray -1U | FMT-1U |

# EZSNAP
# BLANKING PANEL

## EzSnap

EzSnap ABS plastic blanking panels help in improving airflow with better thermal management within an enclosure. It also prevent cold air from flowing to the rear through unused RU space in the front. Blanking up all unused RU space with the EzSnap panels give your enclosure the feel of a fully populated enclosure with no more unsightly gaps through the enclosures.

## FEATURES

- Available stock in 1U and 3U panels – Black texture. Other colours available on request with MOQ
- Supplied in Packs of 10 for 1U Panel and 5 for 3U Panel
- Material – ABS Plastic Injection Moulding

## SPECIFICATIONS

- ABS temp range - 40°C to 100°C
- Melting Point - 135°C
- Impact resistance - 71 KJ/m$^2$
- Fits EIA-310D mounting Rail Square Hole
- Standard 19" - 1U and 3U

## INSTALLATION

- Snap on without any tools or screws
- Quick installation / retrofit in existing enclosures
- Pull to remove

Note: You may stick a logo in the center of depression

## ORDERING INFORMATION

| Description | Part Number | Packing |
|---|---|---|
| 1U EzSnap Blanking Panel | EzSnap-1U-B | 1 pack of 10 |
| 3U EzSnap Blanking Panel | EzSnap-3U-B | 1 pack of 5 |

Side view of EzSnap blanking panel

Close up of EzSnap panel

EzSnap – 1U

EzSnap – 1U & 3U

# EZNET® I OPEN FRAME

## An open frame that offers a simple and versatile framework for high capacity patching and cabling



### EzNet® I Open Frame

EzNet® I Open Frame offers a simple and versatile framework for high-capacity patching and cabling.

Our Open Frame is designed as a simple and versatile cabling platform for use in any datacom or telecom environment. The open construction provides a flexible framework for high capacity patching and cabling.

Quick-release external cable rings, large cable windows and top mounted double-slide provide multi-directional pathways for cables within the open frame. In addition, cable windows on either side of the open frame allow easy passage of cables between bayed-up frames.

The base is manufactured from a single piece of aluminium extrusion and has up to 8 holes for mounting the open frame to the floor. It offers a stylish, stable and effective platform for equipment within the open frame.

Two front-mounted removable hinged doors effectively hide the cables managed within the verticals, giving the open frame a more aesthetic appearance.

### CONFIGURATION

- 42U and 45U heights available
- Overall height 42U (2,093.5mm), 45U (2,226.8mm)
- Footprint - width 720mm, depth 459mm
- Suitable for mounting 19" equipment
- Designed for standalone or baying configuration
- Additional upper mounting of frame may be required, depending on floor surface.

### FEATURES

- Open frame construction gives all round access
- Cable management provided in verticals
- Hook-in style external cable rings
- Rigid base made from aluminium extrusion
- Hinged removable doors
- Customised accessories available on request

## ACCESSORIES

- Front mount tray for EzNet
- PN: FMT F140-R440
- 23" 7 way 13A socket strip
- PN: PDU007EzNet

## ORDERING INFORMATION

| Height (U) | Part Number |
|---|---|
| 42U | EN42U |
| 45U | EN45U |

## EzNet® I Open Frame - Dimensions and mounting positions

| Height | DIM 'H' (mm) | DIM 'H1' (mm) |
|---|---|---|
| 42U | 2,093.50 | 1,866.90 |
| 45U | 2,226.85 | 2,000.25 |

| Width (mm) | External | Mounting |
|---|---|---|
| 720 | 720 | 452 |

| Depth (mm) | External |
|---|---|
| 459 | 459 |

## Standards

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimension)
EN 60950
VDE 0100
EIA-310-D
1U = 44.45mm

A (1:5)

B (1:5)

