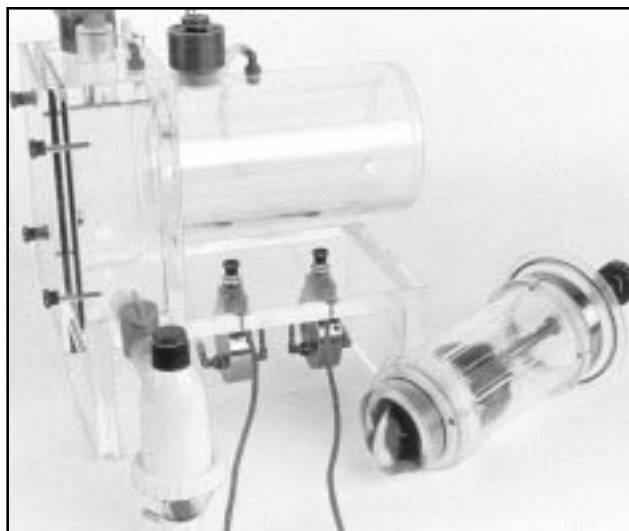
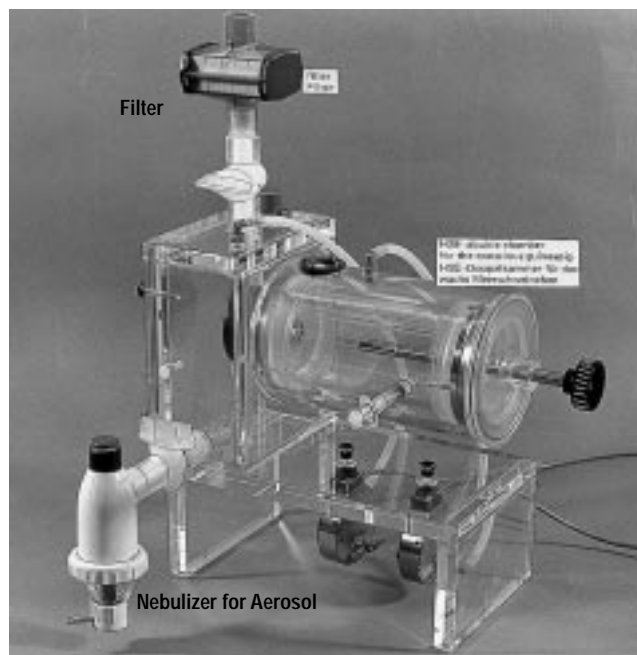


Double-Chamber Plethysmograph for Restrained Rats/Guinea Pigs



This plethysmograph box has been specially developed for the investigation of bronchospasmodically active substances on the conscious animal.

The awake animal is placed into the double chamber and is restricted so that the head protrudes into the front chamber. The neck is sealed with a soft diaphragm. The nasal air flow is measured in the front chamber, the thoracic respiratory flow in the rear chamber. Both measurements are made with measurement screens and differential pressure transducers.

- Specific airway resistance measurement together with the standard parameters tidal volume and respiratory rate, in conscious animals
- Can also be used as head-out plethysmograph with aerosol challenge possibility
- Aerosol challenge
- Applications:
 - Toxicology
 - Environmental studies
 - Long term drug effects

There is a phase difference between the two respiratory flows from which the **specific airway resistance** after PENNOCK is calculated by HSE respiratory software PULMODYN 'PENNOCK'. The standard parameters like respiratory rate, tidal volume, peak inspiratory and expiratory flow, inspiratory and expiratory duration are evaluated from the flow measured in the thoracic chamber

The nasal chamber is connected to the bias flow venturi-jet tube (requires compressed air), and can be equipped with an aerosol nebulizer and oxygen flushing (supply required).

The thoracic chamber can be removed and the animal can easily be placed into position. The chamber is available in two different sizes to suit different size animals. If only the thoracic chamber is used for measurement, the plethysmograph box is a head-out box with the possibility of aerosol application

Catalog No.

CGS 8000.69

CGS 8001.69

CGS 8002.69

CGS 8003.69

Product

Double-Chamber Plethysmograph, Type 855

Animal Restraint for Small Rats, 100 to 250 g

Replacement Rubber Seals

Aerosol Nebulizer