High expansion foam generator - DN 800

The high expansion foam generator is powered by a water turbine. All that is required for operation is a supply of synthetic foam compound, such as Towalex MB or Plurex high expansion foams, and a pressurised water supply (4 bar minimum). This enables large volumes of high expansion foam to be produced - expanded 1000 times or more to achieve rapid extinguishing with minimal water damage.

With its damage protected recessed controls and solid rubber, rot-proof feet, the unit is ruggedly yet practically designed for ease of use and storage. The high expansion foam generator is ideally suited for all total flood applications such as warehouses, ship holds, engine rooms, machinery spaces, electric cable ducting, chemical processing and refining plants and mines. Also effective for specialist applications such as blanketing LNG spill fires, controlling vapour release from toxic or flammable liquid spills and the inerting of tanks.

The high expansion foam generator SE version is a portable smoke extraction unit powered by the water turbine and is suitable for smoke extraction in hazardous areas that need an intrinsically safe operation. Skum also offer fixed high expansion units for permanent installation and also the HotFoam units where inside air is an acceptable alternative to high expansion foam.

EXPANDABLE DUCTING
The generator is designed to use expandable tubing for ducting foam. A 30m length is supplied. Attaching the tubing is a simple, quick operation.

SMOKE EXTRACTOR VERSION
This dual purpose model can be used to extract smoke at the rate of 285 m³/min at 7 bars. A 7.5 m length of smoke extraction ducting is supplied with the unit for simple connection with a quick release strap.
High expansion foam generator - DN 800

**PERFORMANCES**

<table>
<thead>
<tr>
<th>By-pass control</th>
<th>Water pressure</th>
<th>Total water flow (l/min)</th>
<th>By-pass flow (l/min)</th>
<th>Flow to nozzles (l/min)</th>
<th>Foam production (m³/min)</th>
<th>Foam expansion</th>
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</thead>
<tbody>
<tr>
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<td>270</td>
<td>100</td>
<td>170</td>
<td>204</td>
<td>1200</td>
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<tr>
<td>By-pass closed</td>
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<td>150</td>
<td>-</td>
<td>150</td>
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**CHARACTERISTICS**

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<th>Reference</th>
<th>07591</th>
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**Construction**

- Red, high impact durable polyethylene casing, corrosion resistant pipework, fittings and maintenance free turbine

**By-pass system**

- Water by-pass system fitted allowing performance to be maintain when working with high back pressures. Unit is capable of ducting foam to minimum height of 15 metres or into equivalent back pressures. By controlling the inlet pressure and the by-pass, the foam properties can be varied to suit operational circumstances.

**Operation**

- Simply connect the supply hose to the water inlet and insert the foam pick-up tube in a foam compound container. By-pass water is led to waste through a hose length connected to the outlet coupling.

**Expandable ducting**

- A 30m roll of polythene tube is supplied with the unit allowing foam to be easily directed to the seat of the fire. Attachment to the unit is a fast simple operation.

**Smoke extractor version**

- This dual purpose model can be used to extract smoke at the rate of 285m³/min at 7 bar. A 7.5m length of expandable smoke extraction trunking is supplied with the unit for simple connection with a quick release strap.

**Wheeled version**

- This version allows for easy one man transportation. Two wheels are permanently fixed to one end of the body and a handle on the other. The wheels lock back off the ground when in use for complete unit stability.

**Dimensions and weight**

- Smaller and lighter than similar equivalent units:
  - Width: 870mm
  - Height: 880mm
  - Depth: 470mm
- Shipping carton: 970 x 1000 x 600mm
- Standard unit: 61.5kg unit only (78kg including transport crate)
- Smoke Extraction version: 82.5kg including smoke trunking

**Hydraulic characteristics**

- Flow rate: 270 l/min @ 10bar
- Working pressure: from 4 to 10 bar
- Expansion: x 1200