IMRAK®
The 19" Stand Alone Cabinet

DESIGN
AWARD
WINNER

INDUSTRIE FORUM
DESIGN HANNOVER

IMRAK®
Overview

Material specification

- **Frame:** Steel 1.5 mm
- **Panel mounting angles and reducing channels:** Steel 2.0 mm
- **Panel mount supports:** Steel 1.5 mm
- **Side / rear panels:** Steel 1.0 mm
- **Top cover:** Steel 1.0 mm
- **Metal doors:** Steel 1.0 mm
- **Glass doors:** Steel 1.2 mm
- **Glass:** Tempered 4.0 mm UNI EN1250.1

Standards

IEC 60297:	Dimensions of mechanical structures of the 482.6 mm (19") series
DIN 41494:	Basic specification for the 19" construction systems
EN 60950:	European safety standard for information technology equipment
VDE 0100:	Installation and Set up of current systems and earthing
DIN-1249-11:	Glass in building; glass edges

Colour specification

Standard

RAL 7035
Cabinet frame, side panels, panel mount supports and 19" panel mounting angles

RAL 7037
Top cover, front and rear doors

Optional

RAL 7016
Top cover, front and rear doors, side panels

RAL 9005
Cabinet frame, panel mount supports and 19" panel mounting angles

Contents

IMRAK® 1400 dimensions

Floor version
Depth: 600 - 800 mm   Width: 600 - 800 mm
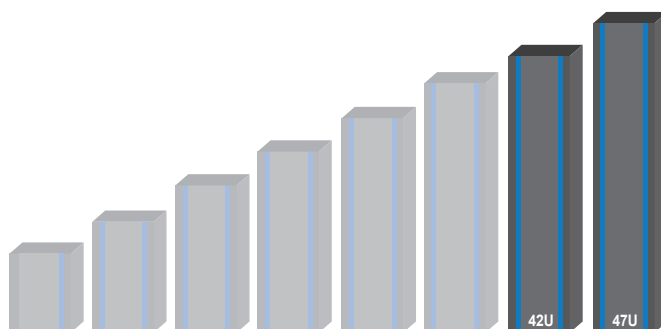
* Minimum order quantity = 10

12U 17U 22U 27U 32U 37U 42U 47U
*   *   *   *

IMRAK® ServerMax dimensions

Floor version
Depth: 1000 mm   Width: 600 - 800 mm

42U 47U

Introduction to IMRAK® 1400

Since its introduction in the early 1990's, the award-winning IMRAK® 1400 enclosure range has enjoyed considerable success in the international networking and broadcasting markets. The widespread acceptance of IMRAK® 1400 among installers and end-users across the world lies in the inherent qualities of the enclosure platform, from its superior build quality to a vast array of accessories. IMRAK® 1400 is a particularly versatile 19" enclosure system that can be configured to adapt to very stringent and varied applications in the evolving electronic data communications industrial. IMRAK® 1400 is also exceptionally rugged and strong, allowing its users to ship fully equipped enclosures overseas. The cabinet's frame structure is bolted together, allowing the enclosure to be disassembled in situations where access is difficult. IMRAK® 1400 boasts attractive styling, finished in pale and dusty grey (RAL 7035/7037), making it equally suitable for office, equipment or communications rooms. Optional cover trims maintain the cabinet's elegant appearance when the front door is not required. Thermal management solutions, (including intelligent fan trays), and numerous locking options give almost limitless applications, on the market IMRAK® 1400 probably the most versatile enclosure available.

IMRAK® 1400 - dimensions and mounting positions

Dimensions

Height	Dim 'A' mm	Dim 'B' mm
12U*	620.1	533.4
17U*	842.4	755.7
22U*	1064.6	977.9
27U	1286.9	1200.2
32U*	1509.1	1422.4
37U	1731.4	1644.7
42U	1953.6	1866.9
47U	2175.9	2089.2

* Minimum order quantity = 10

Description

	Dim 'C' mm
Heavy duty castor	92.1
Light duty castor	66.0
Light duty castor - braked	66.0
Adjustable feet	25 (min.) – 40 (max.)
High top and high to side vented	Add 24 mm
Adjustable foot adaptors	Add 56 mm
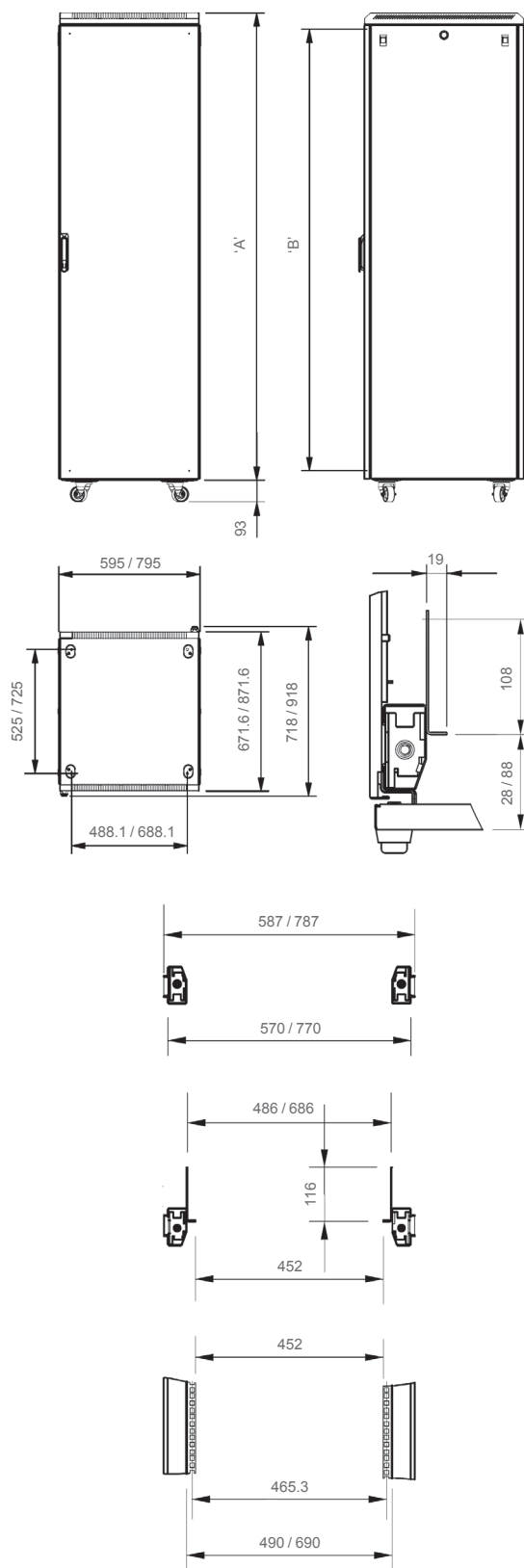
600 / 800 mm

IMRAK®
Primary rack builds

The IMRAK® 1400 Primary is a ready configured enclosure available in the most popular sizes with predefined cladding. One order code provides a complete cabinet ideal for many applications. It can also be used as the starting point for creating a unique configured enclosure, by adding additional accessories. The cabinets IMRAK® have static load capacity of 1000 Kg.

To be used with:
- All rack accessories (fixed & sliding shelves etc.)
- Top mounted fan trays
- Power and cable management accessories
- Castors, adjustable feet and plinths
- Earthing kits

IMRAK® - Primary rack

### Contents of kit - Primary rack

Description	Qty	Material	Finishes
Open frame	1	1.5 mm steel	Light grey RAL 7035
Glass door	1	1.0 mm steel 4.0 mm toughened, tinted, glass	Dusty grey RAL 7037
Steel door	1	1.0 mm steel	Dusty grey RAL 7037
Side panels	1 pair	1.0 mm steel	Light grey RAL 7035
Side vented top cover	1	1.0 mm steel	Dusty grey RAL 7037
19" Panel mounts	2 pairs	2.0 mm steel	Light grey RAL 7035
Reducing cable channels (only on 800 mm wide cabinets)	2 pairs	2.0 mm steel	Light grey RAL 7035
Panel mount supports from 12U to 37U 2 pairs 42U & 47U 3 pairs	2 / 3 pairs	1.5 mm steel	Light grey RAL 7035

Contents of kit - Primary rack additional bay

Description	Qty	Material	Finishes
Open frame	1	1.5 mm steel	Light grey RAL 7035
Glass door	1	1.0 mm steel 4.0 mm toughened, tinted, glass	Dusty grey RAL 7037
Steel door	1	1.0 mm steel	Dusty grey RAL 7037
Baying kit	1 kit	1.5 mm steel	Light grey RAL 7035
Vertical baying trim	1 pair	1.0 mm steel	Light grey RAL 7035
Side vented top cover	1	1.0 mm steel	Dusty grey RAL 7037
19" Panel mounts	2 pairs	2.0 mm steel	Light grey RAL 7035
Reducing cable channels (only on 800 mm wide cabinets)	2 pairs	2.0 mm steel	Light grey RAL 7035
Panel mount supports from 12U to 37U 2 pairs 42U & 47U 3 pairs	2 / 3 pairs	1.5 mm steel	Light grey RAL 7035

Ordering information

Height x Width x Depth	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code
27U 600 x 600 primary	1	65.3	VT804-2213701
27U 600 x 600 additional	1	52.0	VT804-2213711
27U 600 x 800 primary	1	74.8	VT804-2213721
27U 600 x 800 additional	1	56.3	VT804-2213731
27U 800 x 600 primary	1	92.2	VT804-2213705
27U 800 x 600 additional	1	78.9	VT804-2213715
27U 800 x 800 primary	1	103.0	VT804-2213725
27U 800 x 800 additional	1	84.5	VT804-2213735
37U 600 x 600 primary	1	84.0	VT804-2213702
37U 600 x 600 additional	1	65.8	VT804-2213712
37U 600 x 800 primary	1	95.2	VT804-2213722
37U 600 x 800 additional	1	70.0	VT804-2213732
37U 800 x 600 primary	1	119.3	VT804-2213706
37U 800 x 600 additional	1	101.1	VT804-2213716
37U 800 x 800 primary	1	131.9	VT804-2213726
37U 800 x 800 additional	1	106.7	VT804-2213736
42U 600 x 600 primary	1	95.4	VT804-2213703
42U 600 x 600 additional	1	74.8	VT804-2213713
42U 600 x 800 primary	1	107.9	VT804-2213723
42U 600 x 800 additional	1	79.3	VT804-2213733
42U 800 x 600 primary	1	140.3	VT804-2213707
42U 800 x 600 additional	1	119.7	VT804-2213717
42U 800 x 800 primary	1	154.1	VT804-2213727
42U 800 x 800 additional	1	125.5	VT804-2213737
47U 600 x 600 primary	1	105.3	VT804-2213704
47U 600 x 600 additional	1	82.3	VT804-2213714
47U 600 x 800 primary	1	118.7	VT804-2213724
47U 600 x 800 additional	1	86.8	VT804-2213734
47U 800 x 600 primary	1	160.7	VT804-2213708
47U 800 x 600 additional	1	137.7	VT804-2213718
47U 800 x 800 primary	1	175.4	VT804-2213728
47U 800 x 800 additional	1	143.5	VT804-2213738
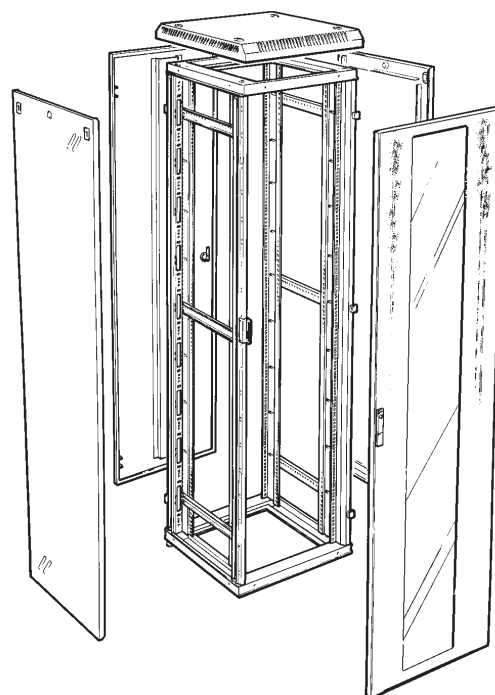
IMRAK® Primary Rack
600 mm
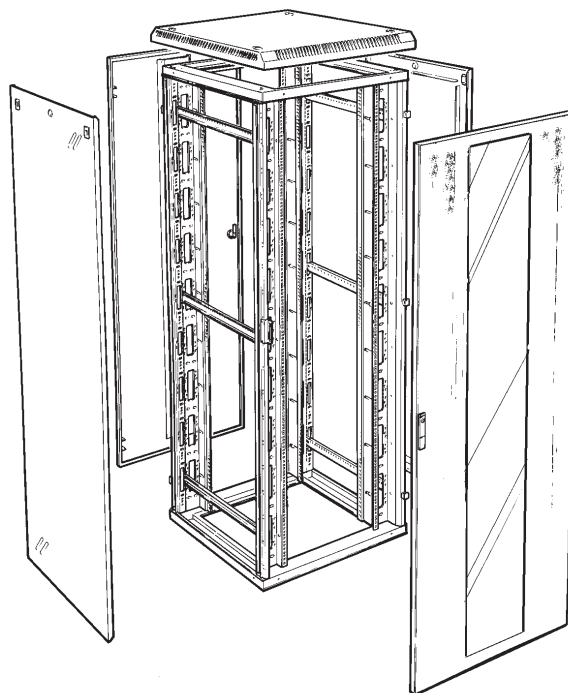
IMRAK® Primary Rack
800 mm

IMRAK® - 17U execution
800 mm wide

IMRAK®
ServerMax Primary rack builds

The IMRAK® ServerMax Primary is a ready configured enclosure, pre-equipped with the most popular components. One order code gives you a complete cabinet ideal for housing active equipment, electronics and servers. It can also be used as the starting point for creating a unique configured enclosure, by adding additional accessories.
The IMRAK® ServerMax has static load capacity of 1000 Kg.

