

**Specification for AMS Decontamination Units**

**THE “TINY LIGHTWEIGHT”**



**DIMENSIONS & WEIGHTS:**

BODY LENGTH:	2980mm
LENGTH INC. 'A' FRAME AND COUPLING:	4220mm
WIDTH:	1575mm
HEIGHT (INTERNAL):	2010mm
OVERALL HEIGHT FROM FLOOR:	2620mm
GROSS LADEN WEIGHT:	750Kg
UN-LADEN WEIGHT:	740Kg
DIRTY END:	910x1500mm
SHOWER AREA:	900x1500mm
CLEAN END:	1100x1500mm

## 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 Tiny lightweight's main body is constructed out of 15mm GRP composite panels to produce a durable trailer that weighs less than 750 kilogram. This is to accommodate towing requirements thus allowing more versatility when it comes to daily transportation.

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 galvanised roof joists inside the anodised aluminium frame. The interior ceiling 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 pan with the 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 15mm GRP composite panels. 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 600mm electric tube heater are provided in each end. In the clean end there are four coat hooks and four lockers together with a fixed mirror. Each locker has a power socket to charge respirators.



## 240V ELECTRICS

Mains electrical feed is through a 16amp flush mounted mains inlet socket while the 6-way consumer unit complete with residual current detector ensures safety. An earth rod is supplied to ensure appropriate electrical configuration. 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. Four 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 clean room allowing easy access to the boiler. Efficiency is optimised due to the fan assist feature while the balanced flue system ensures safety and complies with current regulations. 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, 30 minute fireproofed compartment located adjacent to the pump system compartment.



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. These filters are positioned under the front bench and are fed from all 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.

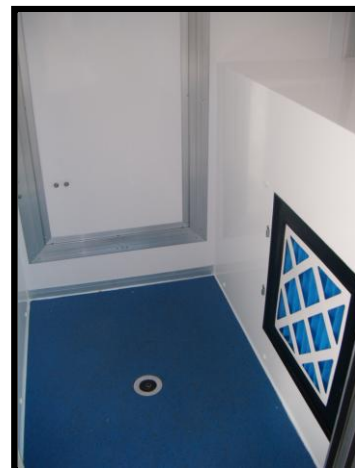


A thermostatically controlled shower unit is fitted, complete with shower head, riser and hook. A small hand basin is fitted in the shower area to facilitate the washing of masks etc.

A hose and connectors are provided to enable connection to an external (mains) water supply when available.

### 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. Suzie / retractable cable setup can be provided on request

### OPTIONAL EXTRAS

#### WATER TANK, PUMP & GAS COMPARTMENT



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.