A

B

720.00

137.70

452.00

H

H1

466.30

88.90

650.00

538.00

370.80  243.00

459.00

720.00

Ø12.10
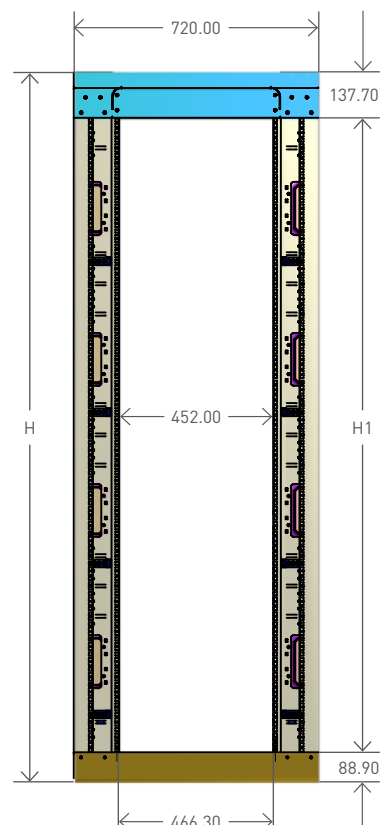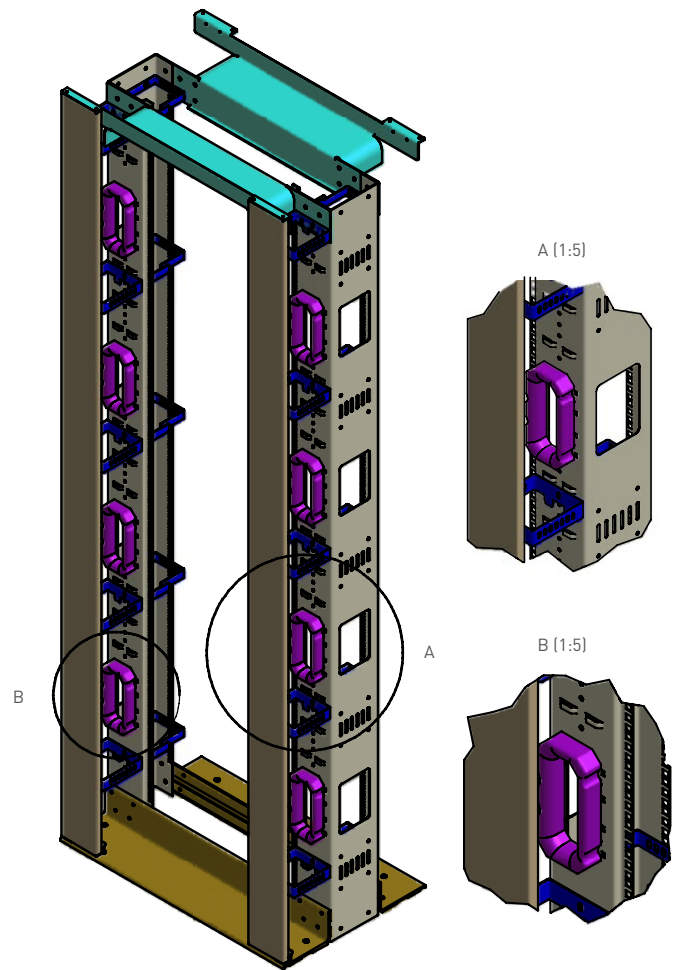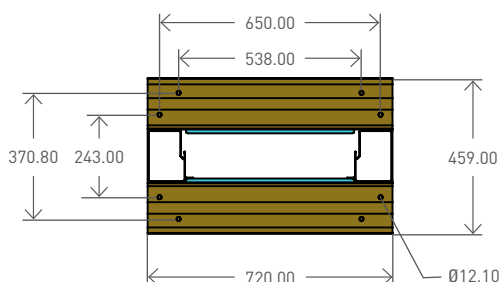
# EZNET® II OPEN FRAME


Cable slide for cascading cables


Swing door


Rubberised cable fingers

## EzNet® II Open Frame

EzNet® II Open Frame is technically designed as a versatile cabling platform for use in any datacom or telecom environment. The construction provides a flexible framework for high capacity patching and cabling.

Large capacity rubberised fingers and top mounted double-slide provide multi-directional pathways for cables within the open frame. Rubberised 3mm steel fingers also protect cables from scratches and enhance strength for large amount of cables.

