LNG Vehicle Fueling Systems

Chart is the world’s leading producer of cryogenic cylinder tanks. The ISO 9001 certified facility in Canton, GA has produced over 1,000,000 stainless steel cylinders. That experience results in a high quality, safe, reliable LNG vehicle tank that will absorb the on-road abuse in heavy-duty vehicles.

Currently, two main models are available for the European market, the UN R110 approved system in which the LNG vaporizer and automatic shut-off valve are installed inside the tank’s shroud, and the previous TPED version in which those two components are external to the tank.

**Product Highlights**

- Uses approximately 2.7 times less space than CNG tanks
- 100% stainless steel, double wall tank construction
- Longest holding time in the industry
- Super insulation – vacuum & insulation wrapping
- Automatic pressure control thanks to an incorporated regulator
- Single hose-fill design and patented over-fill protection
- Manual fuel supply and vapor return valves
- Automatic fuel shut-off valve
- Automatic pressure relief valves (16 & 24 bar)
- Electronic fuel contents gauge
- Vaporization using engine coolant
- Customized solutions depending on customer needs
- Single or dual tank configurations available
- Designed, manufactured and certified in accordance to UN R110 or TPED. Other approvals available.
**SPECIFICATIONS (EXAMPLES OF VARIOUS SIZES)**

<table>
<thead>
<tr>
<th>MODEL*</th>
<th>HLNG-52</th>
<th>HLNG-72</th>
<th>HLNG-119</th>
<th>HLNG-150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>in</td>
<td>mm</td>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>Diameter</td>
<td>26</td>
<td>660</td>
<td>26</td>
<td>660</td>
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<tr>
<td>Length</td>
<td>41</td>
<td>1032</td>
<td>51</td>
<td>1286</td>
</tr>
<tr>
<td>Capacity</td>
<td>gal</td>
<td>ltr</td>
<td>gal</td>
<td>ltr</td>
</tr>
<tr>
<td>Net</td>
<td>45</td>
<td>170</td>
<td>65</td>
<td>246</td>
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<tr>
<td>Gross</td>
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<td>196</td>
<td>73</td>
<td>272</td>
</tr>
<tr>
<td>Weight</td>
<td>lbs</td>
<td>kg</td>
<td>lbs</td>
<td>kg</td>
</tr>
<tr>
<td>Empty</td>
<td>342</td>
<td>155</td>
<td>406</td>
<td>184</td>
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<tr>
<td>Full**</td>
<td>498</td>
<td>226</td>
<td>633</td>
<td>287</td>
</tr>
</tbody>
</table>

* Available in custom sizes from 1016 mm to 2591 mm in length for R110 tanks or up to 1,000 L capacity for TPED tanks. Custom diameters are also available.

** Full weight calculations are based on 0,42 kg/ltr density LNG.

**SPECIFICATIONS**

- Inner & Outer Vessels – ASTM 304 Stainless Steel
- Plumbing Components – Stainless Steel & Brass
- Maximum Allowable Working Pressure (MAWP) – 16 barg
- Operating Pressure Range – 3,5-10 barg
- Single or dual tank configurations available

Chart designers will customize an on-board fuel system to meet your fleet vehicle needs.