

VERAK® EMC

19" stand alone cabinet with radio frequency protection



- Cabinet frame formed by 4 verticals and 2 welded end frames (top/bottom);
- Static load rating of 1000 Kg uniformly distributed;
- Adjustable 19" panel mounting angles at the front and at the rear compliant to IEC60297 norms;
- 19" side reducing cable channel (800 mm cabinet width) for vertical cable management designed to support cable management accessories;
- Side vented, fully vented or unvented IP65 top covers;
- Front metal framed glass door and single rear metal door, swing handle with manual key lock with 4 points closing system. Metal front door as option;
- Personalized solution with shortened rear door and 10U cable entry EMC panel;
- Easily removable side panels with captive screw fasteners;
- Adjustable feet;
- Castors with load rate up to 250 Kg as optional;
- Additional bay version settled for bayed cabinet;
- High attenuation RFI (radiofrequency interferences);
- Designed to mount the earth continuity kit according to EN60950 norms.

TECHNICAL FEATURES

VERAK® EMC is a standard range of standalone cabinets that protects equipment from radio frequency interference enabling electronic systems to comply with the requirements for electromagnetic compatibility. VERAK® EMC gives more than 80 dB attenuation at 100 MHz and 40 dB attenuation at 1 GHz, the highest levels available in a standard product from any manufacturer. The stainless 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® EMC is an extremely robust cabinet. The 2 mm framework gives exceptional strength/rigidity and therefore provides for a static load capacity of 1000 Kg. The front and the rear doors can be right or left hinged and are provided with a closing mechanism which includes a seal wedge to prevent the integrity of the sealing system. A swing handle controls a 4-point locking system holding the proper pressure on the "fingers"

for continuity. VERAK® EMC is available with steel or glass front or rear door. The EMC panels and the metal door have a double panel consisting of a conducting inner layer and an external painted one. The EMC glass door, in particular, is equipped with a thin metal mesh enclosed between two sheets of 3 mm glass to maintain ground continuity and to allow the visual inspection of the equipment without compromising the EMC performance. The cables can be brought into the rack from the bottom and through 10U high recessed cable entry panel, 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. VERAK® EMC cabinets can be fitted with solid top covers and plain or vented bases. The ventilated covers allow natural or forced convection cooling without reducing the enclosure's EMC performance. Other solutions are available: for example integrated forced cooling fan trays that can be mounted externally to the protected area. Standard fan tray includes 4 or 6 fans. VERAK® EMC the ideal choice for both heavy industrial, electronics and telecoms applications.

DIMENSIONS:

Internal Height	27U / 37U / 42U / 47U
Full Height	1315 / 1760 / 1982 / 2205 mm
Depth	689 / 889 / 989 mm
Width	600 / 800 mm
Mounting depth	486 / 686 / 786 mm (panel mount – panel mount)
Load capacity	1000 Kg

FINISHING:

Standard color	Grey RAL 7035 / Custom colours on demand Side panels
	Grey RAL 7037 / Custom colours on demand Top cover, front and rear doors
Optional color	ZINC PLATED / Custom colours on demand Internal frame, 19" panel mounting angles and panel mount supports
	Anthracite RAL 7016 / Custom colours on demand Top cover, front and rear doors, side panels
	Black RAL 9005 / Custom colours on demand Cabinet frame, 19" panel mounting angles and panel mount supports
	ZINC PLATED / Custom colours on demand Internal frame, 19" panel mounting angles and panel mount supports

MATERIALS SPECIFICATIONS:

Frame	Steel 2.0 mm
Panel mounting angles and reducing channels	Steel 2.0 mm
Panel mount supports	Steel 1.5 mm
Side / rear panels	Steel 1.5 mm
Top cover	Steel 1.2 mm
Doors	Steel 1.5 mm
Glass	Twin glass 3 mm thick with thin wire mesh inside

STANDARDS:

IEC 60297	Dimension of mechanical structures of the 19" equipment
DIN 41494	Basic specification for 19" construction systems
EN 60950	European safety standards for information technology equipment
VDE0100	Installation and set up of current system and grounding
DIN-1249-11	Glass building; glass edges