

Scottish Fire and Rescue Service - Rapid Response Unit (RRU)

Summary

- Rapid Response Pumping Appliance.
- 740 litre water capacity.
- Iveco Daily 7t 4x2 chassis.
- Up to 4 person crew cab.



Outline Specification

Chassis Specification

- Iveco Daily Chassis Cab 70C18D 4x2 (3.75m Wheelbase).
- 4x2 drive
- 6 Speed Manual Gear Box.
- 4 person Crew Including Driver
- Engine 3.0 Litre, 4 Cylinder 180Bhp.
- Max Weight 7,000KG.

Body Specification

- Emergency One PP Copolymer (plastic) bodywork – painted to match cab colour.
- Integrated water tank (740 litres).
- Integrated plastic wings.
- Integrated stowage tunnel for suction hose and Cobra Lance.
- Full front through locker to maximise stowage capabilities.
- X2 Breathing apparatus on heavy duty sliding bulkhead in N/S Middle locker.
- Lukas combi eDraulic Tool (SC358E2) located on heavy duty sliding bulkhead in N/S Front locker.
- Tempest PPV (DD16-H5.5) located on pull out cradle in O/S Front locker.
- Full vehicle stowage fit out – full details can be obtained on request.
- X4 side stowage lockers + pump bay “barn” style doors.
- BS EN 1846 compliant.



Accessories

- Emergency One standard wiring harness / CANbus software installation.
- Godiva LPP 8/5 installation.
- First generation, intelligent split shaft pump drive-line system.
- Full width light bar on cab roof
- Vehicle Siren located behind front grill
- Rear mounted vertical lighting mast. (Two LED Light Heads – 1 Spot & 1 Flood)
- Emergency One's “ePumpControl” & “eCabControl” monitor & “e1fleet”.
- All standard emergency lighting included.
- Full chassis preparation undertaken by Emergency One.
- Full Cold Cut Cobra System (C360) Installed with Vessel in O/S rear locker & Lance in rear “Pump Bay”



DATA-070/A



Further Options available.
To discuss, please contact Emergency One:

Tel : 01290 424200 / 423815
Fax : 01290 423834

Email : enquiries@emergencyone.co.uk

Scottish Fire and Rescue Service - Rapid Response Vehicle (RRU)

Cobra 360C Kit

Advantages of using a Cobra Rapid Response Vehicle

- The RRU can be deployed faster than a traditional B-Type due to having less crew, it can be manned by min 2 crew, this in-turn makes it a more cost efficient approach.
- The RRU is smaller, lighter and has a faster acceleration than a traditional appliance. Also it can manoeuvre through traffic quicker and arrive at scene faster.

What is Cobra?

- The Cobra Cold Cut system shoots water using a high pressure pump at 300 BAR, the water is mixed with an abrasive at the nozzle, which enables the system to pierce through wood, metal and concrete.
- Once through, the water droplets are transformed into steam by the heat which consumes energy and consequently cools the fire gases.

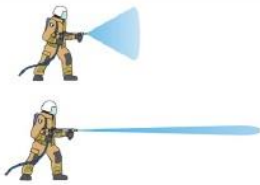
The advantages of using Cobra.

- Uses water in vaporised form resulting in the use of significantly smaller amounts of water, therefore minimising financial loss.
- Firefighters can put out the fire under controlled circumstances without having to deal with the dangers of backdraft.
- The cobra system can be used for dealing with hidden fires inside structures, the use of a thermal imaging camera will detect the hot spots and using the cold cut cobra system you can extinguish the fire without entering the building.
- The Cobra System can be integrated into any vehicle with a Gross Vehicle Weight of 4.5 tonne and above.

data	standard	options
Performance	Water flow: max. 58 lpm Pressure at pump: 250-300 bar	
Supply from vehicle	Electric: 12/24 V DC, 55 Ah min Water: 2-8 bar, flow >70 lpm, filtered 60µm to water pump 1450 rpm, min 220 Nm	Battery charger
Power source Power source not included	Water pump L x W x H = 360 x 420 x 220 mm Weight 43 kg	
Abrasive vessel	10 liters (≈ 4 min cutting) L x W x H = 380 x 320 x 920 mm Weight 67/90 kg (dry/wet full)	20 liters (≈ 8 min cutting) L x W x H = 380 x 320 x 1230 mm Weight 85/130 kg (dry/wet full)
Hose reel Electric retraction, 12/24 V DC	1/2" 80 meters hose L x W x H = 450 x 830 x 520 mm Weight 78 kg	Lengths > 200 m contact CCS Hose guide
Hand lance incl. adjustable cutting support	Nozzle 2.3 mm L x W x H = 1320 x 100 x 420 mm Weight 6 kg	Short hand lance (L = 900 mm) with fixed cutting support On/Off - foam Weight 5 kg
Control system incl. radio communication	Relay control system	N/A
Additive pump < 1,5 % mixture class A additive ≈ 4 lpm water consumption		10 or 23 liter tank 12/24 V DC L x W x H = 300 x 140 x 190 mm Pump weight 10 kg
Tank - water		270 liter with autofill and with/ without level control, L x W x H = 440x840x1110mm Weight 20 kg (empty)
Oil	Water pump: Holst 100 2.6 liter	
Cutting performance (*) - 3 mm mild steel - 10 mm mild steel (*) values valid for 28 lpm system	Penetration 5-10 sec 30-40 sec	Cutting speed ≈ 100 mm/min ≈ 40 mm/min

Scottish Fire and Rescue Service - Rapid Response Vehicle (RRU)

Cobra 360C Kit Multi Purpose Nozzle (MPN)

data	standard features	options
Nozzle diameter	7 mm	5 mm (30 l system)
Hose coupling	cobra standard	
Pressure & Flow	P: approx. 60 Bar at the pump Q: approx. 58 lpm	P: approx. 60 Bar at the pump Q: approx. 28 lpm
Nozzle pressure	3-22 Bar at the nozzle (depending on spray pattern).	
Spray pattern	 <p>Infinitely variable spray pattern: Wide cone protection to pin-point enclosed jet.</p>	
Throw length	Approx. 15 m	Approx. 15 m
Dimensions	Length =50 cm Weight = 2,5 Kg	
Additive		Foam expander for medium expansion foam Length: 40 cm Width: 12 cm Height: 33 cm 