

Emergency Response Team Equipment Specifications

1. Hand Controlled branches

<u>Pistol Grip</u>	Yes
<u>Selectable Flow Rates</u>	110/230/360/470/570 l/min
<u>Inlet Coupling Style</u>	BIC Male
<u>Body Size</u>	65mm
<u>Inlet Connection Type</u>	BIC Male
<u>Inlet Coupling Swivel</u>	Full-Time Swivel
<u>Style</u>	One Piece with Valve
<u>Pressure Mode</u>	Single
<u>Type</u>	Selectable
<u>Fog Teeth</u>	Spinning
<u>Fog Teeth Material</u>	Metal Teeth on Teflon™ base
<u>Operating Pressure</u>	700 kpa (7 bar)
<u>Remote Control</u>	No
<u>Bumper Material</u>	Rubber - bonded
<u>Certification</u>	EN 15182
<u>Approvals</u>	NFPA / Factory Mutual (compliance certificates to be submitted with bid)

Special Instructions:

- i. Body to be constructed from hard-coat anodised extruded aluminium alloy, with stainless steel components. Reflective labelling shall be standard.
- ii. All aluminium components to be hard-coat anodised per military standard MIL-8625, type 3, class 2 compliant to test ASTM B117.
- iii. The nozzle shall have a swivel-type factory fitted articulated or rigid British Instantaneous coupling (specify) or swivel 38mm NH inlet.
- iv. Inlet to be fitted with a stainless-steel debris screen.
- v. The shaper shall be available in either fixed rubber fog teeth, fixed metal fog teeth or stainless-steel spinning teeth (specify), and incorporate a protective rubber front bumper.
- vi. Colour-coded, injection moulded nylon pistol grips and valve handle covers shall be available.
- vii. The nozzle shall deliver five selectable flow settings of 110 – 230 – 360 – 470 and 570 litres/minute @ 7 bar and shall incorporate a flush without shutting down feature.
- viii. The nozzle shall feature a stainless-steel slide valve with detent flow control which eliminates water turbulence when nozzle is operated anywhere in between fully open and closed.
- ix. Valve handle shall be produced from high strength moulded nylon and shall be provided with positive open and close stops.
- x. Nozzle shall be supplied standard with impact shock absorbing bumper designed to reduce impact damage when dropped or used in a forcible entry operation.

- xi. A factory fitted tactile indicator with reflective strip to designate stream setting shall be incorporated into the shaper bumper.
- xii. A serial number shall be laser engraved on the body.
- xiii. Five-year warranty shall be standard.
- xiv. The branch shall allow for both low-expansion and multi-expansion purpose-designed foam aspirating attachments to be fitted to the bumper.
- xv. A demonstration model shall be made available on request for field trials and evaluation.
- xvi. A list of replacement parts readily available shall be submitted.
- xvii. Nozzle shall be FM and NFPA approved and compliance certificates to be submitted with bid.
- xviii. Nozzles must have the facility to be retro fitted with a foldable pistol grip if required. Tendered must include details with their bids. No exceptions.
- xix. The successful tenderer must provide proof that the manufacturer has a 24-hour service telephone and email hot line. No exceptions.

2. Large Diameter Heavy Duty Flat-lay Fire Hoses

<u>Hose Length:</u>	30meter each
<u>Hose Diameters:</u>	1. 1x 65mm 2. 1x 45mm 3. 1x 38mm
<u>Coupling Type:</u>	1x 65mm instantaneous male & 1x 65mm instantaneous female (factory bounded) per length
<u>Coupling Material:</u>	Aluminium
<u>Minimum Performance Criteria</u>	Test Pressure : 24 Bar Working Pressure: 17 Bar Burst Pressure : 50 Bar
<u>Minimal Thermal Operating Range</u>	Cold-resistant up to: -35°C Heat-resistant up to: +100°C
<u>Hose Colour:</u>	Yellow
<u>Minimum Approvals / Certifications:</u>	1. DIN 14811:2008-01 Class 3 2. BS 6391:1983 Type III 3. MED 96/98/EC SBG

Special Instructions:

Construction of flat-lay hoses to comply with:

- i. Circular woven jacket out of 100% high tenacity synthetic yarn, embedded in a vulcanized high grade Nitrile/PVC compound using the "Through-the-weave-extrusion process".
- ii. The outer layer shall be ribbed to provide superior abrasion resistance.
- iii. Hose shall be manufactured and tested to provide high resistance to acids, salt solutions, oil, fuel and general chemicals

- iv. The hose shall be manufactured in an ISO 9001 Quality Management System facility
- v. Compliance certification documentation shall be provided and submitted with bid.

Couplings fitted to Flat-lay hoses to comply with:

- i. Each length of hose shall be factory fitted with a pair of aluminium alloy BIC Couplings which are stamped with relevant European markings.
- ii. Couplings shall be of the ribbed-tail type (Serrated-tail type couplings are not acceptable.)
- iii. Couplings shall be bounded by the continuous method in accordance with BS366 standards.
- iv. The binding wire used shall be high quality galvanised wire.
- v. Hose bindings shall be protected by means of a canvas collared sleeve under wiring and a rubber sleeve over the binding. No exceptions permitted.
- vi. Couplings are required to be factory fitted, marked and comply with BS 336 specification.

3. Portable, Multi-Purpose Foam System for Fire-Fighting and HAZMAT Applications

<u>Foam Expansion</u>	Multi & Selectable
<u>Nominal Flow Rate</u>	45 l/min
<u>Inlet Connection Size</u>	38 mm
<u>Inlet Coupling Style</u>	Rocker
<u>Inlet Coupling Swivel</u>	Non-Full Time Swivel
<u>Operating Pressure</u>	100 psi (7 bar)
<u>Valve Actuation Method</u>	Rotational
<u>Valve Design</u>	Aluminium Slide Valve
<u>Weight</u>	6Kg (less than)

Special Instructions:

- i. Concentrate tank to be constructed from high-impact plastic with all metallic components to be of stainless steel and hard-coat anodised aluminium. Reflective labelling shall be standard.
- ii. Concentrate tank capacity shall be 9 to 10 litres.
- iii. The unit will not exceed 6kg, and shall include the following integrated elements:
 - o Straight stream quick-connect nozzle.
 - o Low expansion quick-connect nozzle.
 - o Medium expansion quick-connect nozzle.
 - o Quick-connect discharge hose.
 - o Shoulder carrying strap.
- iv. Operating pressure range shall be 3 - 40 bar
- v. The unit shall incorporate the following design elements:
 - o A twist grip flow control valve which additionally acts as a carrying handle.

- A large easy open fill port incorporation a screen strainer and contents/concentration indicator.
- A field changeable percentage knob selector offering the following user selectable proportioning ratios:
 - Class A foam concentrates: 0.1% - 1%.
 - Class B foam concentrates: 1%, 3% or 6%.
- vi. Operating instructions shall be permanently applied to the concentrate tank and a traceable serial number shall be laser engraved onto the unit.
- vii. Five-year warranty shall be standard.
- viii. A list of replacement parts readily available shall be submitted.
- ix. Additional equipment to be included with each unit as follows:
 - A piercing nozzle,
 - Lightweight supply hose,
 - 7.5 metre outlet extension hose,
 - Pre-connect tee,
 - 1 Inch wye for multiple unit application,
 - Waist strap and
 - Vehicle mounting bracket.