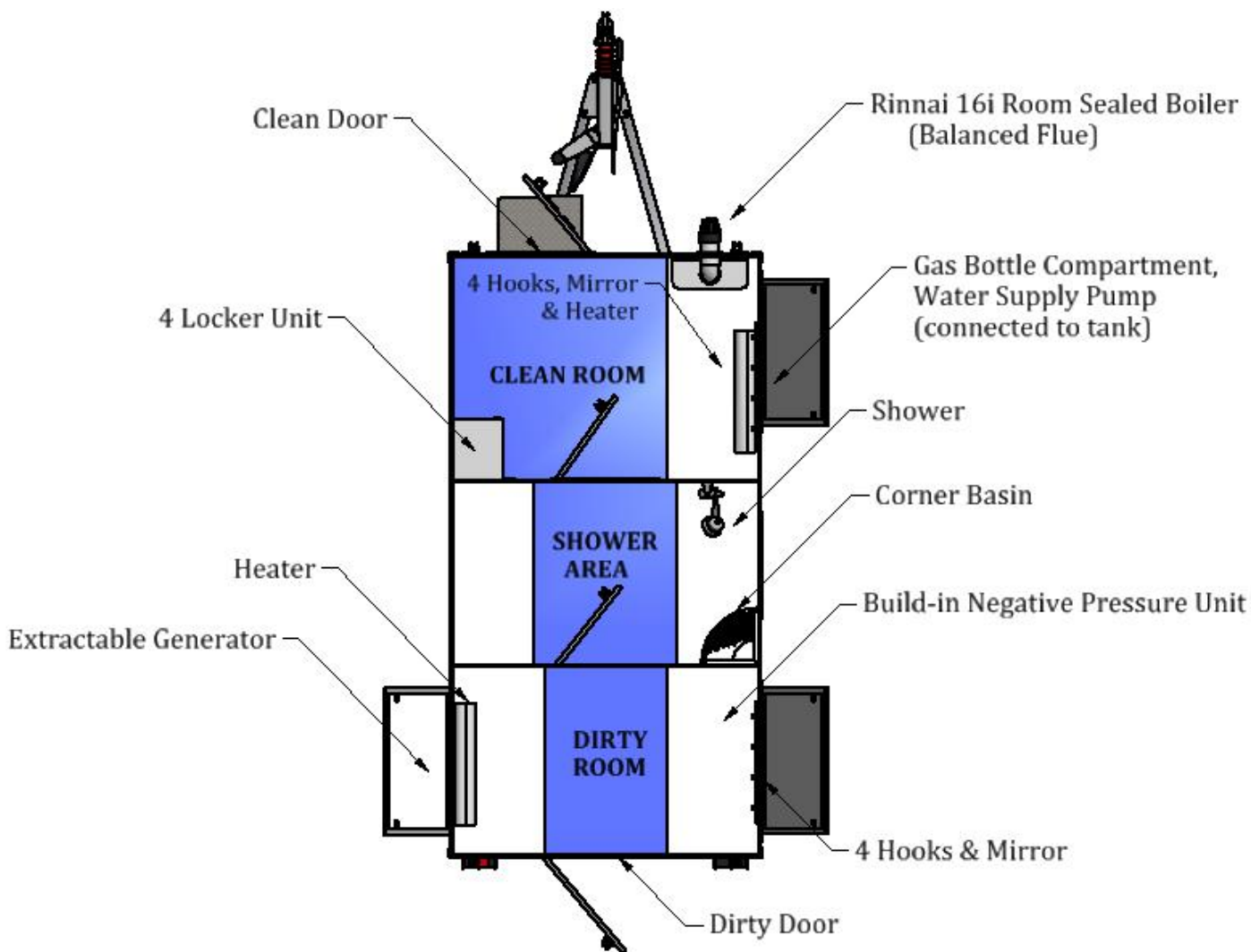


## KEYPAD LOCKS

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.



## **ELECTRICAL SPECIFICATIONS:**

<b>Supply Voltage</b>	230v @ 50/60Hz
<b>MAINS INPUT</b> <b>Max. Current Draw</b>	16A
<b>Rinnai 16i</b>	
<b>Gas Boiler – water heater</b>	
<b>(electronic control)</b>	<b>100 watt</b>
15 litre / min	
<b>APPROVALS</b>	<b>CE</b>
<b>HONDA POWER GENERATOR – Petrol</b> <b>(OPTIONAL)</b>	2.7 Kva (2.2kW)
<b>APPROVALS</b>	<b>CE</b>
<b>AMS NEGATIVE PRESSURE UNIT</b>	240W / (1.05 A)
<b>APPROVALS</b>	<b>CE</b>
<b>WATER SUPPLY PUMP (OPTIONAL)</b>	1.2 A
<b>APPROVALS</b>	<b>CE</b>
<b>WASTE WATER PUMP</b>	0.95 A
<b>Filtration Specification</b>	<b>25 micron &amp; 5 micron</b>
<b>APPROVALS (pump)</b>	<b>CE</b>

## **NEGATIVE PRESSURE UNIT:**

<b>Pre-filter Size</b>	292 mm x 292 mm x 47 mm
<b>Pre-filter Efficiency</b>	EU4
<b>HEPA Filter Size</b>	305 mm x 305 mm x 117 mm
<b>HEPA Filter Efficiency</b>	99.995%
<b>Temperature Range</b>	0 to +45 °C
<b>Controls</b>	On/Off Switch (15 minute timer)
<b>Protection</b>	RCD
<b>Air Flow rate</b>	300 m <sup>3</sup> /hr = 176 CFM