

Small Animal Ventilator

To assist small animal respiration during anesthesia and surgical procedures

Model: SMV-02

Orchid's Small Animal Ventilator is a precision-designed respiratory support system developed specifically for species such as mice, rats, guinea pigs and other animals weighing between 10 g and 10 kg. It provides reliable and consistent ventilation during anaesthesia, surgical procedures, and research applications. With its compact design, sensitive control system and high-accuracy delivery, it is ideal for biomedical research, clinical medicine, animal medicine and other research experiments. It is a perfect solution for animal maintenance during surgery or to perform more complicated experiments.



Features

- ✓ Ventilation Modes: Offers a range of safe and effective ventilation modes.
 - Intermittent Positive Pressure Ventilation (IPPV)
 - Volume-Controlled Ventilation (VCV)
 - Pressure-Controlled Ventilation (PCV)
 - Auto or manual sigh Ventilation
- ✓ User Interface
 - Real-time monitoring of tidal volume, respiratory rate & pressure
 - 3.5-inch LCD
 - Small, compact design for flexible and convenient operation

Technical Specifications

| Parameter | Specification |
|---|--|
| Respiratory Rate (Breaths per Minute) | 5-200 bpm, adjustable |
| Tidal Volume | 0.1-75 mL, adjustable in 0.1 mL increments |
| Peak Inspiratory Pressure (PIP) | 1-50 cm H ₂ O |
| Positive End Expiratory Pressure (PEEP) | 0-5 cm H ₂ O |
| Inspiratory: Expiratory (I:E) Ratio | 1:1-5:1, adjustable in 0.1 increments |
| Sigh Breathe | Auto (Frequency: Every 20) or Manual |
| Display | 3.5-LCD |

Applications

- Veterinary anaesthesia (routine surgeries)
- Critical care units for respiratory distress
- Research laboratories (rodents to livestock)
- Veterinary teaching and training

Ordering Information:

| Model No | Suitable For | Dimensions | Power Requirements | Accessories Supplied |
|----------|--|------------|--|---|
| SMV 02 | Mice, rats, guinea pigs and other animals weighing 10g ~ 10 kg | 18x24x10cm | 220/230V AC 50 Hz or 110/120V AC 50-60Hz | <ul style="list-style-type: none"> • Silicone Tubing of OD 3mm: 01 • Silicone Tubing of OD 6mm: 01 • Endotracheal tube 20 gauge, flexible Teflon with Luer connector (mouse) – 2 Pc • Endotracheal tube 14 gauge, flexible Teflon with Luer connector (rat) – 2 Pc • PTFE syringe filter – 1 pc • Low dead space 'T' piece – 1 pc • Test balloon with Luer connector- 1 pc |



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