

Airfield Crash Rescue, 4 x 4, Alvis Unipower Rapid Intervention Vehicle (RIV)

PURPOSE:

• The Alvis Unipower, 4x4, Rapid Intervention Vehicle (RIV) Aircraft Crash Rescue and Fire Fighting has been designed to meet current and anticipated requirements of modern aircraft fire fighting duties within the British Armed Forces. The vehicle is designed to be air transportable, within the capabilities of the Lockheed Hercules C-130 aircraft in RAF service

ENGINE:

 Detroit Diesel, 6V92-TA 475 water-cooled, 2 stroke direct injection, 'clean burn' turbocharger 475bhp at 2300rpm (full operational use) 350bhp at 2100rpm (non-emergency use)

CAPACITIES:

- Fuel 150 litres (Diesel)
- Water 2275 litres
- Foam tank 275

ELECTRICAL SYSTEMS:

- Chassis electrics 4 x 12V DC lead acid type batteries. Series parallel to give 24V DC.
- Mains electrical system 240V AC external supply via input plug. Battery charger, air compressor and engine coolant heater. Winterisation kit comprising of heater units and tapes. Air conditioning unit for tropical are role.

DIMENSIONS:

- Overall length (including monitor) -
- Overall width -

- 8000mm 3000mm (mirr
- Overall height (top of monitor unladen) 3280mm
- Maximum laden weight -
- Air transport weight -
- Wheelbase -
- Turning circle -
- Underbody clearance -
- Wading depth -

- 3000mm (mirrors extended)
- 15100kg
- 11050kg
- 4250mm
- 18m kerb to kerb
- 460mm
- 510mm

PERFORMANCE:

- Acceleration 0-80kph within 23 seconds
- Maximum speed 120kph
- Cruise speed 95kph
- Fuel consumption 1.8 km per litre
- Operational range 280km+
- Tilt angle 37 degrees

ROOF MONITOR:

- Output 1000/lpm
- Operating pressure -
- Rotation -
- 14bar
- 230 degrees (115 each side of vehicle)
- Vertical movement -10 to +45
- Straight stream Minimum 40m at 14bar
- Diffused spray Upto 18m x 10.5m wide
- Expansion ratio 8:1

BUMPER TURRET:

- Output 500/lpm
 Operating pressure 14bar
 Rotation 180 degrees (90 each side of vehicle)
 Vertical movement -20 to +45
- Straight stream Minimum 35m at 14bar
- Diffused spray Upto 22m x 15m wide
- Expansion ratio 3:1

FRONT SIDELINES:

- Output Maximum output 450/lpm
- Operating pressure Restricted to 7bars
- Expansion ratio 6%

HOSE REEL:

Output - 130/lpm
Operating pressure - 40bar

Fact sheets supplied by Chris Spraggins

http://www.manstonfiremuseum.com