

Automated Euthanasia System

Euthatox: Automated Euthanasia System for Experimental Animals

The small animal euthanasia system adopts the method of carbon dioxide hypoxia to kill, which can effectively reduce the pain and suffering of experimental animals compared with cruel methods such as decapitation and bloodletting.

According to the 2020 AVMA Guidelines, laboratory animal euthanasia requires minimizing pain and distress, with CO₂ inhalation being a common method for rodents. AVMA guidelines suggest using compressed CO₂ gas to displace 30%–70% of the chamber/cage volume per minute. Euthanasia in the home cage is preferred to minimize stress, and animals must not be overcrowded.

The Euthatox Tabletop Auto CO₂ System is an advanced automated euthanasia unit that has been developed specifically for euthanizing small rodents, considering AVMA guidelines. The system incorporates three key components, the Controller, Chamber and exhaust system. The system works with preset timings that assure humane and efficient levels of CO₂. The Euthatox automates a three-stage euthanasia cycle at the push of a button: charging, dwell time, and exhaust. The clear polycarbonate front and top windows provide visibility, while the top-loading lid offers easy cage access. Airtight, gasket-sealed door prevents gas leakage during operation. The manifold design ensures even gas distribution. The system includes a mobile cart for ergonomic height when loading and unloading cages. The colour-touch PLC screen allows easy operation.



Key Features & Benefits:

- Compliant with AVAM guidelines
- Easy-to-use, interactive color-touch screen control
- Inbuilt 20 programs
- Saves time as after starting the system, the technician is free to do other work
- Multilanguage option
- Password protected system with different login options

Cage Holding Capacities:

Cage Type	Model 1	Model 2
Mice open top cage - 29X22X14cm	1	7
Rat Open tope cage - 43x29x20cm	1	2
IVC Cage of floor space 500cm sq (without lid)	1	6
IVC Cage of floor space 530cm sq (without lid)	1	6
IVC Cage of floor space 800cm sq (without lid)	1	2
IVC Cage of floor space 900cm sq (without lid)	1	2
IVC Cage of floor space 1360cm sq (without lid)	--	1

Time Chart Setting As Per Animal

Step	Mice Adult (min)	Rat Adult (min)	Guinea Pig (min)
Charging	4	4	3
Dwell	Upto 5	Upto 5	Upto 5
Exhaust	1	1	1

Ordering Information:

Model	External Dimensions of the Chamber L x W x H	Chamber Internal Dimensions L x W x H	Power Requirements	Gas Requirements	Accessories Included	Optional
Euthatox 1	587 x 466 x 440mm	450 x 310 x 230mm (32 Ltr)	230V AC, 50Hz	Pressure: 4 bar, Flow-rate 37.5 lpm	Euthanasia Chamber with controller mounted on Trolley, fitted with exhaust system	Heater assembly
Euthatox 2	985 x 635 x 400mm	690 x 590 x 360mm(146 Ltr)				C02 Cylinder with pressure gauge

Note: Orchid's continuing product development makes specifications subject to change without prior notification.



Orchid Scientific & Innovative India Pvt. Ltd.

📍 B-59, M.I.D.C., Ambad, Nashik - 422010, India.

☎ +91253-2387600, 2972525

✉ office@orchidscientific.com, exports@orchidscientific.com

🌐 www.orchidscientific.com



www.orchidscientific.com