



**VERAK®**

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**Cabinet with EMC cover and IP65 protection**

## Overview

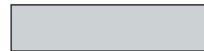
### Material specification

- **Corner verticals:**  
1.6 mm steel
- **End frames:**  
1.6 mm steel
- **Panel mounts:**  
2.0 mm steel
- **Panel mount supports:**  
1.6 mm steel
- **Side panels, door and top panels:**  
0.9 mm steel
- **Glazed door IP65:**  
1.2 mm steel
- **Electrical mounting panel:**  
2.5 mm steel
- **VERAK® load capacity:**  
500 Kg

### 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 standard for safety of information technology equipment  
**VDE 0100:** Selection and Setup for current systems and earthing

### Colour specification



RAL 7035

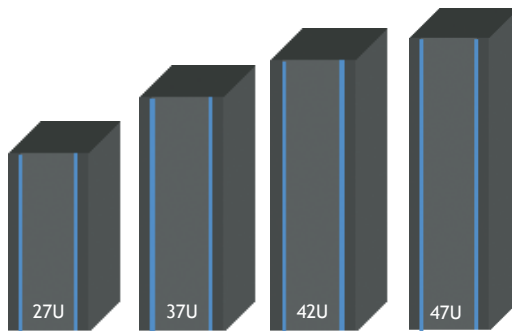


RAL 7037

## Contents

Introduction	101
Technical specifications	102
Configuration	103
Structural elements	107
Accessories	108

## Dimensions



Floor version

Depth 600 - 800 mm

Width 600 - 800 mm

## Protection

1 <sup>st</sup> number	Definition	2 <sup>nd</sup> number	Definition
0	No protection	0	No protection
1	Protected against solids objects over 50 mm (e.g. accidental touch by hands)	1	Protected against vertically falling drops of water
2	Protected against solids objects over 12 mm (e.g. fingers)	2	Protected against vertical direct sprays
3	Protected against solids objects over 2.5 mm (e.g. tools and wires)	3	Protected against vertical direct sprays up to 60°
4	Protected against solids objects over 1mm (e.g. tools, wires and small l wires)	4	Protected against sprays from all directions - limited entry permitted
5	Protected against dust - limited entry (no harmful deposit)	5	Protected against sprays
6	Totally protected against dust	6	Protected against strong jets of water
		7	Protected against the effects of temporary immersion
		8	Protected against long periods of immersion under pressure

## Introduction to VERAK® EMC e IP

VERAK® cabinets are designed to satisfy the most specific requirements of the communications, industrial networking and electronics sectors, providing both IP65 environmental protection and EMC screening. It is available in two versions: VERAK® IP which provides protection from dust and water entry, while VERAK® EMC provides protection from radio frequency interference to ensure that electronic systems meet electromagnetic compatibility requirements. VERAK® EMC allows more than 80dB at 100MHz and 40dB at 1GHz, the highest levels available in a standard product from any manufacturer. The EMC gaskets provide electrical continuity between panels. They self-secure into slots punched in the EMC screen, making it impossible to remove without a tool. VERAK® is an extremely strong floor-standing enclosure. The 2mm steel framework gives the VERAK® enclosure exceptional strength and rigidity with a 750kg static load capacity. The knifed edges that interact with the panel mounted gasket to create the IP seal and give maximum support throughout the structure are an integral part of the verticals. The sides of the knifed edges not only allow accompaniment but also guarantee that EMC gasket isolation is maintained throughout the entire structure. Users can readily change the door hinging from left to right without having to interfere with the IP or EMC sealing.

VERAK® is available with steel or glass front and rear doors. The EMC panels and doors are double skinned, consisting of an inner conductive panel and an outer painted protective cover. The EMC glass door is made of a laminated construction with a fine metal mesh which is encapsulated between two, 3mm glass sheets in order to maintain ground continuity. This also allows visual inspection of the equipment without degrading EMC performance.

The unique design of the closing mechanism, which includes a wedge-shaped gasket, ensures the integrity of the IP and EMC seals. A swing handle controls a four point over center cam closure that exerts the correct pressure on the gaskets, thereby avoiding over compression. The gasket is subjected to minimal compression, so sealing and screening performance does not degrade over time due to repeated door openings. This is a great advantage because the cabinet is regularly opened for use and routine maintenance.

Cables can be brought into the rack from the top, through the bottom and through 5U or 10U high recessed cable entry panels, fitted above or below shortened front or rear doors. Recessed panels ensure that connectors do not protrude outside the overall footprint of the enclosure and removable flat gland plates make punching and drilling an easy job. The screened gland plates provide cable entry capability without compromising the EMC performance. VERAK® cabinets can be fitted with solid or ventilated top covers and bases; the ventilated covers allow forced or natural convection cooling without reducing the enclosure's EMC performance. Integrated cooling solutions, ranging from heat exchangers and air conditioners to intelligent climate control systems, are also available.

