



VERAK® S-MAX

19" standard cabinet for server

VERAK® S-MAX

Overview

Material specification

- **Corner verticals:**
1.5 mm steel
- **End frames:**
1.5 mm steel
- **Panel mounts:**
2.0 mm steel
- **Panel mount supports:**
1.5 mm steel
- **Side panels, door and top panels:**
0.9 mm steel
- **Glazed door:**
1.2 mm steel
- **VERAK® S-MAX load capacity:**
1.000 Kg

Standards

IEC 60297: mechanical structures
Dimension for the 482.6 mm (19")
series

DIN 41494: Basic specification for
the 19" construction systems

EN 60950: European safety stan-
dard for information technology
equipment

VDE 0100: Selection and Set up for
heavy current systems and earthing

DIN-1249-11: Glass in building;
glass edges

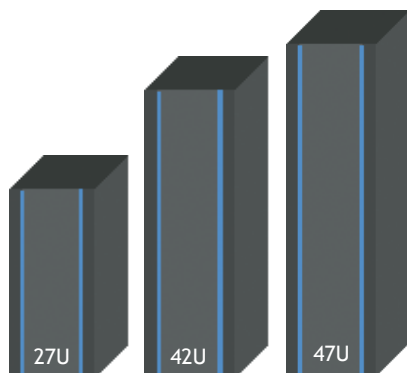
Colour specification



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Dimensions



Floor version

Depth 600* - 800* - 1000 - 1200 mm

Width 600 - 800 mm

* Versions upon request

Introduction to VERAK® S-MAX

VERAK® S-MAX cabinet allows you to create and control in a safe, secure environment computer servers and other active equipment. S-MAX was designed especially to handle an extreme weight capacity, cabling and ventilation needs of both today's and tomorrow's server applications.

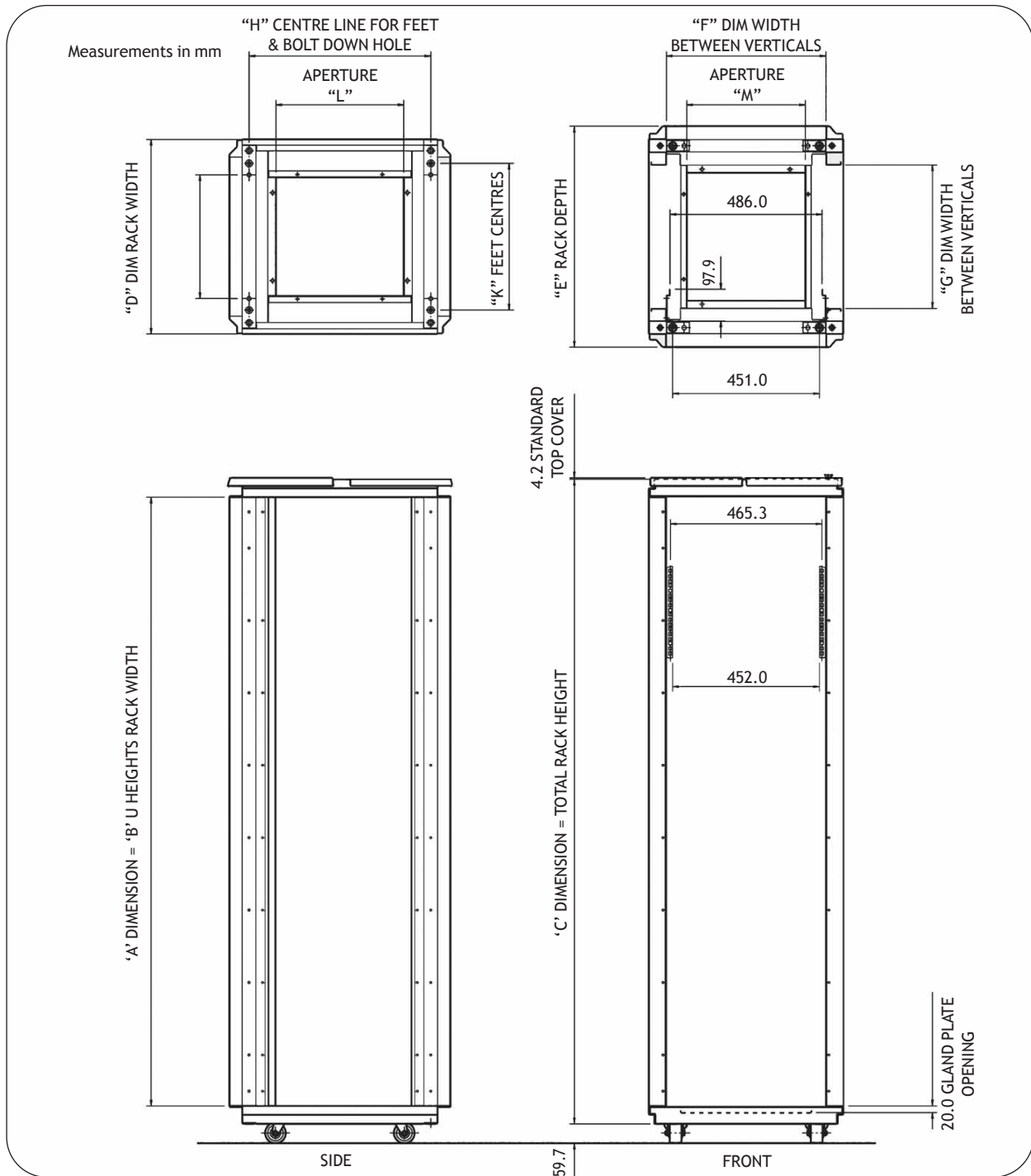
Its physical strength, thermal and security management solutions, combined with its depth options, make it an ideal enclosure for even the largest servers. S-MAX is a multi-platform enclosure, capable of housing all mainstream servers currently on the market. Additionally, S-MAX's ability to handle very large volumes of cables ensures that large amounts of power and data connections can be accommodated. As cabinet sizes increase, the light weight panels ensure that users and installers can work with them safely. At the same time, S-MAX has been strengthened in strategic areas to enable very heavy loads to be accommodated. Heavy duty accessories guarantee the load capacity without compromising the lighter weight benefits. Unique door vent patterns and vented top panels provide efficient ventilation to prevent overheating. A supplement thermal management option is also available by using fan tray units specifically designed for S-MAX. S-MAX has been developed with both ergonomics and aesthetics in mind. S-MAX is a perfect fit in the data room and can be equipped with mechanical or electronic locking systems to prevent unauthorized access.