The base is manufactured from a single piece of aluminum extrusion and has up to 8 holes for mounting the open frame to the floor. It offers a stylish, stable and effective platform for equipment mounted on the open frame.

Two front mounted removable hinged doors effectively hide the cables managed within the verticals giving the open frame a more aesthetic appearance.

## FEATURES

- 2 heights – 42U, 45U
- Material: 2.0mm Electro-Galvanished Steel – JS
- Loading capacity Static Weight Load (SWL) 450kg, when bolted to floor
- Overall height 42U (2,026.7mm), 45U (2,160.05mm)
- Footprint – width 963mm, depth 459mm
- Suitable for mounting 19" equipment
- Designed for standalone or bayed-up configuration
- Large vertical cable management storage
- Sectional Rubberised 3mm Steel fingers protect cables from scratches and enhance strength for large amount of cables
- Rigid base made from aluminum extrusion
- Hinged removable doors

Standard – IEC297-2, DIN41494, part 7, DIN 41491 part 1, EN 60950, VDE 0100, EIA310D
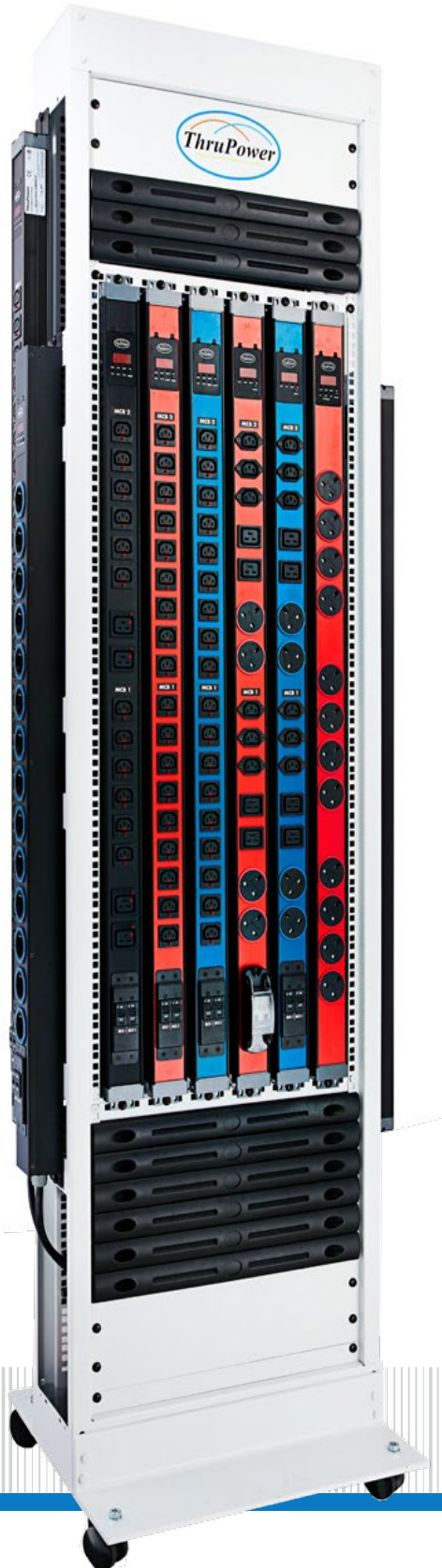
# ORDERING INFORMATION

| Description | 42U P/N | 45U P/N |
|---|---|---|
| Basic Rack Structure, 42U/45U | EZN2-42BSR | EZN2-45BSR |
| Front or Rear Cable Storage Channels 6" | EZN2-42-CS06FR-RCF2 | EZN2-45-CS06FR-RCF2 |
| Front or Rear Cable Storage Channels 8" | EZN2-42-CS08FR-RCF2 | EZN2-45-CS08FR-RCF2 |
| Front or Rear Cable Storage Channels 10" | EZN2-42-CS10FR-RCF2 | EZN2-45-CS10FR-RCF2 |
| Front or Rear Cable Storage Channels 12" | EZN2-42-CS12FR-RCF2 | EZN2-45-CS12FR-RCF2 |
| Cable Fingers Rubberised (Top & Bottom) 42U/45U | CFR-42 | CFR-45 |
| Top Adjustable Curve Cable Guide | EZN2-TACG | EZN2-TACG |