VERAK®'s soft line, slightly curved design is equally at home in the office, the communications room or on the factory floor. Its two tone grey colour scheme is neutral, blending with most modern decors, making VERAK® the ideal choice for both heavy industrial and telecoms applications.



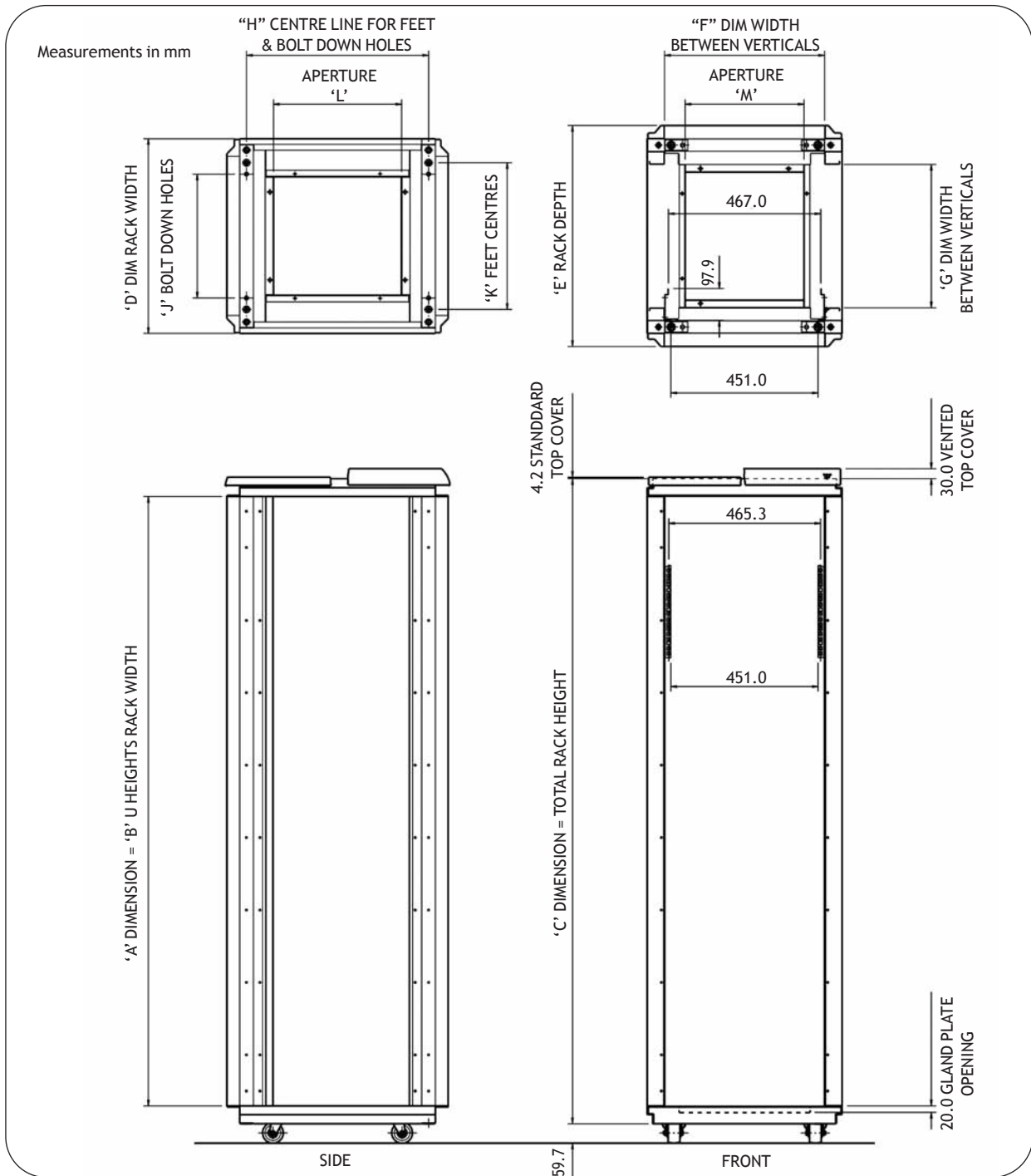
### Key Features: VERAK®-IP

- IP65 certified, enhanced protection against dust and moisture
- Ideal for basements, manufacturing areas and process control applications
- Secure four point door locking system
- Heavy duty frame and robust cladding with 750kg load capacity
- Top, base and rear cable entry access points
- 3 standard height options: 27U, 37U, and 42U
- 2 depth options: 600mm and 800mm
- 2 width options: 600mm and 800mm
- Steel or Glazed front door
- Choice of full length steel rear door or steel door + IP55 5U vent panel (top) + 5U fan panel (bottom)
- Standard front and rear 19" panel mounts
- Wide range of application specific accessories
- Supplied fully assembled and configured with accessories

