



### Animal Welfare-Focused

The A-Chamber is a uniquely engineered enclosure designed for precise and efficient atmospheric control in in vivo studies. When paired with any BioSpherix gas controller, the A-Chamber delivers reliable environmental regulation, ensuring both experimental integrity and humane conditions. Unlike traditional in vivo enclosures, the A-Chamber utilizes passive ventilation controlled through a series of gas exchange ports located on the side of the chamber, ensuring subject safety while minimizing gas usage.

### Optimized Gas Efficiency

The A-Chamber's customizable design allows researchers to tailor configurations to their specific protocols and facility requirements. An optional translucent red door supports circadian rhythm studies and low-stress animal handling while still allowing visibility inside the chamber.

### Features:

- Adjustable ventilation
- Single, ergonomic latch
- Customizable design
- Three standard sizes
- Fast recovery time
- Easy cleanup



Scan to read how the A-Chamber is used in research



# A-Chamber

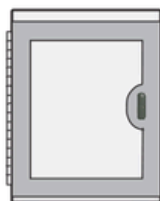
The A-Chamber is designed to house animals within standard cages, simplifying cleaning and routine protocols. Standard configurations fit common rodent cages with space for water bottles, feeders, and filter covers, and include a riser plate for under-cage accessories when needed.

Custom chambers are available for any cage size or specialized setup, with options such as glove fronts, iris ports, and heating pads to meet your lab's requirements.

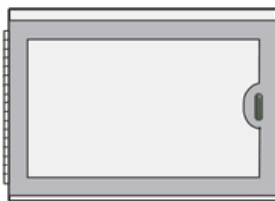


A removable riser (1.5" clearance) is included with each chamber that is flush with the opening of the chamber for easy maneuverability of cages in/out.

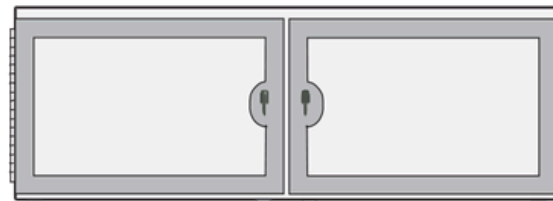
**Small Chamber**



**Medium Chamber**



**Large Chamber**



**Interior Dimensions (WxDxH)**

15"(38 cm) x 20"(51 cm) x 20"(51 cm)

30"(76 cm) x 20"(51 cm) x 20"(51 cm)

66"(168 cm) x 20"(51 cm) x 20"(51 cm)

**Exterior Dimensions (WxDxH)**

16"(40 cm) x 20"(51 cm) x 21.3"(54 cm)

31"(78 cm) x 20"(51 cm) x 21.3"(54 cm)

67"(170 cm) x 20"(51 cm) x 21.3"(54 cm)

**Door Opening Dimensions (WxD)**

12.6"(32 cm) x 17.7"(45 cm)

27.6"(70 cm) x 17.7"(45 cm)

27.6"(70 cm) x 17.7"(45 cm) per door

**Total Depth (Door Open)**

36.2"(92 cm)

51.2"(130 cm)

51.2"(130 cm)

**Riser Dimensions (WxD)**

11.8"(30cm) x 17"(43cm)

27.2"(69cm) x 17"(43cm)

27.2"(69cm) x 17"(43cm) per riser

**Weight**

31 lbs

58 lbs

113 lbs



[www.BioSpherix.com](http://www.BioSpherix.com)



