The Pyrogen Grenade, is the world's first manual fire fighting aerosol grenade.

Developed directly from the successful canisters used for fixed fire suppression systems, Pyrogen Grenades are the latest weapon in the war on fire & arson.

The Grenades are activated by pulling a manual pin, which operates a friction device, initiating the combustion process. The grenade then gives up to 10 seconds for the fire fighter to project the unit into the fire. Once activated the canisters release their powerful aerosol gas, which is generated from a stable combustible solid. The aerosol released, is proven to be 3 times more effective than Halon, and rapidly knocks down or suppresses the fire.

For small to medium sized fires in confined spaces, such as in skips, basement entrances, engine bays or small portable buildings, one or more grenades is often enough to extinguish the fire. For larger blazes, in more open areas or with a deep seated source, Pyrogen Grenades will knock down the fire, allowing fire fighters the ability to move in safely and quickly with conventional extinguishing media delivery systems.

As a proven low toxic alternative to Halon, its portability gives it another invaluable attribute – as an arson deterrent.

Pyrogen Grenades have been supplied to a number of Coast Guard Agency and Waterways Police Authorities to protect personnel and property during raids and arrests.

The milky white aerosol gas not only prevents destruction of valuable evidence, but also by disorientating any aggressive suspects, potentially dangerous situations can be rapidly controlled. The aerosol is easily dispersed and leaves little or no residue.
How it works

Pyrogen canister in action

Pull pin to activate

Simple mechanical actuation

Chemical coolant decomposes absorbing heat

Fire fighting aerosol rapidly generated

Aerosol generated

Total flooding aerosol demonstrates 3D gas like properties.

Dispersed chemical coolant

Aerosol distributed

Pyrogen aerosol is a chemical action agent

Stage 1

Fire is propagated by the 'flame chain carriers' O, H & OH

Stage 2

Pyrogen aerosol introduces potassium radicals (K) into the flame chain reaction

Stage 3

K radicals attach themselves to O, H & OH and remove them from the flame chain without depleting Oxygen

Specification data

Aerosol Compound  KNO₃, Plasticised NitroCellulose, Carbon, Additives
Canister  Epoxy powder coated marine grade aluminium
Environmental rating  Zero ODP and Zero GDP.
Suitable for FIRES  Class A Fires: Solids
                      Class B Fires: Liquids
                      Class C Fires: Flammable Gases
                      Class E Fires: Electrical
Aerosol Gas  Low toxicity, Milky white, acrid smell

Dimensions

<table>
<thead>
<tr>
<th>Parameters</th>
<th>MAG-3/G</th>
<th>MAG-5/1G</th>
<th>MAG-5/2G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Mass (g)</td>
<td>900</td>
<td>2,125</td>
<td>1,870</td>
</tr>
<tr>
<td>Diameter (A) mm</td>
<td>75</td>
<td>95</td>
<td>75</td>
</tr>
<tr>
<td>Length (B) mm</td>
<td>150</td>
<td>200</td>
<td>280</td>
</tr>
<tr>
<td>Mass of Aerosol (g)</td>
<td>200</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Activation Delay (sec)</td>
<td>6~8</td>
<td>8~10</td>
<td>8~10</td>
</tr>
<tr>
<td>Activation Pin</td>
<td>End</td>
<td>End</td>
<td>Side</td>
</tr>
<tr>
<td>Discharge Time (sec.)</td>
<td>3~5</td>
<td>5~7</td>
<td>5~7</td>
</tr>
<tr>
<td>*Protected Volume m³</td>
<td>2</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Discharge Point</td>
<td>One end</td>
<td>One end</td>
<td>Both ends</td>
</tr>
<tr>
<td>Operating Temp</td>
<td>-50ºC to +50ºC</td>
<td>-50ºC to +50ºC</td>
<td>-50ºC to +50ºC</td>
</tr>
</tbody>
</table>

* Protected volume refers to the maximum enclosed space, in which extinguishment is achieved in most fires.
Extinction may often be achieved in larger and more open enclosures, depending on the nature, type and severity of the fire.

Ordering information

Grenade

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAG-3/G</td>
<td>Mono Directional Grenade</td>
</tr>
<tr>
<td>MAG-5/G</td>
<td>Mono Directional Grenade</td>
</tr>
<tr>
<td>MAG-5/2G</td>
<td>Bi Directional Grenade</td>
</tr>
</tbody>
</table>

Pyrogen Ltd.
Ginnow Mill Business Centre,
Spa Road, Bolton. BL1 4LF (UK)
Telephone: +44 (0)1204 373300
Fax: +44 (0)1204 373355
E-mail: pyrogen@btconnect.com
www.pyrogen.ltd.uk

Aerosol fog quickly penetrates and suppresses the fire.

Designed and produced by Vermilion 01942701275 (UK)