

Mini-Turbex Portable Foam Generator

- Rapid Deployment
- Compact
- Lightweight
- Portable



Angus HI-COMBAT® Mini-Turbex unit is a rapid deployment, first aid high expansion foam generator which produces up to 3,500 cu. ft. (100 cu. m.) of foam bubbles per minute. This HI-COMBAT® Mini-Turbex is capable of producing expansion ratios between 260-360:1. With special reinforced smoke ducting, it can also be used for rapid smoke extraction (SX), positive pressure ventilation and removal of foam once the fire is extinguished.

The HI-COMBAT® Mini-Turbex generator is ideally suited to applications in a wide range of industries including Municipal Fire Brigades, Military, Ships engine rooms, machinery spaces and cargo holds, mining applications and total flooding of basements, flammable liquid stores, cable ducts and control of vapor releases of toxic and flammable liquid spills in general industrial applications. It is also suited to outdoor situations

where fuel spillages may occur, or a rapid flowing foam is required.

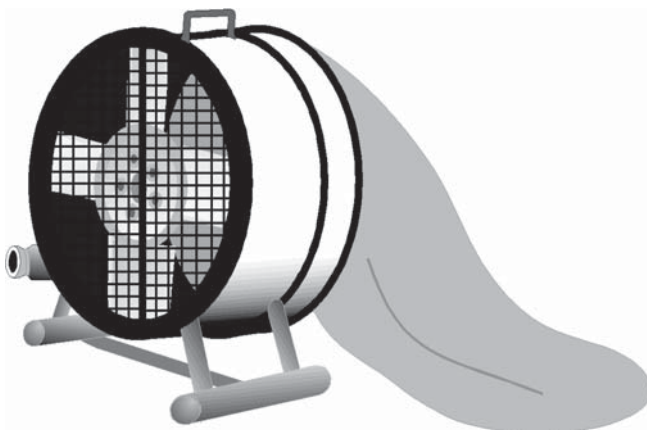
These generators are designed to be robust and lightweight for portable use and can be quickly operated by just one firefighter, complementing larger output units like the Turbex MkII high expansion generators.

HI-COMBAT® Mini-Turbex generators are also compact, neatly sized to fit into a fire vehicle locker as standard equipment, and requires only an Angus HI-COMBAT® UNII225 portable foam eductor in the water line to induce the Hi-Ex foam concentrate at 3% setting, for fast, effective operation.

The unit utilizes forced air technology from a highly efficient pelton wheel driven fan which enables expanded foam to be produced against high back pressures. This pelton wheel is operated

by 4 water jets, with an additional 4 nozzles spraying foam solution directly onto the foam making net for bubble production.

When the optional smoke extraction (SX) ducting is fitted, the HI-COMBAT® Mini-Turbex is also capable of rapid smoke movement at rates up to 3,560 ft³/min (100 m³/min). Any burning embers entrained in the smoke will be cooled by waterspray from the nozzles, preventing the risk of ignition in adjacent areas. This optional smoke ducting can also be used for removal of the foam once the fire is extinguished.



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Foam Performance Data (Typical)

Note: All inlet pressures refer to pressure at the generator. Remember a pressure drop of 35% typically occurs across a portable inductor, so the pump or hydrant pressure to the generator will need to be proportionately higher.

SPECIFICATION									
Inlet Pressure		Total Water Flow		Expanded Foam Produced		Foam Usage at 3%		Expansion Ratio	
PSI	BAR	GPM	(LPM)	Ft ³ /Min	M ³ /Min	GPM	(LPM)	(Dependent on Operating Conditions)	
40	2.8	42	159	1450	40	1.24	4.7	260:1	
60	4.2	52	195	2000	56	1.5	5.8	290:1	
80	5.6	59	223	2500	70	1.76	6.7	320:1	
100	7.0	65	245	2800	80	1.9	7.3	330:1	
120	8.4	68	259	3300	94	2.0	7.8	360:1	

Maximum operating pressure 145 PSI (10 Bar). Standard inlet coupling male 2-1/2" BS Instantaneous, but other connections are available.

Smoke Extraction (Typical): The inline eductor will NOT be required when using unit as smoke extractor.

SMOKE EXTRACTION (TYPICAL)						
Inlet Pressure		Total Water Flow		Volume of Smoke Removed		
PSI	BAR	GPM	(LPM)	Ft ³ /Min	M ³ /Min	
100	7.0	65	245	3493	98	

GENERAL MATERIAL SPECIFICATION	
Cabinet, Feet & Pelton Wheel Guard	Satin Polished 316 Stainless Steel
Main Body Casting	Black Thermoplastic Coated Aluminum Alloy
Fan	Aluminum Alloy Hub, Polypropylene Blades on Stainless Steel Shaft
Pelton Wheel	Natural Phosphor Bronze
Pelton Wheel Nozzles	Natural Copper
Foam Nozzles	Natural Brass
Foam Making Net	Woven Nylon
Optional Extras	
Expandable Foam Ducting (AE00767)	Polyethylene in 100 Ft (30 M) Length
Smoke Extraction Ducting (AE12596)	Nylon Reinforced Polyethylene in 25 Ft (7.6 M) Length
Dimensions	
Approx. Dimensions - In (mm)	19.6W x 24.5H x 12.5D (500W x 620H x 320D)
Typical Shipping Specifications - In (mm)	24 x 22.5 x 29.5 (610 x 570 x 750) - 1 Case
Net Weight - Lb (Kg)	35.25 (16)
Gross Weight - Lb (Kg)	72.75 (33)

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