# EzNet® II Open Frame - Dimensions and mounting positions

| Height | DIM 'H' (mm) | DIM 'H1' (mm) |
|---|---|---|
| 42U | 2,026.70 | 1,870.90 |
| 45U | 2,160.05 | 2,004.25 |

| Cable Storage Channel | Width (mm) | Depth (mm) |
|---|---|---|
| 6" | 150 | 230 |
| 8" | 200 | 230 |
| 10" | 250 | 230 |
| 12" | 300 | 230 |

| Basic Depth (mm) |
|---|
| 460 |
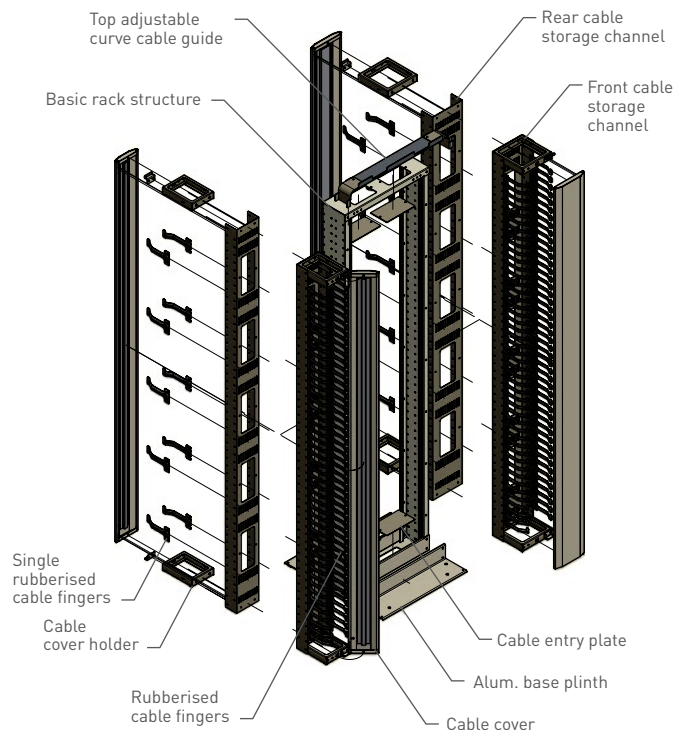
# Standards

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimension)
EN 60950
VDE 0100
EIA-310-D
1U = 44.45mm



Top adjustable curve cable guide
Rear cable storage channel
Front cable storage channel
Basic rack structure
Single rubberised cable fingers
Cable cover holder
Rubberised cable fingers
Cable entry plate
Alum. base plinth
Cable cover
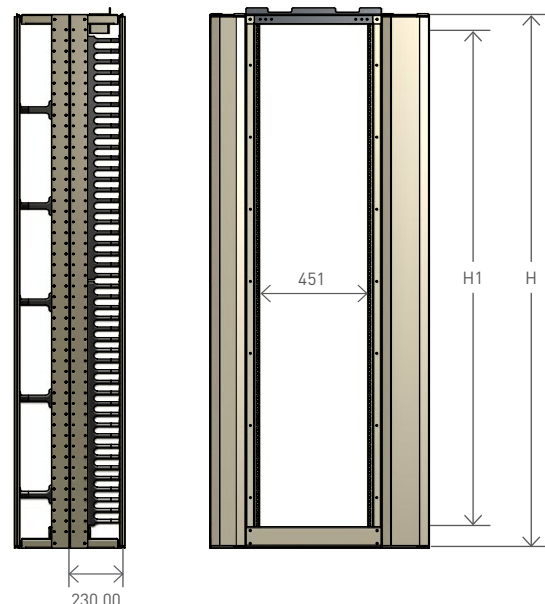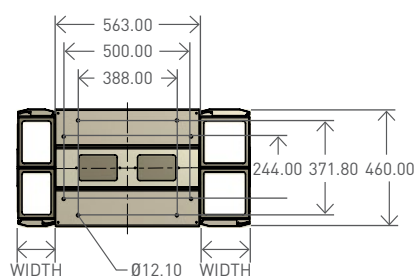
# THRUPOWER®
# POWER DISTRIBUTION UNIT



## ThruPower® PDU

ThruPower® PDU provides a convenient distribution of power availability in the cabinet with different power socket type and combination for equipment connected to the PDU. The PDU comes with MCB option for safety and digital power meter display option which provides additional information for users' peace of mind.

