



The Mobile Facility (MF) Shelter has been designed in accordance with TEMPEST requirements to house tactical C4I equipment. Fully equipped with environmental control units and Nuclear – Biological – Chemical (NBC) filter is suitable for operations under adverse environmental conditions.

Features

- 20' ISO format for air, marine, and land transportation
- Two locking doors fitted with RF gaskets and overpressure valve
- C-rails for equipment mounting
- IRR-NBC camouflage paint
- Electromagnetic shielding
- Thermal insulation
- Dual environmental control units
- NBC filter (positive pressure)
- Diesel-powered transportation heater
- Fire detection and extinguishing system
- Power line isolation transformer and EMI-EMC filter
- Power input connectors
- Main distribution panel (external)
- Secondary distribution panel (internal)
- Roof and emergency lights
- Retractable steps for roof access
- Dual-axis inclinometer for deployment
- Standard tools (spade, ax, pickax, sledgehammer, grounding rods, portable fire extinguishers)
- Fire station (ax, blanket, flashlight)
- First-aid kit
- Fiber optic connection panel
- External speaker and antenna mounts

Standard Equipment

MF-SHELTER	Standard MF shelter
MF-SHELTER-P	MF shelter with internal partition, locking door, air circulation equipment, and tuned pass-through conduits

Optional Equipment

MF-SHELTER-UPS	Uninterruptible power supply
MF-SHELTER-PDP	Power distribution panel, internal
MF-SHELTER-RF_PANEL	External RF connection panel
MF-SHELTER-COMMS_PANEL	Push-terminal panel for external communications lines (radios, telephones, etc.)

Services

MF-SHELTER-MODEL	3D-modelling of equipment to be installed inside the shelter prior to installation (PDPs, outlets, ancillaries, consoles, racks, distribution frames, cable trays, etc.)
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MF-SHELTER

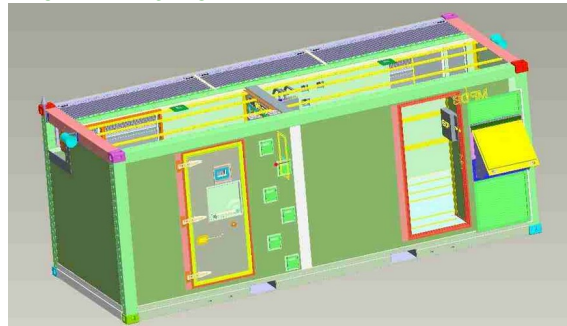
20' ISO-FORMAT LIGHT EMC SHELTER FOR TACTICAL APPLICATIONS



MF-SHELTER LEFT SIDE



MF-SHELTER RIGHT SIDE



MF-SHELTER 3D-MODEL

Application

The SSA MF SHELTER has been designed to accommodate data processing and communications equipment for use in adverse environments. The shelters are fully shielded to prevent electromagnetic radiation from entering or exiting the shelter, making it suitable for TEMPEST applications. Optical fibers are used for inter-shelter connections. A partitioned shelter version with an internal locking door and additional EMI filtering is available for RED/BLACK voice and data implementations (crypto – sensitive data)

A full complement of ancillaries are available for mounting equipment and individual electrical and electronic devices on the shelter's C-rails (see MF-SHELTER ANCILLARIES data sheet).

MF-SHELTER Specifications	
Application	Light transportable tactical shelter, TEMPEST applications
Environmental Control Units	Capacity 55,000 BTU/HR Air Flow 1800 CFM Heating Capacity 11.0 kW Minimum Ambient Cooling -17° C Minimum Ambient Heating -45.5° C Refrigerant Type R407-C
NBC Filter Unit	Positive pressure system, pressure relief valve on shelter doors, NBC filter, ECU interfacing, NBC control panel and pressure meters
Diesel air heater	External diesel fuel tank, control panel, air inlets with removable blocking plates, used for air and land/rail transportation. Maintains acceptable equipment storage temperatures for up to 24 hours.
Fire detection and extinguishing system	Fire control panel, thermal and smoke detectors, starter cylinder with automatic and manual release valve, extinguishant cylinders, emergency switches, alarm bell and light, C-rail mounting adapters, power cut off
Dimensions (on ISO corners)	Length 6,058 mm, Width 2,438 mm, Height 2,438 mm
Thermal transmission coefficient (K)	< 1 W/m ² ·K
External finish	- one coat A21 thickness 40 +/-5 µm - one coat F61 marked GAM-C 2475 thickness 47 µm - overall thickness: 87 +/-7 µm camouflage paint: CARC-IRR colors
Environmental	Wind speed Steady and up to 40m/s Temperature -40°C to +55°C Relative humidity 20-80% non-condensing, with a maximum change rate of 10% and up to 95% for 20 hours Local rain 100mm/hr Solar radiation load up to 1130 W/m ² Hailstone size upto 30mm in diameter Air pressure range 55-109 kPa Salt spray 100 hours of 10 % of sodium chloride solution spray Sand/ Dust Concentration up to 1 g/m ³ , air velocity of max 10 m/s.
Environmental conditions inside the shelter	Temperature 18° - 21° C controllable, ±4°C for short periods Relative humidity 40-65% for outdoor temperatures -10° C up to 45° C
Applicable standards and recommendations	NATO 6516/SHCPE/86 EN 13164, NF EN 1396, EN 485-1, EN 485-4, EN 573-3 ISO 9956-4, ISO 9956-4 ISO 1161, ISO 1496-1, ISO 668 MIL-STD-285, IEEE 299 MIL-STD-810F

List of Services Offered	
Training Pre-Installation Installation Post-Installation	Maintenance Personnel. System Design, Installation Study. Shelter assembly and testing. After sales technical support.



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