### Key Features: VERAK®-EMC

- High RFI (Radio Frequency Interference) attenuation
- Ideal for both industrial and office applications
- Exceptional strength allows long distance shipping of fully integrated enclosure
- Secure four point door locking system
- User friendly multiple entry access points
- 3 standard height options 27U, 37U, and 42U
- 2 depth options: 600mm and 800mm
- 2 width options: 600mm and 800mm
- Solid steel doors and side panels
- Shortened steel rear door with 10U cable access panel
- EMC screens at top and bottom (ventilated or IP65)
- Standard front and rear 19" panel mounts
- Wide range of application specific accessories
- Supplied fully assembled and configured with accessories

Technical specifications



Rack dimensions	“A”	“B”	“C”	“D”	“E”	“F”	“G”	“H”	“J”	“K”	“L”	“M”
27U x 600 x 600	1201.8	27	1311.8	597.6	678.0	490.0	440.0	558.0	380.0	450.0	393.4	363.8
27U x 600 x 800	1201.8	27	1311.8	597.6	878.0	490.0	640.0	758.0	380.0	450.0	593.4	363.8
27U x 800 x 600	1201.8	27	1311.8	797.6	678.0	690.0	440.0	558.0	580.0	650.0	393.4	563.8
27U x 800 x 800	1201.8	27	1311.8	797.6	878.0	690.0	640.0	758.0	580.0	650.0	593.4	563.8
37U x 600 x 600	1646.3	37	1756.3	597.6	678.0	490.0	440.0	558.0	380.0	450.0	393.4	363.8
37U x 600 x 800	1646.3	37	1756.3	597.6	878.0	490.0	640.0	758.0	380.0	450.0	593.4	363.8
37U x 800 x 600	1646.3	37	1756.3	797.6	678.0	690.0	440.0	558.0	580.0	650.0	393.4	563.8
37U x 800 x 800	1646.3	37	1756.3	797.6	878.0	690.0	640.0	758.0	580.0	650.0	593.4	563.8
42U x 600 x 600	1868.5	42	1978.5	597.6	678.0	490.0	440.0	558.0	380.0	450.0	393.4	363.8
42U x 600 x 800	1868.5	42	1978.5	597.6	878.0	490.0	640.0	758.0	380.0	450.0	593.4	363.8
42U x 800 x 600	1868.5	42	1978.5	797.6	678.0	690.0	440.0	558.0	580.0	650.0	393.4	563.8
42U x 800 x 800	1868.5	42	1978.5	797.6	878.0	690.0	640.0	758.0	580.0	650.0	593.4	563.8

**Ready to use “Primary” cabinet builds**

The VERAK® ‘Primary’ is a ready to use configured enclosure designed for your convenience. One order code gives you a complete ‘Primary’ enclosure ideal for housing active equipment, electronics and computer servers. It can also be used as a starting base in order to create your own unique configured enclosure by adding additional accessories onto the VERAK® ‘Primary’ enclosure structure. Some of the additional accessories which should be considered are ‘power strips’, heavy duty sliding or fixed shelves, keyboard shelves, plinths and extension plinths.

**Contents of kit**

Description	Qty
Corner verticals	4
End frames	2
19” panel mounts	4
Panel mounts supports	4 or 6
Side panels	2
Top cover (ventilated or IP65)	1
Bottom EMC screen (ventilated or IP65)	1
Top EMC screen	1
Steel front door	1
Shortened rear door	1
10U Cable access panel	1
Reducing cabling channels (on 800mm wide)	4
Set of adjustable feet	1
Earthing kit	1

