



BIOSTHESIA 300

SALES MANUAL

VILBER is pleased to announce the release of a new compact portable anesthesia system for small animal imaging. This system is compatible with a dedicated version of the Fusion FX imaging station.

This Sales Manual is intended to provide a thorough collection of product information for sales and training support.

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Section 1: Product Description

Overview

The Biosthesis system has been especially designed for inhalation of isoflurane agents to laboratory animals. It is a small weight, compact and robust device. It can be used as a standalone unit on a table. As this device is transportable, it can be moved from one place to another in no time and can be immediately operational.

The system is composed of a medical grade digital flowmeter, a precision TEC3 format vaporizer, an active charcoal filter, a breathing circuit with mouse nose-cone/mask and an induction box.

The Biosthesis 300 could supply at the same time the imaging rack for two mice and the induction box.

Medical grade digital flowmeter

Our Biosthesis system is available with a medical grade digital oxygen flowmeter. The digital flowmeter is used to control the flow-rate of gases drawn from a compressed oxygen gas cylinder. Simply connect the oxygen regulator from your oxygen tank to the flowmeter to ensure the oxygen input in the Biosthesis system.

Our medical grade flowmeters meet your requirements through:

- High degree of precision
- Clear display of the set flow
- Large control knob without corners and edges
- Low maintenance needed
- High stability through robust housing

The oxygen flow can be precisely proportioned between 0.3-16 l/min with a fine resolution of 0.2l/min. It guarantees enough gas flow to anesthetize up to 4 animals simultaneously! Our large rotary control knob makes setting the correct flow-rates quick and simple and the engineering quality supplies the accuracy.



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Industry standard TEC 3 format vaporizer

The Biosthesis vaporizer is designed to operate with Isoflurane and is calibrated using a laser refractometer, to ensure that all important accuracy of use.

In addition, our vaporizer has safety lock function, to prevent accidental turn on - making the Biosthesis vaporizer not only one of the most accurately manufactured and certified vaporizer, but one of the safest.

Our vaporizer gathers the following specifications:

- Liquid Capacity: amount of anaesthetic drug to fully charge the vaporizer – 125ml; Amount retained by the wick system – 40ml.
- Calibrated specifically for Isoflurane.
- Temperature, flow, and duration of use compensation.
- Safety lock to help prevent accidental turn-on of dial.
- Unique purple color coded parts relevant to drug bottle color to prevent errors when administering the anaesthetic agent.
- Manufactured in lightweight aluminium
- Ambient temperature -18°C to 35°C (calibrated at 22°C)



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Slide out induction box

The Biosthesis slide top induction chambers feature positive sliding tops that reduce exposure to waste anesthetic gases when compared to hinge / lift top style induction chambers. They also allow for quick and easy access to the animal inside the chamber. Our slide top induction chambers are constructed of durable PET-g, vs. the acrylic that most research anesthesia induction chambers are made of, making them shatter resistant. They can also be cleaned with alcohol and other harsh disinfectants.

The fresh and waste anesthetic gas inlet and outlet adaptors are industry standard 15mm i.d. X 19mm o.d. Stainless steel screws and stainless steel handles are used for durability and cleanliness.



- We offer Three different models:
- Single mouse chamber - 1.25 liters
- Two to three mice chamber – 3 liters (in standard in the Biosthesis 300 series)
- Four to five mice chamber - 5.4 liters

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Multi animal breather

The Multi-Animal Breather is designed for use with the fusion FX in vivo series. equipment. The Biosthesis breather incorporates a valve design that mitigates the gas flow to each nosecone mask. All ports operate in a level plane of anesthesia. Single gas line supplies the multiple output. The exhaust line runs to the charcoal filter for safe gas evacuation. The Biosthesis breather is fixed on the in vivo heating pad inside the Fusion FX7 chamber. Tight-fitting nosecone eliminates gas leakage and protects personnel from gas exposure.

The Biosthesis breather accommodates animals weighing up to 500 grams each.



The Biosthesis 300 comes with a dual port breather which can accommodate 2 mice. Other breathers are available under request.

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Multiplex delivery system (MDS)

The Biosthesis multiplex delivery system manages independently the gas flow to the incubation box and the imaging multi-animal breather.

The MDS allows the investigator to use up to two stations simultaneously using only one anesthesia vaporizer and ensures proper fresh gas flow rate to each station used. This provides maximum safety for the animal subjects.

Color coded tubing and common outlets are included.



Vaporizer fill device

Fill device is matched to the fill system on the Biosthesis vaporizer. The fill device is purple color coded for Isoflurane. Vaporizer fill devices make filling the vaporizer faster and easier with less waste due to spillage. Less spillage means less exposure to anesthetic gases for you.



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Active scavenger system

Health and safety in all clinical areas is a priority. The Biosthesis active scavenge system combined with a passive charcoal canisters system. It creates a vacuum to direct the gas to the canister.

Specifications:

- Capable of pushing waste gas up to 15 meter
- Capable of drawing waste gas up to 3 meter
- Recirculates air in surgical environment to create a safer work area

The Biosthesis active scavenge system is connected to both the induction box and to the imaging multi-animal breather. The gas is removed to the activated charcoal canisters.



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About VILBER LOURMAT

Founded in 1954 and with over 20,000 systems sold worldwide, Vilber Lourmat is the leading European provider of molecular imaging system, analysis software and UV fluorescence equipment for the life science research and the drug discovery sector.

VILBER has pioneered the post electrophoresis market and introduced breakthrough products such as stand-alone gel-documentation, Bio-1D imaging software, Super-Bright UV technology, dedicated chemiluminescence imaging system and 3D approach to 1D gel analysis.

Through a network of owned subsidiary offices and local distributors located in over 60 countries around the world, VILBER offers a broad range of imaging products for the research.

Our customers include pharmaceutical and biotechnology companies as well as universities, medical centers, government research institutes and agencies worldwide. More information on Vilber Lourmat can be found at the Company's website www.vilber.de



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