To be used with:
• All rack accessories (fixed & sliding shelves etc.)
• Top mounted fan trays
• Power and cable management accessories
• Castors, adjustable feet and plinths
• Earthing kits

IMRAK® - ServerMax Primary rack

Contents of Primary rack kit

Description	Qty	Material	Finishes	
Open frame	1	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Front door - glass vented or steel perforated	1	1.0 mm steel 4.0 mm toughened, tinted, glass	Dusty grey RAL 7037 plus grey tinted glass	Anthracite RAL 7016
Rear door - Double steel perforated	1	1.0 mm steel	Dusty grey RAL 7037	Anthracite RAL 7016
Side panels	1 pair	1.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016
Fully vented top cover with cable access panel	1	1.0 mm steel	Dusty grey RAL 7037	Anthracite RAL 7016
19" Panel mounts	2 pairs	2.0 mm steel	Light grey RAL 7035	Black RAL 9005
Reducing cable channels (only on 800 mm wide cabinets)	2 pairs	2.0 mm steel	Light grey RAL 7035	Black RAL 9005
Panel mount angle spacer kit (only on 600 mm wide cabinets)	6 pairs	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Panel mount supports 6 pairs	6 pairs	1.5 mm steel	Light grey RAL 7035	Black RAL 9005

Contents of kit - Primary rack additional bay

Description	Qty	Material	Finishes	
Open frame	1	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Front door - glass vented or steel perforated	1	1.0 mm steel 4.0 mm toughened, tinted, glass	Dusty grey RAL 7037 plus grey tinted glass	Anthracite RAL 7016
Rear door - Double steel perforated	1	1.0 mm steel	Dusty grey RAL 7037	Anthracite RAL 7016
Baying kit	1 kit	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Vertical baying trim	1 pair	1.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016
Fully vented top cover with cable access panel	1	1.0 mm steel	Dusty grey RAL 7037	Anthracite RAL 7016
19" Panel mounts	2 pairs	2.0 mm steel	Light grey RAL 7035	Black RAL 9005
Reducing cable channels (only on 800 mm wide cabinets)	2 pairs	2.0 mm steel	Light grey RAL 7035	Black RAL 9005
Panel mount angle spacer kit (only on 600 mm wide cabinets)	6 pairs			
Panel mount supports 6 pairs	6 pairs	1.5 mm steel	Light grey RAL 7035	Black RAL 9005

Technical features of IMRAK® ServerMax Size

Load capacity
IMRAK® ServerMax has been tested to ensure that in a static situation even the tallest cabinet (47U) can safely be fully loaded with 21 Kg per 'U'.

Thermal management
The perforated top cover and steel doors have an open area of 63% to ensure the minimum resistance to free moving air. Additional forced cooling can be added via zero 'U'' height top mounted fan trays.

Data and power cable management
Space has been provided at the rear of the 19" unit to allow a working area for the power management and data cables.
Cable access has also been provided in the top cover that does not restrict the use of top mounted fan trays.

### Multi-platform solutions for rack mounted servers
The rear 19" panel mounts are split into three independently adjustable sections to allow for three different lengths of server mounting slides to be fitted. In the 42U the rear rails are split into three 14U section, in the 47U cabinet , two 14U and one 19U rear 19" panel mounts are fitted.
The cross sectional dimensions of the 19" Panel Mounts also correspond with HP mounting rails which allows even the largest HP rack mounted servers, that require the slides to be fixed on the front 19" mounted surface and side fixing, to be fitted.

Ordering information

Primary cabinets with fully perforated steel front doors	M.O.Q.	Net weight for kit	Light grey RAL 7035	Anthracite RAL 7016
Height x depth		(Kg)	Order code	Order code
42U 600 x 1.000 prim.	1	120.7	VT804-339953	VT804-339961
42U 600 x 1.000 addit.	1	84.1	VT804-339969	VT804-339977
42U 800 x 1.000 prim.	1	155.6	VT804-339954	VT804-339962
42U 800 x 1.000 addit.	1	119.0	VT804-339970	VT804-339978
47U 600 x 1.000 prim.	1	131.7	VT804-339955	VT804-339963
47U 600 x 1.000 addit.	1	90.9	VT804-339971	VT804-339979
47U 800 x 1.000 prim.	1	170.2	VT804-339956	VT804-339964
47U 800 x 1.000 addit.	1	129.4	VT804-339972	VT804-339980

Primary cabinets with vented glass front doors	M.O.Q.	Net weight for kit	Light grey RAL 7035	Anthracite RAL 7016
Height x depth		(Kg)	Order code	Order code
42U 600 x 1.000 prim.	1	125.2	VT804-2213741	VT804-2213745
42U 600 x 1.000 addit.	1	88.6	VT804-2213751	VT804-2213755
42U 800 x 1.000 prim.	1	167.9	VT804-2213743	VT804-2213747
42U 800 x 1.000 addit.	1	131.3	VT804-2213753	VT804-2213757
47U 600 x 1.000 prim.	1	137.0	VT804-2213742	VT804-2213746
47U 600 x 1.000 addit.	1	96.2	VT804-2213752	VT804-2213756
47U 800 x 1.000 prim.	1	190.0	VT804-2213744	VT804-2213748
47U 800 x 1.000 addit.	1	149.2	VT804-2213754	VT804-2213758
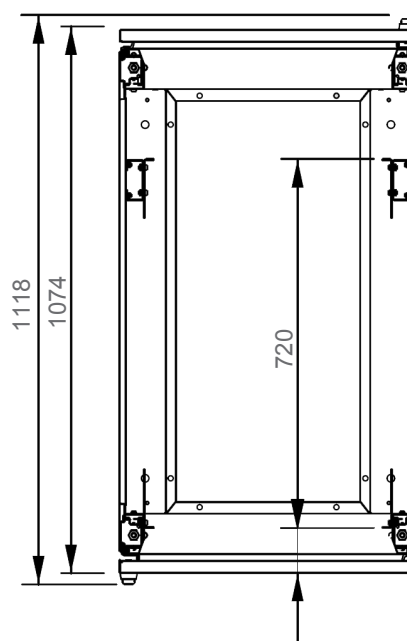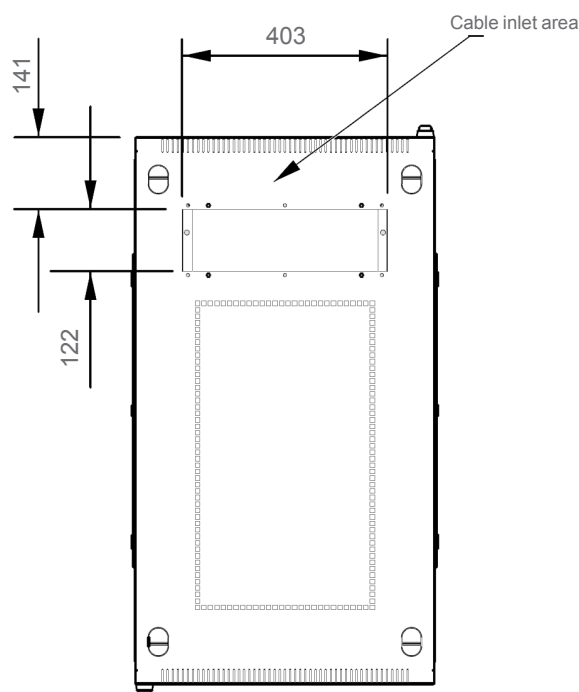
IMRAK®
Rack builds

Open frame

The IMRAK® Open Frame is available in the standard heights of 27U, 37U 42U and 47U. The non-preferred heights of 12U, 17U, 22U and 32U are available with a minimum order quantity (MOQ) of 10. The open frame is supplied assembled. The load capacity is 1.000 Kg.
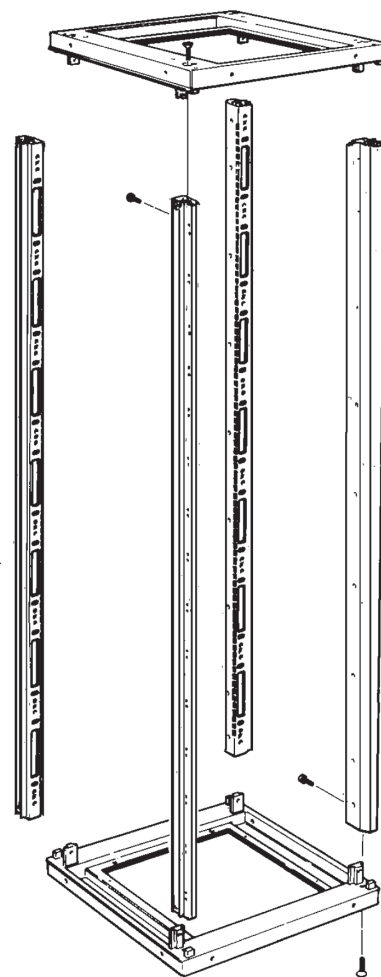
To be used with
The IMRAK® open frame can be used as the starting point to configure a unique IMRAK® configuration and as a result is used with the entire IMRAK® range of components and accessories. These unique 'configured' cabinets are supplied assembled from APW.

Contents of kit

Description	Qty	Material	Finishes	
Verticals	4	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
End frames	2	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
M10 bolts	8	Steel	Zinc plated	
M6 screws	8	Steel	Zinc plated	

Ordering information

Height x Width x Depth	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code
12U 600 x 600 mm	10	13.5	VT804-550001	on request
12U 600 x 800 mm	10	16.0	VT804-550002	on request
17U 600 x 600 mm	10	15.5	VT804-550021	on request
17U 600 x 800 mm	10	18.0	VT804-550022	on request
22U 600 x 600 mm	10	17.5	VT804-550041	on request
22U 600 x 800 mm	10	20.0	VT804-550042	on request
27U 600 x 600 mm	1	19.5	VT804-550061	on request
27U 600 x 800 mm	1	22.0	VT804-550062	on request
27U 800 x 600 mm	1	22.0	VT804-550245	on request
27U 800 x 800 mm	1	25.3	VT804-550246	on request
32U 600 x 600 mm	10	21.5	VT804-550081	on request
32U 600 x 800 mm	10	24.0	VT804-550082	on request
32U 800 x 600 mm	10	24.0	VT804-550265	on request
32U 800 x 800 mm	10	27.3	VT804-550266	on request
37U 600 x 600 mm	1	23.5	VT804-550101	on request
37U 600 x 800 mm	1	26.0	VT804-550102	on request
37U 800 x 600 mm	1	26.0	VT804-550285	on request
37U 800 x 800 mm	1	29.3	VT804-550286	on request
42U 600 x 600 mm	1	25.5	VT804-550121	on request
42U 600 x 800 mm	1	28.0	VT804-550122	on request
42U 600 x 1.000 mm	1	30.5	VT804-339989	VT804-339985
42U 800 x 600 mm	1	28.0	VT804-550305	on request
42U 800 x 800 mm	1	31.3	VT804-550306	on request
42U 800 x 1.000 mm	1	34.6	VT804-339990	VT804-339986
47U 600 x 600 mm	1	27.5	VT804-550141	on request
47U 600 x 800 mm	1	30.0	VT804-550142	on request
47U 600 x 1.000 mm	1	32.5	VT804-339991	VT804-339987
47U 800 x 600 mm	1	30.0	VT804-550325	on request
47U 800 x 800 mm	1	33.3	VT804-550326	on request
47U 800 x 1.000 mm	1	36.6	VT804-339992	VT804-339988

Side panels

Strong, lightweight side panels are easily fitted into position using smooth action slam latches. A center grommet may be removed and replaced with a lock if required.

