MA2/CG2 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** __________

MEASURED BY ________________________________  **Signature** __________________  **Print** __________________  **Date** __________

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**Gross Engine Room Volume**

\[
\text{Length} + \text{Width} = \text{Area} \div 2 = \text{Area} \times \text{Height} = \text{Volume}\nn
\text{A} + \text{B} = \text{C} \div 2 = \text{C} \times \text{D} = \text{Volume}\n\]

**MODEL REQUIRED:** ______________________________________  \( \times \) \( \text{E} \)  \( \text{Volume}^3 \)

**Additional Volume(s)** \( + \) \( \text{Volume}^3 \)

**MA2 Maximum Protected Volume = 1500 cu.ft.**

**CG2 Maximum Protected Volume = 1000 cu.ft.**

\( \text{Volume}^3 \div 1728 \)

**Gross Engine Room Volume** = \( \text{Volume}^3 \) ft³

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

\[
\text{Length} \times \text{Width} \times \text{Depth} = \text{Volume}^3 \div 1728 = \text{Volume}^3 \\
\text{Length} \times \text{Width} \times \text{Depth} = \text{Volume}^3 \div 1728 = + \text{Volume}^3 \\
\text{Length} \times \text{Width} \times \text{Depth} = \text{Volume}^3 \div 1728 = + \text{Volume}^3 \\
\text{Gross Tank Volume} = \text{Volume}^3 \\
\text{Gross Engine Room Volume} - \text{Gross Tank Volume} = \text{Net Engine Room Volume} \\
\text{Volume}^3 - \text{Volume}^3 = \text{Volume}^3
\]

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

\[
\frac{D \times E}{144} = \text{ft}^2
\]

Models 025-300 Maximum Approved Area: 89.3 ft\(^2\)
Models 325-700 Maximum Approved Area: 144 ft\(^2\)
Models 750-1500 Maximum Approved Area: 303 ft\(^2\)

Engine Room Height

\[
\frac{A}{12} = \text{ft}
\]

Models 025-300 Approved Ceiling Height: 2.2 ft to 6.3 ft
Models 325-700 Approved Ceiling Height: 3.0 ft to 7.0 ft
Models 750-1500 Approved Ceiling Height: 4.0 ft to 9.0 ft

Discharge Nozzle Height

Distance from ceiling to discharge nozzle: 20 in

Location of Cylinder

Indicate Cylinder Location in blank diagram above

\[F = \text{Distance to nearest wall (Informational Only)}\]

\[G = \text{Distance to furthest corner (Maximum Radial Reach)}\]

Models 025-300 Maximum Approved Radial Reach (G): 10.6 ft
Models 325-700 Maximum Approved Radial Reach (G): 13.4 ft
Models 750-1500 Maximum Approved Radial Reach (G): 19.4 ft