

HIGH EXPANSION FOAM GENERATORS

High Expansion foam has many applications in modern fire fighting including:

- Municipal Fire Departments
- Mining
- Marine - Engine Rooms, Machinery spaces, Holds
- Industry - Total Flooding Applications Such As Basements, Flammable Liquid Stores and Cable Ducts.
- Control of Vapors Released from Flammable or Toxic Liquid Escapes

Large volumes of foam can be produced rapidly to exclude oxygen from the risk area and very low water consumption means less damage after the incident.

Angus manufactures two high expansion foam generators - The Turbex Mk II and the Mini Turbex - both are high capacity units with the additional feature of smoke extraction capability.



Turbex Mk II



Mini Turbex

TURBEX Mk II

The Angus HI-COMBAT Turbex Mk II is a high capacity, portable high expansion foam generator. Powered by a water turbine, a unique by-pass system allows performance to be maintained when working against high back pressures.

- High Performance - 7000 cu ft / min at 145 psi
- Economical - 1.2 gpm foam concentrate consumption at 100 psi
- Minimal water damage - maximum expansion ratio of 1100:1 gives maximum oxygen exclusion with the least water usage
- Foam can be directed accurately - the Turbex is supplied with 100 ft of expendable polythene ducting
- Smoke extraction capability - 10000 cu ft / min at 100 psi

MINI TURBEX

The Angus HI-COMBAT Mini Turbex has been designed as a first aid high expansion foam generator. It can be rapidly deployed by one man, giving valuable time to deploy larger units such as the Turbex Mk II.

- Compact - overall dimensions - 25 x 20 x 13 inches.
- Lightweight - 35 lbs (excluding net)
- High Capacity - 3300 cu ft / min at 120 psi
- Smoke Extraction capability - 3500 cu ft / min at 100 psi
- Robust - Stainless steel construction
- Compatible - The unit uses the Hi—Combat IND 225 educator

Turbex Mk II	Inlet Pressure (psi)	Total Water Flow (gpm)	By-Pass Flow (gpm)	Water for Foam (gpm)	Expanded Foam Production (cu ft / min)	Expansion
By-Pass Closed	60	50	N/A	50	3080	500 ↓ 700
	85	60		60	4170	
	100	65		65	4900	
	115	70		70	5440	
	145	78		75	6890	
By-Pass Open	60	55	18	37	3440	800 ↓ 1000
	85	65	24	41	4900	
	100	70	26	44	5620	
	115	75	28	47	6350	
	145	85	30	50	7250	

Turbex Mk II	Inlet Pressure (psi)	Total Water Flow (gpm)	Volume of Smoke Removed (cu ft / min)
Smoke Extraction Mode	60	40	6500
	100	50	8500
	140	60	10000

Mini Turbex Mk II	Inlet Pressure (psi)	Total Water Flow (gpm)	Expansion	Expanded Foam Production (cu ft / min)	Foam Concentrate Consumption at 3% Proportioning
Performance	40	41	260:1	1410	1.2
	60	50	290:1	1975	1.5
	80	58	320:1	2470	1.8
	100	65	330:1	2820	1.9
	120	71	360:1	3320	2.1

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