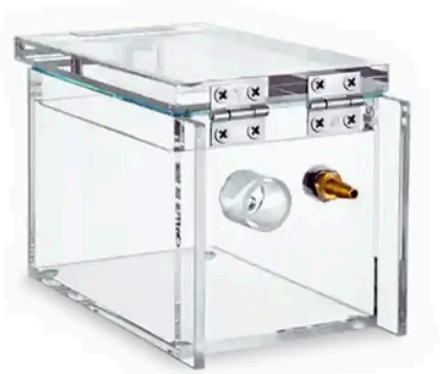
SETUP GUIDE · ANESTHESIA & VENTILATION

Anesthesia Induction Chamber.

This guide takes you from unboxing to a ready induction station. Confirm chamber fit and gas-system compatibility first, then stage the chamber alongside your anesthesia workstation, scavenging, warming, and monitoring.



ANIMAL MODELS	CONFIGURATIONS	SETUP TIME
Mouse, rat, rabbit, cat (model-dependent)	7 variants — coaxial or separate I/O	~30 min

STEP BY STEP

Setting up the chamber.

1 Confirm model fit and gas interface

Match the chamber size to your animal model and choose coaxial or separate I/O. Confirm the inlet/outlet against your vaporizer, flowmeter, and tubing before first use.

Tip · Coaxial I/O routes inlet and outlet through one concentric path; separate I/O gives distinct inlet and outl for assisted scavenging.

Caution · Confirm gas-fitting compatibility and waste-gas scavenging before introducing an animal.

2 Clean and inspect the chamber

Wipe the acrylic body and lid with a mild detergent or 70% isopropyl alcohol. Inspect the seal strip and hir not autoclave — heat and gamma craze cast acrylic.

Tip · Use a soft, lint-free cloth. Avoid acetone, aromatic, or chlorinated solvents, which attack PMMA.

Caution · No autoclave, no gamma. Acrylic crazes and yellows. Clean by wipe-down only.

3 Place the chamber and connect the gas path

Set the chamber in the approved induction area with clear animal visibility. Connect the inlet to the vaporizer/flowmeter and route the outlet to corrugated tubing and an activated-carbon canister or active scavenging.

Tip · Keep the chamber level and the lid seal clear of debris so the seal-strip closure seats evenly.

4 Induce, transfer, then clean between animals

Induce per your approved protocol, observe through the clear chamber, then transfer the animal to a mask cone, stereotaxic frame, or procedure station. Wipe and inspect the chamber between animals.

Tip · Track induction and recovery timing as part of your protocol record; the chamber is for induction, not maintenance.

BEYOND THE CHAMBER

What you'll add.

SOURCE SEPARATELY TO YOUR PI

The chamber covers induction only. Plan separately for the systems below — sized to your animal model and approved animal-care protocol.

Anesthesia machine + vaporizer	Delivers and meters the anesthetic agent.
Flowmeter / gas source	Oxygen or carrier gas at the required flow.
Waste-gas scavenging	Activated-carbon canister or active scavenging — required.
Maintenance interface	Mask, nose cone, or stereotaxic frame for post-induction.
Warming + monitoring	Warming pad and physiological monitoring per protocol.

SAFETY & USE

Before you run.

- Research use only — not a medical device.
- Waste-gas scavenging is required during use.
- Use under an approved IACUC / animal-care proto
- Cast acrylic: wipe-clean only, no autoclave or gam

CONTINUOUSLY VERIFIED · SPEC V8

Setup guidance verified against current published product data. Verified May 2026. conductscience.com/lab/anesthesia-induction-ch