Key Features:

- Adaptable for Future needs - designed to house all major servers on the market
- Versatile - can accommodate 19" equipment
- Load capacity up to 1.000 Kg
- Fully vented doors and unique door vent pattern to optimize air flow
- Temperature sensor with 3 m cable supplied as standard
- Locking Side panels accessible from only inside the cabinet
- Unique "straight line" cable paths protect cable performance
- Supplied fully assembled
- Raft system for technical floor
- Vast selection of application specific accessories
- 3 height options: 27U, 42U and 47U
- 4 depth options: 1000 mm and 1200 mm plus 600 mm and 800 mm upon request
- 2 width options: 600 mm and 800 mm
- Choose from: pre-configured cabinets or configure your own
- Colour Finishing: - external colour: Anthracite Grey (RAL 7016)
- internal colour: Black (RAL 9005)



Technical specifications



Order code	Rack dimensions	“A”	“B”	“C”	“D”	“E”	“F”	“G”	“H”	“K”	“L”	“M”
VT584-000001	27U 600 x 1000	1201.8	27	1311.8	597.6	978	490	740	858	450	704	363.8
VT584-000002	42U 600 x 1000	1868.5	42	1978.5	597.6	978	490	740	858	450	704	363.8
VT584-000003	47U 600 x 1000	2090.8	47	2200.8	597.6	978	490	740	858	450	704	363.8
VT584-000004	42U 600 x 1200	1868.5	42	1978.5	597.6	1178	490	940	1058	450	904	363.8
VT584-000005	47U 600 x 1200	2090.8	47	2200.8	597.6	1178	490	940	1058	450	904	363.8
VT584-000006	27U 800 x 1000	1201.8	27	1311.8	797.6	978	690	740	858	650	704	563.8
VT584-000007	42U 800 x 1000	1868.5	42	1978.5	797.6	978	690	740	858	650	704	563.8
VT584-000008	47U 800 x 1000	2090.8	47	2200.8	797.6	978	690	740	858	650	704	563.8
VT584-000009	42U 800 x 1200	1868.5	42	1978.5	797.6	1178	690	940	1058	650	904	563.8
VT584-000010	47U 800 x 1200	2090.8	47	2200.8	797.6	1178	690	940	1058	650	904	563.8

Configuration

VERAK® S-MAX - “Primary” Ready to use

The VERAK® S-MAX “Primary” is a ready to use configured cabinet designed for your convenience. One order code gives you a complete “Primary” cabinet ideal for housing active equipment, electronics and computer servers or can be used as a base cabinet to be completed by adding various accessories.