To be used with:
• An IMRAK® frame of the same height and depth
• Side panel kit if required
• Earthing kits if required

Contents of kit

Description	Qty	Material	Finishes	
Side panels	2	1.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016
Slam latches	4	Plastic	Dusty grey RAL 7037	Black RAL 9005
Lock hole blanks	2	Plastic	Dusty grey RAL 7037	Black RAL 9005

Ordering information

Height x Depth	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Anthracite RAL 7016 Order code
12U x 600 mm	10	7.2	VT802-560283	on request
12U x 800 mm	10	9.6	VT802-560284	on request
17U x 600 mm	10	10.0	VT802-560303	on request
17U x 800 mm	10	13.3	VT802-560304	on request
22U x 600 mm	10	12.8	VT802-560323	on request
22U x 800 mm	10	17.0	VT802-560324	on request
27U x 600 mm	1	15.5	VT802-560343	on request
27U x 800 mm	1	20.7	VT802-560344	on request
32U x 600 mm	10	18.3	VT802-560363	on request
32U x 800 mm	10	24.4	VT802-560364	on request
37U x 600 mm	1	21.1	VT802-560383	on request
37U x 800 mm	1	28.1	VT802-560384	on request
42U x 600 mm	1	23.9	VT802-560403	on request
42U x 800 mm	1	31.8	VT802-560404	on request
42U x 1.000 mm	1	39.8	VT802-343025	VT802-343027
47U x 600 mm	1	26.6	VT802-560423	on request
47U x 800 mm	1	35.5	VT802-560424	on request
47U x 1.000 mm	1	44.4	VT802-343026	VT802-343028

IMRAK®

Doors

Plain steel & glass doors

Doors suitable for the front or rear of IMRAK® are available in metal and glass. Shorter doors can also be fitted to provide space above or below the door for accommodating fan units, grills, touch panels or cable entries.

To be used with:
- An IMRAK® frame of the same height and depth with a 5U panel
- Swing handles, locking options including electronic locking. Earthing kits
- Glass door trim, earthing kit (glass door only)

Contents of kit

Description	Qty	Material	Finishes
Doors in the various options	1	1.0 mm steel 4 mm toughen tinted grey glass (6 mm for 42U & 47U x 800 glass doors)	Dusty grey RAL 7037
Door brackets			Light grey RAL 7035

Ordering information

Steel plain doors

Dimensions A x L	M.O.Q.	Net weight for kit (Kg)	Dusty grey RAL 7037 Order code	Anthracite RAL 7016 Order code
12U x 600 mm	10	3.6	VT802-563389	on request
12U x 800 mm	10	4.8	VT802-563397	on request
17U x 600 mm	10	5.0	VT802-563390	on request
17U x 800 mm	10	6.7	VT802-563398	on request
22U x 600 mm	10	6.4	VT802-563391	on request
22U x 800 mm	10	8.5	VT802-563399	on request
27U x 600 mm	1	7.8	VT802-563392	on request
27U x 800 mm	1	10.4	VT802-563400	on request
32U x 600 mm	10	9.2	VT802-563393	on request
32U x 800 mm	10	12.2	VT802-563401	on request
37U x 600 mm	1	10.5	VT802-563394	on request
37U x 800 mm	1	14.1	VT802-563402	on request
42U x 600 mm	1	11.9	VT802-563395	on request
42U x 800 mm	1	15.9	VT802-563403	on request
47U x 600 mm	1	13.3	VT802-563396	on request
47U x 800 mm	1	17.8	VT802-563404	on request

Glass door

Dimensions A x L	M.O.Q.	Net weight for kit (Kg)	Dusty grey RAL 7037 Order code	Anthracite RAL 7016 Order code
12U x 600 mm	10	3.9	VT802-2213111	on request
12U x 800 mm	10	5.5	VT802-2213121	on request
17U x 600 mm	10	5.4	VT802-2213112	on request
17U x 800 mm	10	7.6	VT802-2213122	on request
22U x 600 mm	10	6.9	VT802-2213113	on request
22U x 800 mm	10	9.7	VT802-2213123	on request
27U x 600 mm	1	8.0	VT802-2213114	on request
27U x 800 mm	1	11.8	VT802-2213124	on request
32U x 600 mm	10	9.9	VT802-2213115	on request
32U x 800 mm	10	14.0	VT802-2213125	on request
37U x 600 mm	1	11.0	VT802-2213116	on request
37U x 800 mm	1	16.0	VT802-2213126	on request
42U x 600 mm	1	14.0	VT802-2213117	on request
42U x 800 mm	1	25.0	VT802-2213127	on request
47U x 600 mm	1	16.0	VT802-2213118	on request
47U x 800 mm	1	34.0	VT802-2213128	on request

IMRAK® plain steel door

IMRAK® glass door

www.apw.eu.com

Perforated and vented doors

Perforated single and double doors plus vented glass doors are suitable for the front or rear. IMRAK® is available in two colours. Shortened doors can also be fitted to provide space above or below the door in order to accommodate fan units, grills, different type of panels or cable entries.

To be used with:
• An IMRAK® frame of the same height and depth
• 5U panels
• Lock options include electronic or mechanic locks
• Earthing kits
• Glass door trim, earthing kit (glass door only)

Contents of kit

Description	Qty	Material	Finishes	
Doors in the various options	1 Double doors 1 pair	1.0 mm steel 4mm toughened tinted grey glass (6mm for 47U x 800 glass doors)	Dusty grey RAL 7037	Anthracite RAL 7016
Door brackets			Dusty grey RAL 7037	Black RAL 9005
Fixings				
Swing handle				

Ordering information

Fully perforated steel doors (63% open area)

H x W	M.O.Q.	Net weight for kit (Kg)	Dusty grey RAL 7037 Order code	Anthracite RAL 7016 Order code
42U x 600 mm	1	9.5	VT802-343113	VT802-343119
42U x 800 mm	1	12.7	VT802-343117	VT802-343120
47U x 600 mm	1	10.7	VT802-343114	VT802-343121
47U x 800 mm	1	14.2	VT802-343118	VT802-343122

Double, fully perforated steel doors (63% open area)

H x W	M.O.Q.	Net weight for kit (Kg)	Dusty grey RAL 7037 Order code	Anthracite RAL 7016 Order code
42U x 600 mm	1	11.9	VT802-343123	VT802-343127
42U x 800 mm	1	15.9	VT802-343124	VT802-343129
47U x 600 mm	1	13.4	VT802-343125	VT802-343128
47U x 800 mm	1	17.8	VT802-343126	VT802-343130

Glass vented doors

H x W	M.O.Q.	Net weight for kit (Kg)	Dusty grey RAL 7037 Order code	Anthracite RAL 7016 Order code
42U x 600 mm	1	14.0	VT802-2213297	VT802-2213317
42U x 800 mm	1	25.0	VT802-2213307	VT802-2213327
47U x 600 mm	1	16.0	VT802-2213298	VT802-2213318
47U x 800 mm	1	34.0	VT802-2213308	VT802-2213328
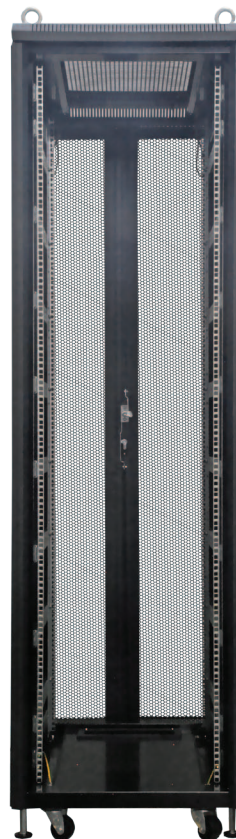
IMRAK® double perforated door - RAL 9005

IMRAK® vented glass door

IMRAK®
Baying kits and baying trims

Baying kit

The baying kit is designed for connecting two IMRAK®'s side by side.
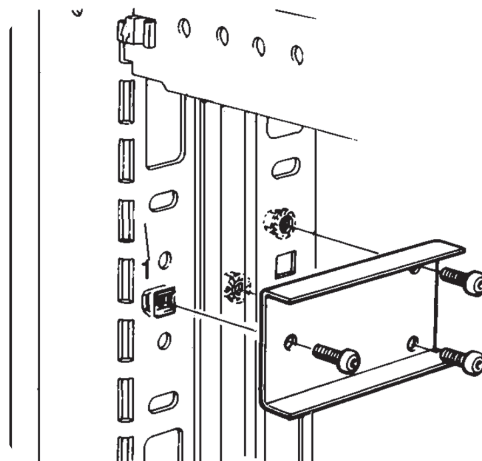
To be used with:
• Two IMRAK® frames
• Vertical & horizontal baying trims are recommend when baying IMRAK®'s together.

Contents of kit

Description	Qty	Material	Finishes	
			Light grey RAL 7035	Black RAL 9005
Baying kit	4	2.0 mm steel		
Fixings	4			

Ordering information

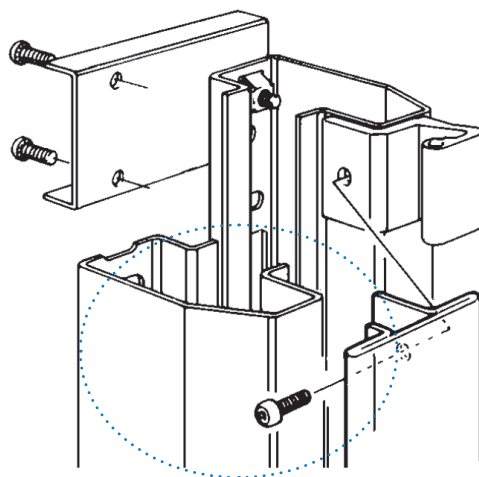|	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035	Black RAL 9005
			Order code	Order code
Baying kit	1	0.3	VT802-560943	VT802-343077

Vertical baying trims

A vertical trim kit is used to create a smooth, neat appearance when two racks are bayed together. To fit the rack, attach to a cabinet on one side allowing the other end to 'float'.

To be used with:
Can only be used when cabinets are bayed together using a 'Baying kit'. Doors or 'front cover trims' should also be fitted to both cabinets

Contents of kit

Description	Qty	Material	Finishes	
			Light grey RAL 7035	Anthracite RAL 7016
Vertical baying trims	2	1.0 mm steel		
Fixings				

Vertical baying trims

Ordering information

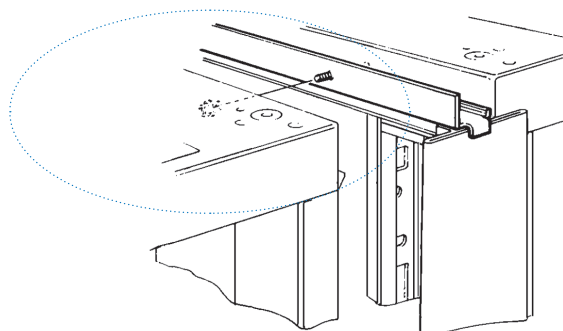| Height	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035	Anthracite RAL 7016
			Order code	Order code
27U	1	1.8	VT802-560820	on request
32U	1	2.1	VT802-560825	on request
37U	1	2.5	VT802-560830	on request
42U	1	2.8	VT802-560835	VT802-339999
47U	1	3.1	VT802-560840	VT802-343002

Horizontal baying trims

A horizontal kit is used to complement the vertical trim kit and prevent foreign bodies falling down the slot between the two racks.

To be used with:
Can only be used when cabinets are bayed together using a 'Baying kit'.

Horizontal baying trims

Contents of kit

Description	Qty	Material	Finishes	
Horizontal baying trims	1	1.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016
Fixings				

Ordering information

Depth	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Anthracite RAL 7016 Order code
600 mm	1	0.44	VT802-561047	on request
800 mm	1	0.58	VT802-561048	on request
1.000 mm	1	0.73	VT802-343003	VT802-343005

IMRAK® - Custom execution with front to rear baying kit

IMRAK®

Front cover trims

Front cover trims & Coach lines

Front cover trims
For applications where no doors are required, a set of aluminum trims may be fitted. Cover trims are supplied in pairs painted in RAL 7037 and with a green plastic insert "coach line". As an option, red or blue coach lines may be specified at extra cost.

To be used with:
An IMRAK® frame of the same height

IMRAK® front cover trims

Contents of kit

Description	Qty	Material	Finishes
Cover trims	2	Aluminium	Dusty grey RAL 7037
Green coach lines	2	Plastic	
Fixings			

Ordering information

Height	M.O.Q.	Net weight for kit (Kg)	Dusty grey RAL 7037 Order code	Anthracite RAL 7016 Order code
12U	10	0.95	VT802-560600	on request
17U	10	1.35	VT802-560605	on request
22U	10	1.75	VT802-560610	on request
27U	1	2.14	VT802-560615	on request
32U	10	2.54	VT802-560620	on request
37U	1	2.94	VT802-560625	on request
42U	1	3.34	VT802-560630	on request
47U	1	3.73	VT802-560635	on request

Coach lines

Three colors are available as standard. Additional colors are available on request.

