FROZENFIRE
INDUSTRIES LLP
Mfg. of Fire Fighting Equipments

HIGH EXPANSION FOAM GENERATOR

FROZENFIRE HIGH EXPANSION FOAM GENERATOR HX MAXI

Product Description



The FROZENFIRE High Expansion Foam Generator is a specialized firefighting device designed to generate and discharge large volumes of high-expansion foam for fire suppression in industrial facilities, warehouses, storage areas, basements, cable tunnels and other enclosed or confined spaces where rapid foam filling is required.

The equipment operates on the principle of combining a compatible foam solution with a high-volume airflow to produce expanded foam. The foam solution is distributed over a foam-generating screen or medium, while an integrated water-driven axial fan supplies the necessary air to expand the solution into a large volume of foam. The generated foam is then discharged into the protected area to provide effective coverage and assist in fire suppression.

The FROZENFIRE High Expansion Foam Generator comprises a robust F.R.P enclosure with a protective painted finish, an axial-flow fan assembly, a protective fan guard, foam solution inlet connections, internal distribution piping and a foam-generating section. The unit is designed for installation as part of a suitably engineered fixed firefighting system.

High-expansion foam helps suppress fires by covering combustible materials, reducing contact between fuel and air, limiting the release of flammable vapours in suitable applications and reducing heat transfer. Its high expansion ratio enables substantial area or volume coverage using a comparatively smaller quantity of foam solution.

The generator can be incorporated into automatic or manually operated fire-protection arrangements, depending on the project design and control system. Its suitability and performance depend on the foam concentrate, water supply, airflow, installation arrangement and protected hazard.

Specifications :

Body	: GRP
Pipe assembly	: Copper
Water Turbine	: Bronze
Fan Assembly	: Aluminium Alloy
Spray nozzles	: G.M./ Brass
Inlet	: 2.5" Instantenous Male (GM / SS 304)
Bypass	: 2.5" Instantenous Female (GM / SS 304)

Performance Data :

Opration Mode	Pressure at Inlet (kg/cm2)	Total Water used (lpm)		Foam Output (M3/min)
		Foam Generation	By pass	
Normal	5	205	-	100
	7	250	-	135
	9	280	-	170
Bypass Open	5	140	80	115
	7	175	96	155
	9	195	110	190

Note : Expansion of 500 to 600 times is obtained in normal operation, while 800 to 1000 is obtained with Bypass open.
Note : Smoke extraction - approx. 280 M3/min at 7 bars inlet pressure.

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