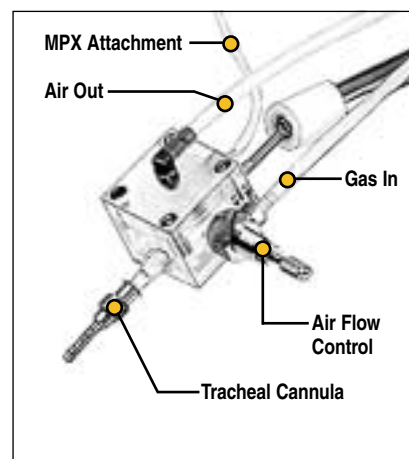
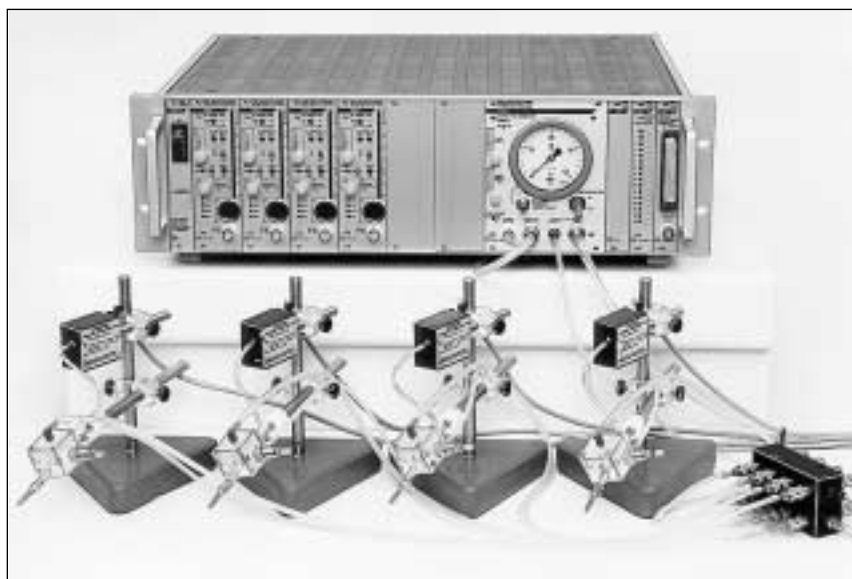


Multiple-Channel Ventilator for Large Rodents



MultiVent for four rodents equipped with pressure MPX transducers for tracheal pressure measurement. The PLUGSYS basic case contains the VSM module and 4 TAM-A modules.

- Ventilate up to eight rodents at the same time
- Adjust tidal volume individually
- Very small dead space volume
- For applications where multiple rodents must be ventilated simultaneously (e.g. multiple blood pressure measurement)
- For Einthoven bronchospasmolysis test on multiple animals

The HSE-HAI multi-animal ventilator is a modular system for ventilation of one to eight large rodents. The respiratory rate is adjustable from 30-100 breaths per minute. It is based on the PLUGSYS system, see Section I for a complete description of the PLUGSYS system. The primary component is the Ventilator Sequencer Module (VSM, page I127) which plugs into a PLUGSYS mainframe case and is used to set the respiratory rate, inspiratory:expiratory (I:E) ratio and the maximum inspiratory pressure (i.e. safety pressure) for all animals. The safety pressure is set by the researcher and is used to prevent over inflation of the animal's lungs. The VSM requires a compressed air supply and, using both electronic and pneumatic controls, directs the air flow to the VSM ventilation head.

One to eight ventilation heads can be connected to the VSM. If more than one ventilation head is used, a connecting block is required. A directional valve within the ventilation head is controlled by the VSM to regulate the inspiratory and expiratory cycle. The VSM ventilation head includes all necessary tubing.

An optional MPX pressure transducer, can be connected to the ventilation head. This pressure transducer attached to a TAM-A transducer amplifier, can be used to record tracheal/airway pressures. This setup is described more thoroughly in the Einthoven Anti-asthmatics system. All components must be purchased separately.

Specifications

Compressed Air Supply:	
Minimum	4 bar (58 lbs)
Maximum	8 bar (116 lbs)
Ventilation Rate	30, 40, 50, 60, 70, 80, 90, 100 breaths/min
Inspiratory Time	10, 20, 30, 40, 50, 60, 70, 80 % of total cycle duration
Control of Ventilation Heads:	
Ventilation Pressure	150 mm Hg
Control Pressure	Adjustable 0 to 50 cmH ₂ O, safety pressure set at 'Max. Insp. Pressure'

Catalog No.

CGS 8011.68	PLUGSYS Basic System Case
CGS 8012.68	PLUGSYS Minicase1
CGS 8013.68	PLUGSYS Minicase 24 V Option1
CGS 8014.68	Ventilator Sequencer Module (VSM)4
CGS 8015.68	Connecting Block for up to 8 Ventilation Heads
CGS 8016.68	Ventilation Head Kit2
CGS 8017.68	Stand with Triangular Plate
CGS 8018.68	Perspex X-Block3
CGS 8019.68	MPX Pressure Transducer4
CGS 8020.68	TAM-A Amplifier Module4
Tracheal Cannulae	
CGS 8021.68	Tracheal Cannula, Metal Luer, 3.3 mm OD
CGS 8022.68	Tracheal Cannula, Metal Luer, 3.0 mm OD
CGS 8023.68	Tracheal Cannula, Metal Luer, 2.5 mm OD
CGS 8024.68	Tracheal Cannula, Metal Luer, 2.2 mm OD
CGS 8025.68	Tracheal Cannula, Metal Luer, 2.0 mm OD
CGS 8026.68	Tracheal Cannula, Metal Luer, 1.8 mm OD
CGS 8027.68	Tracheal Cannula, Metal Luer, 1.5 mm OD