SIEX-SMS (SMall Spaces)

“Small space protection system”

Over the last few years the value of a wide range of industrial equipment and vehicles has risen while its size has in many cases been reduced. That is why it is more important than ever to protect this type of device, in order to minimise any fire damage without the need for large extinguishing equipment. This system was specifically designed for vehicles, buses, waste lorries, electrical panels, telecommunications servers, paint booths, etc.

Unlike other types of automatic fire protection systems such as dry chemical and traditional water sprinklers, the SIEX-SMS system can use HFC-227ea and HFC-125. These are colourless, odourless electrically non-conductive gases which leave no residue, since they are gases which are dispersed once the discharge is complete, without damaging the equipment, even in the case of electronic devices. Both gases are suitable for Class A, B and C fires, and HFC-125 is also suitable for low temperature use, thanks to its low (-48.5ºC) boiling point.

The extinguishing agent is stored as a compressed liquefied gas in small pressure cylinders which can be installed in almost any location. The cylinder is connected to a very simple distribution network. It incorporates a model RGS-MAM-11-4 or RGS-MAM-12-4 rapid discharge valve with both manual and electrical release connected to an electronic detection system.

Manual activation may be local or remote. Local activation is achieved by removing a safety pin and pressing the manual release on top of the discharge valve. This release may be operated by any operative handling the machine or occupying the protected enclosure. Remote activation is by a push button associated with the panel which controls the extinguishing system.

Once the system is released, either automatically or manually, the extinguishing agent works by interrupting the chain reaction of the combustion. The SIEX-SMS system is supplied with a pressure gauge for quick inspection of the cylinder pressure.

### Cylinder features

<table>
<thead>
<tr>
<th>Container Size (l)</th>
<th>Fill range (kg.)</th>
<th>Approximate weight (empty) (kg.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1.0 - 2.0</td>
<td>Vertical-Horizontal 4.2</td>
</tr>
<tr>
<td>4.7</td>
<td>2.6 - 5.5</td>
<td>Vertical-Horizontal 10</td>
</tr>
<tr>
<td>6.7</td>
<td>3.6 - 7.5</td>
<td>Vertical-Horizontal 14</td>
</tr>
<tr>
<td>13.4</td>
<td>7.0 - 15.0</td>
<td>Vertical-Horizontal 26.8</td>
</tr>
</tbody>
</table>

### General features

- Specifically designed for small spaces.
- Minimal space required for the cylinder.
- Rapid extinguishment, discharge time less than 10 seconds.
- Leaves no residue.
- Excellent discharge characteristics.
- Easy installation and maintenance. Minimal installation cost.
- No risk for people.

### Applications

- Private cars, buses.
- Industrial vehicles, waste transport lorries.
- IT servers.
- Electrical panels.
- Paint booths.
- Industrial equipment.
- Etc.
Over the last few years the value of a wide range of industrial equipment and vehicles has risen while its size has in many cases been reduced. That is why it is more important than ever to protect this type of device, in order to minimise any fire damage without the need for large extinguishing equipment. This system was specifically designed for vehicles, buses, waste lorries, electrical panels, telecommunications servers, paint booths, etc.

Unlike other types of automatic fire protection systems such as dry chemical and traditional water sprinklers, the SIEX-SMS system can use HFC-227ea and HFC-125. These are colourless, odourless electrically non-conductive gases which leave no residue, since they are gases which are dispersed once the discharge is complete, without damaging the equipment, even in the case of electronic devices. Both gases are suitable for Class A, B and C fires, and HFC-125 is also suitable for low temperature use, thanks to its low (-48.5°C) boiling point.

The extinguishing agent is stored as a compressed liquefied gas in small pressure cylinders which can be installed in almost any location. The cylinder is connected to a very simple distribution network. It incorporates a model RGS-MAM-11-4 or RGS-MAM-12-4 rapid discharge valve with both manual and electrical release connected to an electronic detection system.

Manual activation may be local or remote. Local activation is achieved by removing a safety pin and pressing the manual release on top of the discharge valve. This release may be operated by any operative handling the machine or occupying the protected enclosure. Remote activation is by a push button associated with the panel which controls the extinguishing system.

Once the system is released, either automatically or manually, the extinguishing agent works by interrupting the chain reaction of the combustion. The SIEX-SMS system is supplied with a pressure gauge for quick inspection of the cylinder pressure.

### Cylinder features

<table>
<thead>
<tr>
<th>Container Size (litre)</th>
<th>Fill range (kg) HFC-227ea</th>
<th>Fill range (kg) HFC-125</th>
<th>Cylinder position</th>
<th>Approximate weight (empty) (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1.0 - 2.0</td>
<td>1.0 - 1.5</td>
<td>Vertical/Horizontal</td>
<td>4.2</td>
</tr>
<tr>
<td>4.7</td>
<td>2.5 - 5.5</td>
<td>2.0 - 4.0</td>
<td>Vertical/Horizontal</td>
<td>10</td>
</tr>
<tr>
<td>6.7</td>
<td>3.5 - 7.5</td>
<td>4.0 - 6.0</td>
<td>Vertical/Horizontal</td>
<td>14</td>
</tr>
<tr>
<td>13.4</td>
<td>7.0 - 15.0</td>
<td>6.0 - 12.0</td>
<td>Vertical/Horizontal</td>
<td>26.8</td>
</tr>
</tbody>
</table>

### General features

- Specifically designed for small spaces.
- Minimal space required for the cylinder.
- Rapid extinguishment, discharge time less than 10 seconds.
- Leaves no residue.
- Excellent discharge characteristics.
- Easy installation and maintenance. Minimal installation cost.
- No risk for people.
- Worldwide approval:

### Applications

- Private cars, buses.
- Industrial vehicles, waste transport lorries.
- IT servers.
- Electrical panels.
- Paint booths.
- Industrial equipment.
- Etc.