

Carbon Dioxide Euthanasia Instructions

FLOW RATE	<p><i>Please calculate the flow rate required for approximately 20% displacement (Use the internal chamber dimensions (LxWxH) and convert to Liters), delete the instructions in this box and enter the flow rate for your chamber here:</i></p> <p><i>Measuring using inches: 61.02 in³ = 1 liter eg. 10 x 8 x 5 inches = 400 in³/61.02 = 6.55 L x 20% = 1.31 L/min</i></p> <p><i>Measuring using Cm: 1000 cm³ = 1 liter eg. 30 x 20 x 10 cm = 6000 cm³ / 1000 = 6 L x 20% = 1.2 L</i></p> <p><i>A standard mouse box from the vivarium = 1.1 L/min</i></p>
------------------	--

Important Reminders

- Do not exceed cage density regulations (see Rodent Overcrowding Policy).
- Do not mix animals from different cages or different species.
- Do not leave animals unattended.
- Young (< 10 days) or sick animals may require additional CO₂ exposure time due to resistance to hypoxia.
- Keep CO₂ on for at least 1 minute after the animals stop breathing. Then perform a required secondary method of euthanasia below:
 - Cervical Dislocation (only for rodents < 200 g)
 - Decapitation
 - Bilateral Thoracotomy
 - Exsanguination
- If using the same chamber for serial euthanasias, the chamber should be cleaned and left open for 2 minutes to allow previous CO₂ to dissipate so the chamber is not pre-charged.
- Any animal not properly euthanized must be reported to the IACUC.

Please contact vivarium staff for training on any of the above procedures