Contents of kit	Qty	Finishes
Corner verticals	4	Black RAL9005
End frames	2	Black RAL9005
2 whole and 2 split 19” panel mounts	4	Black RAL9005
Panel mount supports kit	6	Black RAL9005
Side panels w/ closing internal security	2	Anthracite RAL7016
Top cover ventilated	1	Anthracite RAL7016
Bottom screen	1	Black RAL9005
Glass or ventilated front door	1	Anthracite RAL7016
Ventilated double back door	1	Anthracite RAL7016
Reducing cabling channels (only 800 mm)	4	Black RAL9005
Set of adjustable feet	1	Black RAL9005
Earthing kit	1	Black RAL9005

Ordering information

S-MAX configurations with vented steel front doors

Description	Order code
27U 600 x 1000	VT584-000001
42U 600 x 1000	VT584-000002
47U 600 x 1000	VT584-000003
42U 600 x 1200	VT584-000004
47U 600 x 1200	VT584-000005
27U 800 x 1000	VT584-000006
42U 800 x 1000	VT584-000007
47U 800 x 1000	VT584-000008
42U 800 x 1200	VT584-000009
47U 800 x 1200	VT584-000010

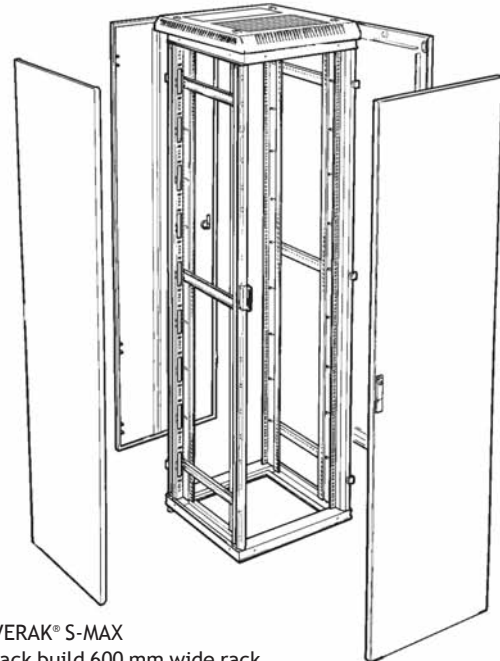
Ordering information

S-MAX configurations with vented glass front doors

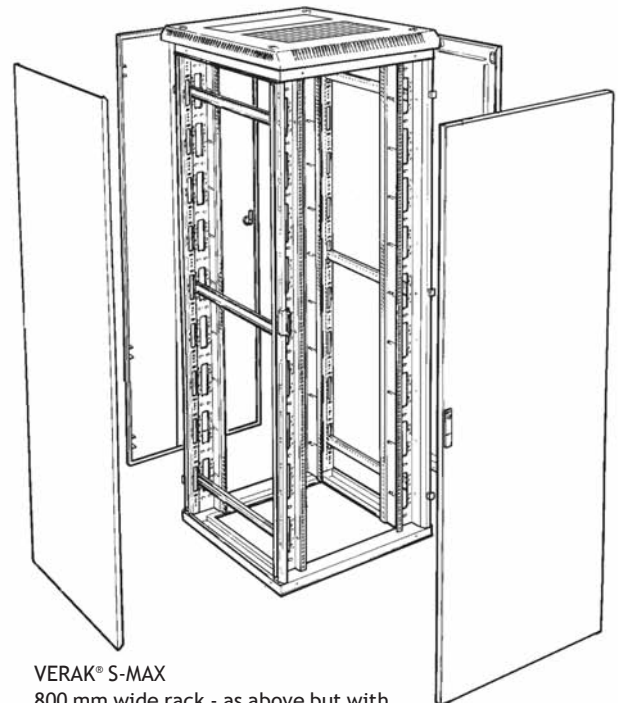
Description	Order code
27U 600 x 1000	VT584-000191
42U 600 x 1000	VT584-000192
47U 600 x 1000	VT584-000193
42U 600 x 1200	VT584-000194
47U 600 x 1200	VT584-000195
27U 800 x 1000	VT584-000196
42U 800 x 1000	VT584-000197
47U 800 x 1000	VT584-000198
42U 800 x 1200	VT584-000199
47U 800 x 1200	VT584-000200