To be used with
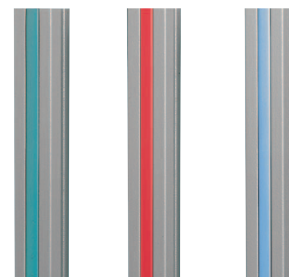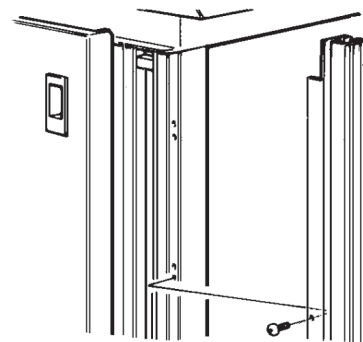IMRAK® glass doors or front cover trims

Contents of kit

Description	Qty	Material	Finishes
Coach lines	2 pcs x 2.2 m	Plastic	on request

Ordering information

Height	M.O.Q.	Net weight for kit (Kg)	Order code
Green	1	N/A	VT802-562230
Red	1	N/A	VT802-562232
Blue	1	N/A	VT802-562231

Coach lines

Infill panels

These panels have a height of 5U. For example, a panel plus 37U door would fit a 42U enclosure. They may be fitted above and/or below a glass or steel door.

Typical use is to allow mechanical handling of cables i.e. to accept connectors/cable glands, or bulk cable access using the cable brush version.

To be used with:
Front and rear doors.

Contents of kit

Description	Qty	Material	Finishes
5U Panels	2	1.0 mm steel	Dusty grey RAL 7037
Mounted brackets	4	Aluminium	Light grey RAL 7035

Ordering information

Height x width	M.O.Q.	Net weight for kit (Kg)	Dusty grey RAL 7037 Order code	Anthracite RAL 7016 Order code
5U x 600 unventilated	1	1.7	VT802-561042	on request
5U x 800 unventilated	1	2.2	VT802-561043	on request
5U x 600 ventilated	1	1.7	VT802-561044	on request
5U x 800 ventilated	1	2.2	VT802-561045	on request
5U x 600 with cable brush	1	1.7	VT802-563581	on request
5U x 800 with cable brush	1	2.2	VT802-563582	on request

Infill panels

Infill panels
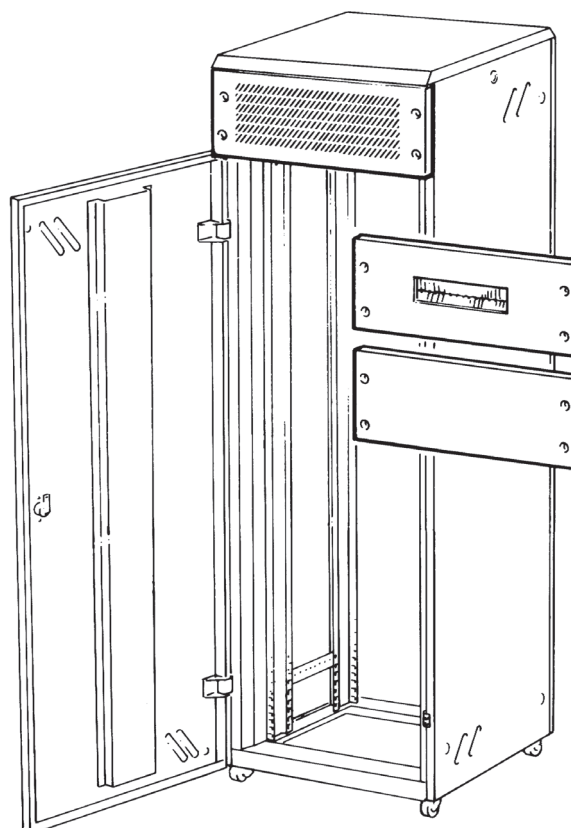
IMRAK®

Top covers

Top covers

Side vented
High top side vented - allows air flow through side slots.

Fully vented
High top fully vented - allows air flow through a matrix of square holes on top as well as side slots. Recommended when fan trays are to be used.

IMRAK® ServerMax fully vented with cable entry
High top fully vented with 63% open area perforation plus a glanded cable entry area of 402 x 122 mm.
Note: this top cover is only available for 1.000 mm deep IMRAK® ServerMax Cabinets.

To be used with:
• An IMRAK® frame of the same plan size
• Earthing kits if required
• Top mounted fan trays
• IMRAK® ServerMax top can be used with a 'cable entry brush kit'

Contents of kit

Description	Qty	Material	Finishes	
			Dusty grey RAL 7037	Anthracite RAL 7016
Top cover	1	1.0 mm steel	Dusty grey RAL 7037	Anthracite RAL 7016
Screw cover mouldings	4	Plastic	Dusty grey RAL 7037	Black RAL 9005
Spacers	4	Steel	Zinc plated	
Fixing screws	4	Steel	Zinc plated	

Ordering information

Height x depth	M.O.Q.	Net weight for kit (Kg)	Dusty grey RAL 7037 Order code	Anthracite RAL 7016 Order code
600 x 600 side vented	1	4.2	VT802-560655	on request
600 x 800 side vented	1	5.4	VT802-560656	on request
800 x 600 side vented	1	5.6	VT802-560659	on request
800 x 800 side vented	1	7.1	VT802-560660	on request
600 x 600 fully vented	1	4.2	VT802-560647	on request
600 x 800 fully vented	1	5.4	VT802-560648	on request
800 x 600 fully vented	1	5.6	VT802-560651	on request
800 x 800 fully vented	1	7.1	VT802-560652	on request
600 x 1.000 ServerMax top	1	6.5	VT802-343069	VT802-343071
800 x 1.000 ServerMax top	1	8.7	VT802-343070	VT802-343072
Cable entry brush kit	1		VT802-343073	
Lifting eyes kit	1		VT802-560000	

Side vented top covers
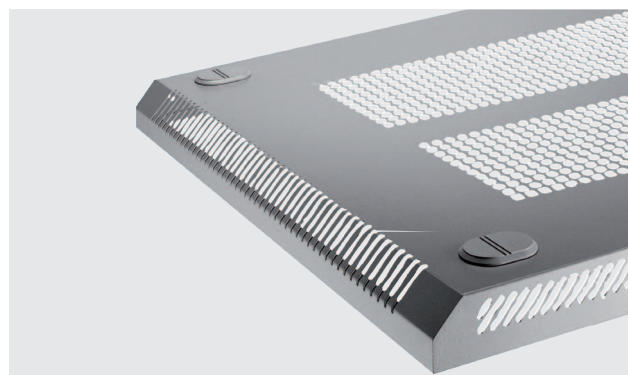
Fully vented top covers
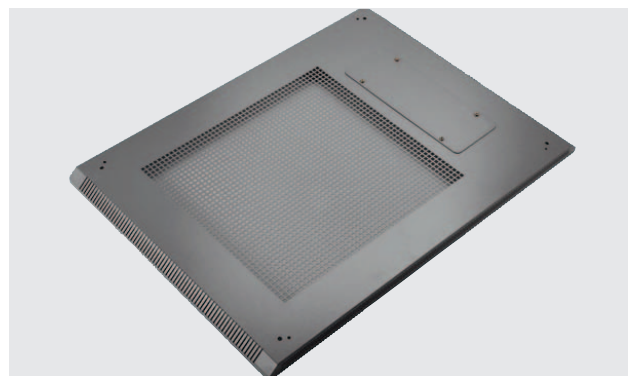
Fully vented with cable entry top covers

Lifting eyes kit

19" Panel Mounting Angles - 'Standard'

19" Panel mounts are supplied in pairs. Incorporated into the design of the mounts are notches in the center of each U height which makes the positioning of the cage nuts much easier. The panel mounting may be attached directly to the vertical corner. In this case front to rear adjustment is 60mm per panel mount. Alternatively the panel mount may be fitted onto panel mount angle supports giving infinite adjustment throughout the depth of the rack.

To be used with:
- An IMRAK® frame of the same height or taller
- 'Reducing Cable Channels' required in 800 mm wide cabinets
- 'Panel Mount Angle Supports' if full adjustment through the depth of the cabinet is needed
- 'Panel Mount Angle Spacing kit' if 'Panel Mount Angel Supports' are to be set out towards the side panel
- Earthing kits if required
- Chassis supports and all other 19" mounted accessories mounted on 19" Panel Mount Angles

Contents of kit

| Description	Qty	Material	Finishes		
19" Panel Mounting Angles - 'Std'	2	2.0 mm steel	Light grey RAL 7035	Black RAL 9005	Zinc plated
Fixings					

19" Panel Mounting Angles - Standard

Ordering information

Height x depth	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code	Zinc plated 'conductive' Order code
6U	10	1.0	VT802-343042	on request	VT802-343297
12U	10	2.0	VT802-343043	on request	VT802-343298
14U	1	2.4	VT802-343892	VT802-343893	on request
17U	10	3.2	VT802-343044	on request	VT802-343299
19U	1	2.9	VT802-343895	VT802-343896	on request
22U	10	3.7	VT802-343045	on request	VT802-343300
27U	1	4.6	VT802-343046	on request	VT802-343301
32U	10	5.4	VT802-343047	on request	VT802-343302
37U	1	6.2	VT802-343048	on request	VT802-343303
42U	1	7.1	VT802-343049	VT802-343053	VT802-343055
47U	1	7.9	VT802-343050	VT802-343054	VT802-343056

19

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IMRAK®
Panel mounts
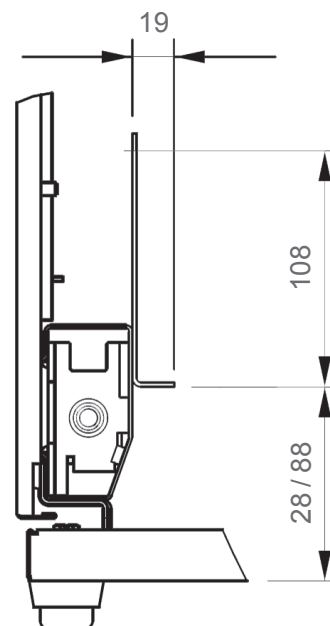
19" Panel Mounting Angles - 'Simple'

Simple 19" panel mounts are supplied in pairs to provide 19" mounting positions on universal centres. Simple 19" panel mounts may be attached directly to the corner vertical, 60mm from the front door, or onto panel mount angle supports giving adjustment throughout the depth of the rack in 20mm increments. They allow directly fixed chassis trays to be used when the panel mounts are fitted onto the verticals. Simple 19" panel mounts have no side mounting positions.

To be used with:
- An IMRAK® frame of the same height or taller
- 'Reducing Cable Channels' required in 800 mm wide cabinets
- 'Panel Mount Angle Supports' adjustment of 20 mm increments through the depth of the cabinet is needed
- Earthing kits if required
- Directly fixed chassis trays

Contents of kit

Description	Qty	Material	Finishes
19" Panel Mounting Angles - 'Simple'	2	2.0 mm steel	Light grey RAL 7035
Fixings			

Ordering information

Dimensions	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code
27U	1	1.0	VT802-562382
37U	1	1.5	VT802-562392
42U	1	1.7	VT802-562397
47U	1	1.9	VT802-562402

19" Panel Mounting Angles - 'Simple'

27U a 47U   1U = 44,45 mm

Panel Mounting Supports

These fit between vertical members to allow adjustment of the panel mounts at any position along IMRAK®'s framework. The load capacity is 200 Kg per pair.

To be used with:
- An IMRAK® frame of the same depth
- 19" Panel Mounting Angles - Standard
- 19" Panel Mounting Angles - Simple
- Cable Reducing Channels in 800 mm wide cabinet applications
- Panel Mounting Angle Spacer kit when 'Panel Mounting Supports' are set out towards the side panels
- Vertical cable trays can be fitted to these members

Contents of kit

Description	Qty	Material	Finishes	
Panel Mount Supports	2	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Clips	4	Plastic	Dusty grey RAL 7037	Black RAL 9005

Panel mounting supports

Ordering information

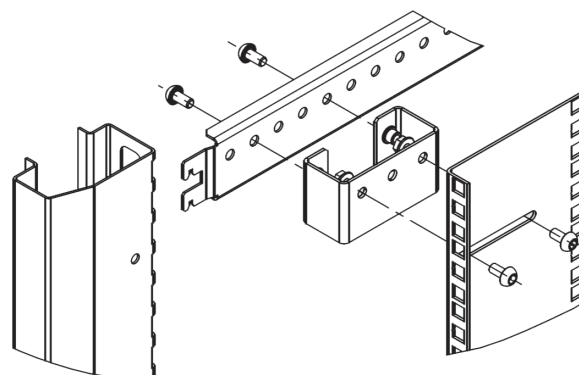| Dimensions	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code	Zinc plated 'conductive' Order code
600 mm	1	0.6	VT802-560545	on request	VT802-563669
800 mm	1	0.9	VT802-560546	on request	VT802-563670
1.000 mm	1	1.1	VT802-343034	VT802-343035	on request
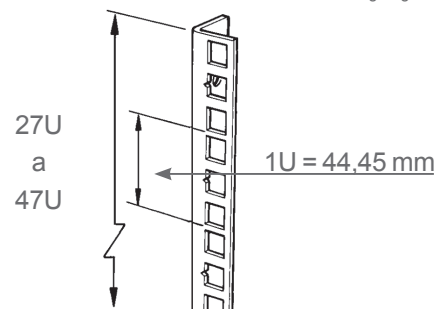
Panel Mount Angle Spacing kit

This bracket can only be used when the panel mounting angle supports have been mounted out towards the side panel. Using the panel mount angle spacing bracket extra cable management room can be gained outside the 19" width, and behind the vertical. The load capacity is 200 Kg per pair.

