9001 Series Air Monitoring Shelter Technical Specifications

Air Monitoring Shelter

- Standard size: 12ft (L) x 8ft (W) x 8ft (H)
- Other sizes available: 6ft/8ft/10ft/14ft/16ft (L) or other
- Standard 36" side door with door closer and handle/lock
- Standard 36" metal door for storage area access
- Exterior Aluminum Skin (Ivory)
- Exterior aluminum trim (corner angle and corner caps)
- Titanium Dioxide Waterproofing Agent
- Shelter designed by Leadership in Energy & Environmental Design Accredited Professional LEED AP)

Shelter Design

- Control room area: 12ft (L) x 8ft (W)
- Isolated storage area: Optional dependent on overall size
- Control room area insulation: R-25 equivalent
- Storage area insulation R-25 equivalent
- Stud-less wall construction minimizing thermal bridges (heat gain/loss)
- Fork-truck and crane lifting points
- Fiberglass reinforced paneling interior walls (white)
- Shelter tie down system for securing to the pad/piers

Interior Features

- Seamless Vinyl Flooring, Raised coin pattern
- 8' workbench, scratch, moisture and heat resistant
- Wall mounted cabinets, aluminum construction, with doors and shelf
- Two (2) Instrument Racks, 19" standard, with removable trays/slides for instruments
- Eight port glass sampling manifold with pump
- Exhaust Manifold
- Telephone/DSL Network Interface Device, one phone line and one DSL connection point
- Isolated Pump shelving in storage area or pump cabinet, including thermostatically controlled exhaust fan (305CFM), ventilation, bulkhead penetration for calibration lines and tubing management system
- Integrated calibration control system for automatic calibrations of each gaseous instrument with manifold pump control
- Four (4) Cylinder Mounting Brackets
- Wire and tubing management systems incorporated throughout the shelter

8' x 8' x 12' Air Monitoring Shelter in Tan

HVAC System

- 1.0 Ton (10,800Btu) with 3kW heating capacity
- Temperature stability +/-2°C within 20°C-30°C range
- Aluminum Finned Copper Coils
- Quiet Twin Blowers
- High Efficiency Rotary Compressor
- Green Refrigerant – R-410A Refrigerant-non ozone depleting (HFC)
- Galvanized zinc coated steel enclosure
- Automatic Condensate Disposal System
- Programmable Thermostat with auto-switch over

Electrical System

- Electrical System meets or exceeds NEC Regulations
- Premium SquareD Electrical Components
- 100A 120/240V 1PH Electrical System Ready
- 100A 120/240V 1PH Load Center, 20 circuit capacity,
- 100A 240V 1PH External Disconnect Box, NEMA 3R
- Metal Electrical Raceway, Surface Mount
- Three (3) Fluorescent Light Fixtures, 2 bulb, T8
- Four (4) Internal 120V 20A Duplex Outlets (Control Room)
- Two (2) dedicated instrument rack outlets, 120V 20A, ceiling mounted
- Four (4) Internal 120V 20A duplex outlets (Storage Area)
- Two (2) External 120V 20A GFCI Outlets (roof mounted)
- Uninterrupted Power Supplies (UPS)
    - 1500VA mounted in instrument racks

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Roof Features

- Roof configured for operation of samplers
- Aluminum Modular Safety Railing with kick-plate, OSHA compliant
- Aluminum Tread Plate, slip resistant
- Rubber Membrane Roofing
- Aluminum Access Staircase with railing
- Two (2) Roof penetrations for sample probes, 2"ID

Ten-meter Meteorological Tower

- Removable Tower Bracket mounted on the shelter
- Telescoping Aluminum 10-meter Mast with manual winch
- Aluminum cross-arm and brackets for met sensors
- Lightning protection & grounding kit for Met Tower
- Lightning protection device for meteorological sensors (RS-232 based)
- External water-proof signal cable box, 6" x 6" x 4"

Shelter interior

Standard Warranty

- Twelve (12) months

8' x 8' x 12' Air Monitoring Shelter in dark gray

Workbench, Tool Chest, and Pump Cabinet to reduce heat, noise, and vibration