



# HI-COMBAT

## Portable Foam Equipment

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## Portable Foam Equipment for Municipal, Industrial & Volunteer Fire Brigades

Rapid and inexpensive fire protection for sites where flammable and hazardous liquids are stored and processed.

- safe and easy to operate
- minimal manpower required
- lightweight and easy to handle
- compact to fit neatly into fire appliance lockers
- colour-coded for rapid assembly
- suitable for any type of foam
- efficient foam concentrate consumption
- produces top quality foam
- ideal back-up for fixed foam systems
- minimal maintenance
- tough and corrosion-resistant for long operating life

### HI-COMBAT Low Expansion Foam Branchpipes

- Exceptionally long reach of highest quality, cohesive, low expansion foam rope.
- Oil resistant, synthetic rubber ring protects against accidental damage.
- Nominal flow rates of 225, 450 and 900 l/min at 7 bar g.
- Self-inducting 3% versions of F225/SI and F450/SI models supplied with foam pick-up tube and piercer.



Model	Weight (kg)	Inlet Pressure (bar g.)	Throw (m)
F225/HU	2.0	3.5	14
F225/SI		5.3	17
		7.0	20
F450/HU	2.5	3.5	15
F450/SI		5.3	18
		7.0	21
F900/H	4.5	3.5	18
		5.3	21
		7.0	24

## HI-COMBAT B225 "Blabbermouth" Branchpipe

- Delivers low expansion foam as long-range jet stream for initial attack and wide spray for surface blanketing.

Model	Weight (kg)	Inlet Pressure (bar g.)	Throw (m)
B225	4.0	3.5	9
		5.3	11
		7.0	13



## HI-COMBAT Foam Uniductors

- 1-3 & 3-6 versions.
- Simplest and most accurate means of inducing foam concentrate into water stream.
- Matched and colour coded to branchpipes with flow rates of 225 and 450 l/min at 7 bar g. 900 l/min inductor also available.
- Foam pick-up rates 1%, 1%AR, 3%, 3%AR for 1-3 version and 3%, 3%AR, 6%, 6%AR for 3-6 version designed to meet the latest stringent NFPA 11 accuracy criteria.
- Simple TWIST control knob cannot be accidentally moved during operation.
- Special energy recovery system limits pressure loss across Uniductors to 35-40%, retaining maximum pressure for foam projection.
- Standard in Light Alloy, but corrosion resistant Gunmetal also available.

Model	Weight incl. pickup tube (kg)	Recommended Pressure Range (bar g)
UNI-225	3.1	5-10
UNI-450	3.1	5-10
IND 900	5.8	5-10



IND 900



The HI-COMBAT AF120 Mk2 Mobile Foam Unit operates with maximum effectiveness when filled with Niagara 3-3 AR-FFFP, the world's most advanced high performance fire fighting foam.

**POWER** – Applies foam to polar solvent fires for twice as long as 3-6 foams – double the fire power!

**AF120 + NIAGARA = AF240**  
**3-3 AR-FFFP**

**SPEED** – Simply set the induction rate of 3%AR for all emergencies - no more wasting time trying to identify flammable liquids and selecting the correct induction percentage.

**PERFORMANCE** – Outstanding fire performance on the broadest range of hydrocarbon and polar solvent flammable liquids.

## HI-COMBAT AF120 Mk2 Mobile Foam Unit

- Ideal for rapid deployment of foam to flammable liquid fires and chemical spills.
- Exceptional fire fighting capability can make the difference between a fire being a minor inconvenience and a major disaster.
- Easily manoeuvred and operated by one person.
- Simply connect to pressurised water supply to operate.
- Comprises chemically resistant 120 litre glass fibre foam concentrate tank with built-in hose storage compartments and large diameter filler cap, variable foam inductor with shut-off valve, foam branchpipe, foam pick-up tube, and two lengths of Angus Fire **Duraline** hose.
- Wide choice of inductor and branchpipe configurations enables fire fighters to select the best combination for each risk.
- Ideal for oil storage and loading terminals, process areas, paint and solvent stores, engine rooms, aircraft hangars, maintenance areas, and all similar high risk areas.