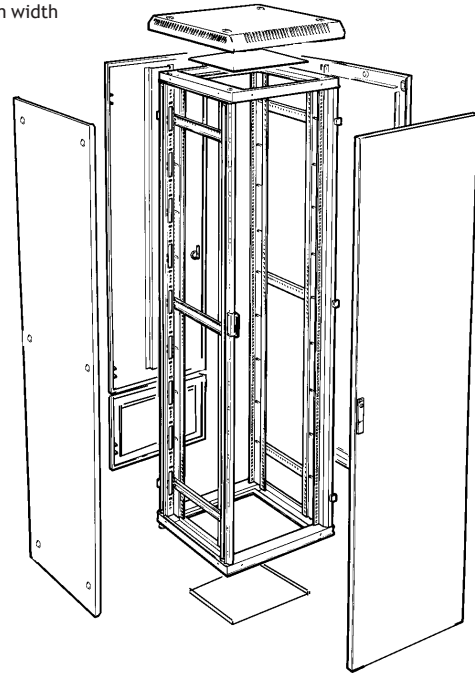
**Ordering information**

Height (U)	M.O.Q.	Net weight (Kg)	Order code
27 EMC + ventilation 600 x 600	1		<a href="#">VT589-790600</a>
27 EMC / IP65 600 x 600	1		<a href="#">VT589-790700</a>
37 EMC + ventilation 600 x 600			<a href="#">VT589-790601</a>
37 EMC / IP65 600 x 600			<a href="#">VT589-790701</a>
37 EMC + ventilation 600 x 800			<a href="#">VT589-790602</a>
37 EMC / IP65 600 x 800			<a href="#">VT589-790702</a>
42 EMC + ventilation 600 x 600			<a href="#">VT589-790603</a>
42 EMC / IP65 600 x 600			<a href="#">VT589-790703</a>
42 EMC + ventilation 600 x 800			<a href="#">VT589-790604</a>
42 EMC / IP65 600 x 800			<a href="#">VT589-790704</a>
42 EMC + ventilation 800 x 600			<a href="#">VT589-790605</a>
42 EMC / IP65 800 x 600			<a href="#">VT589-790705</a>
42 EMC + ventilation 800 x 800			<a href="#">VT589-790606</a>
42 EMC / IP65 800 x 800			<a href="#">VT589-790706</a>

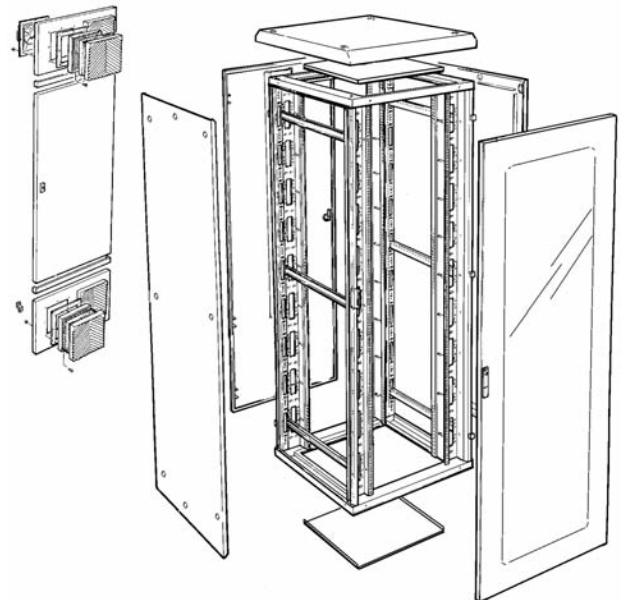
**Dimensions upon request**

U Height	Overall height mm (IP 65)	Internal height (mm)
12U	649.2	535.0
17U	871.5	757.3
22U	1093.7	979.5
32U	1538.2	1424.0
47U	2205.0	2090.8
Description	Addition to height	
Ventilated top	25.8 mm	
Heavy duty castors	59.7 mm	
Adjustable feet	Min. 25 Max 60 mm	

VERAK® PRIMARY RACK BUILD  
600mm width



VERAK® PRIMARY RACK BUILD 800 mm width  
as above but with 4 off cable reducing channels



## Ordering information (some examples)

Height "U"	27	37	37	42
W x D	600 x 600	600 x 600	600 x 800	600 x 600
<b>Main structure</b>				
Frame	VT586-565089	VT586-565105	VT586-565106	VT586-565113
<b>Top / bottom plates</b>				
Top vented screen	VT571-565779	VT571-565779	VT571-565780	VT571-565779
Bottom vented screen	VT571-565771	VT571-565771	VT571-565772	VT571-565771
Top & bottom plain	VT571-565763	VT571-565763	VT571-565764	VT571-565763
<b>Doors</b>				
Glazed door full length	VT571-565685	VT571-565687	VT571-565687	VT571-565688
Steel door full length	VT571-565669	VT571-565671	VT571-565671	VT571-565672
10U cable panel	VT571-565896	VT571-565896	VT571-565896	VT571-565896
Shortened steel door	VT571-565667	VT571-565669	VT571-565669	VT571-565670
<b>For the sides</b>				
Side panels	VT571-565743	VT571-565751	VT571-565752	VT571-565755
EMC/IP baying kit	VT571-565875	VT571-565883	VT571-565884	VT571-565887
<b>IP65 Top covers</b>				
Side vented top	VT571-565651	VT571-565651	VT571-565652	VT571-565651
Fully vented top	VT571-565659	VT571-565659	VT571-565660	VT571-565659
<b>For the bottom of the rack</b>				
Adjustable feet	VT567-565343	VT567-565343	VT567-565343	VT567-565343
Heavy duty castors	VT567-565408	VT567-565408	VT567-565408	VT567-565408
Lifting eyes	VT567-565489	VT567-565489	VT567-565489	VT567-565489
100 mm plinth corners	VT567-565504	VT567-565504	VT567-565504	VT567-565504
Plinth side trim kit	VT802-561035	VT802-561035	VT802-561036	VT802-561035
Plinth front and rear trim kit	VT802-561038	VT802-561038	VT802-561038	VT802-561038



