

RAINFORD NAVAL CABINET - EMC SHIELDED

RACKS AND CABINETS

RAINFORD


The RAINFORD Naval Cabinet is a **military-specification enclosure** for housing standard 19" rack-mount equipment in a certified **EMC-shielded and drip-proof** environment. Built from aluminium using Commercial Off The Shelf (COTS) design and manufacturing principles, it is certified to withstand explosion-level shock forces to **Def Stan 08-123**, with EMC/RF shielding tested to **MIL-STD 461E**. Available in **24U, 30U, 33U and 36U** sizes with a left- or right-hand opening front door, it is designed for naval vessels, defence and marine installations, with a minimum 20-year design life.



Dimensions: 1200–1700 (H) x 610 (W) x 800 (D) mm



Weight: 117 kg max (36U, empty)



Packaging dimension: TBC

FEATURES & BENEFITS

- EMC/RF shielded to MIL-STD 461E, with honeycomb EMC-filtered air inlet and vent
- Shock and vibration certified to Def Stan 08-123
- Drip proof to Def Stan 00-35 Test CL28
- Aluminium body, polyester powder coated
- Front and rear 19" mounting rails; horizontal and vertical cable trays
- EMC-protected gland plates in roof and base; full-length removable rear and side panels
- 2-point locking front door with door-stay, detachable if required; LH or RH opening
- Fully earth bonded, with horizontal earth bar and external earth point
- 4 removable lifting eyes, CO₂ injector point, cooling options to suit duty

APPLICATIONS

- Naval vessels and marine defence systems
- Shipboard electronics and control systems
- Military and defence communications infrastructure
- EMC-sensitive electronic installations
- Ruggedised 19" rack equipment housing
- Mission-critical communications and marine IT networks
- Defence and COTS equipment integration

PRODUCT VIEWS



Internal view

19" rails, cable trays, earth bonding and EMC-filtered vent



Rear top view

Honeycomb EMC filter vent and removable lifting eyes

TECHNICAL SPECIFICATION

Properties		Value
Rack format		19"
Capacity		24U / 30U / 33U / 36U
Material / finish		Aluminium, polyester powder coated
Weight (kg)	Empty (36U)	117 max
	Fully populated	400 max
Operating environment	Temperature	15 °C to 40 °C
	Relative humidity	30% to 70%
Ingress		Drip proof (Def Stan 00-35 Test CL28)
Design life		Minimum 20 years

CERTIFIED PERFORMANCE

Test		Value
EMC / RF shielding MIL-STD 461E	1 MHz – 500 MHz	> 80 dB
	500 MHz – 1 GHz	> 50 dB
	1 GHz – 18 GHz	> 20 dB
Shock Def Stan 08-123, DS 27	Vertical	70 G
	Horizontal	30 G
	Longitudinal	30 G
Vibration Def Stan 08-123, DS 25	5 Hz – 14 Hz	1.25 mm
	14 Hz – 33 Hz	0.125 mm
Endurance Def Stan 08-123, DS 25	14 Hz	1.25 mm
	23 Hz	0.3 mm
	33 Hz	0.125 mm

ORDERING INFORMATION

CODE	MODEL	DOOR	DIMENSIONS (H x W x D)	WEIGHT	CONDT	PACKAGING DIMENSIONS	PACKAGING WEIGHT
MA003602	24U	Left hand	1200 x 610 x 800 mm	TBC	1	TBC	TBC
MA003603	24U	Right hand	1200 x 610 x 800 mm	TBC	1	TBC	TBC
MA003604	30U	Left hand	1450 x 610 x 800 mm	TBC	1	TBC	TBC
MA003605	30U	Right hand	1450 x 610 x 800 mm	TBC	1	TBC	TBC
MA003606	33U	Left hand	1570 x 610 x 800 mm	TBC	1	TBC	TBC
MA003607	33U	Right hand	1570 x 610 x 800 mm	TBC	1	TBC	TBC
MA003608	36U	Left hand	1700 x 610 x 800 mm	117 kg max	1	TBC	TBC
MA003609	36U	Right hand	1700 x 610 x 800 mm	117 kg max	1	TBC	TBC

Weights shown are empty cabinet. Maximum fully populated rack weight 400 kg.