



**ANGUS
FIRE**



Hi-Combat Portable Foam Equipment The Complete Solution

HI-COMBAT

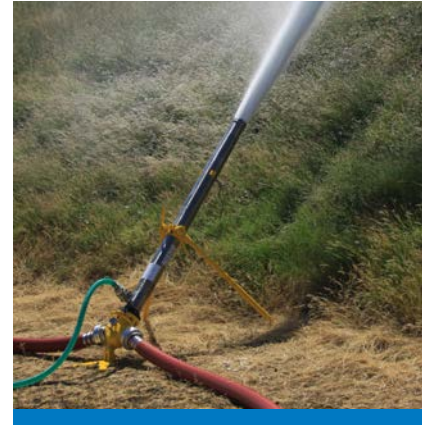
Protecting lives, the environment and critical assets

Hi-Combat Portable Monitors

Angus Hi-Combat Portable Monitors are lightweight, self-inducing portable low expansion foam monitors, which are easily deployed by two firemen. They offer entry level fire fighting for protecting hydrocarbon and other risks that require finished foam applied from a safe distance.

They are ideal for volunteer fire teams looking after small tank farms, as well as professional firefighters with storage tank responsibilities. Once set up the units can be left to operate unattended, provided that an adequate supply of foam concentrate is available.

Typical applications include bund and small tank protection, rail and truck loading gantries, waste and oily pits.



Titan Monitor

- High performance low expansion monitor system for fighting fires in large diameter storage tanks.
- Complete package comprises the standard Titan monitor, two lengths of 4" hose, 15m of induction hose and two collecting heads for conversion of 2½" hose to 4" hose.
- Two 4" inlets maximises the energy input into the monitor and the output matches a typical vehicle mounted pump.
- Titan will put foam onto the top of a tank 20m high from a distance of 30m.
- The solution throughput is 4,500 l/min at 10 bar and the foam is expanded to 5:1.



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Bipod Foam Monitor

- Lightweight and portable.
- Available in two models; FC18B and FC27B, with flows of 1800 and 2700 l/min at 7 bar inlet pressure respectively.
- Features a sturdy stainless steel barrel which is connected to a light alloy collecting head with four inlets.
- Each inlet has a integral non return valve to ensure continuous operation in the event of a hose failure.

Hi-Combat Portable Foam Equipment

The Complete Solution

A complete range of Portable Foam Equipment for Municipal & Industrial Firefighters

As a leading manufacturer of firefighting products Angus Fire has been supplying the fire industry with a comprehensive range of high quality, long lasting, low maintenance Portable Foam Equipment for many decades.

Angus Fire's foam equipment range offers rapid and reliable fire protection for sites where flammable and hazardous liquids are stored and processed. Suitable for use with any type of foam, this equipment is not only efficient at foam induction, but also produces top quality foam.

Hi-Combat portable equipment is ideal back-up for fixed foam systems, as required by NFPA 11 and BSEN13565.

The Hi-Combat products are renowned for:

- Safe and simple operation.
- Low maintenance.
- Lightweight and easy handling.
- Compact so as to fit neatly into fire appliance lockers.
- Colour-coded for rapid assembly.
- Tough and corrosion-resistant for long operating life.

For further information please refer to the individual product datasheets available to download from the Angus Fire website.

HI-COMBAT



Hi-Combat Low Expansion Foam Branchpipes

- Designed for long range performance.
- Nominal flow rates of 225, 450 and 900 l/min at 7 bar g.
- Offer well formed, free flowing low expansion foam suitable for fighting spill fires from a safe distance.
- Self-inducting versions of F225/SI and F450/SI models supplied with foam pick-up tube and piercer.
- All models produce finished foam at nominal expansion of 10:1 with a throw of up to 24m.
- Oil resistant, synthetic rubber ring protects against accidental damage.
- For best results use with either Tankmaster, Alco seal or Tridol Ultra.



Hi-Combat Medium Expansion Foam Branchpipes

Angus Fire's Medium Expansion Foam Branchpipes provide fast and efficient delivery of highest quality, medium expansion foam which is effective in a wide range of fires involving flammable liquid fires.

- Nominal flow rates of 135 and 285 l/min at 2.5 bar g.
- Low operating pressures for maximum efficiency.
- Minimal water consumption and subsequently reduced water damage.
- Stainless steel finish with brass nozzles makes them suitable for harsh environments and sea water use.
- For best results use with Angus Tankmaster, Alcolseal or Tridol Ultra.



