

How to Calculate CO₂ flow

1. Measure the euthanasia chamber's size in inches: $16 \text{ in} \times 17 \text{ in} \times 35 \text{ in}$
2. Convert each measurement into feet. Divide each dimension by 12:
 $16 \div 12 = 1.3 \text{ ft}$
 $17 \div 12 = 1.4 \text{ ft}$
 $35 \div 12 = 2.9 \text{ ft}$
Multiply the three measurements together to determine the chamber's volume in cubic feet: $2.9 \times 1.4 \times 1.3 = 5 \text{ ft}^3$
The chamber size is **5** cubic ft.

Next, find the optimal flow rate range (30 to 70% of chamber volume per minute).

3. Find the lower limit of 30%.
Multiply the chamber size (in cubic feet) by 30. Then divide by 100: $\frac{(5 \text{ ft}^3 \times 30)}{100} = 1.5 \text{ ft}^3$
Find the upper limit of 70%.
Multiply the chamber size (in cubic feet) by 70. Then divide by 100: $\frac{(5 \text{ ft}^3 \times 70)}{100} = 3.5 \text{ ft}^3$

The CO₂ flow rate for a **5 ft³ chamber** should be between **1.5 and 3.5 ft³ per minute.**



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