



Transportable Laboratory



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TRANSPORTABLE LABORATORIES



We manufacture purpose built mobile laboratories bespoke to your requirements. We have even developed a horsebox style trailer into a small mobile laboratory unit for Environmental research.

Our laboratories are transportable and can be developed within standard ISO shipping container dimensions for easier and more cost effective transportation within the UK as well as shipping overseas.

Our service can include design layout creating you the most space efficient and practical arrangement. Other services include maintenance checks, overhaul and refurbishment and logistical & technical support.

Designed to be reasonably self-sufficient once hooked up to water and power. With optional items such as sinks, fridge, freezer, gas hobs and a water storage tank for results and sample storage or for general sustenance purposes. We can provide desk / worktop space, equipment racking and storage units bespoke made to suit the job.

We have on site designers, electrical and electronic team, fabrication (including Coded welding) and project management. This enables us to fit out the cabins to the specific requirements set by our clients.

Equipment lifting system designed to maximise roof space for additional environmental testing and sampling. (Please see photo of white lab for visuals).

A specialist side lift was built for deployment of equipment to the roof area. The work area on the roof of the laboratory was then fitted with a safety boundary and the integral ladder in the cabin exterior was supplied with a removable safety cage for extra personnel safety whilst ascending or descending.

Fixtures & Fittings:

- Standard fittings include lab sinks, worktops, benches, cupboards & drawers.
- Many labs have separate sink and galley kitchen facilities.
- Labs can be fitted with generators, external power supply with voltage conditioning and Uninterruptible Power Supply Unit.
- Roof ladder access and work area.
- Full air conditioning with energy conserving reverse heat pump.
- Ventilation fume and heat extraction.
- Special Multiple cable & pipe entry system adaptable to most cable and pipe size – fully sealable.
- Electrical supplies designed to operate from 230 & 415V 50-60 Hz.

Safety options Available:

- Lockable windows. Window blinds. Emergency exit windows.
- Security shutters ideal protection for transportation and remote sites.
- Safety electrical shutdown button isolating all of the electrics.

Please contact Peter Evans if you require further information on any bespoke products or additional services.

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UPS & Hydrogen Generator



Safety shutters.
Gas bottle rack.
Jack up wheels for manoeuvring.



External additions: Roof access ladders. Roof space can create additional storage or work areas. Safety boundaries can be made to be erected on site and collapsible for transportation. The white laboratory shows an equipment lift which once it reaches the roof has runners to glide the equipment safely onto the roof area. The blue lab is fitted with removable jack up wheels & tow bar for manoeuvring by personnel on campus into tight areas where hiabs and cranes can not access. Easy to fit window plates for transportation and security can be manufactured as required.

Specifications for Container style Laboratories



GENERAL CONSTRUCTION	
Build Standard	Purpose built Offshore service container. Load tested, marked and certified to BS EN 12079 and DNV 2.7-1. Or as required
External Dimensions	Standard lengths are 16ft 4880 mm, 20ft 6096mm & 40ft 12,192mm. Other sizes can be manufactured however they may occur additional costs and lead-times. Width & heights are standard 2440mm wide x 2590mm high (8 ft 6")
Structural Materials	Bulkheads will be 4mm corrugated plate.
Lifting Points	Fork lift pockets set into base, lifting padeyes to top corners. ISO corners to base. 4 leg sling and shackles (optional extra).
Storage Area – not available on all size containers	External lockable heavy duty mesh door with integral roof access ladder, provides access to a storage area. Cut out enables the door to be closed after the cables have been run out.
Personnel Access Door	Outward opening, lockable A60 door, with 1900 x 850 mm opening.
External Protective Coating Single colour to customer requirements.	Surfaces will be shot blast clean. Primer and Intermediate coating layers 2 part epoxy paint. Top coating 2 part Polyurethane finish. The roof to be non slip finish. Underside protected with bitumastic black paint.
External Graphics / Logo	Can be made and adhered as required. Prices on application.
INTERNAL CONSTRUCTION	
Passive Fire Protection	Bulkheads, floor & deckhead can be insulated and lined with heat and fire retarding materials to SOLAS A60 standard.
Walls and Ceiling	Lined with non combustible Cape wall board, covered with fire rated white Formica sheet.
Floor	DOT approved non slip & fire retarding certified vinyl Altro floor.
Interior Layout	Can be designed in-house, bespoke to the Client's requirements.
Heating & Ventilation	Ventilation is provided via the inlet and exhaust grill and fan.
ELECTRICAL	
Cabin required supply	230 & 415V 50-60 Hz.
Transformer	The cabin transformer is secured to the floor within an enclosure. Input:380 to 460 vac.50/60 Hz. Output:220 vac.@5 kva single phase – or as required.
<u>Electrical equipment.</u>	Cabin supply into the electrical distribution panel.
415 volt supply	<u>415 Volt</u> AC three phase distribution panel
240 volt supply	<u>240 volt</u> AC single phase distribution panel with RCD protection
STANDARD SAFETY EQUIPMENT IN CABIN	
Break glass call point, smoke alarm & fire extinguisher, Hager panel, ceiling mounted emergency light, photo luminescent fire exit sign, safety signs, cabin data plates.	
OPTIONAL EXTRAS	Emergency escape hatch. Gas bottle racks 19" Equipment Rack. Rolling option offering rear access to the equipment. Air conditioning with reverse heat pump. Uninterruptible Power Supply Unit. Lifting Sling & shackles specific to the cabin load and dimensions.
DOCUMENTATION	Master Paper version & CD version manuals. These include certification, product manuals and operating procedures. Tech Safe Systems holds one copy of the manual.

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Note: Specifications may change without prior notice.