

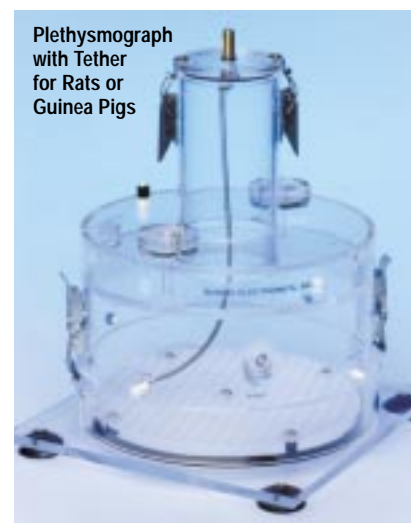
Unrestrained Whole Body Plethysmographs



4 inch diameter for Mice



8 inch diameter for Rats



Plethysmograph with Tether for Rats or Guinea Pigs

- For measuring ventilatory parameters and bronchoconstriction in the freely moving animal
- Pulmonary measurements are completely non-invasive
- Built-in reference chamber cancels atmospheric disturbances
- Symmetrically designed aerosol inlet assures uniform aerosol concentration
- Built-in pneumotachographs
- Ideal for long term measurements
- Minimal preparation time required, increasing productivity
- Animal is in stress-free environment

The Unrestrained Whole Body plethysmographs allow you to perform pulmonary measurements on conscious, freely-moving rodents without invasive surgery and anesthesia. In customary usage, several plethysmographs are monitored simultaneously; multiplying productivity in testing large numbers of animals.

The Unrestrained Whole Body plethysmograph comes in various sizes, all cylindrical in shape. The cylindrical structure of the chamber, the centrally located aerosol port with multiple outlets, the baffled ceiling, all ensure uniform aerosol concentration throughout the animal chamber.

Ports are spaced evenly around the outer wall of the chamber. These ports may be used for a bias flow supply to maintain the O₂ concentration at a suitable level, or they may be used to monitor CO₂ or aerosol concentration within the chamber.

The Unrestrained whole body plethysmograph with tether can be used to monitor both pulmonary AND cardiovascular parameters. The tether holds two fluid lines, that can be used to administer drug, monitor blood pressure, or to extract blood samples.

The measurement of bronchoconstriction in the whole body plethysmograph is a relatively new technology and is well validated*. It is based on the shape of the respiration waveform in the chamber, rather than its amplitude. The measurement of ventilatory parameters in the whole body plethysmograph is based on the association of the animal's air flow to the box flow waveform.

Available Sizes

Catalog No.	Product Description
Unrestrained Whole Body Plethysmograph	
CGS 8008.69	For mice 5 to 40 g, 4 in diameter
CGS 8009.69	For rats or guinea pigs 100 to 400 g, 8 in diameter
CGS 8010.69	For guinea pigs 400 to 800 g, 10 in diameter
CGS 8011.69	For rabbit, 14 in diameter
Unrestrained Whole Body Plethysmograph with Tether	
CGS 8012.69	For rat 100 to 400 g
CGS 8013.69	For guinea pigs 400 to 800 g

Catalog No.	Product
CGS 8014.69	TRD 5100 Flow Transducer