

NEW

CO₂ Flowmeter

For CO₂ Euthanasia

Compliance Made Easy

- Calibrated to Accurately Deliver CO₂ to Chamber.
- Easy to Connect to ANY Chamber.
- Small Profile.
- Three-way Ball Valve offers quick chamber fill when needed.
- Easy to Set CO₂ Flow rate.
- Wall Mount Option.



Cylinder/Tank Mount



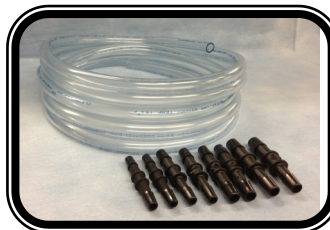
Wall Mount



Bench Mount



Barb fitting for connecting to 5/16" or 1/4" ID hose
Enclosure Size = 5" W x 6.5" H x 2" D



Tubing w/ coupler kit

- 1/4" to 1/4" ID - 2 ea
- 1/4" to 5/16" ID - 2 ea
- 5/16" to 5/16" ID - 2 ea
- 5/16" to 3/8" ID - 2 ea



Low Pressure CO₂ Regulator

Which CO₂ flowmeter to use?

Calculate the total volume of your chamber in cubic inches (in³). Your chamber volume should fall between the min and max of the selected CO₂ flowmeter for the selected **Chamber Displacement Rate**.

CO ₂ Flowmeter Model/Range	Chamber Volume (in ³)	Chamber Displacement Rate		
		30%	70%	
XL900 3.0 - 25 l/min	max	5,040	2,178	
	min	612	261	
LC500 1.0 - 10 l/min	max	2,012	871	
	min	210	87	
SC100 0.5 - 5.0 l/min	max	1,001	436	
	min	96	44	

Example Calculations for 70% Chamber Vol/min

Large Rat Cage

14" x 12" x 7.75" = 1,371.8 in³.
 1,371.8 in³ x 0.70 = 960.3 in³ (flow rate wanted 960.3 in³/min).
 960.3 in³/min divided by 61.024 = **15.7 l/min** AIMS CO₂ flowmeter setting

Cat#	Description
SC100	Model SC100 CO₂ Flowmeter CO ₂ flow rates: 0.5 - 5.0 l/min
LC500	Model LC500 CO₂ Flowmeter CO ₂ flow rates: 1.0 - 10 l/min
XL900	Model XL900 CO₂ Flowmeter CO ₂ flow rates: 3.0 - 25 l/min
WMB2	Wall Mount Brackets w/ mounting hardware
TMB1	Bench Mount Bracket Attach Flowmeter to bench to prevent tipping
CMB3	Cylinder Mount Bracket Attach Flowmeter to CO ₂ Cylinder/Tank
FMT2	Tubing, 10' w/ Coupler Kit 5/16" ID x 9/16" OD
LPRE	Low Pressure Regulator 0 - 60 psi, w/ tank gauge



607.324.6752
 www.aimsLabProduct.com
 info@aimsLabProducts.com

Cages Size: 14.75"L x 12"W x 7.75"H

$$14.75 \times 12 \times 7.75 = 1,371.8 \text{ in}^3$$

$$30\% \text{ Displacement} - 1,371.8 \text{ in}^3 \times 0.30 = 411.5 \text{ in}^3 / \text{min}$$

$$411.5 \text{ in}^3 / \text{min} \text{ divided by } 61 \text{ to convert to l/min} = \underline{\mathbf{6.7 \text{ l/min Flowrate}}}$$

$$70\% \text{ Displacement} - 1,371.8 \text{ in}^3 \times 0.70 = 960.3 \text{ in}^3 / \text{min}$$

$$960.3 \text{ in}^3 / \text{min} \text{ divided by } 61 \text{ to convert to l/min} = \underline{\mathbf{15.7 \text{ l/min Flowrate}}}$$

Cage Size: 12.2"L x 6.75" W x 5.5"H

$$12.2 \times 6.75 \times 5.5 = 452.9 \text{ in}^3$$

$$30\% \text{ Displacement} - 452.9 \text{ in}^3 \times 0.30 = 135.9 \text{ in}^3 / \text{min}$$

$$135.9 \text{ in}^3 / \text{min} \text{ divided by } 61 \text{ to convert to l/min} = \underline{\mathbf{2.2 \text{ l/min Flowrate}}}$$

$$70\% \text{ Displacement} - 452.9 \text{ in}^3 \times 0.70 = 317.0 \text{ in}^3 / \text{min}$$

$$317.0 \text{ in}^3 / \text{min} \text{ divided by } 61 \text{ to convert to l/min} = \underline{\mathbf{5.2 \text{ l/min Flowrate}}}$$