GA2 HFC-227ea ENGINE ROOM WORKSHEET

Fireboy-Xintex will certify the volume of the engine room from manufacturer CAD drawing including volume calculations, or from a completed Engine Room Volume Worksheet.

+ MAKE __________ + MODEL __________ + YEAR ________ +
+____________________Signature______________________ + Date ________ +
+__________________Print___________________________ +

**Gross Engine Room Volume**

\[
\begin{align*}
A & \times B & = & \frac{C}{2} & = & \frac{A \times B}{2} & = & \frac{C}{2} \\
D & \times C & = & \frac{B}{2} & = & \frac{D \times C}{2} & = & \frac{B}{2} \\
\end{align*}
\]

**MODEL REQUIRED:**

\[
\begin{align*}
\text{Additional Volume(s)} & \times E \\
\text{GA2 Maximum Protected Volume} & = 3000 \text{ cu.ft.} \\
\end{align*}
\]

**Fixed Tank Deductions - Fuel - Water - Waste**

\[
\begin{align*}
\text{Length} & \times \text{Width} & \times \text{Depth} & = \frac{\text{in}^3}{1728} & = \text{ft}^3 \\
\text{Length} & \times \text{Width} & \times \text{Depth} & = +\text{ft}^3 \\
\text{Length} & \times \text{Width} & \times \text{Depth} & = +\text{ft}^3 \\
\text{Gross Engine Room Volume} & = \text{ft}^3 \\
\end{align*}
\]

**USCG & ABYC ALLOWS DEDUCTIONS FOR FIXED TANKS BY BOAT MANUFACTURERS ONLY. NOTE: ENGINE VOLUME CANNOT BE DEDUCTED**
Engine Room Area

\[ \text{D} \times \text{E} = \text{in}^2 \div 144 = \text{ft}^2 \]
Models 1200-3000 Maximum Approved Area: 606 ft²

Engine Room Height

\[ \text{A} \div 12 = \text{ft} \]
Models 1200-3000 Approved Ceiling Height: 4.0 ft to 9.0 ft

Discharge Nozzle Height

Distance from ceiling to discharge nozzle \[ \text{_________ in} \]
Maximum Approved distance: 24 in

Location of Cylinders & Nozzle Configuration

Indicate Cylinder Location in blank diagram above

Cylinder 1 \[ \text{F1} \] \[ \text{F2} \]
Cylinder 2

\[ F = \text{Distance to nearest wall (Informational Only)} \]
\[ \text{_________ ft, } \text{_________ ft} \]
Models 1200-3000 Maximum Approved Radial Reach per cylinder: 19.4 ft (19 ft 5 in)
Entire Area must be covered by the combined Radial Reach of the Nozzles

Area Covered (Y/N?)
### Discharge Piping Lengths

<table>
<thead>
<tr>
<th></th>
<th>Cylinder 1</th>
<th>Cylinder 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>G = Pipe Length between GA2 Valve and Elbow</td>
<td>in, in</td>
<td>in, in</td>
</tr>
<tr>
<td>H = Pipe Length between Elbow and Discharge Nozzle</td>
<td>in, in</td>
<td>in, in</td>
</tr>
<tr>
<td></td>
<td>G1</td>
<td>G2</td>
</tr>
<tr>
<td></td>
<td>H1</td>
<td>H2</td>
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<tr>
<td>=</td>
<td>in</td>
<td>in</td>
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<tr>
<td>Total</td>
<td>Total</td>
<td>Total</td>
</tr>
</tbody>
</table>

Minimum Approved Length: 4 in
Maximum Approved Length: 52 in
Maximum Approved Total Length: 56 in