To be used with:
• An IMRAK® frame 600 mm wide
• Must be bolted to a set of 'Panel Mount Angel Supports'. On to the bracket.
• 'Standard' or 'Simple' 19" Panel Mounting

Contents of kit

Description	Qty	Material	Finishes	
Spacer brackets	2	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Fixings		Steel		

Panel Mount Angle Spacing kit

Ordering information

Height x depth	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code
Spacing kit	1	0.18	VT802-563574	VT802-343066

Cable Reducing Channels

Reducing cable channels are suitable for 800 mm wide racks only. These units are supplied in pairs and may be attached directly to the vertical corner, or fitted onto panel mount angle supports. Reducing cable channels have been designed to support panel mounting angles. It is necessary to order the appropriate size and type of panel mounting angles. The load capacity is 500 Kg per pair.

To be used with:
• IMRAK® 800 mm wide frames of the same height or taller
• 19" Panel Mount Angles - Standard
• 19" Panel Mount Angles - Simple
• Earthing kits

Contents of kit

Description	Qty	Material	Finishes	
Side panels	2	2.0 mm steel	Light grey RAL 7035	Black RAL 9005
Fixings		Steel		

Ordering information

Height x depth	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code
6U	10	1.9	VT802-563565	on request
12U	10	3.7	VT802-563566	on request
17U	10	5.3	VT802-563567	on request
22U	10	6.8	VT802-563568	on request
27U	1	8.3	VT802-563569	on request
32U	10	9.9	VT802-563570	on request
37U	1	11.4	VT802-563571	on request
42U	1	13.0	VT802-563572	VT802-343060
47U	1	14.5	VT802-563573	VT802-343065

Cable reducing channels

Plates

Bolting down plate

This kit of 4 rectangular plates allows the base frame to be bolted down, using 12 mm bolts (not supplied).

To be used with:
IMRAK® end frame

Contents of kit

Description	Qty	Material	Finishes
Bolting down plates	4	2.0 mm steel	Light grey RAL 7035

Ordering information

	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035	Anthracite RAL 7016
			Order code	Order code
Bolting down plate	1	0.72	VT802-562415	on request

Bolting down plate

Bottom gland plates

Gland plates are used to seal off the cable opening in the base of the rack. Half gland plates allow a cable entry kit to be fitted in the center position. The cable entry kit consists of two brushes through which cables may be pushed.

To be used with:
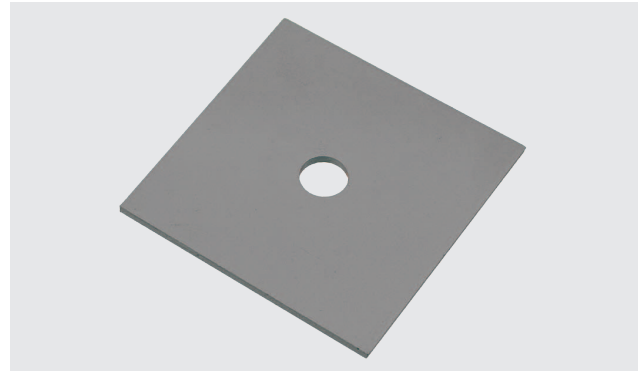IMRAK® end frame

Contents of kit

Description	Qty	Material	Finishes
Bolting down plates	1	2.0 mm steel	Light grey RAL 7035
Half gland plates	2	2.0 mm steel	Light grey RAL 7035

Bottom gland plates

Ordering information

Full gland plate	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035
Width x depth			Order code
600 x 600 mm	1	3.2	VT802-560946
600 x 800 mm	1	4.7	VT802-560947
600 x 1.000 mm			on request
800 x 600 mm	1	4.7	VT802-560950
800 x 800 mm	1	6.8	VT802-560951
800 x 1.000 mm			on request

Half gland plate	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035
Width x depth			Order code
600 x 600 mm	1	2.8	VT802-560954
600 x 800 mm	1	4.2	VT802-560955
600 x 1.000 mm			on request
800 x 600 mm	1	4.0	VT802-560958
800 x 800 mm	1	6.0	VT802-560959
800 x 1.000 mm			on request

Cable entry kit or use with the half gland plate

600 mm wide	1	VT802-561007
800 mm wide	1	VT802-561008
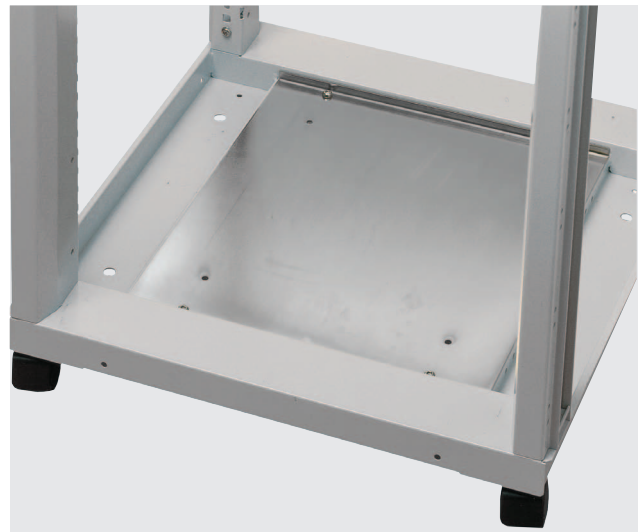
Castors

Two types of castors are available. Each castor can resist a light/medium load capacity of 115 Kg. They are fitted to the rack bolted on mounting plates. Available in braked and unbraked versions.

To be used with:
IMRAK®end frame

Contents of kit

Description	Qty
Heavy duty castor 4	kit of 4 castors & 4 mounting plates
Heavy duty braked/unbraked castor kit	Kit of 2 braked & 2 unbraked castors plus 4 mounting plates
Light/medium duty castor 4	kit of 4 castors
Light/medium duty braked/unbraked castor kit	Kit of 2 braked plus 2 unbraked castors

Ordering information

Description	M.O.Q.	Net weight for kit (Kg)	Order code
Heavy duty castors kit unbraked	1	2.9	VT802-560003
Heavy duty castors kit server version 115Kg static load	1	3.0	VT802-561556
Light / medium duty castor 4	1	0.5	VT802-561557
Light / medium duty braked / unbraked castors kit	1	0.5	VT802-560002

Adjustable feet

These allow you to align your rack on uneven surfaces. Adjustable feet are screwed directly into the corner blocks, using 10 mm threads. An adaptor is required when feet are to be fitted as well as heavy duty castors. They can be adjusted from 25 mm to 40 mm. Each set has a load capacity of 1.000 kg

To be used with:
• Adjustable feet to be used with an IMRAK® end frame
• Adjustable foot adaptors are required when heavy duty castors are fitted or when a 100 mm plinth is fitted.

Note: adjustable feet can not be used at the sane time as light/medium duty castors as both are fixed via the same 10mm threaded hole in the end frame.

Contents of kit

Description	Qty	Material	Finishes
Adjustable feet	4	Black pastic foot, steel stem	Zinc plated
Adj.foot adaptors	4	Steel	Zinc plated

Ordering information

	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Anthracite RAL 7016 Order code
Adjustable feet	1	0.33	VT802-560001	on request
Adjustable foot adaptors		0.50	VT802-560944	

Light/medium duty castor

Heavy duty castor

Adjustable feet

IMRAK®
Plinths
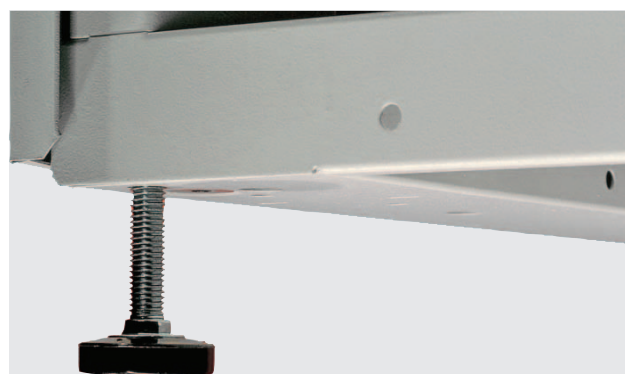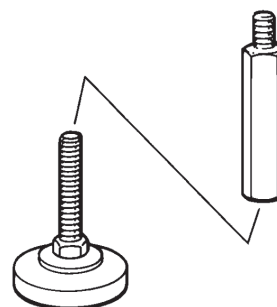
100 mm plinths
Plinths kit

Plinth kits are available in two heights; 100 mm or 200 mm. Plinth kits consist of four identical corner sections and four infill sections which allow easy modification for cable entry. Adjustable feet, will align IMRAK® on uneven surfaces. They can be fitted to a plinth when the use of 'adjustable foot adaptors' are needed. Plinths may be stacked to provide additional height. The plinth has a static load capacity of 1.000 Kg.

To be used with:
• IMRAK® end frame
• Adjustable feet when adjustable foot adaptors are also fitted

Plinth

Contents of kit

Description	Qty	Material	Finishes	
Plinth corners	4	2.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016
Side trims	2	1.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016
Front & rear trims	2	1.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016

Ordering information

W X D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Anthracite RAL 7016 Order code
600 x 600	1	5.1	VT802-592667	on request
600 x 800	1	5.5	VT802-592668	on request
600 x 1.000	1	6.0	VT802-343153	VT802-343157
800 x 600	1	5.5	VT802-592669	on request
800 x 800	1	5.9	VT802-592670	on request
800 x 1.000	1	6.4	VT802-343154	VT802-343158

Plinths base panels and closures
Plinth corners in 100 mm and 200 mm height

Contents of kit

Description	Qty	Material	Finishes	
Plinth corners	4	2.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016

Ordering information

	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Anthracite RAL 7016 Order code
100 mm plinth corner	1	3.3	VT802-561033	VT802-343149
200 mm plinth corners	10	6.0	VT802-563030	on request

Plinth

Plinth side trims 100 mm and 200 mm high

Contents of kit

Description	Qty	Material	Finishes	
Plinth side trims	2	1.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016

Ordering information

H x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Anthracite RAL 7016 Order code
100 x 600 mm	1	0.9	VT802-561035	on request
100 x 800 mm	1	1.3	VT802-561036	on request
100 x 1.000 mm	1	1.76	VT802-343148	VT802-343152
200 x 600 mm	10	1.8	VT802-563032	on request
200 x 800 mm	10	2.6	VT802-563033	on request

Plinth front & rear trims
100 mm and 200 mm high

Contents of kit

Description	Qty	Material	Finishes	
Plinth front and rear	2	1.0 mm steel	Light grey RAL 7035	Anthracite RAL 7016

Ordering information

H x W	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Anthracite RAL 7016 Order code
100 x 600 mm	1	0.9	VT802-561038	VT802-343150
100 x 800 mm	1	1.3	VT802-561039	VT802-343151
200 x 600 mm	10	1.8	VT802-563034	on request
200 x 800 mm	10	2.6	VT802-563035	on request

IMRAK®
Plinths

Extension plinth

Extension plinths are designed to provide increased stability when using heavy equipment, and are recommended for cabinets fitted with 800 mm glass doors or heavy duty sliding shelves. Each plinth has fixing studs for heavy duty castors, and threads fitted to attach adjustable feet. Castors and adjustable feet must be ordered separately. The load capacity is 1.000 Kg.

To be used with:

To be fitted to IMRAK® end frames and is recommend when heavy equipment is mounted into the cabinet on slides.
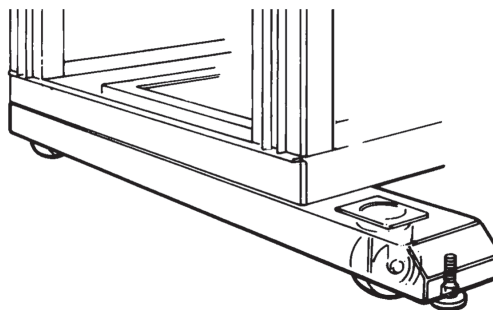
Contents of kit

Description	Qty	Material	Finishes	
Extension members	2	1.5 mm steel	Light grey RAL 7035	Anthracite RAL 7016
Fixings				

Ordering information

Depth of cabinet	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Anthracite RAL 7016 Order code
600	1	9.0	VT802-561030	on request
800	1	11.0	VT802-561031	on request
1.000	1	13.0	VT802-343155	VT802-343156

Top mounted fan trays

Standard fan trays

Top mounted fan trays are available to aid the cooling of your rack-housed equipment. These may be retro-fitted to the IMRAK® 1400, and do not occupy any of the useable U height. Fan trays are supplied with four or six fans.

Top fan trays have closing plates fitted in all unused positions. Connection to all fans is by means of a CEE 22 mains inlet, which must be used separately. Select appropriate lead mains from lower table.

