# TECHNICAL PRODUCT SUBMITTAL

## EcoSword gas fired condensing water heaters

### Key features Include:
- On board controls
- Enamel lined storage vessel
- Factory fitted Correx

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>LGC 245-420 CE</td>
</tr>
<tr>
<td>Nominal Input (net) kW</td>
<td>22.2</td>
</tr>
<tr>
<td>Nominal Input (gross) kW</td>
<td>24.4</td>
</tr>
<tr>
<td>Gas Flow Rate (natural gas) m3/hr</td>
<td>2.33</td>
</tr>
<tr>
<td>Nominal Output kW</td>
<td>23.5</td>
</tr>
</tbody>
</table>

### EFFICIENCY DATA-Building Regulations

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seasonal Efficiency (Part L2 Gross CV) %</td>
<td>96.4</td>
</tr>
<tr>
<td>Maintenance Consumption value MJ/M</td>
<td>289.1</td>
</tr>
</tbody>
</table>

### EFFICIENCY DATA-ErP and Energy Label

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecodesign Energy Label rating A</td>
<td></td>
</tr>
<tr>
<td>Water Heater efficiency %</td>
<td>92</td>
</tr>
</tbody>
</table>

### GENERAL DATA

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx emission @0% O2 mg/kWh</td>
<td>33</td>
</tr>
<tr>
<td>Recovery Rate @ 44°C l/hr</td>
<td>466</td>
</tr>
<tr>
<td>Recovery Rate @ 50°C l/hr</td>
<td>410</td>
</tr>
<tr>
<td>Recovery Rate @ 56°C l/hr</td>
<td>366</td>
</tr>
<tr>
<td>Dimensions (height ) mm</td>
<td>1543</td>
</tr>
<tr>
<td>Dimensions (diameter) mm</td>
<td>610</td>
</tr>
<tr>
<td>Dimensions (depth) mm</td>
<td>810</td>
</tr>
<tr>
<td>Storage Capacity litres</td>
<td>250</td>
</tr>
<tr>
<td>Weight (empty) kg</td>
<td>120</td>
</tr>
<tr>
<td>Weight (full) kg</td>
<td>370</td>
</tr>
<tr>
<td>Insulation Thickness mm</td>
<td>50</td>
</tr>
<tr>
<td>Insulation Material Polyurethane</td>
<td></td>
</tr>
<tr>
<td>Hot Outlet Connection (inches) BSP (Female)</td>
<td>1”</td>
</tr>
<tr>
<td>Cold Feed Connection (inches) BSP (Female)</td>
<td>1”</td>
</tr>
<tr>
<td>Gas Connection (mm) CU (Male)</td>
<td>15</td>
</tr>
<tr>
<td>Condense Connection (mm) OD (Female)</td>
<td>40</td>
</tr>
<tr>
<td>Electrical Requirements 230V /1Ph/ 50hz</td>
<td></td>
</tr>
<tr>
<td>Power Consumption W</td>
<td>105</td>
</tr>
<tr>
<td>Sound Power Level LWA(db)</td>
<td>53</td>
</tr>
<tr>
<td>Maximum Flue Gas Temperature °C</td>
<td>57</td>
</tr>
<tr>
<td>Max Outlet Temperature °C</td>
<td>85</td>
</tr>
<tr>
<td>Maximum Working Pressure bar</td>
<td>8</td>
</tr>
</tbody>
</table>

EcoSword water heaters must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of [www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)

- Dimensions and clearances page 38/80
- Vented and Unvented installation requirements maintenance page 39/40

**ErP and Warranty**

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at [www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)