Motor Driven Sirens
GP Range

The GP range of conventional motor powered sirens provides a basic solution to address wide area mass alert signalling for all industrial, civil, commercial and environmental requirements.

The products are of simple rugged construction and provide a low frequency traditional air raid sound.

Main Features

- Audibility range between 106db @ 30metres for the smallest unit to 121db @ 30metres for the largest unit. Sirens in this range in increasing order of sound output are the GP6, GP10 & GP12 units.
- 475Hz constant tone signal for the GP6 & GP10 sirens and a combined 470/560Hz constant tone signal for the GP12 siren.
- Roughly omni-directional sound coverage which peaks in the direction of the front of the stator.
- 400Vac +/- 10% 50Hz 3 phase nominal power supply requirement. (Alternative voltages and frequencies available on request).
- Operating temperature range for the standard GP6 & GP10 units of -20 to +40 degrees C, (increased temperature range units available on request), and for the GP12 of -20 to +55 degrees C.
- Cast aluminium & steel construction.
- Environmental rating of IP55.
- If the power supply to the sirens is pulsed to enable the siren to produce a ‘wail’ tone then the maximum run time of the siren is reduced from continuous for constant tone to 15 minutes.
- Custom built control units can be supplied to enable the siren to produce the ‘wail’ tone signal and associated controls.
- If mounted in a climate where icing can occur the unit should be fitted with thermostatically controlled heaters.

Numeric Information

<table>
<thead>
<tr>
<th>Siren Type</th>
<th>Motor Power</th>
<th>Current Rating</th>
<th>Weight</th>
<th>Dimensions: Overall Length Width &amp; Height</th>
<th>Dimensions: Rotor Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>GP6</td>
<td>2.2kw</td>
<td>4.5A</td>
<td>52kg</td>
<td>460 x 400 x 440mm</td>
<td>400mm</td>
</tr>
<tr>
<td>GP10</td>
<td>5.5kw</td>
<td>11A</td>
<td>98kg</td>
<td>540 x 490 x 560mm</td>
<td>500mm</td>
</tr>
<tr>
<td>GP12</td>
<td>11kw</td>
<td>18A</td>
<td>208kg</td>
<td>760 x 500 x 590mm</td>
<td>500mm</td>
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</tbody>
</table>
FP Range

The FP range of conventional motor powered sirens provides a basic solution to address wide area mass alert signalling in hazardous area locations for all industrial, civil, commercial and environmental requirements.

The products are of simple rugged construction and provide a low frequency traditional air raid sound.

Main Features

- Audibility range between 106db @ 30metres for the smallest unit to 121db @ 30metres for the largest unit. Sirens in this range in increasing order of sound output are the FP6 & FP10 units.
- 475Hz constant tone signal.
- ATEX approved for zone 1 & 2.
- Overall siren standard approval Exd IIIG IIC T4.
- Non electrical parts standard approval ExExc IIC T1..T6 X.
- Roughly omni-directional sound coverage which peaks in the direction of the front of the stator.
- 400Vac +/- 10% 50Hz 3 phase nominal power supply requirement. (Alternative voltages and frequencies available on request).
- Operating temperature range for the GP6 & GP10 units of -20 to +40 degrees C.
- Cast aluminium & steel construction.
- Environmental rating of IP55.
- If the power supply to the sirens is pulsed to enable the siren to produce a “wail” tone then the maximum run time of the siren is reduced from continuous for constant tone to 15 minutes or less.
- Custom built control units can be supplied to enable the siren to produce the “wail” tone signal and associated controls. The controls are only suitable for locating in a non-hazardous area.

Numeric Information

<table>
<thead>
<tr>
<th>Siren Type</th>
<th>Motor Power</th>
<th>Current Rating</th>
<th>Weight</th>
<th>Dimensions: Overall Length Width &amp; Height</th>
<th>Dimensions: Rotor Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP6</td>
<td>2.2kw</td>
<td>4.5A</td>
<td>68kg</td>
<td>490 x 394 x 437mm</td>
<td>400mm</td>
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<tr>
<td>FP10</td>
<td>5.5kw</td>
<td>13A</td>
<td>80kg</td>
<td>614 x 490 x 555mm</td>
<td>500mm</td>
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</table>

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Sound Coverage Plot
Below are typical sound coverage plots for the GP & FP range of sirens and anticipated coverage distance in clear still air on level terrain with no obstructions.

**Single ended GP & FP siren coverage** (GP6, FP6, GP10 & FP10)

**Double ended GP & FP siren coverage** (GP12)

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**Sound Attenuation Chart**

<table>
<thead>
<tr>
<th>Model Audibility (db)</th>
<th>Configuration Omni-Directional</th>
<th>Distance from Siren (Metres)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>GP6/FP6</td>
<td>0</td>
<td>106</td>
</tr>
<tr>
<td>GP10/FP10</td>
<td>0</td>
<td>121</td>
</tr>
<tr>
<td>GP12</td>
<td>0</td>
<td>124</td>
</tr>
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