Dimensions

U Height	Overall Height mm	Internal Height mm
27U	1311.8	1201.8
42U	1978.5	1868.5
47U	2200.8	2090.8
	Addition to height	
Heavy duty castors	59.7 mm	
Adjustable feet	Min. 25 Max 60 mm	



VERAK® S-MAX rack build 600 mm wide rack



VERAK® S-MAX 800 mm wide rack - as above but with 4 cable reducing channels

VERAK® S-MAX

Structural elements

Frame

The frame comprises of 4 verticals and 2 end frames.

19" panel mounts

A VERAK® S-MAX is supplied with 4, 19" panel mounts, 2 full height frontal panels and 2 half height rear panels into three sections .

Side panels

Side panels are supplied in pairs and available in 0.9 mm steel with concealed catch locks.

Front door

Vented and non vented doors are suitable for the front or the rear of VERAK® S-MAX and are available in metal or strengthened glass. All doors are supplied with swing handle and multi point locking mechanism.

All front doors are supplied with a visible temperature sensor plus 3m lead mains as standard. The 3m sensor monitors the internal temperature in the most critical position inside the rack.

The rear door has a fully vented double section supplied with swing handle and multi point locking mechanism.

The double vented door can be fitted either on the front or on the rear part of the rack.

Swing handles

Both metal and glass doors have a swing handle fitted as standard. As an option it can be requested with a manual key lock.

Vented top cover

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.

Bottom

The bottom is open to offer maximum space for cables to pass comfortably through.

Castors kit

Heavy duty: Load capacity up to 115 Kg each under average conditions; fitted to the rack with mounting plates. Available in braked and unbraked versions.

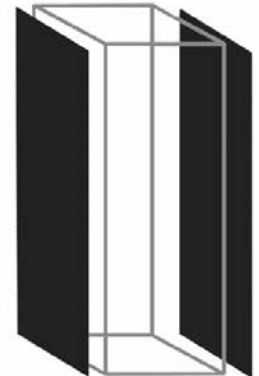
Lifting eyes

Lifting eyes are sold as a kit of 4. Each has a load capacity up to 320 Kg.

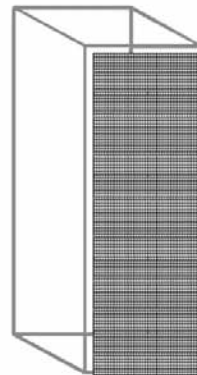
Note: "side vented" and "fully vented" top covers must be removed before lifting eyes can be fitted.