To be used with:

To be fitted into the appropriate IMRAK® top end frame. Power leads need to be ordered separately.

Top mounted fan trays

Contents of kit

Description	Qty	Material	Finishes
Steel fan tray	1	1.5 mm steel	Light grey RAL 7035
Fan units	4 or 6		
Wiring	1 kit		
CEE connector	1		
Blanking panel on 1.000 deep fan trays			
Fixings			

Fan specifications

STANDARD TOP MOUNT FAN TRAY		
FANS	CFM	M3/Hr
4	380	644

W x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035
Standard fan trays			**Order code**
600 x 600 mm, 4 fan unit	1	3.6	VT802-560475
600 x 800 mm, 4 fan unit	1	4.8	VT802-560476
600 x 800 mm, 6 fan unit	1	5.3	VT802-3635411
600 x 1.000 mm, 4 fan unit	1	6.0	VT802-3635413
600 x 1.000 mm, 6 fan unit	1	6.5	VT802-3635414
800 x 600 mm, 4 fan unit	1	4.8	VT802-560479
800 x 800 mm, 4 fan unit	1	6.5	VT802-560480
800 x 800 mm, 6 fan unit	1	7.0	VT802-3635412
800 x 1.000 mm, 4 fan unit	1	8.2	VT802-3635415
800 x 1.000 mm, 6 fan unit	1	8.7	VT802-3635416
Replacement fan	1	0.25	VT548-238116
Low noise fan trays			
600 x 600 mm, 4 fan unit	1	3.6	VT802-563089
600 x 800 mm, 4 fan unit	1	4.8	VT802-563090
600 x 1.000 mm, 4 fan unit	1	6.0	VT802-3635417
800 x 600 mm, 4 fan unit	1	4.8	VT802-563093
800 x 800 mm, 4 fan unit	1	6.5	VT802-563094
800 x 1.000 mm, 4 fan unit	1	8.2	VT802-3635418
Replacement fan	1	0.25	VT548-240522
Power leads for fan trays			
1.8 m Schuko (French/ German) plug fitted	1		VA802-562463

IMRAK®

Fan trays

Monitored fan tray

IMRAK® MFT is a new concept in fan trays. This product applies the IMRAK® concept of 'Configured upon Requested temperature control'.
The IMRAK® MFT contains all the basic monitoring and control features for a rack and allows to expand its technical characteristics.

Features
• Lower average noise level at room temperature
• Extended MTBF (mean time before failure) due to lower average speed
• Fans controlled individually or in groups
• Local or remote alarm monitoring
• Variable or constant temperature range monitoring
• World wide voltage input

To be used with:
To be fitted into the appropriate IMRAK® top end frame.
Power lead needs to be ordered separately.
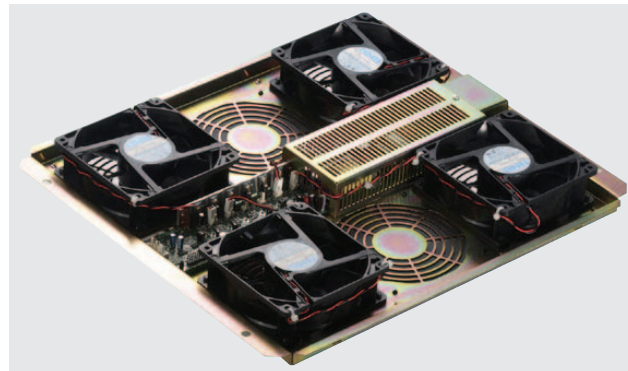
Monitored fan tray

Contents of kit

Description	Qty	Material	Finishes
Steel fan tray	2	1.5 mm steel	Light grey RAL 7035
Electronic control system	1		
Fan units	4		
Wiring	1 kit		
CEE connector	1		
Blanking panel on 800 & 1.000 mm deep fan trays			
Fixings			

Ordering information

W x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code
600 x 600 mm	1	4.1	VT802-48500
600 x 800 mm	1	5.3	VT802-48510
600 x 1.000 mm	1	6.5	VT802-3635419
800 x 600 mm	1	5.3	VT802-48520
800 x 800 mm	1	7.0	VT802-48530
800 x 1.000 mm	1	8.7	VT802-3635420

Lock options

Both the metal and glass doors can have a swing handle fitted as an option. The steel perforated and glass vented doors have swing handles and lock covers fitted as standard when a lock is not required. A lock blank fills the hole in the swing handle. It also acts as a spring clip, holding the handle into its housing. Please note, the locks for the swing handle needs to be ordered separately.

Lock with key - self locking
All locks supplied with the same key and the door automatically locks when closed.

Lock with Key - manual locking
All locks supplied with the same key. To lock the door the key must be turned.

To be used with:
To be fitted to both glass and steel doors

Contents of handle kit

Description	Qty	Material	Finishes
Swing handle	1	Plastic	Black
Fixings			

Contents of lock kits

Description	Qty	Material	Finishes
Lock	1	Steel	

Ordering information

	M.O.Q.	Order code
Swing handle	1	VT802-563494
Keyed alike lock - self locking	1	VA802-563532
Keyed alike lock - manual locking	1	VA802-563610

Swing handle without lock

Side Panel Locks

For lockable side panels, simply order a kit with two locks. Two versions are available; a standard versions using the same key as the standard lock, and a high security version which uses the same key as the swing handle.

To be used with:
To be fitted to side panels

Contents of kit

Description	Qty	Material	Finishes
Locks	2	Steel	Chrome
Fixings			

Ordering information

	M.O.Q.	Net weight for kit (Kg)	Order code
Side panel lock - Standard security	1		VT802-560004
Side panel lock - High security	1		VT802-563738

Side panel locks

IMRAK®
Support, trays and shelves

Chassis supports

These steel supports may be fitted along the depth of the rack and offer an ideal method of supporting heavy equipment. When used in conjunction with 19" equipment they position card frames accurately in line with U heights. The horizontal sections of the supports are pre-punched to allow the chassis trays to be fitted without further drilling.

An extra 15 mm width is available when chassis supports are fitted directly to panel mounting angle supports when maximum chassis width is then 465 mm. The load capacity is 50 Kg. Chassis supports are sold in pairs.

To be used with:
• To be fitted to 'standard 19" Panel Mount Angles or fitted directly to Panel Mount Angle Supports
• Chassis trays and Heavy duty shelves mount onto Chassis Supports

Chassis support

Contents of kit

Description	Qty	Material	Finishes	
Chassis Supports	2	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Fixings				

44 mm

from 270 to 870 mm with 100 mm distance

37 mm
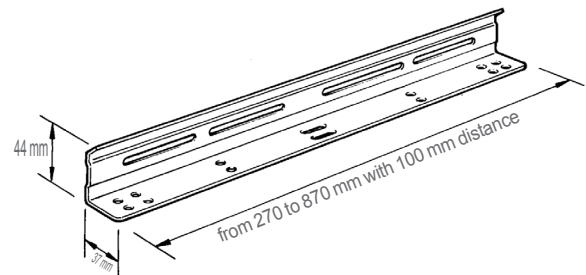
Ordering information

Length (min cabinet depth)	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code	Zinc plated 'conductive' Order code
270 mm (400 mm)	10	0.5	VT802-561009	VT802-343179	VT802-343304
370 mm (500 mm)	1	0.7	VT802-561561	VT802-343180	VT802-343305
470 mm (600 mm)	1	0.8	VT802-561010	VT802-343181	VT802-343306
570 mm (700 mm)	1	1.0	VT802-561562	VT802-343182	VT802-343307
670 mm (800 mm)*	1	1.2	VT802-561011	VT802-343183	VT802-343308
770 mm	1	1.4	VT802-343186	VT802-343184	VT802-343309
870 mm	10	1.6	VT802-343187	VT802-343185	VT802-343310

* Supports suggested in cabinets with depth of 800 mm to 1000 mm.

19" chassis trays

These steel trays come in four depths so that the correct depth for your installation may be selected without interfering with cabling or power distribution at the rear. The slots in the tray allow for good air- flow and, at the same time, offer a selection of fixing positions to allow modems and instruments to be screwed into position. With this style of tray a pair of chassis supports is also required.
Notes: Units 600 mm or 800 mm wide may be fitted on chassis supports bolted to the lateral sides of the cabinet.
For 600 mm wide units fitted on chassis supports and fitted on 19" mountings require four panel mountings on the cabinet. The load capacity is 50 Kg.
To be used with: To be fitted Chassis Supports

Contents of kit

Description	Qty	Material	Finishes	
Chassis tray	1	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Fixings				

Ordering information

W x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code
19" (600 mm) x 256 mm	1	1.8	VT802-561013	VT802-343171
19" (600 mm) x 356 mm	1	2.5	VT802-561014	VT802-343172
19" (600 mm) x 456 mm	1	3.2	VT802-561015	VT802-343173
19" (600 mm) x 556 mm	1	3.9	VT802-561016	VT802-343174
800 x 256 mm	1	2.6	VT802-561017	VT802-343175
800 x 356 mm	1	3.6	VT802-561018	VT802-343176
800 x 456 mm	1	4.6	VT802-561019	VT802-343177
800 x 556 mm	1	5.6	VT802-561020	VT802-343178

19" chassis trays

Heavy duty shelves

For applications where heavy loads are required, this shelf offers a load capacity of over 100 Kg. Slotted holes offer limited air passage and also provide simple fixing positions.
To be used with: Must be fitted to two pairs of Chassis Supports

Contents of kit

Description	Qty	Material	Finishes	
Heavy duty shelf	1	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Fixings				

Ordering information

W x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code
19" (600 mm) x 472 mm	1	3.4	VT802-552914	VT802-343188
19" (600 mm) x 627 mm	1	4.6	VT802-552915	VT802-343189
19" (600 mm) x 754 mm	1	5.5	VT802-552916	VT802-343190
800 x 472 mm	1	5.0	VT802-552917	VT802-343191
800 x 627 mm	1	6.6	VT802-552918	VT802-343192
800 x 754 mm	1	7.9	VT802-552919	VT802-343193

Heavy duty shelves

IMRAK®
Support, trays and shelves

19" cantilever shelves

Cantilever shelves fix directly onto the standard 19" panel mounts. The shelves occupy 2U of panel mount height. Cantilever shelves have a nominal load capacity of 20 Kg and are mounted in the middle of the shelf.

Contents of kit

Description	Qty	Material	Finishes	
			Light grey RAL 7035	Black RAL 9005
19" Cantilever shelf	1	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Fixings				

Ordering information

W x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035	Black RAL 9005
			Order code	Order code
19" x 255 mm	1	2.0	VT802-562284	VK593-599790
19" x 400 mm	1	3.2	VT802-562285	VK593-599791

19" cantilever shelves

Chassis tray to fix directly to vertical members

These trays are designed for applications where equipment wider than 19" is to be mounted or used in conjunction with 'simple 19" panel mounts'. As they are fitted directly to the vertical corner members, no chassis supports or panel mounting members are required, thereby reducing cost and complexity. The load capacity is 50 Kg.

To be used with:

These chassis trays can only be used with 'simple 19" panel mounts' when fitted vertically (NOT on panel mount supports).

Chassis tray to fix directly to vertical members

Contents of kit

Description	Qty	Material	Finishes
Chassis tray	1	1.5 mm steel	Light grey RAL 7035
Fixings			

Ordering information

W x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035
			Order code
Tray for 600 x 600 cabinet	1	2.3	VT802-563558
Tray for 600 x 800 cabinet	1	3.3	VT802-563559
Tray for 800 x 600 cabinet	1	3.3	VT802-563562
Tray for 800 x 800 cabinet	1	4.7	VT802-563563
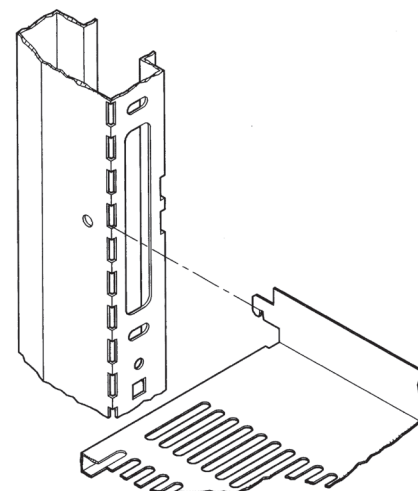
Sliding shelves - 19" fixing

This shelf will fit into the IMRAK® enclosure that has 19" panel mounts fitted in the front and rear of the enclosure, independent of whether the enclosure is 600 mm or 800 mm wide. The supporting surface of the shelf is in-line with the bottom of the 'U' above it, therefore the shelf can be used to support both 19" mounted equipment as well as non 19" mounted equipment. The load capacity is 35 Kg.

To be used with:
Must be used with 19" Panel Mounting Angles fitted front and rear.

