

Specification for AMS Decontamination Units

THE "MINI"



DIMENSIONS & WEIGHTS

BODY LENGTH:	2950mm
LENGTH INC. 'A' FRAME AND COUPLING:	4480mm
WIDTH:	2050mm
HEIGHT (INTERNAL):	2010mm
OVERALL HEIGHT FROM FLOOR:	2570mm
GROSS LADEN WEIGHT:	1500Kg
UN-LADEN WEIGHT:	1150Kg
DIRTY END:	920x2000mm
SHOWER AREA:	900x2000mm
CLEAN END:	1050x2000mm

ROLLING CHASSIS

The chassis is constructed completely out of galvanized rolled steel to give strength and provide long lasting durability. It is constructed in such a way as to give an inboard wheel configuration with the wheels in arches. To the chassis is fixed an Avonride galvanized axle and overrun coupling complete with parking brake and jockey wheel. The coupling and axle are connected via rod and cable. Each corner has a wind down steady to stabilize the unit once uncoupled on site.

BODY

The main body panels are constructed out of 11mm GRP coated plywood, which has a smooth gloss finish.

The front of the trailer is aerodynamically enhanced, as a result of the fibreglass nosecone. Services such as gas storage, personal lockers and the boiler are located within the nose cone. The Mini also offers a storage compartment within the nosecone externally accessible via a lockable compartment door.

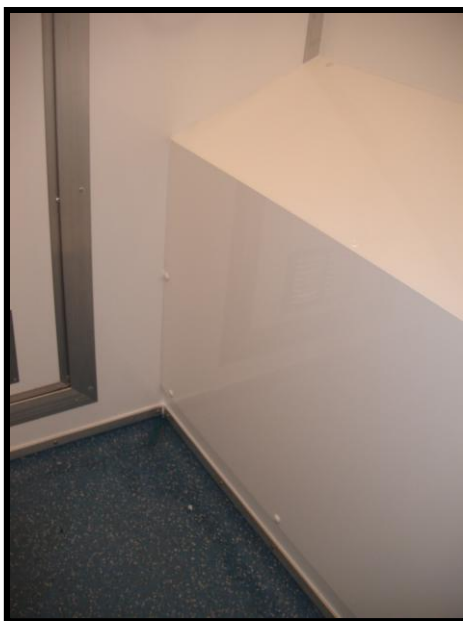
All the corners are capped in anodised aluminium. Grab handles are fitted front and rear to aid manoeuvrability. Fixed ventilation is provided. The doors are fitted with flush fitting locking handles together with 'T' handle locks for extra security, or alternatively with keypad locks. Both the dirty and clean end doors are fitted with a strong overhead door closer.



ROOF

The roof is constructed out of a fibreglass panel supported by roof joists inside an anodised aluminium frame. The interior is of polyester faced board.

FLOOR



The floor is constructed out of WBP plywood, which is treated before being bolted to the chassis. A heavy duty industrial vinyl floor covering is bonded to the floor in both the clean and dirty end's of the unit and is fully sealed to prevent any ingress of water.

The shower has a heavy duty industrial vinyl fitted which has a non-slip surface. The vinyl is formed into a shower tray with the corner seams hot welded to ensure water tightness. Finally the tray is trimmed in aluminium. There are four drainage points set into the floor, one in the dirty end and one in the clean end. The shower area has two drainage points that are diagonally positioned within the central shower area.

PARTITIONS

The trailer is divided into three compartments by the fitting of partitions. These consist of 14mm GRP coated plywood being the same material as the trailer body. Both partitions will have a centrally located door fitted with a door closer. Both doors close in the direction of the negative pressure unit to create a stronger seal. The door between the clean end and the shower area is fitted with a vent positioned towards its base. Whilst the dirty end door has a vent fitted nearer the top with a hinged flap protecting the external (dirty) side.