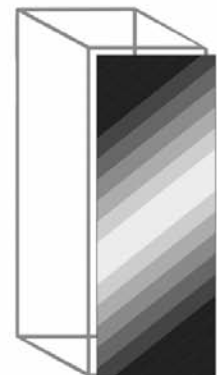
Frame



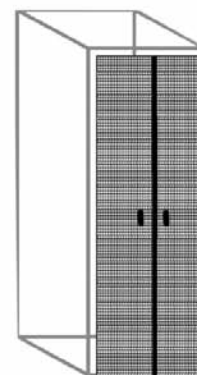
Side panels



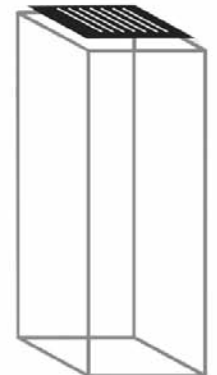
Ventilated door



Glazed door



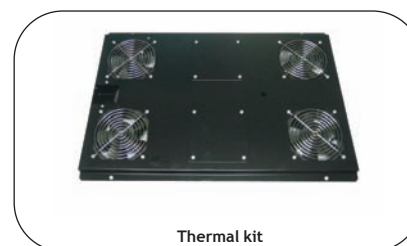
Double door
front / rear



Top cover

Thermal kit

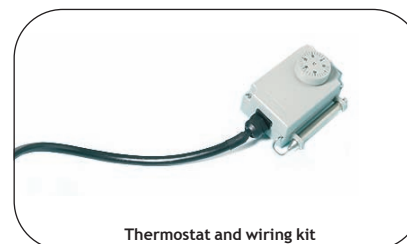
Description	Order code
Thermal kit 6 fans 600 mm	VT584-000157
Thermal kit 6 fans 800 mm	VT584-000159
Thermal kit 4 fans 600 mm	VT584-000188
Thermal kit 4 fans 800 mm	VT584-000190
Thermal kit 6 fans 600 mm low noise	VT584-000218
Thermal kit 6 fans 800 mm low noise	VT584-000219
Thermal kit 4 fans 600 mm low noise	VT584-000216
Thermal kit 4 fans 800 mm low noise	VT584-000217



Thermal kit

Thermostat and wiring kit

Description	Order code
Thermostat and wiring kit	VK385-775843



Thermostat and wiring kit

Fixed shelves kit load capacity 100 Kg

Description	Order code
670 mm deep fixed shelves kit	VT584-000133
770 mm deep fixed shelves kit	VT584-000134
870 mm deep fixed shelves kit (only 1200 version)	VT584-000135



Fixed shelves kit

Sliding shelves kit load capacity 100 kg

Description	Order code
625 mm deep sliding shelves kit	VT584-000151
825 mm deep sliding shelves kit	VT584-000152



Sliding shelves kit

19" Cantilever shelves

Description	Order code
255 mm deep 19" cantilever shelves kit	VK593-599790
400 mm deep 19" cantilever shelves kit	VK593-599791
19" cantilever sliding keyboard shelves kit	VK385-775709



19" Cantilever shelves

Plinths kit 100 mm

Description	Order code
Plinth kit 100 mm 600x1000	VT584-000220
Plinth kit 100 mm 800x1000	VT584-000221
Plinth kit 100 mm 600x1200	VT584-000222
Plinth kit 100 mm 800x1200	VT584-000223

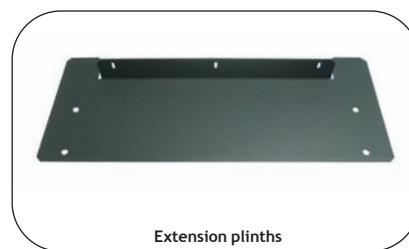


Plinths kit 100 mm

Accessories

Extension plinths

Description	Order code
Extension plinth for 600 mm wide rack	VT584-000209
Extension plinth for 800 mm wide rack	VT584-000210



Extension plinths

Lifting eyes kit

Description	Order code
Lifting eyes kit	VT567-565489



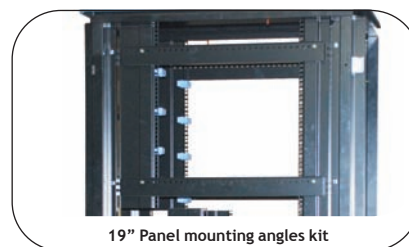
Lifting eyes kit

Lock options

Description	Order code
Keyed alike lock - manual locking	VT802-563610

19" Panel mounting angles kit

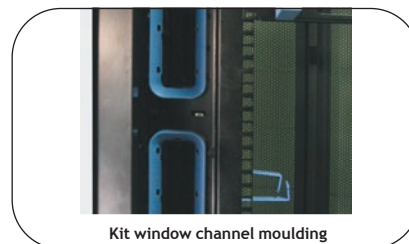
Description	Order code
19" 27U front panel mount kit	VT584-000048
19" 42U front panel mount kit	VT584-000049
19" 47U front panel mount kit	VT584-000050
19" 27U cable reducing channels kit 800 mm	VT584-000054
19" 42U cable reducing channels kit 800 mm	VT584-000055
19" 47U cable reducing channels kit 800 mm	VT584-000056
19" 27U rear split in three section panel mount kit	VT584-000060
19" 42U rear split in three section panel mount kit	VT584-000061
19" 47U rear split in three section panel mount kit	VT584-000062