VERAK® EMC details



VERAK® EMC details

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**Contents of kit**

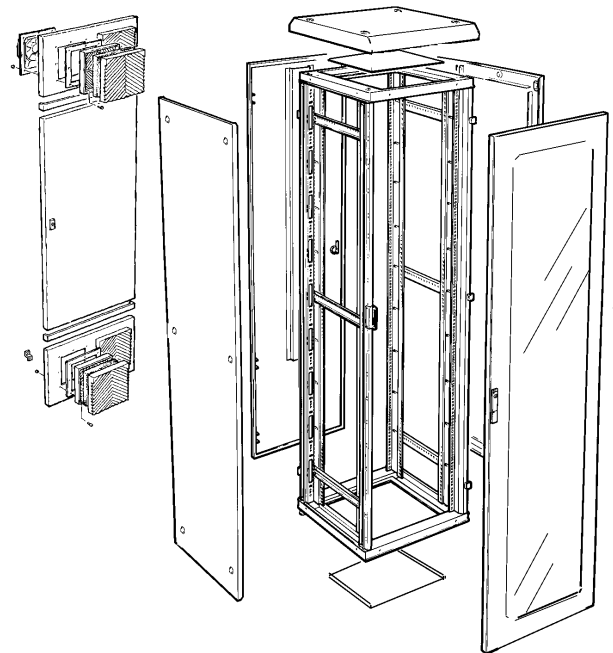
Description	Qty	Material
Corner verticals	4	1.2mm
End frames	2	
19” panel mounts	4	
Panel mounts supports	4 or 6	
Side panels	2	
Top cover	1	
Bottom gland plate	1	
Glazed door	1	
Steel door	1	

**Ordering information**

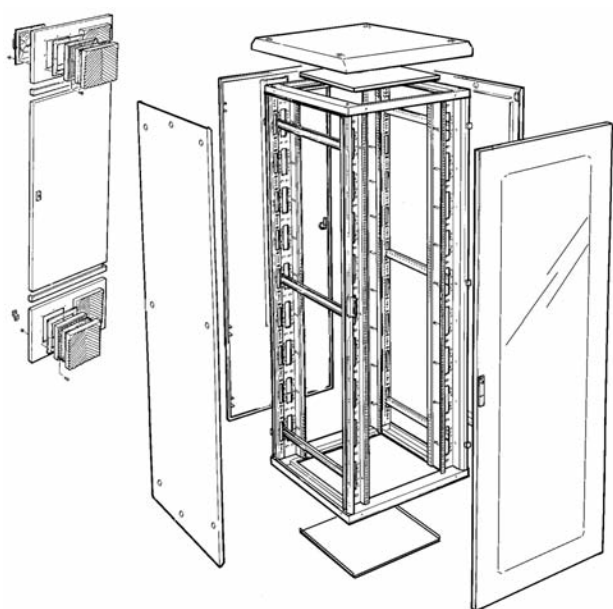
Height	Description	W x D (mm)	Order code
27U	Full length steel rear door	600 x 600	<b>VT588-790300</b>
27U	Short door + forced ventilation	600 x 600	<b>VT588-790400</b>
37U	Full length steel rear door	600 x 600	<b>VT588-790301</b>
37U	Short door + forced ventilation	600 x 600	<b>VT588-790401</b>
37U	Full length steel rear door	600 x 800	<b>VT588-790302</b>
37U	Short door + forced ventilation	600 x 800	<b>VT588-790402</b>
42U	Full length steel rear door	600 x 600	<b>VT588-790303</b>
42U	Short door + forced ventilation	600 x 600	<b>VT588-790403</b>
42U	Full length steel rear door	600 x 800	<b>VT588-790304</b>
42U	Short door + forced ventilation	600 x 800	<b>VT588-790404</b>
42U	Full length steel rear door	800 x 600	<b>VT588-790305</b>
42U	Short door + forced ventilation	800 x 600	<b>VT588-790405</b>
42U	Full length steel rear door	800 x 800	<b>VT588-790306</b>
42U	Short door + forced ventilation	800 x 800	<b>VT588-790406</b>