## FEATURES

- Using robust aluminium extrusion enclosure
- Multiple mounting methods
- Superior grade components
- Different socket type - UK 13A, 15A, IEC C13, C19
- Different Input Rating - 13A, 16A & 32A
- Volts, Amperes, Watts, Power Factor, Kilowatt/Hour, Load Hour display options
- MCB single pole or double pole option
- Earthing connect feature
- Lockable IEC Sockets (option)
- Single & 3-phase PDU

## BENEFITS

- Modular and Scaleable (1-30 outlets)
- Easy to install
- Reliable connectivity
- Built in safety features
- Uninterrupted power to equipment even if Ammeter display fails
- Hot swap replacement of Ammeter display upon failure

## SPECIFICATIONS

- Input Type       : UK 3-pin, IEC 60309 16A, 32A plugs, IEC 60320, C20 plugs
- Outlet Type      : UK BS 1363 (13A), BS 546 (15A); IEC60320, C13 (10A), C19 (16A)
- Protection       : MCB
- Protection Option : ELCB, Surge Protector
- Local Meter      : True RMS Digital Ammeter
- Rating           : Up to 32A, 240Vac

Blue Cable

Red Cable

RM Meter



Ammeter IIe

Ammeter 3PH
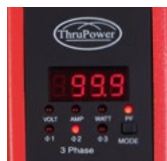
Ammeter III

## ThruPower® Ammeter

ThruPower® Ammeter is a modular Energy Meter which has the capability of measuring rms values and displaying readings for **Voltage (V), Current (A), Watts (W) and Power Factor**. Display can either be continuously cycle at 5 seconds interval or static display of the readings that user selects. Mode button provides switching between readings.

## FEATURES

- Displays & Measurement of AC rms voltage, current, active (real) power and power factor
- Universal 210-265Vac (47-63Hz) operation with AC Input on plug-on terminal
- Hot swappable without affecting existing operation
- Mode push button switch between display of voltage, current, watts and power factor
- Auto scrolling of display of Volts, Amps, Watts and Power Factor Measurements
- RoHS compliant from manufacturer

## Measuring Specifications

| Measurement | Units | Ammeter IIe | | Ammeter III | | Ammeter 3PH | | RM Meter | |
|---|---|---|---|---|---|---|---|---|---|
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| AC Voltage (rms) | Volt | 210.00 | 265.00 | 210.00 | 265.00 | 210.00 | 265.00 | 210.00 | 265.00 |
| AC Current | Ampere | 0.00 | 32.00 | 0.00 | 32.00 | 0.00 | 32.00 | 0.00 | 32.00 |
| Active Power | Watt | 0.00 | 9999 | 0.00 | 9999 | 0.00 | 9999 | 0.00 | 9999 |
| Power Factor | – | 0 | 0.99 | 0 | 0.99 | 0 | 0.99 | 0 | 0.99 |
| Branch Metering | – | √ | | × | | × | | √ | |
| Kilowatts Per Hour | kWh | × | | √ | | × | | √ | |
| Load-Hour | Ld Hr | × | | √ | | × | | × | |
| 3 Phase Metering | – | × | | × | | √ | | × | |
| Remote Monitoring | – | × | | × | | × | | √ | |
| Master-Slave Link | – | × | | × | | × | | √ | |
| Temperature | Celsius | × | | × | | × | | √ | |