19" Panel mounting angles kit

Kit window channel moulding

Description	Order code
125 mm window channel moulding light blu kit 10 pz.	VT593-599469
125 mm flag moulding kit 10 pz.	VT593-599470



Kit window channel moulding

Castors kit

Description	Order code
Heavy duty braked castors kit 2 pz.	VT584-000249
Heavy duty unbraked castors kit 2 pz.	VT584-000251



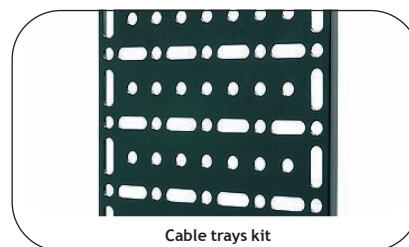
Castors kit

Baying kit

Description	Order code
Baying kit	VT584-000131

Cable trays kit

Description	Order code
Cable tray kit 27U	VK385-775713
Cable tray kit 42U	VK385-775715
Cable tray kit 47U	VK385-775850



Cable trays kit

Single and double cable hoops kit

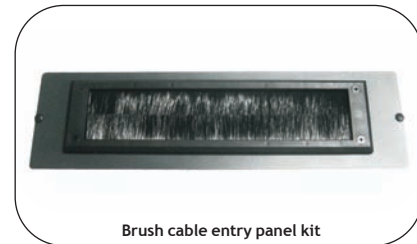
Description	Order code
Double cable metal hoops kit 10 pz.	VK385-775723
Single cable metal hoops kit 10 pz.	VK385-775724
Single cable plastic hoops kit 10 pz.	VK385-776232



Single and double cable hoops kit

Brush cable entry panel kit

Description	Order code
Cable entry panel with brush	VT584-000225



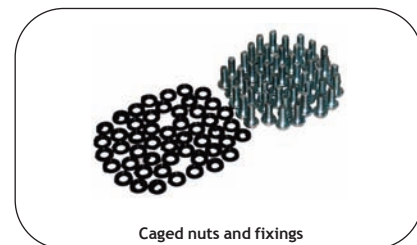
Brush cable entry panel kit

Cable management panels kit

Description	Order code
1U 19" cable management panel w/ metal hoops	VK385-776196
1U 19" cable management panel w/plastic hoops	VK385-776229

Caged nuts and fixings

Description	Order code
M6 caged nuts kit 50 pz.	VK385-776190
M6 x 12mm pozi-drive screws and cup washers kit 50 pz.	VK385-776191



Caged nuts and fixings

Earth continuity kit

Description	Order code
Earth continuity kit	VT802-560005



Earth continuity kit

Active Rack Controller (ARC)

Description	Order code
ARC 19" 1U w/temperature/humidity sensors and software	N/A
Active Rack Controller Top version with temperature/humidity sensors and software	N/A
Smoke detector	N/A
Shock sensor	N/A
Door sensor (open/close)	N/A
Electronic handle w/keyboard and electric lock	N/A
Sound sensor	N/A
Electric lock	N/A
Badge reader	N/A
Keypad	N/A



Active Rack Controller (ARC)

Fire Protection Unit (FPU)

Description	Order code
Unit Master FPU w/ smoke detector and GAS FM200 for 1,5m	VA295-000000
Unit Slave FPU w/ smoke detector and GAS FM200 for 1,5m	VA295-000001



Fire Protection Unit (FPU)

VERAK® S-MAX

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.



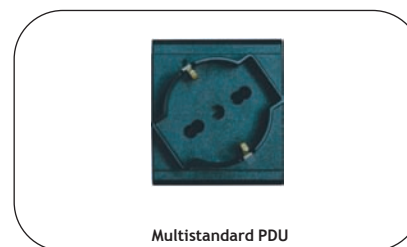
Plastic Fireproof Network Power Manager

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

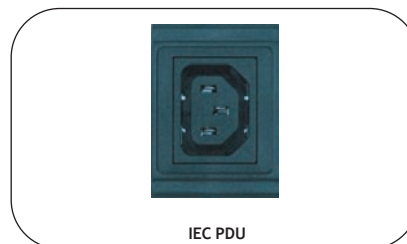
2U - 19" rackmount	Order code
PDU 20 IEC socket w/MGT, 16A DIN49441 Plug	CL20-IECMT16AD

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