Note: For forced ventilated option a fan cables must be ordered separately

VERAK IP PRIMARY RACK BUILD with forced ventilation 600mm width



VERAK IP PRIMARY RACK BUILD with forced ventilation 800mm width



# VERAK® IP

## Ordering information

Description	VERAK® IP65	VERAK® IP65	VERAK® IP65	VERAK® IP65	VERAK® IP65	VERAK® IP65	VERAK® IP65
Height "U"	27	37	37	42	42	42	42
W x D	600x600	600x600	600x800	600x600	600x800	800x600	800x800
<b>Main structure</b>							
Frame	VT585-565025	VT585-565041	VT585-565042	VT585-565049	VT585-565050	VT585-565053	VT585-565054
<b>For the top of the rack</b>							
Plain IP65 top	VT567-565635	VT567-565635	VT567-565636	VT567-565635	VT567-565636	VT567-565639	VT567-565640
<b>Doors</b>							
Glazed door	VT567-565605	VT567-565607	VT567-565607	VT567-565608	VT567-565608	VT567-565616	VT567-565616
Steel door	VT567-565541	VT567-565543	VT567-565543	VT567-565544	VT567-565544	VT567-565552	VT567-565552
<b>Side</b>							
Side panels	VT567-565244	VT567-565252	VT567-565253	VT567-565256	VT567-565257	VT567-565256	VT567-565257
IP baying kit	N/A	N/A	VT567-565366	VT567-565369	VT567-565370	VT567-565369	VT567-5653570
<b>For the bottom of the rack</b>							
Bottom gland plate	VT567-565320	VT567-565320	VT567-565321	VT567-565320	VT567-565321	VT567-565324	VT567-565325
Adjustable feet	VT567-565343	VT567-565343	VT567-565343	VT567-565343	VT567-565343	VT567-565343	VT567-565343
Heavy duty castors	VT567-565408	VT567-565408	VT567-565408	VT567-565408	VT567-565408	VT567-565408	VT567-565408
Lifting eyes	VT567-565489	VT567-565489	VT567-565489	VT567-565489	VT567-565489	VT567-565489	VT567-565489



VERAK® IP details



VERAK® IP details

## Frame

The frame comprises of 4 verticals and 2 end frames.

## Glazed door

RFI screened, tinted glass complete with swing handle. The required automatic locked or blank lock option needs to be ordered separately.

## Shortened steel doors and 10U cable access panel

A shortened steel door needs to be ordered with the 10U recessed cable access panel. The cable access panel is recessed by 60mm so cable connectors do not protrude out from the foot print. The panel can be fitted above or below the door and is easily removed to facilitate the fitting of cable connectors etc. The 1.6mm steel door comes complete with swing handle. The required lock or blank lock needs to be ordered separately.

## Top / bottom plates

For VERAK EMC to work as an EMC enclosure top and bottom plates must be fitted.

**Plain** - This plain EMC shielding panel which can be fitted at either the top or bottom of the rack can also be utilized as a cable entry panel.

**Vented** - The vented EMC shielding panel allows air to flow through the rack assuming a 'vented plate' is fitted at both the top and bottom of the rack and the rack is fitted with a ventilated top cover. A top mounted 'fan tray' can also be fitted under the top mounted 'vented plate' to provide forced air cooling.

## Steel doors

1.5 mm steel door is complete with swing handle. The required lock or blank lock needs to be ordered separately.

## Side panels

Side panels are sold in pairs and are 1.5 mm steel painted in RAL7035. The side panels are fitted using captive pozi drive screws which allow the units to easily be fitted or removed.

## Baying bracket kit

The kit consists of the required length of self-adhesive RFI contact fingers and IP gasket material, plus 6 brackets which lock the two racks together to form a bayed suite of racks. For example: If three racks are to be bayed together to make one suite of racks, one pair of 'side panels' are required (to be used on either end of the suite) and two 'baying bracket kits'.

## Plain IP65 top

IP 65 unvented top cover.

## Side vented top cover EMC

This top allows convected air to flow out through the top.

Note: for air to flow through the rack, a vented top and bottom plate must be fitted.

