



High Expansion Foam Generator

Model SL-31-3 Portable (wheeled type)

Water Turbine Operated



CONSTRUCTION

- Body Yellow chemically FRP resin
- Water turbine fan Cast bronze (ASTM c83600)
- Pipe work bronze and copper, black epoxy painted
- Foam spray nozzle Cast bronze spray nozzle, chrome plated
- Handle Stainless steel
- Foam bubble net Nylon woven mesh
- Smoke extracting duct Polythene bellows type (7m standard)
- Inlet NHT 2-1/2" female
BS 336, Japanese Machino optional
- Measurement 885 (W) x 1015 (W) x 435mm (D)
- Flow rate 180 LPM at 4 Bar
- Foam expansion ratio. 700 times
- Foam liquid AFFF 3% or 6%
- Induction rate 4.5 LPM
- Smoke extraction rate 280 CBM

	Inlet pressure bar	Total water flow LPM	By-pass flow LPM	Water for foam production LPM	Expanded foam produced Sq. meter/min.
By-pass closed	3.5 bar	170	Nil	170	80
By-pass fully open	3.5 bar	190	65	120	90
Smoke extraction mode	3.5 bar	140			

DESIGN

Supplied foam by a water turbine all that is needed for operation of foam liquid concentrate and a water supply. A unique by-pass system is installed which allows performance to be maintained when working into high back pressure. By control of the inlet pressure and the by-pass, the type of foam bubble can be varied as shown in the performance data.

SIMPLE OPERATION

Connect the water supply fire hose to the inlet 2-1/2" coupling and insert the foam pick up tube in the foam liquid container. By-pass water is led to waste through a hose length connected to the outlet coupling.

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High Expansion Foam Generator is designed to produce a large capacities of foam bubble upto 200 CBM per minute at pressure 4 bars. It is also capable of smoke extracting via Polythene bellows type of smoke extracting duct, which is also used for ventilation and removal of foam just after the fire is extinguished.

