

FIRE MEDICAL VEHICLE

Firefighting and Emergency Vehicle

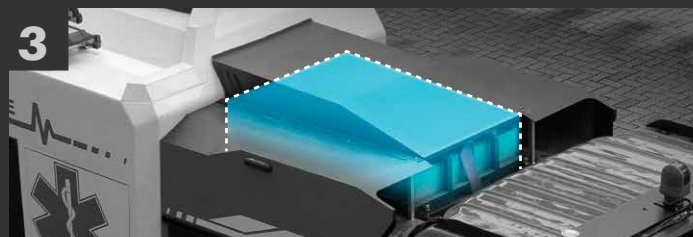




FIRE MEDICAL VEHICLE

The Fire Medical Vehicle (FMV) is a hybrid function emergency vehicle that has both the firefighting capabilities of a light weight fire engine and medical support functions of an ambulance. In emergency cases, firefighters who are cross-trained in emergency medical services can provide early care to victims as well as control the situation of the incident, improving first response efficiency. The vehicle is engineered with the firefighting components located in its frontal half while the rear carries the ambulance cabin.





1 Fire pump

The midship mounted pump flows 500 gallons per minute (GPM) of water with a compressed air foam system (CAFS) unit capable of delivering 220 cubic feet per minute (cfm) of air with the following performance statistics:

Water	CAFS
500 GPM @ 150 psi	440 GPM/ 220 CFM @ 125 psi
350 GPM @ 200 psi	
250 GPM @ 250 psi	

*psi = pounds per square inch

2 Fire and rescue equipment storage

The vehicle comprises five pull-out compartments and three side panels, a total of 1,710 litres of storage volume, giving enough capacity to store the firefighting rescue equipment. A 6.4-metre triple extension ladder with an easy-to-use ladder retrieval system is attached to the vehicle roof.

3 Stainless steel water / foam tank

The 600-litre water tank has an autofill system that keeps the water tank filled from a pressured source (e.g. hydrant) and the foam tank has a capacity of 150 litres.

4 Ambulance cabin

The ambulance cabin is equipped with a stretcher support system that has lateral, tilt and height adjustment functions, aiding the paramedic in performing medical care to the victim. The vehicle's rear airbag suspension allows the rear of the FMV to lower when the stretcher is being loaded or unloaded.

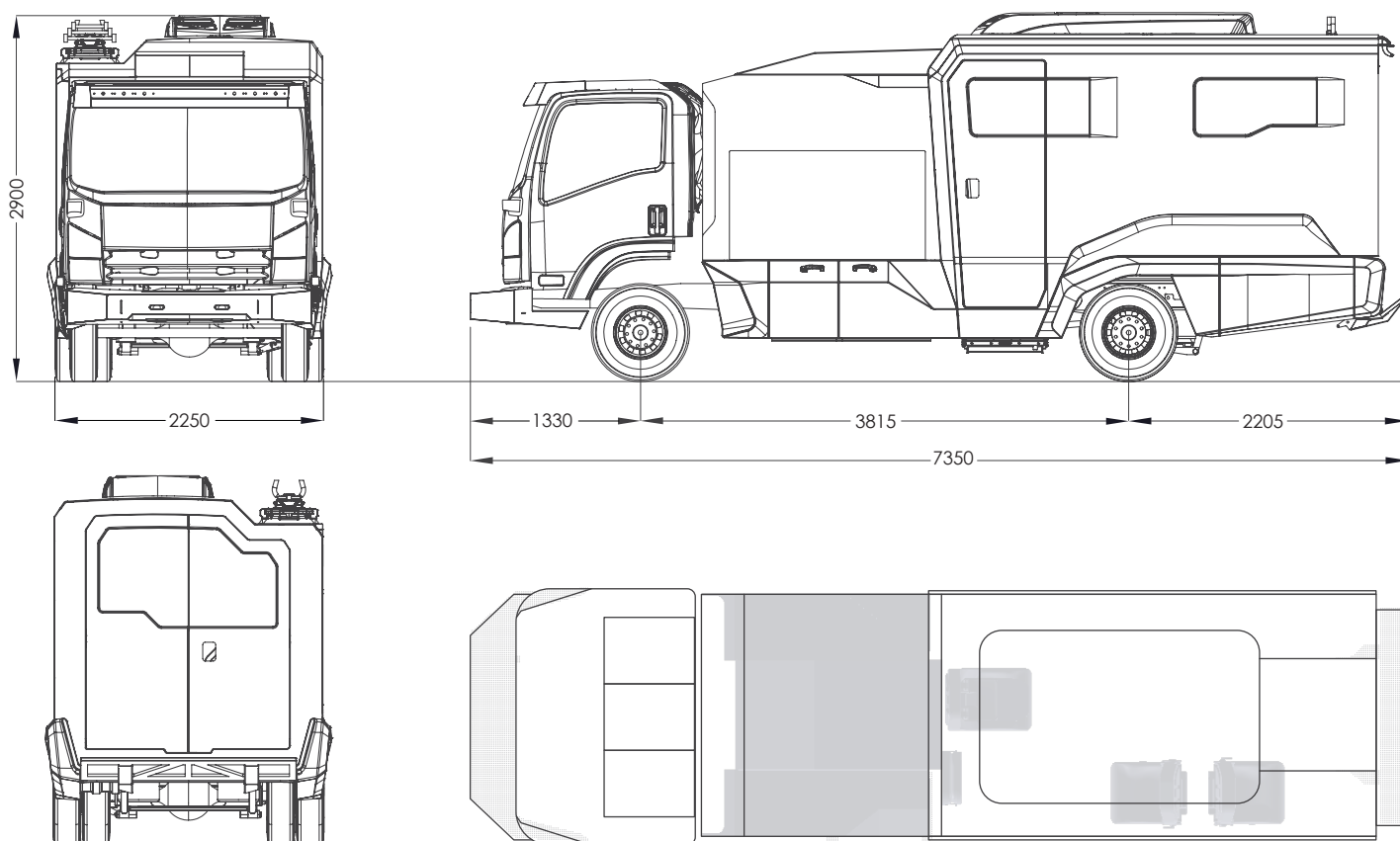
The cabin also has two rotating paramedic seats with flip down backrests for additional lying casualty conveyance and two rear facing seats with the option for an integrated child safety seat. Other installations include flush tilt storage bins, a medication cooler with combination lock, an automatic dual oxygen bottle switch over system and a modular wall mount racking system which can be customised to fit required medical equipment. The interior has full LED lighting with dimming control and all-round exterior scene lighting.

Specifications

Seating capacity	6 persons (including driver)
Dimensions (L x W x H)	7350 x 2,250 x 2,900 mm
Gross weight	9,000 kg (as per chassis OEM specification)
Unladen weight	6,600 kg
Chassis	Isuzu N-series (NQR75UK5A)
Engine type	Isuzu 4HK1E5C, in-line SOHC, fuel rail electronic controlled injection, water cooled, intercooled turbo charged with EGR
Emission standard	Euro 5
Transmission	Allison fully automatic transmission with hot shift PTO
Minimum turning radius	6.9 m
Steering	Recirculating ball nut type with integral power assist
Front/ rear brakes	Front/ rear drum brakes

Feature customisation

Water pump	250 - 500 GPM	
Stainless steel tank capacity	750 litres (maximum capacity)	
Suggested tank combination capacity	<u>Water tank</u>	<u>Foam tank</u>
	600 litres	150 litres
	650 litres	100 litres
	750 litres	0 litres
Storage compartments	Lockers, mounting brackets and modular racking system	



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