MRI-1 Ventilator

Designed for use in MRI and sensitive electrophysiology recording situations

Product codes:

Reference: MRI-1

Product description:

The MRI-1 ventilator is a small animal ventilator designed for use in **MRI and other high magnetic field environments**. The non-electrical nature of the ventilation valves allows this unit to be particularly well suited to **sensitive electrophysiology recording situations**.

It consists of a microprocessor-based control unit and a set of remote, pneumatically operated, non-metallic valves. It can operate **by itself** or be contolled and/or monitored **by a computer**.

The MRI-1 is a **volume-cycled ventilator only**. It does not measure airway pressure or use pressure to control ventilation. It operates on the **flow-time principle**: an inspiratory airflow is established and gated into the animal for a set time, thus producing a known volume. This solution provides extraordinary **flexibility**: a wide range of volumes, breaths-per-minute, and I/E ratios are possible with no hardware changes, and using just 3 front-panel controls. Respiratory airflow is provided by an internal airpump or an external pressurized gas source (oxygen or anesthetic gas).

Product features:

Weight: 6,3 kg
Dimensions: 23 x 14 x 23 cm
Power supply: 120/240V (switchable), 100VA
Animal: Mice to guinea pig
Respiratory rate range: 5-200 breaths/min
Tidal volume range: 0.1-30 ml
Inspiratory flow range: 60-1000 ml/min
Inspiration / expiration range (% Insp): 20-80%
Internal air pump capacity: 4 lpm

Available models