INTERNAL FITTINGS

A bench seat and a 900mm electric tube heater are provided in each end. In the clean end there are also eight coat hooks and eight lockers together with a fixed mirror. Each locker has a power socket to charge respirators.

240V ELECTRICS

Fed through a 16amp flush mounted mains inlet socket and 6-way consumer unit complete with residual current detector. The consumer unit enables a quick and easy detection of individual faults, whilst a lead is supplied to connect the inlet socket to an external electricity supply. Eight sockets are fitted, one in each of the lockers to enable respirators to be charged. Each area has a 28 watt splash proof light fitted centrally to the roof.

PLUMBING

Water is heated via a sophisticated Rinnai gas boiler which is located inside the nosecone. Internal access to the boiler via a panel door ensures ease of operation while producing a room sealed system. Efficiency is optimised due to the fan assist feature while the regulation flue ensures safety. The Rinnai operates at a maximum of 15 litres per minute and has an electronic ignition with variable temperature control. This allows for accurate and reliable control leaving you confident that there will be hot water when you need it. The electronic ignition result in no gas being used during standby and frost protection is a standard feature. Gas is supplied by the customer's own gas cylinder, which is located in an insulated compartment (room for two cylinders) located in the AMS nose cone.



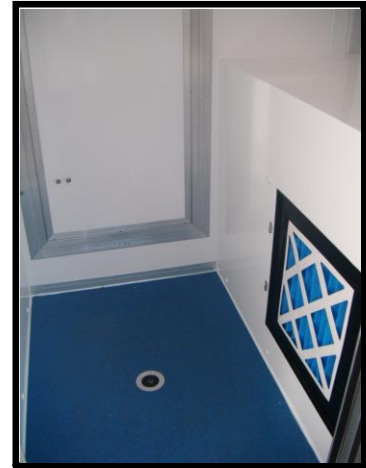
The waste system is pumped directly from the shower tray through a twin pod filter system, firstly through a 25micron filter then a 5micron filter to provide optimum performance while complying with regulations. This filter is positioned under the front bench is fed from all four drainage points. There are four drain-off points (2 at the front and 2 at the rear) to enable the system to be completely drained down and help prevent frost damage in cold weather.



Two thermostatically controlled shower units are fitted, complete with shower heads. A small hand basin is fitted in the shower area to facilitate the washing of masks etc. A lead and connectors are provided to enable connection to an external water supply.

AIR EXTRACTION

An AMS Negative Pressure Unit (NPU) is fitted in the dirty end beneath the bench. An NPU is a filtered extraction system that operates on a timer with the internal lights, which allows it to run for 20 minutes after the lights are switched off to cleanse the air in the unit. Air is drawn through a two-stage filtration system consisting of: - Pre-filter – removes non-asbestos contaminants from the air, therefore prolonging the life of the Secondary Hepa filtration system. Hepa filter – designed to remove all remaining airborne contaminants, including asbestos, down to a minimum particle size of 0.3 microns. The NPU works in conjunction with the ventilation system to draw airflow from the clean end through the partition vents to the dirty end and out through the filter.



12V ELECTRICS

Full MOT lighting is fitted to the unit, which is fed via a standard 7 pin plug that is connected to the socket on the towing vehicle.

OPTIONAL EXTRAS

WATER TANK AND PUMP



A polypropylene water tank (100 litre) can be build-in, enclosed on the wheel arch. A self pressure regulating pump provides water on-demand to the system thus eliminating the need to switch pump on & off.

External or internal water tank filling points can be provided. Twin tank systems can be discussed if required for remote areas.

GENERATOR

A Honda powered 2.7 KVA petrol/LPG generator can be included. The retractable system ensures ease of operation while the fail safe door stop prevents the generator from running while enclosed in the compartment.

The generator is plug into the mains power supply point via a power lead supplied.



KEYPAD LOCKS

Keypad locks (with optional holdback) can be fitted to the external doors to provide keyless security.

REGULATIONS

All units comply with EH47/HSG247 regulations as well as British and European Standards.

