



Gas Anesthesia System

Cat. No. 21100

General

The Ugo Basile New Gas Anesthesia is a compact, modular and reasonably-priced system, intended to match the highest technical requirements of animal labs that do not compromise on quality.

A wide range of options and accessories are available, most of which can be added in a scalable manner, making the system modular and with an excellent value for price!

Typical anesthesia procedures involve an induction phase and a maintenance phase, which require at least:

- Flow-meter and anesthetic Vaporizer
- Induction box and mask with breathing circuit
- Scavenger or flow hood (for gas anesthetic removal)

The Ugo Basile New Gas Anesthesia system include all of the above! ... and much more!



Portable

- Up to six Animals with one Station

Modular

- Full range of accessories

Main Features

- Digital Flowmeter with wide range (up to 16 LPM) for multiple animals delivery
- Manifold for mask/induction box switch and full range of accessories
- NEW Tec3 Vaporizers (non-refurbished)

Overview

The unique digital flowmeter, coupled to non-refurbished vaporizers for Isoflurane, Halotane or Sevoflurane, result in an innovative yet sturdy and reliable system to anesthetize animals of virtually any size (even horses!) and up to 6 animals simultaneously.

An ample selection of modular components and accessories enables the researcher to customize and expand the anesthesia system upgrading from a basic (flowmeter and vaporizer) to a full system (with induction boxes, breathing circuits with masks of any size, switch valves, delivery systems for multiple animals, active and passive scavengers, etc.).

The blue 4mm thick aluminum rack has a highly resistant paint to protect against stains from aggressive anesthetic liquids & solvents.

Two universal attachment blocks are mounted on the back, to connect the device easily to any rail or mobile floor model anesthesia rigs of sizes 25x8mm up to 35x10mm.

Digital Flowmeter

The Ugo Basile Gas Anesthesia System includes a unique digital flowmeter.

The wide flow range (from 0.3 to 16 LPM) and the fine resolution (0.1 LPM) of the digital flowmeter guarantees enough gas flow for anesthesia of up to 6 animals simultaneously!

Small and large animals could be anesthetized with the same system (virtually, from mouse to horse!)



Nose-cone/Masks with diaphragm

Unlike many rodent masks available on the market, these masks incorporate a latex diaphragm, which holds the rodent's nose keeping the animal in correct position and ensuring a continuous positive flow of fresh oxygen & anesthetic to the rodent.

The membrane also provides a positive seal reducing the exposure of the investigator to anesthetic gases.

Available in several sizes: Small/ Large Mice, Small/ Medium/Large Rats.



The picture shows a mouse nose-cone/mask, connected to an evacuation tubing.

Induction Box

The 7900 Induction Box is a conveniently dimensioned (25x13x13cm), cost-effective solution to confine one guinea pig, one rat or several mice.



It incorporates a sliding lid and tubing connectors (vaporizer input and scavenger output).

Deluxe boxes with fan and power supply are also available.

Other box sizes can be ordered for larger animals,

such as rabbits.

Dual Diverter Manifold with Humidifier

All of the Ugo Basile Gas Anesthesia Systems come with a pre-installed mounting bracket to fit the Dual Diverter Manifold (as shown in the picture).



The anesthetic gas flow can be diverted toward 2 independent devices (i.e. an induction chamber and a breathing mask).

A simple and efficient humidifier is included with the manifold. It is especially recommended for long-term anesthesia procedures, when dehydration can become an issue.

Multiple Delivery System

The Multiple Delivery accessory allows for connection of up to six devices to one anesthesia system for simultaneous operation. Each device (for 2, 3, 4, 5 or 6-animals) has independent flow regulation.



F/AIR Scavenger

A solution to handling waste anesthetic gases when active evacuation systems are not available. These activated charcoal canisters remove approx. 50g of halogenated anesthetic agents from the waste gas stream before being discarded. The canisters can be easily connected to any anesthesia machine.

Ordering Information

Anesthesia Systems

21050 Basic Single-Output Anesthesia System including Digital Flowmeter (for O₂ or Medical Air) and TEC-3 vaporizer for Isoflurane (vaporizers for other anesthetic agents are available on request).

21100 Single-Output Anesthesia System including 21050 Basic Single-Output Anesthesia System, scavenger (Activated Charcoal Canister), evacuation tubing.

21200 Double-Output Anesthesia System Including 21050, scavengers (Activated Charcoal Canister), evacuation tubing and dual diverter manifold with humidifier, for simultaneous connection of nose-cone/mask and induction box.

21400 Multiple-Animal Anesthesia System including 21050, scavengers (Activated Charcoal Canister), evacuation tubing and Multiple Delivery System for 4 animals.

21600 Multiple-Animal Anesthesia System including 21050, scavengers (Activated Charcoal Canister), evacuation tubing and Multiple Delivery System for 6 animals.

Accessories

Delivery Systems (Masks & Induction Boxes)

- PS-0525-A** **Nose-Cone/Mask Circuit for Small Mice**, with diaphragm and Inlet Adaptor
- PS-0305-A** **Nose-Cone/Mask for Large Mice**, 3cm Ø
- PS-0306-A** **Nose-Cone/Mask for Small Rats**, 4.5cm Ø
- PS-0307-A** **Nose-Cone/Mask for Medium Rats**, 5cm Ø
- PS-0308-A** **Nose-Cone/Mask for Large Rats**, 5.5cm Ø
- 7900** **Induction Box for small rodents** (mice and rats), dimensioned 25x13x13 (h) cm
- 7910** **Induction Box, large size**, 40x22x21 (h) cm
- PS-0347-AF** **Deluxe Induction Box with Fan and over Supply**, 20x34x16 (h) cm

Multiple-Output Delivery Systems

- PS-0529-02** **Dual Diverter Manifold** with humidifier
- PS 30-456** **Multiple-Animal Delivery System**, 2 Flowmeters

- MPS 30-457** **Multiple-Animal Delivery System**, 3 Flowmeters
- PS 30-458** **Multiple-Animal Delivery System**, 4 Flowmeters
- PS 30-460** **Multiple-Animal Delivery System**, 5 Flowmeters
- PS 30-459** **Multiple-Animal Delivery System**, 6 Flowmeters

Anesthetic Scavenger and Evacuation

- PS-0581-00** **F/air filter** (activated charcoal canister)
- PS-0581-01** **F/air filter** (activated charcoal canister), pkg. of 8
- PS-0582** **Evac Tubing for F/air**, 1,8m with 19mm male x 22m female adaptor
- PS-0833** **Active Scavenger**, to remove the anesthetic agent by negative pressure (can also be connected to an activated charcoal canister)

Heating Pads and Surgical Tables

- PS-0491** **Rodent Workstation**, with heated surgical table and outlet for anesthetic removal. Includes connection tubing for GAYMAR water circulator (not included)
- PS-0766** **Water Circulating Pump** GAYMAR TP500, adjustable from 30 to 42°C
- PS-0811** **Heating Pads** Delta-Phase Iso-therm (pkg of 3), 20x20x0,65cm. Maintains animal body temperature near 37°C up to several hours. Ideal for NMR.

Other Accessories



- PS-0950** Fill Device, Isoflurane
- PS-0949** Fill Device, Halothane
- PS-0951** Fill Device, Sevoflurane

Special Systems with N₂O

- 22100** **O₂/N₂O Anesthesia System**, with 2 Analog Flowmeters, TEC-3 vaporizer for Isoflurane (vaporizers for other anesthetic agents are available on request), scavenger (Activated Charcoal Canister), evac tubing.