## Fully vented top cover EMC

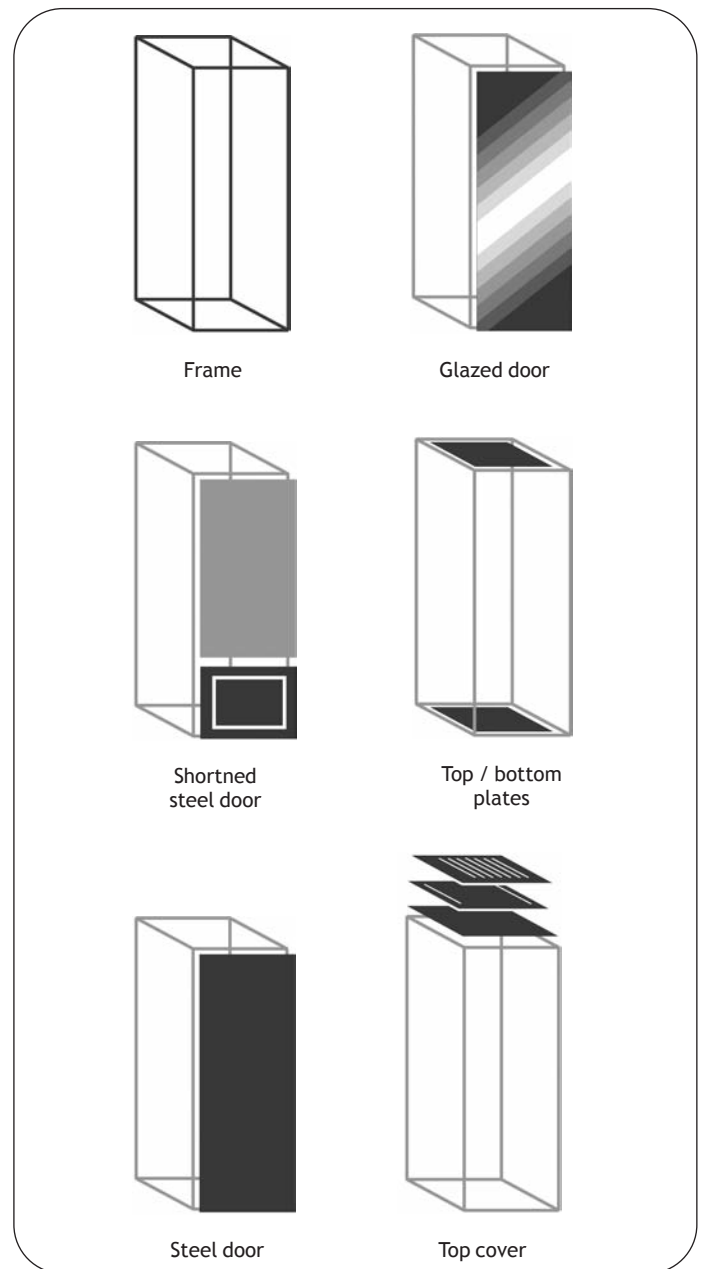
A fully vented top is recommended when a fan tray is to be used.

Note: for air to flow through the rack, a vented top and bottom plate must be fitted.

## Lifting eyes

Lifting eyes are sold as a kit of 4.

Note: 'side vented' and 'fully vented' top covers must be removed before lifting eyes can be fitted.



## Swing handles

Both the metal and glass doors have a swing handle fitted as standard. Please note, the locks for the swing handle need to be ordered separately.

### Keyed alike lock - self locking

All locks supplied operate with the same key and the door automatically locks when closed.

### Keyed alike lock - manual locking

All locks supplied operate with the same key. To lock the door the key must be turned.

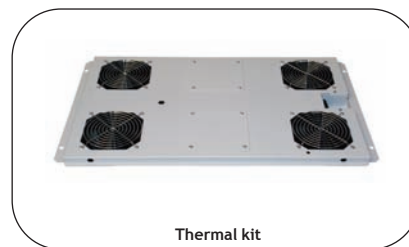
### Lock blank

The lock blank fills the hole in the swing handle when a lock is not required. It also acts as a spring clip holding the handle into its housing.

## Accessories

### Thermal kit (EMC)

Description	Order code
600 x 600, 4 fan unit	VT802-560475
600 x 800, 4 fan unit	VT802-560476
800 x 600, 4 fan unit	VT802-560479
800 x 800, 4 fan unit	VT802-560480



Thermal kit

### Thermal kit (IP)

Description	Order code
5U ventilation panel, 3 fan unit, 600 mm, filters	VT567-565526
5U ventilation panel, 4 fan unit, 800 mm, filters	VT567-565527

Nota: for purchase of ventilation unit , contact sales representative



Thermal kit

### Thermostat and wiring kit

Description	Order code
Thermostat and wiring kit	VK385-775843



Thermostat and wiring kit

### Fixed shelves kit

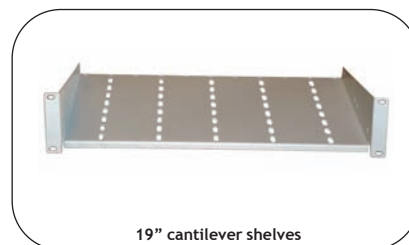
Description	Order code
19" fixed shelf (600 mm) x 256	VT802-561013
19" fixed shelf (600 mm) x 356	VT802-561014
19" fixed shelf (600 mm) x 456	VT802-561015
19" fixed shelf (600 mm) x 556	VT802-561016
19" fixed shelf max 800 x 256	VT802-561017
19" fixed shelf max 800 x 356	VT802-561018
19" fixed shelf max 800 x 456	VT802-561019
19" fixed shelf max 800 x 556	VT802-561020



