MAN B&W Two-Stroke S35ME-S and S35ME-GI-S for Stationary Application

Recently, we have seen projects develop where the S35 engine type for stationary application is being considered by customers who wish to exploit the benefits of the latest technical development within the two-stroke diesel technology.

The S35 engine will be available in two versions:

- S35ME-S designed for liquid fuel operation, ranging from HFO, MDO to crude biofuel.
- S35ME-GI-S designed for dual fuel operation on pilot oil and either natural gas from a pipeline or LNG. The pilot oil can be fuel types such as HFO, MDO or crude biofuel.

Both engine versions are available in 7, 8, 9 and 10 cylinder configuration and can operate in NOx emission control mode to ensure compliance with 1,850 mg/Nm³ at 15% dry O₂.

### Engine specifications

#### S35ME-S and S35ME-GI-S

At 50 Hz, corresponding to 166.7 rpm, the output is 870 kW/cylinder in L1 mode and 695 kw/cylinder in L2 mode.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Speed</th>
<th>Mode</th>
<th>MEP</th>
<th>Output per cylinder</th>
<th>Heat rate at MCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 Hz</td>
<td>166.7 rpm</td>
<td>L1</td>
<td>21 bar</td>
<td>870 kW</td>
<td>7,560 kJ/kWh₂</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L2</td>
<td>16.8 bar</td>
<td>695 kW</td>
<td></td>
</tr>
</tbody>
</table>

At 60 Hz, corresponding to 163.6 rpm, the output is 855 kW/cylinder in L1 mode and 685 kw/cylinder in L2 mode.

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<th>Output per cylinder</th>
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</tr>
</thead>
<tbody>
<tr>
<td>60 Hz</td>
<td>163.6 rpm</td>
<td>L1</td>
<td>21 bar</td>
<td>855 kW</td>
<td>7,560 kJ/kWh₂</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L2</td>
<td>16.8 bar</td>
<td>685 kW</td>
<td></td>
</tr>
</tbody>
</table>

These engine versions are designed with electronic control of fuel and gas injection valves, whereas the exhaust gas valve will continue to be mechanically controlled via a camshaft.

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For drawing delivery schedules, please contact our small bore design department via the following e-mail address: les@mandieselturbo.com.

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