

Fixed Turbex

FT1 & FT2 for Marine and Industrial Applications

- High expansion foam generators
- Optimum performance



High expansion foam has shown itself to be an exceptionally efficient fire fighting technique for large enclosed areas such as ships' engine rooms, warehouses, packaging plants, ships' holds, mines, chemical stores and incineration plants.

The efficiency of any high expansion foam system depends upon producing well-formed, high quality foam. It must then be delivered rapidly into the risk area, against a possible back pressure that may result from the confines of the application.

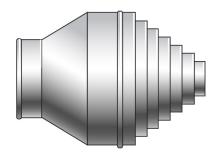
The Angus Fixed Turbex Systems employ high expansion foam generators with a cocoon shape designed to optimise performance. By combining a sophisticated spray nozzle with a uniquely tiered foam making net, the foam bubble structure produced is uniform, slow draining and of a nominal expansion ratio 500:1(500 parts of air to every one part of foam solution). Air is driven through the generator by a specially developed efficient water driven fan. This forced air technology ensures the foam can be pushed forward overcoming potential back pressures that would stall simpler blower type units.

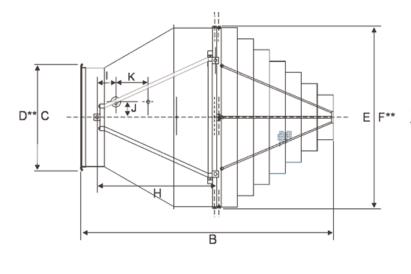
The FT1-500 P and FT2-500P models must be fed with a premix solution of Expandol foam concentrate and water. Ideally this should be generated using an Angus proportioning device such as a balance pressure proportioner or fixed inductor for maximum accuracy and efficiency.

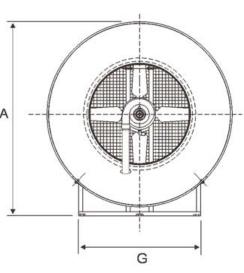
These premix Fixed Turbex Systems are most effective where multiple units are required to protect large areas with centralised foam proportioning.

The FT1-500S is supplied with an inbuilt induction device. A dedicated Expandol foam tank can be placed adjacent to this Fixed Turbex and all that is needed for operation is a suitable water supply. The selfinducing unit is ideally suited for smaller risk areas.

(for LNG/LPG applications see data sheet 5106)









Fixed Turbex

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PERFORMANCE (typical at 18°C)												
		FT1-500P (Premix)			FT1-5005 (self-inducing)			FT2-500P (Premix)				
	Flow I/min *	Exp. Foam Output m³/min†	Exp. Ratio	K Factor §	Flow I/min *	Exp. Foam Output m³/min†	Exp. Ratio	K Factor	Flow I/min *	Exp. Foam Output m³/min†	Exp. Ratio	K Factor §
Inlet Pressure 3bar.g.	138	82	600:1	80	151	83	550:1	87	304	155	510:1	176
Inlet Pressure 5bar.g.	179	100	560:1	80	194	99	510:1	87	393	196	500:1	176
Inlet Pressure 7bar.g.	211	114	540:1	80	230	113	490:1	87	465	214	460:1	176

[§] Flow (I/min.) = $K\sqrt{P}$ where P = inlet pressure (bar)

[†] Conversion factor to **cu ft/min** = m³/min. x **35.64**

SPECIFICATION	NC									
			FT1 -500P	FT1 -500S	FT2-500P					
Dimensions	Α	(mm)	942	942	1193					
	В	(mm)	1240	1240	1575					
	C	(mm)	668	668	668					
	D **	(mm)	1118	1118	1118					
	Е	(mm)	884	884	1138					
	F **	(mm)	1118	1118	1372					
	G	(mm)	460	460	710					
	Н	(mm)	600	600	740					
	1	(mm)	119.5	119.5	119.5					
	J	(mm)	85	85	85					
	K	(mm)	_	124.5	_					
Water Inlet Co	Water Inlet Connection			11⁄4″ BSP Taper Male						
Foam Inlet Co	Foam Inlet Connection		•	1⁄4" BSP Taper Male	•					
Materials Body ‡		‡	Mild steel - yellow thermoplastic powder finish or stainless steel to BS970 316							
Support Frame ‡			Mild steel - black thermoplastic powder finish or stainless steel to BS970 316							
	Foam	n Making Net	Stainless steel to BS970 316							
	Turbine		Gunmetal LG2							
Nozzle Fan			Gunmetal LG2							
			Light alloy LM25 - black thermoplastic finish LM25-yellow thermoplastic							
	Screv	vs, Nuts, Fasteners		Stainless steel A4						
	Indu	ctor	•	Gunmetal LG2	*					
Recommended Induction Rate		uction Rate		Expandol at 3%						
Approx. Weig	Approx. Weight		58kg	60kg	79kg					

^{**} Minimum diameter requirements when ducting is used (inlet D, outlet F).

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Station Road, Bentham, Lancaster, LA2 7NA, UK Tel: +44 (0)1524 264000 • Fax: +44 (0)1524 264180 Angus Fire operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Angus Fire should be contacted to ensure that the current issues of all technical data sheets are used.

^{*} Conversion factor to **US galls/min** = I/min. x **0.264**

[‡] Mild steel recommended for indoor use and stainless steel recommended for outdoor use [these units are not suitable for cryogenic risks (LNG/LPG) see separate Datasheet 5106].

[◆] Separate induction device required.