HI-COMBAT Foam Inductor	HI-COMBAT Foam Branchpipe	Foam Expansion Produced
UNI-225	F225/HU	Low
	B225	Low
	MEX 225U	Medium
UNI-450	F450/HU	Low
	MEX 450U	Medium

## HI-COMBAT Anderson Pourers

- Fast, effective delivery of highest quality, medium expansion foam into banded (diked) region surrounding bulk fuel storage tank in the event of fire or spillage.
- Simply carry to edge of bund, and leave to operate without need for further supervision.
- Dedicated MEX Foam Inductors are available for optimum performance.
- Bulky foam helps keep pipes, valves and flanges cool.

Model	Weight (kg)	Inlet Pressure (bar g.)	Foam Output (m <sup>3</sup> /min)
MEX 600SF	9.0	2.5	24
MEX 1200SF	17.0	2.5	48
MEX 1800SF	25.5	2.5	72



## HI-COMBAT Medium Expansion Foam Branchpipes

- Highest quality, stable medium expansion foam.
- Low operating pressures, 2.5 bar g. optimum.
- Matched to UNI-225 and UNI-450 inductors.
- Ideal for rapid vapour suppression and fire control over large surface areas.
- Minimal water consumption and subsequently reduced water damage.
- Bulky foam helps cover objects and keep pipes, valves and flanges cool.

Model	Weight (kg)	Inlet Pressure (bar g.)	Foam Output (m <sup>3</sup> /min)	Throw (m)
MEX 225U	3.25	2.5	11.0	7
MEX 450U	5.50	2.5	19.5	8

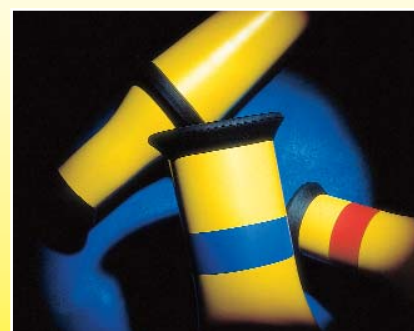


HI-COMBAT Foam Uniductors are designed to be matched to HI-COMBAT Low and Medium Expansion Foam Branchpipes for optimum performance. Colour-coding ensures rapid and trouble-free assembly.

No colour band  
UNI-225, F225/HU, F225/SI, B225, MEX 225U, Mini-Turbex

Red colour band  
UNI-450, F450/HU, F450/SI, MEX 450U

Blue colour band  
IND 900, F900/H



## HI-COMBAT Turbex Mk II

- High capacity, high expansion foam generator.
- Ideal for total flooding applications (e.g. basements, mines, tunnels, cable ducts, warehouses).
- Minimal water consumption and subsequent water damage.
- Powered by water turbine and aerofoil fan, all that is required for operation is pressurised water supply and Angus Fire **Expandol** high expansion foam concentrate.
- Unique water by-pass system allows performance to be maintained while working against high back pressures.
- Expendable polythene ducting ensures accurate foam delivery.
- Ideally suited for rapid smoke extraction and positive pressure ventilation. Smoke extraction ducting easily attached with quick release strap.



	Inlet Pressure (bar g.)	Foam Output (m <sup>3</sup> /min)	Expansion Ratio
By-pass Closed	4	85	500-700:1
	6	115	
	7	135	
	8	150	
	10	190	
By-pass Open	4	95	800-1000:1
	6	135	
	7	155	
	8	175	
	10	200	



## HI-COMBAT Mini Turbex



- Fast response high expansion foam generator and smoke extractor, matched to UNI-225 inductor.
- Easily manoeuvred and operated by one person.
- Enables foam to be applied while the larger HI-COMBAT Turbex Mk II is deployed.

Inlet Pressure (bar g.)	Foam Output (m <sup>3</sup> /min)	Expansion Ratio
2.8	40	260:1
4.2	56	290:1
5.6	70	320:1
7.0	80	330:1
8.4	94	360:1

Technical datasheets containing further information on HI-COMBAT portable foam equipment products are available on request from your local Angus Fire representative or at our website [www.angusfire.co.uk](http://www.angusfire.co.uk)

Angus Fire operates a continuous programme of product development. The right is therefore reserved to modify any specifications without prior notice and Angus should be contacted to ensure that the current issues of all technical data sheets are used.

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