Hi-Combat Medium Expansion Anderson Pourers



- A semi fixed solution to bund protection.
- Used in larger banded areas where greater volumes of foam are needed.
- Nominal flow rates of 600, 1200 and 1800 l/min.
- Correct operating pressures are achieved by a pressure gauge.
- Matched MEX (medium expansion) foam inductors available for each model, pictured right.



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Hi-Combat Foam Uniductors

The Angus Fire Hi-Combat uniductors are the simplest and most accurate means of inducing foam into a water stream. Five models are available: Uni-225 (1-3) – Uni-225 (3-6) – Uni-450 (1-3) – Uni-450 (3-6) – Uni-900 (1-6)

Specifically designed to accurately induce both Newtonian and non Newtonian foam concentrates.

- Flow rates: 225, 450 and 900 l/min at 7 bar g to match the model numbers.
- Venturi-type inductor devices, designed to be used with Low and Medium Expansion Foam Branchpipes.
- Colour-coding ensures rapid and trouble free assembly.
- Simple TWIST control knob prevents accidental change of induction rate during operation.
- Special energy recovery system limits pressure loss to 35-40%, retaining max pressure for foam projection.



Hi-Combat Mobile Foam Units

Angus Fire Hi-Combat Mobile Foam Units are fully self-contained foam carts developed to provide rapid deployment of foam to fires and chemical spills.

Typical applications include boiler rooms, oil storage and loading terminals, paint or spirit stores, airfields, industrial sites, generator rooms and other high risk areas. They are easily manoeuvred and operated by one person.

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Hi-Combat AF120

- To operate simply connect to a pressurised water supply.
- Designed to fit through a standard door.
- Low centre of gravity for maximum stability on difficult terrain.
- Large diameter filler cap allows unit to be refilled during operation.
- Option of medium expansion foam branchpipe for vapour suppression and bund firefighting.
- 120 litre capacity keeps weight suitable for off road use, no need for stabilisers or third wheel.
- Full range of couplings and fittings to suit local fire brigade requirements.

Hi-Combat Responder 140

- Self-contained mobile unit, specifically developed for fast response by a single person.
- Features a monitor with a throw of up to 40m allowing the firefighter to remain at a safe distance.
- Delivers unaspirated foam using a film forming foam concentrate such as Angus Alcolseal, Petroseal, Tridol S or Tridol Ultra.
- Suitable for use with foam or water alone.
- Large diameter filler cap allows easy top up of the 140 litre tank whilst in use.
- Screw shaft prop outriggers provide stability whilst monitor is in action.
- Bronze monitor and nozzle for maximum corrosion resistance.



Hi-Combat Hi Expansion Foam Generators

The Angus Hi-Combat Hi Expansion foam generators are designed to produce large quantities of high expansion foam, for fast and effective flooding of inaccessible spaces (e.g. basements, mines, tunnels, cable ducts, warehouses) with minimal water consumption and subsequent minimal water damage. The units utilise forced air technology and are powered by water turbines driving aerofoil fans, so that only a pressurised water supply is required for operation.



Hi-Combat Turbex

- Produces up to 200m³ of expanded foam per minute.
- 30m of expandable polythene ducting ensures accurate foam delivery as any access is burnt off by the fire.
- Can also be used for rapid smoke extraction and positive pressure ventilation.
- Unique water by-pass system allows performance to be maintained while working against high back pressures.
- Enclosed maintenance free water turbine.
- Self inducing facility.
- For best results use with Angus Expandol High Expansion foam concentrate.

Hi-Combat Mini Turbex

- Produces up to 100m³ of expanded foam per minute.
- Fast response high expansion foam generator and smoke extractor, matched to 225 Uniductor.
- Easily manoeuvred and operated by one person as only a single 2.5" hose supply line needed to operate.
- Designed to fit into a standard fire vehicle locker.



Angus Fire Profile

Angus Fire is a global leader in firefighting technology. In more than 100 countries Angus Fire supplies fire safety products and services to customers operating in a wide range of industries such as oil companies, international airports, harbours, ports, to military bases, power stations, and of course to fire and rescue services. Angus is a global name with an impressive history of over 220 years in the firefighting industry. It is this rich heritage and associated expertise, which put Angus Fire at the forefront of the fire industry and makes the company the preferred partner with firefighters worldwide.



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