Contents of kit

Description	Qty	Material	Finishes	
			Light grey RAL 7035	Black RAL 9005
Shelf	1	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Slides	2	Steel		
Mounting brackets	4	Steel		
Fixings				

Ordering information

W x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code
Sliding shelf 19" x 425 mm	1	4.1	VT802-3635759	VT385-776368
Sliding shelf 19" x 625 mm	1	6.0	VT802-3635760	VT385-776369

19" Din bar panel kit

Description	Order code
19" Din bar panel kit	VT390-787140

19" Din bar panel kit
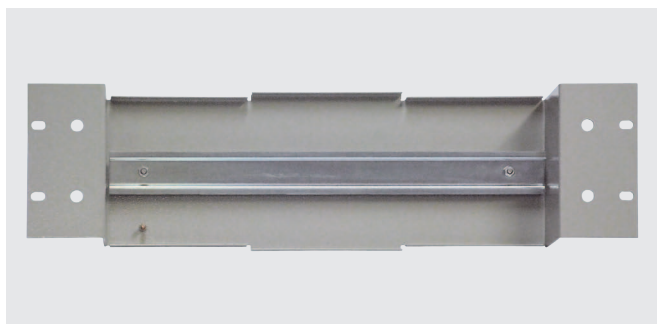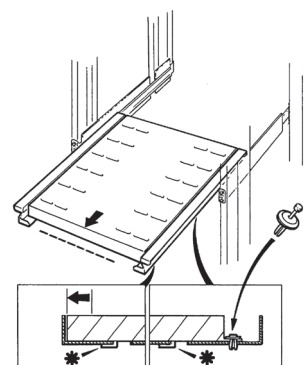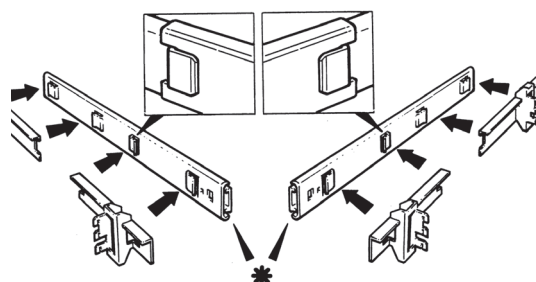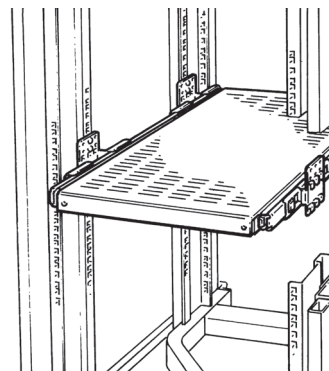
IMRAK®
Support, trays and shelves
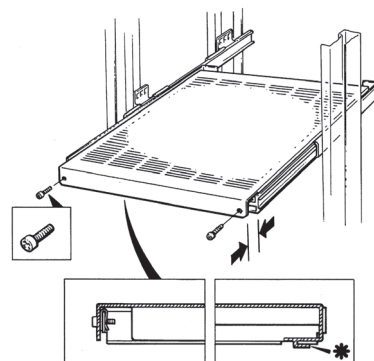
Keyboard shelves - 19" fixing

This sliding keyboard shelve has been designed to support reduced width keyboards. The cantilever shelf is 19" x 400 mm. This keyboard shelf will fit into IMRAK® cabinets on the front 19" panel mounting angles only.
It can only be used for keyboards which are 410 mm or less in width. The load capacity is 20 Kg.

To be used with:
Must be used with 19" Panel Mounting Angles fitted at front.

Keyboard shelves - 19" fixing

Contenuto del kit

Description	Qty	Material	Finishes	
Keyboard shelf	1	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
19" Cantilever shelf	1	1.5 mm steel	Light grey RAL 7035	Black RAL 9005
Slides	2	Steel		
Fixings				

Ordering information

W x D	M.O.Q.	Net weight for kit (Kg)	Light grey RAL 7035 Order code	Black RAL 9005 Order code
Keyboard shelf 19" x 400 mm	1	4.1	VT802-3635758	VK385-775709

19" aluminum blank panels

The 19" aluminum blank panels can be anodized or painted RAL 7035 or RAL 9005 with a thickness of 4 mm.
The kit do not include the fixing screws.

Ordering information

Description	Aluminum anodized Order code	Aluminum painted RAL 7035 Order code	Aluminum painted RAL 9005 Order code
1U 19" blank panel	0018-01OXX	0018-01GR1	0018-01NER
2U 19" blank panel	0018-02OXX	0018-02GR1	0018-02NER
3U 19" blank panel	0018-03OXX	0018-03GR1	0018-03NER
4U 19" blank panel	0018-04OXX	0018-04GR1	0018-04NER
5U 19" blank panel	0018-05OXX	0018-05GR1	0018-05NER
6U 19" blank panel	0018-06OXX	0018-06GR1	0018-06NER
7U 19" blank panel	0018-07OXX	0018-07GR1	0018-07NER
8U 19" blank panel	0018-08OXX	0018-08GR1	0018-08NER

19" aluminum blank panels

19" plastic blank panels Quickfix

Description	Order code
1U Quickfix blank panel kit 100 pcs. plastic RAL 7016 finishing	VA584-000571

19" plastic blank panels

www.apw.eu.com

Heavy duty sliding shelves - 19" fixing

Ideal for tower cabinet mounted servers and UPS units with load capacity up to 100 Kg. These sliding shelves will fit into IMRAK® enclosures when 19" panel mounts are fitted in the front and rear of the enclosure, independent of whether the enclosure is 600 mm or 800 mm wide. The supporting surface of the shelf is in-line with the bottom of the 'U' above it, therefore the shelf can be used to support both 19" mounted equipment and non 19" mounted systems.

Warning:
The enclosure should be fitted with an extension plinth or bolted down, to ensure cabinet stability when sliding shelves are used.

To be used with:
Must be used with 19" Panel Mounting Angles fitted front and rear.

Heavy duty sliding shelves - 19" fixing

Contents of kit

Description	Qty	Material	Finishes	
			Light grey RAL 7035	Black RAL 9005
Heavy duty shelf	1	1.5 mm steel		
Heavy duty slides	2	Steel		
Mounting brackets	4	Steel		
Fixings				

Ordering information

W x D	M.O.Q.	Light grey RAL 7035	Black RAL 9005
		Order code	Order code
Sliding shelf 19" x 630 mm	1	VT802-3635737	VT802-3635738

IMRAK®
Cable management
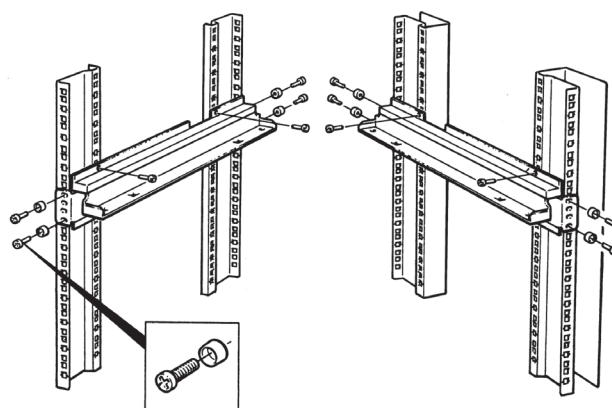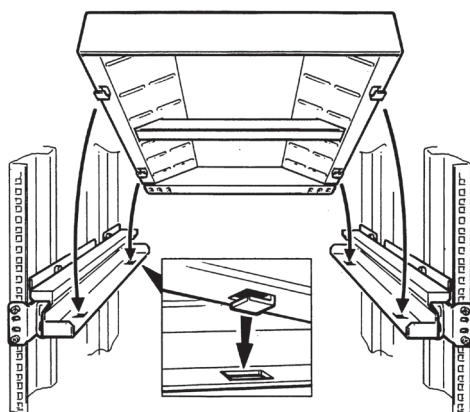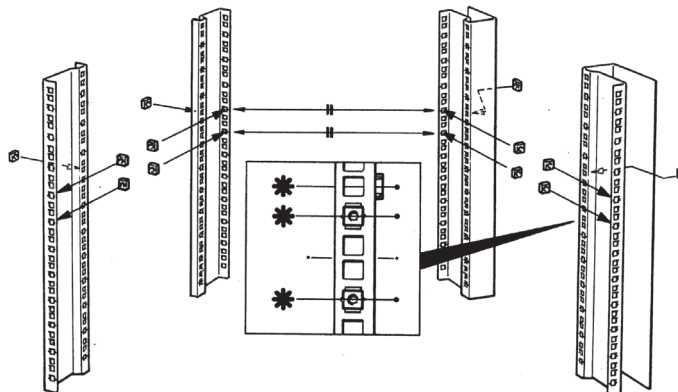
Cable Management

1. Plastic cable trunking
A plastic cable with external snap-on cover measuring 80 mm wide by 40 mm deep can be supplied in 2 m lengths and easily cut for other sizes.

2. Steel cable trays
Available in four alternative lengths, all 152 mm wide by 12,7 mm deep and multi-punched for varied cable insertion.

3, 4, 5, & 6. Cable management panels
19" mounting cable entry, brush strip and cable hoop panels

7 & 8. Single and double cable hoops
Single cable hoops can be fixed to the inside face of the vertical corner members. Single sized hoops are available for racks with side panels.
Double sized hoops can be fitted to the inside faces of the vertical corner members when the racks are bayed together. The hoops may also be fitted on cross members at the rear of the rack or from panel mount supports to the side of the rack.

9. Cable bar
For 19" mounting and support cable at the rear of panel mounts.

To be used with:
• Items 1 & 2 fit to 'panel mounting supports'
• Items 3, 4, 5, 6 & 9 fit horizontally across the '19" panel mounts'
• Item 7 mounts to the back of IMRAK® vertically
• Item 8 mounts on the inside of the 'cable reducing channel' used on 800 mm wide cabinets and can also be mounted across the rear of IMRAK® vertically in bayed applications

1

2

3

4

5

6

Contents of kit

All items supplied with fixing finishes

Ordering information

|	M.O.Q.	Net weight (Kg)	Order code
1. Plastic trunking 2m long (45U)	1		VT643-10000
2. Steel cable tray 1259 mm (28U)	1	2.1	VT802-560871
2. Steel cable tray " 1481 mm(33U)	1	2.5	VT802-560876
2. Steel cable tray 1703 mm(38U)	1	2.9	VT802-560881
2. Steel cable tray 1925 mm (43U)	1	3.3	VT802-560886
3. Cable entry panel 2U	1		VT960-236702
4. Brush strip panel 1U	1		VT802-563107
5. Cable management panel 1U	1		VT802-563522
6. Cable management panel, deep hoop 1U	1		VT802-563536
5. Black cable management panel 1U	1		VT802-563575
6. Black cable management panel, deep hoop 1U	1		VT802-563576
5. Cable management panel 2U	1		VT802-563523
5. Black cable management panel 2U	1		VT802-563577
7. Single cable hoops (10 pcs.)	1		VT802-563612
8. Double cable hoops (10 pcs.)	1		VT802-563613
9. Cablebar 19"	1		VT961-553948
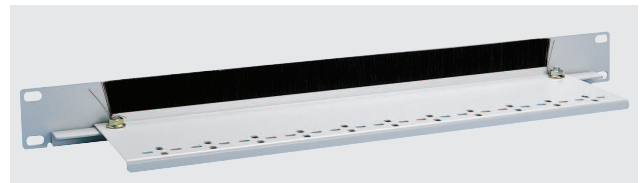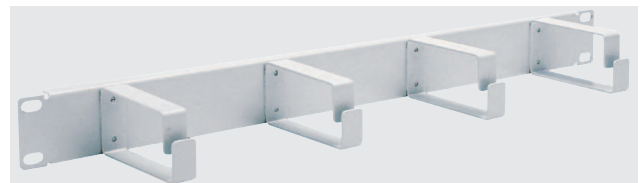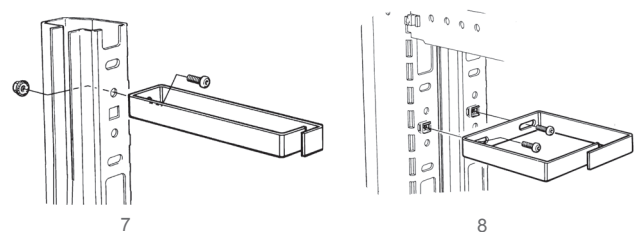
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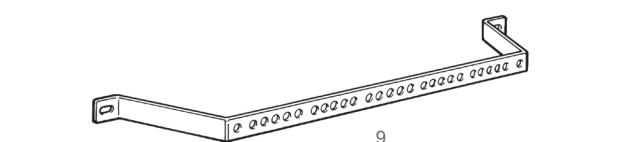
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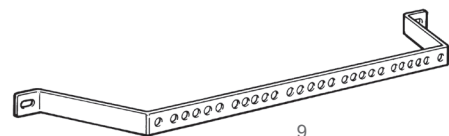
9

Earthing & busbar systems
Earth continuity kits

Two styles of earth continuity are available. Each contain ten leads to earth all panels and doors, leaving extra leads to earth parts of the electronic equipment.

