

Restrained Double Chamber and Bias Flow Regulator



Restrained Double Chambers

The Restrained Double Chamber plethysmograph configuration is completely non-invasive. It provides an absolute measurement of ventilatory parameters as well as specific airway resistance and conductance. The instrument consists of a head (nasal) chamber and a body (thoracic) chamber, and may be used either as a double chamber, or a head-out single chamber.

- Measures specific airway resistance and conductance as well as absolute ventilatory parameters
- May be used as a head out chamber to measure ventilatory parameters
- Completely non-invasive method to deliver and measure effects of aerosol

This chamber includes two top-mounted variable resistance pneumotachographs. All sizes of this chamber include ports for aerosol delivery, bias flow lines and calibration. The rat and guinea pig chambers include latex seals that insure a snug fit around the animal's neck.

For advanced pulmonary analysis capabilities, use this plethysmograph with:

- BioSystem XA for Windows software with Non-Invasive Airway Mechanics software analyzer
- TRD5100 Flow Transducer
- Bias Flow Regulator

For a list of the parameters you can measure using the Restrained Double Chamber Plethysmograph, read the description under 'Non Invasive Airway Mechanics' software analyzer.

Bias Flow Regulators

The bias flow box provides a quiet, constant, smoothed flow of fresh air through an animal chambers to minimize CO₂ levels. Since the air flow is smoothed, it does not interfere with measurements based on the animal's respiratory waveform.

Offered in 2 channel or 4 channel models, each channel can service a single plethysmograph. Or, when using a double chamber plethysmograph, connect one channel to the nasal and one channel to the thoracic chambers. The meters on the front panel indicate flow rate, which is adjustable.

Catalog No.	Product
CGS 8125.69	Bias Flow Regulator, 2 Channel
CGS 8126.69	Bias Flow Regulator, 4 Channel

Catalog No.	Product
CGS 8119.69	Restrained Double Chamber for Mouse
CGS 8120.69	Restrained Double Chamber for Rat
CGS 8121.69	Restrained Double Chamber for Guinea Pig
CGS 8122.69	Restrained Head Out Chamber for Mouse
CGS 8123.69	Restrained Head Out Chamber for Rat
CGS 8124.69	Restrained Head Out Chamber for Guinea Pig