IEC C13

UK Socket
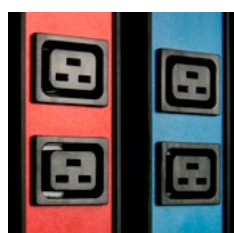
IEC C19
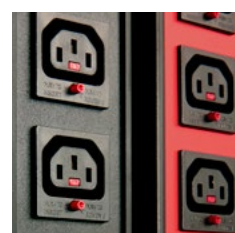
Lockable IEC

MCB

# MODULAR SUITE SYSTEM

**A modular suite for Optimised Site Management which offers security, scalability and modularity. It is capable of adapting to rapid and yet difficult to forecast volume growth.**



## A Modular Suite for Optimised Site Management

The modular suite addresses the requirement for a totally modular system that enables the effective and secure segregation of customers and equipment, while retaining unlimited scalability. A range of three panel widths allows limitless combinations, and the use of standard components makes rapid expansion a simple process. It is available as a standard with vented panels and a lock sliding door. Other locking options can be specified, catering to all levels of security requirements.

The modular suite is available in an attractive combination of charcoal (infill panels) and black finishes (pillar and top rails) that ideally complement most contemporary enclosures. Additionally, the modular suite can be manufactured in your chosen corporate colour. It has been designed and only requires small number of components with our professional team to complete any installation very rapidly.

SJ is the recognised partner to the web hosting community, specialising in optimised enclosure solutions for data center facilities across the region. As a highly versatile solution for the effective housing of unlimited amount of IT equipment, the modular suite is the ideal addition to our range of innovative enclosures.

Square Hole Pattern

# FEATURES

- Height – 2.4 meters of customised height
- Panel widths – 300mm, 600mm and 900mm
- Gap from floor base of panels – 25mm
- Colours – Charcoal (infill panels) and black (pillars and top rails)
- Standard vented panels or customised
- Standard sliding door with lock device
- Optional key and electronic locking systems
- Rapid and professional installation
- Modular design, easily expandable
- Standard 3m x 3.6m and 6m x 6m set configurations available
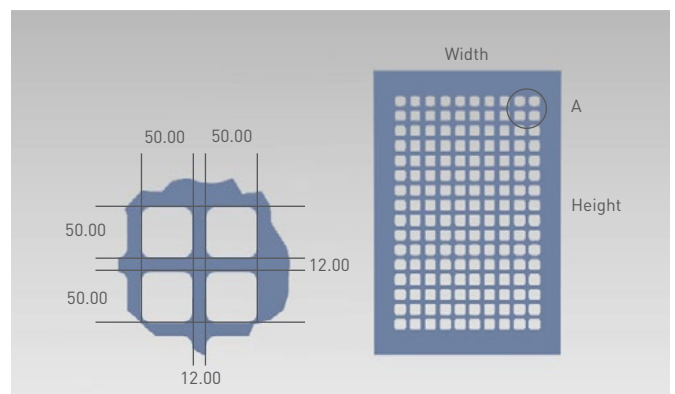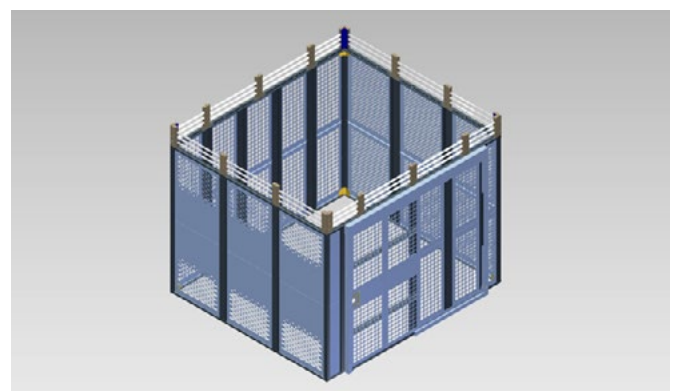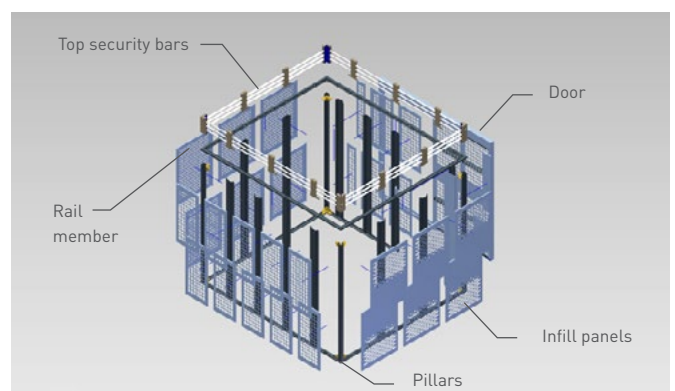