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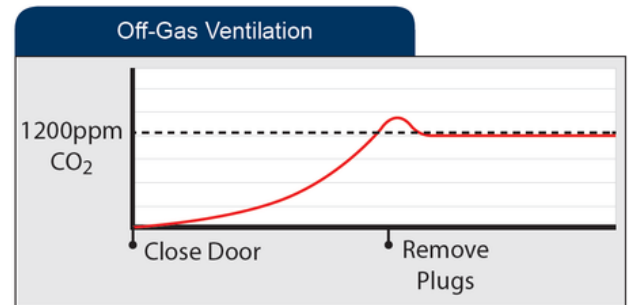
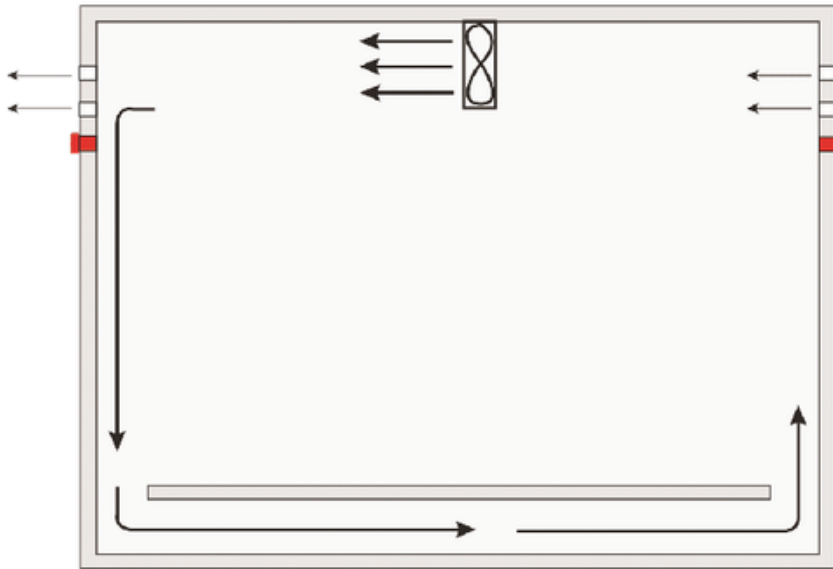


[Youtube.com/@Cytocentric](https://www.youtube.com/@Cytocentric)

# A-Chamber

The A-Chamber is designed to manage off-gases through controlled ventilation rather than reliance on consumable scrubbers. Unlike scrubbers, which become depleted and require frequent replacement, ventilation provides a consistent, non-exhaustible method for maintaining safe chamber conditions, improving reliability while reducing cost and technician workload.

In most applications, controlling CO<sub>2</sub> levels effectively manages all animal-generated off-gases. For applications with increased humidity, such as active animal exposure or moist bedding, ventilation can be precisely adjusted using a mobile monitor pod. The monitor pod allows chambers to be easily characterized, documented, and verified, supporting animal welfare, experimental integrity, and reproducibility.



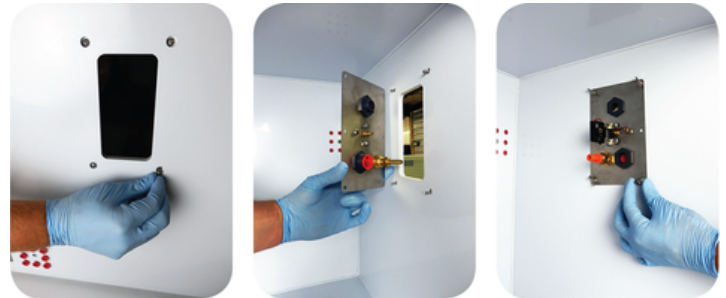
The riser plate allows for air to flow uninterrupted throughout the chamber. Ventilation plugs (left, displayed in red) can be added or removed to adjust ventilation accordingly.

## Installation

### Installing Adapter Pods



### Installing Adapter Plates



Each chamber has two standard cut outs for the attachment of BioSpherix controller pods. More than the standard two pods/plates can be attached with minor modification, and other customization options are available.



# A-Chamber

The following BioSpherix controllers are most commonly used with the BioSpherix A-Chamber. Other gas control options are available, including combination NO, CO, as well as ozone (O<sub>3</sub>). Contact your BioSpherix representative for customization options and details.

BioSpherix Controller	O <sub>2</sub>	CO <sub>2</sub>	CO	NO	NO <sub>2</sub>	Dynamic	Monitor	Chambers
OxyCycler A84XOV	●					●	●	4
OxyCycler A41OV	●					●	●	1
ProOx P360	●							1
ProOx P110	●							1
OxyCycler A44C		●				●		4
ProCO2 P120		●						1
ProCO2 P120 ppm		●						1
OxyCycler A42OC	●	●				●		2
OxyCycler A42CO			●			●		2
OxyCycler A42N				●		●		2
OxyCycler A82NN				●	●	●		2