Type 1 has ring terminals at both ends to mount directly onto the earth studs on the panels.

Type 2 has a ring terminal on one end and a spade (faston) at the other.

Adaptor rings are provided for bolting onto the earth studs in order to allow quick removal and assembly.

Contents of kit

Description	Qty	Material	Finishes
Earth continuity kit	1	1.5 mm steel	Light grey RAL 7035
Fixings			

Ordering information

	M.O.Q.	Net weight for kit (Kg)	Order code
Earth continuity kit - type 1	1		VT802-560005
Earth continuity kit - type 2	1		VT802-561563

IMRAK®
Earthing
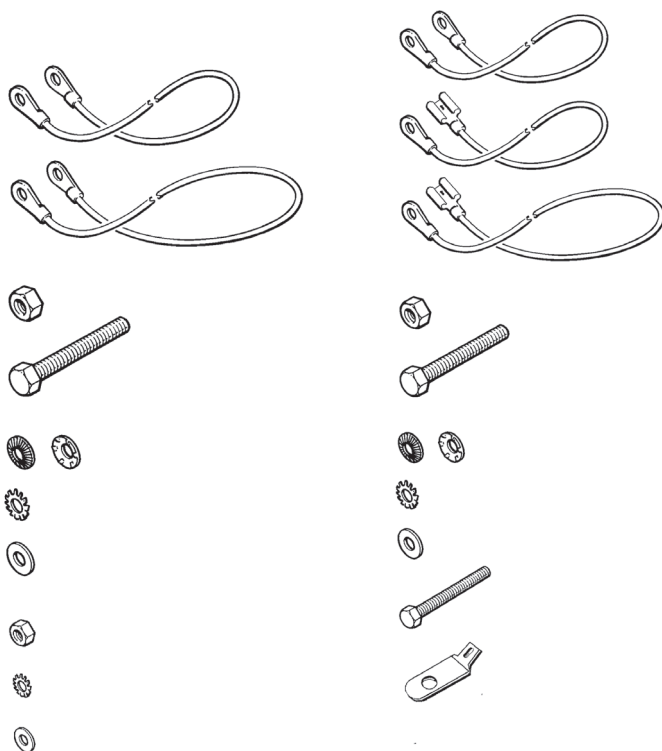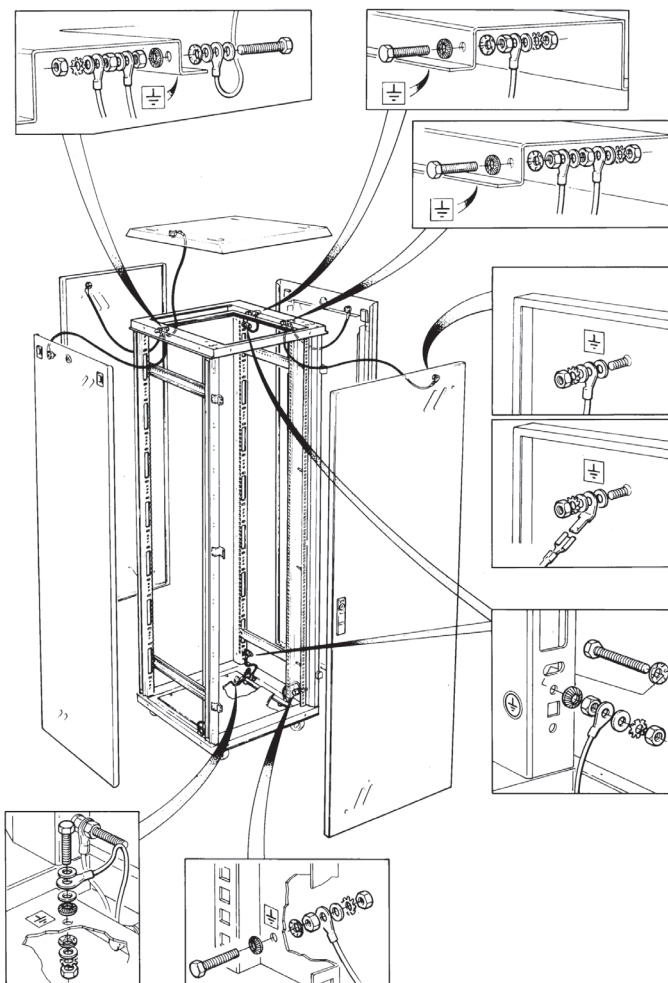
Earthing bars

These earthing busbars offer the option of bonded earth or iso-lated conditions. Earth conditions by using insulated spacer strips. They have male spade fixing positions at 1/2U intervals and can be mounted on any flat surface. Mounting holes allow assembly without further drilling on the inside faces of IMRAK® as illustrated. Made from nickel plated copper, the earth bars have a rating of 40 Amps and can be cut to specific lengths. Main earth is provided by M6 studs at both ends.

Contents of kit

Description	Qty	Material	Finishes
Earthing bar	1	1.5 mm steel	Light grey RAL 7035
Fixings			

Ordering information

Description	M.O.Q.	Net weight (Kg)	Order code
Earthing bar 13U for cabinets	1		VT802-552929
Earthing bar 27U for cabinets	1		VT802-552930
Earthing bar 39U for cabinets	1		VT802-552931

Earthing bars

Busbar systems

This is a common copper ,earth/neutral busbar which is nor-mally fitted to the rear vertical of the rack.
It has a rating of 140 Amps and supported by polyamide insulat-ing blocks which will accept 4 mm, 5/32", or 6BA fixing screws. There are three sizes of terminals for conductor dimensions from 1,5 mm to 35 mm.

Note: The busbar is simply fitted to the blocks using 'snap-on' clips

Contents of 'complete busbar' kit

Description	Qty	Material	Finishes
Earthing bar: 10 mm x 3 mm x 1000 mm	1	Copper	N/A
Insulated mounting blocks	3		
Large terminal: 16 - 35 mm conductor	1		
Small terminals: 1,5 mm - 4 mm 2 conductor	10		

Ordering information

	M.O.Q.	Net weight (Kg)	Order code
Complete 'busbar kit'			
Busbar kit - 1 off	1		VT802-556088

Busbar systems

Electrostatic point (E.S.P.)
and electrostatic wrist strap and lead

The E.S.P. is designed to protect against electrostatic discharge damage of the electronic equipment. This self-tapping screw stud will be fitted on the midpoint of the front left-hand vertical, unless otherwise stated. The electrostatic wrist strap and lead are to be used with the E.S.P.

To be used with:
To be fitted vertically onto the cabinet's

Ordering information

	M.O.Q.	Order code
Electrostatic point (E.S.P.)	1	VT802-563039
Electrostatic wrist strap and lead	1	VT802-563040

Electrostatic point

Magnetic lights

The magnetically attached lights are ideal for use in any environment with steel racks and can be used both in horizontal or vertical position. The lights are available in U shaped fluorescent tube version or in led version also with integrated movement sensor. The power cord must be purchased separately.

To be used with:
To be fitted onto Chassis Supports

Magnetic light

Contents of kit

Description	Qty	Material	Finishes
Magnetic light	1	1.5 mm steel	Light grey RAL 7035
Fixings			

Ordering information

Description	M.O.Q.	Light grey RAL 7035 Order code
Light, Schuko version, 230V, 351 x 65 x 62 mm*	1	VA802-562179
Light, UK version, 230V, 351 x 65 x 62 mm*	1	VA803-563580
1.8 m lead, Schuko plug	1	VA802-562463
2.0 m lead, 13A plug	1	VA803-561559
LED kit 005, 100-240V AC, 5W with power on/off, magnetic support and mating plug	1	VT802-510011
LED kit 005, 100-240V AC, 5W with movement sensor, magnetic support and mating plug	1	VT802-510014
1.8 m lead, Schuko CEE 7/7 plug	1	VA802-562180
2.0 m lead, BS1363 5A plug	1	VA802-590945

* Please do not forget to order the power cable

LED kit

Document holder

Document holder

Description	Order code
Document holder A4 size	VT802-553081

IMRAK®
Network Power Manager

Network Power Manager

1U 19" rackmount multistandard aluminum PDU

N. sockets	A	Protection	Cable & Plug	Order code
6	16A	--	2 mt + Schuko	C06ALMST-SI2S
6	16A	illuminated switch	2 mt + Schuko	C06ALMST-IL2S
7	16A	2P+N MGT	2 mt + Schuko	C07ALMST-MT2S
8	16A	--	2 mt + Schuko	C08ALMST-SI2S
8	16A	illuminated switch	2 mt + Schuko	C08ALMST-IL2S
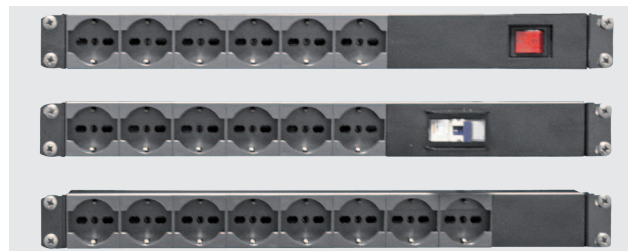
Multistandard aluminum PDU

1U 19" rackmount multistandard steel PDU

N. sockets	A	Protection	Cable & Plug	Order code
6	16A	--	2 mt + Schuko	K06MET-SI2S
6	16A	illuminated switch	2 mt + Schuko	K06MET-IL2S
6	16A	2P+N MGT	2 mt + Schuko	K06MET-MT2S
8	16A	--	2 mt + Schuko	K08MET-SI2S
8	16A	illuminated switch	2 mt + Schuko	K08MET-IL2S
9	16A	2P+N MGT	2 mt + Schuko	K09MET-MT2S
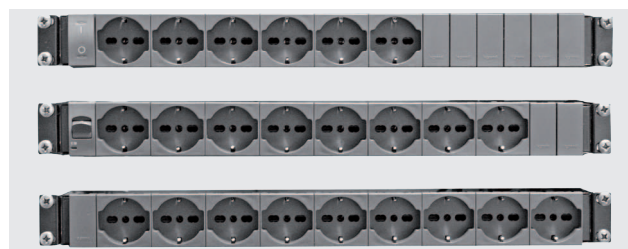
Multistandard steel PDU

Multistandard aluminum vertical PDU

N. sockets	A	Protection	Cable & Plug	Order code
12	16A	2P+N MGT	2 mt + Schuko	C12ALMST-MT2S
12	16A	illuminated switch	2 mt + Schuko	C12ALMST-IL2S
16	16A	illuminated switch	2 mt + Schuko	C16ALMST-IL2S
16	16A	2P+N MGT	2 mt + Schuko	C16ALMST-MT2S

Multistandard aluminum vertical PDU

1U 19" rackmount IEC C13 steel PDU

N. sockets	A	Protection	Cable & Plug	Order code
8	16A	illuminated switch	2 mt + Schuko	C08MET-16AC13IECIL2S
8	16A	2P+N MGT	2 mt + Schuko	C08MET-16AC13IECMT2S
12	16A	illuminated switch	2 mt + Schuko	C12MET-16AC13IECIL2S
16	16A	--	3 mt + IEC 60309	K16MET-16AC13IECIND3MT
16	32A	--	3 mt + IEC 60309	K16MET-32AC13IECIND3MT

IEC C13 8/12 sockets steel PDU
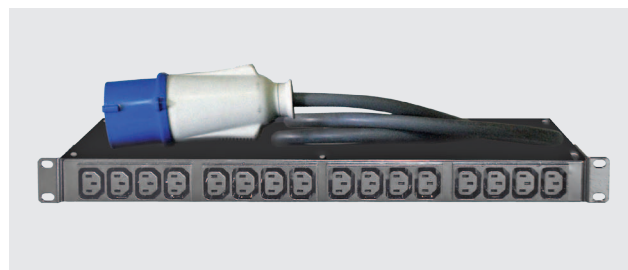
IEC C13 16 sockets steel PDU

IMRAK® Application: Datacom

IMRAK® 1400 42U 600 x 1000 RAL 7016 finishing. The cabinet is equipped with double vented rear doors and a gland plate with cable brush in the bottom.

IMRAK® Application: Industry

IMRAK® 42U 600 x 600 with the side panel divided in two independent sections allowing the rack to be bayed with a technical desk and leaving the possibility to access to the inside top part of the cabinet. The rear door has been provided with further 19" panel mounting angles to fix panels as support of DIN bars.

IMRAK® Application: Industry

IMRAK® 1400 27U with standard depth of 600mm and removable rear panel equipped with slam latches.

IMRAK® Application: Industry

IMRAK® coupled to the back to minimize the footprint in the corridor. Double doors access to optimize the space available.

IMRAK®
Configurations Examples

IMRAK® Application: Industry

IMRAK® 37U 600 x 600 with front cover trim, red plastic insert "coach line" and bottom cable entry brush.

IMRAK® Application: Industry

IMRAK® open frame 42U 600 x 800 with infil panels.

IMRAK® Application: Industry

IMRAK® 22U 600 x 600 without front door version, with front cover trim kit.

IMRAK® Application: Industry

IMRAK® 1400 with swing frame

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