Modular Suite



Modular Suite Exploded View

# COLD AISLE CONTAINMENT

## Thermal Management Solution with energy efficiency cooling system for data center

Dealing with data center temperature problems can be quite challenging when there is zero downtime windows. SJ Cold Aisle containment is specially designed for today's data center cooling systems. Its unique airflow management strategy can produce significant and measurable economic benefits.

Cold aisle containment are designed to allow cool air to rise from the plenum under the raised floor, through perforated floor tiles. In the cold aisle, the server or equipment racks are arranged to face each other so that the cool air passes through the perforated floor tiles and into the front of the racks. Hot air is expelled at the rear of the rack and directed back to the CRAC system within the data center.
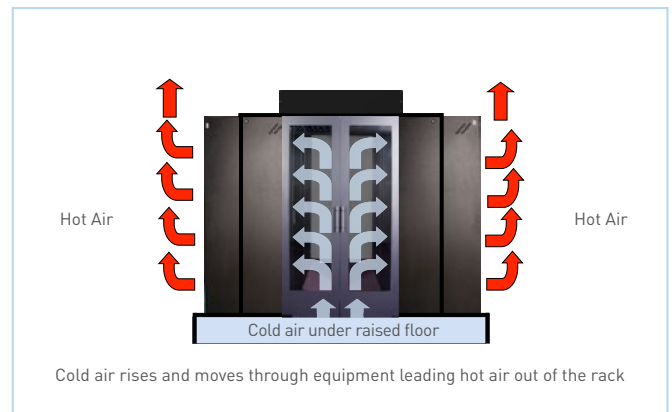
## ADVANTAGES

- Prevention of 'air short circuits' (mixing of cold & hot air) and thereby improving energy efficiency
- Uniform temperature across cabinet height (within containment)
- Increased heat dissipation & better heat management
- Reduction of operational expenditure (OPEX)
- Increased of Mean Time Between Failure (MTBF) of equipment
- Cost saving solution
- Elimination of hot spots within the aisles
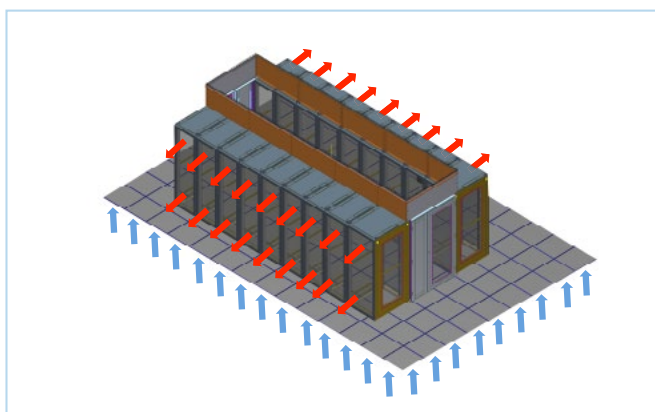
## FEATURES & ACCESSORIES