Fixed shelves kit

### Chassis supports

Description	Order code
Chassis support 270 mm in cabinet 400 mm depth min. RAL 7035	VT802-561009
Chassis support 370 mm in cabinet 500 mm depth min. RAL 7035	VT802-561561
Chassis support 470 mm in cabinet 600 mm depth min. RAL 7035	VT802-561010
Chassis support 570 mm in cabinet 700 mm depth min. RAL 7035	VT802-561562
Chassis support 670 mm in cabinet 800 mm depth min. RAL 7035	VT802-561011
Chassis support 770 mm RAL 7035	VT802-343186
Chassis support 870 mm RAL 7035	VT802-343187



19" cantilever shelves

### Cantilever shelves

Description	Order code
19" cantilever shelf (255 mm deep)	VT802-562284
19" cantilever shelf (400 mm deep)	VT802-562285
Cantilever support bracket kit (256 mm)	VT802-563106



Keyboard shelf

### Keyboard shelves

Description	Order code
19" x 425 mm keyboard shelf	VT802-3635758

### Heavy duty sliding shelves

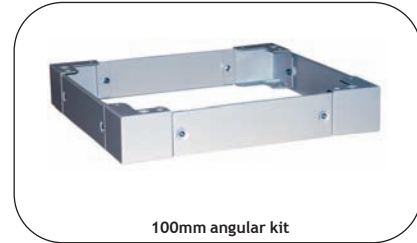
Description	Order code
19" x 630 mm heavy duty sliding shelves	VT802-3635737



Heavy duty sliding shelves

### Plinth

Description	Order code
600 x 600 / 600 x 800 rear / front plinth	VT802-561038
800 x 600 / 800 x 800 rear / front plinth	VT802-561039
600 x 600 / 800 x 600 side plinth	VT802-561035
600 x 800 / 800 x 800 side plinth	VT802-561036
4 angular kit	VT567-565504



100mm angular kit

### Castors kit

Description	Order code
Heavy duty castors kit unbraked	VT567-565408



Castors kit

### Lifting eyes kit

Description	Order code
Lifting eyes kit	VT567-565489



Lifting eyes kit

### Swing handles

Description	Order code
Keyed alike lock - self locking	VT802-563532
Keyed alike lock - manual locking	VT802-563610
Lock blank	VA802-563534



Swing handles

## Accessories

### Network Power Manager

#### Steel Network Power Manager

1U - 19" rackmount	Order code
PDU 4 sockets multistandard w/illuminated switch	K04MET-IL2S
PDU 4 sockets multistandard w/MGT	K04MET-MT2S
PDU 4 sockets multistandard no protection	K04MET-SI2S
PDU 6 sockets multistandard w/illuminated switch	K06MET-IL2S
PDU 6 sockets multistandard w/MGT	K06MET-MT2S
PDU 6 sockets multistandard no protection	K06MET-SI2S
PDU 9 sockets multistandard w/illuminated switch	K09MET-IL2S
PDU 9 sockets multistandard w/MGT	K09MET-MT2S
PDU 9 sockets multistandard no protection	K09MET-SI2S

Also available in 1U 19" up to 16 IEC sockets.



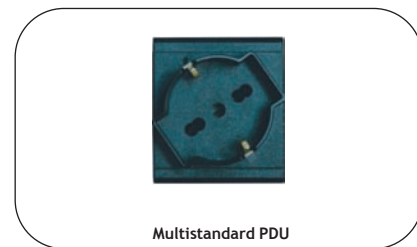
#### Plastic Fireproof Network Power Manager

1.5U - 19" rackmount	Order code
PDU 5 multistandard socket w/MGT	C5NER-MSTDB
PDU 5 UK sockets w/illuminated switch, 13A BS1363 Plug	CL05-UKIL13ABS
PDU 6 multistandard socket w/illuminated switch	C6NER-MSTVI
PDU 6 UK sockets w/MGT, 13A BS1363 Plug	CL06-UKMT13ABS

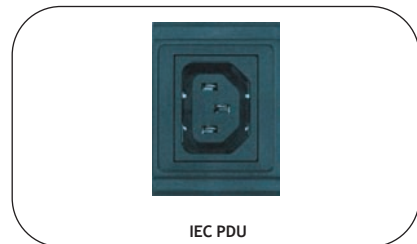
2U - 19" rackmount	Order code
PDU 20 IEC socket w/MGT, 16A DIN49441 Plug	CL20-IECMT16AD

Vertical mounting	Order code
PDU 12 multistandard socket w/MGT	C12NE-MSTDBPC
PDU 12 UK style socket w/MGT, 13A BS1363 Plug	CL12-UKMT13ABS
PDU 12 IEC style socket w/MGT, 16A DIN49441 Plug	CL12-IECMT16AD

Power Distribution Units are CE marked - conforms to CEI EN 60439-1 regulation



Multistandard PDU



IEC PDU



DIN49441 plug



BS1363 plug