- A – Polycarbonate Snap-on Roof Panels
- B – Roof Supporting Bracket
- C – Roof Center Supporting Bracket
- D – Sliding Perspex Door Frame with Door Seal
- Perforated raised floor tiles
- Airboost Floor Fan Unit
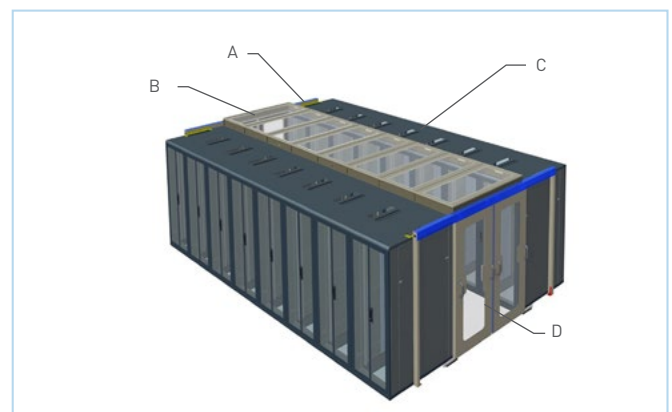- 1U / 3U EzSnap Blanking Panel
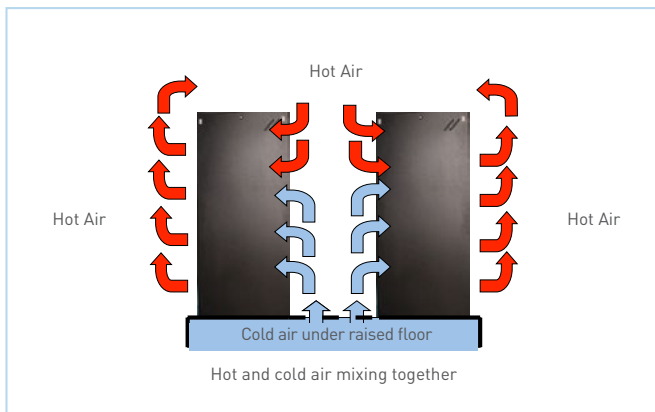
**Without Cold Aisle Containment (Elevation View)**

Hot Air · Hot Air · Hot Air

Cold air under raised floor

Hot and cold air mixing together

**With Cold Aisle Containment (Elevation View)**

Hot Air · Hot Air

Cold air under raised floor

Cold air rises and moves through equipment leading hot air out of the rack
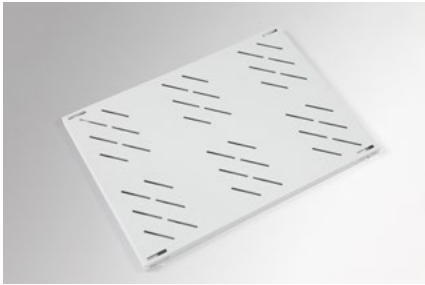
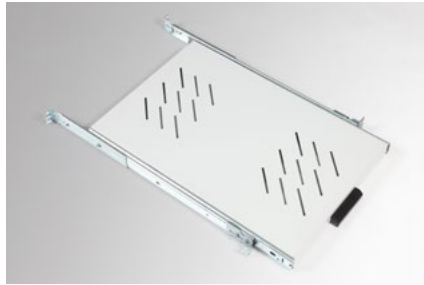**Without Cold Aisle Containment (Perspective View)**

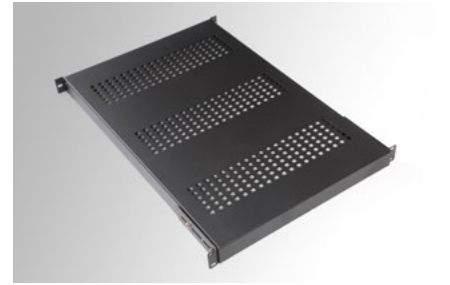**With Cold Aisle Containment (Perspective View)**

# RACK ACCESSORIES

Equipment Tray

Sliding Tray

Adjustable Tray

Retention Bobbin
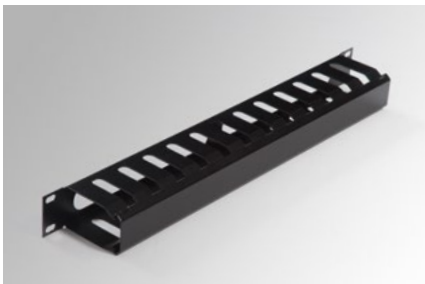
Window Moulding

Top Fan Tray

Heavy Duty Castor

1U & 3U EzSnap

Front Mount Tray

ABS Cable Management Panel

Chassis Runner

Metal Cable Ring/
19" Panel with Cable Rings

A Group brand | **legrand**

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