

RWD

VentStar II Small Animal Ventilator

- Breath-by-Breath Precision
- Parameter-Guided Intelligence



Small Animal Combination Solutions of
Ventilator to Anesthesia System



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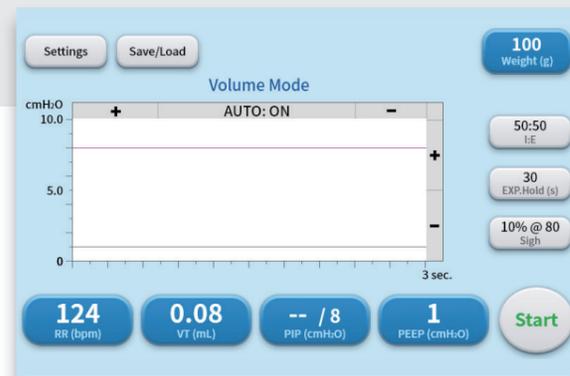
RWD VentStar II Small Animal Ventilator supports 10g-1kg animals for procedures including myocardial ischemia modeling and thoracotomy.

Its cylinder-piston driven IPPV system offers adjustable tidal volume, respiratory rate, and I:E ratio, with combined PIP/PEEP/sigh/inspiratory hold/expiratory hold settings, plus airway pressure monitoring and PIP protection. With endotracheal tube, it provides continuous respiratory support to maintain lung ventilation for surgical and cardiopulmonary pharmacology studies.

Features

Convenient Use

- For laboratory animals weighing 10–500 g, the device intelligently recommends ventilation parameters based on entered body weight.
- It stores up to 10 sets of ventilation parameters for one-touch recall and rapid operation.
- The 7-inch color touchscreen provides clear display and intuitive operation.
- The interface supports Chinese/English one-click switching, with key information highlighted for easy monitoring.
- In both VC and PC modes, the system displays real-time pressure-time curves and peak inspiratory pressure (PIP) to facilitate assessment of animal status.
- PC mode features "VT maintenance" for simplified operation by novice users.



Precise control Stable maintenance

- By adopting low-flow principles and an advanced electromagnetic valve, the device achieves a simple structure with high accuracy.
- The precision cylinder mechanism stably maintains preset parameters to ensure smooth experimental progress.
- Tidal volume range: 0.05–5 ml (0.01 ml increments). Peak inspiratory pressure (PIP) range: 1–50 cmH₂O (1 cmH₂O increments).
- Allows inspiratory/expiratory hold during ventilation; duration: 0-60s, resolution: 1s.

Security Guarantee

- Three alarm methods—audible alerts, text prompts, and error codes—facilitate rapid troubleshooting.
- PEEP is adjustable from 0–10 cmH₂O in 1 cmH₂O increments, enhancing animal-ventilator synchrony.
- The sigh function can be automatically set every 10–999 breaths or manually triggered to prevent lung injury from prolonged mechanical ventilation.
- An integrated filter removes contaminants from the gas supply, ensuring respiratory safety.

Product Parameters

Dimensions	320×210×180mm
Display Screen	7-inch LCD touchscreen
Net Weight	About 5.1 kg
Recommended Weight Range	10-1000g
Species	Mice, rats, guinea pigs, and other small lab animals
Ventilation Mode	Volume-Control /Pressure-Control
Volume Range	0.05-5.00ml
Peak Inspiratory Pressure	1-50cmH ₂ O
PEEP	0-10cmH ₂ O
Respiratory Rate	10-300bpm
I:E Ratio	20%-80%(in some cases 30%-70% or 40%-60%)
Sigh volume	Frequency: Once every 10 to 999 breaths or manually controlled Volume: 0-20% of tidal volume
Safety Alarms	High/low airway pressure, occlusion, high/low PEEP and others



Order Information

Model	Product Description	Remarks
R416	VentStar II Small Animal Ventilator	Includes main unit, power cord & adapter, filter and attached tubing(2 sets), airway tubing, inhalation anesthesia accessory kit, and trachea cannula (2 each: 14G, 16G, 18G, 20G).
RE20-3	Endotracheal Intubation Fiber Optic Lighting Kits for Mouse & Rat	
RE20-R	Rat Endotracheal Intubation Kit	Including 1 box of endotracheal tubes (14G×5, 16G×5), 1 rat endotracheal intubation stand, 2 surgical instruments (1 straight tweezer, 1 bent tweezer), 1 set of wireless fiber optic lighting system, 1 tracheoscope mirror and 1 pack of silk yarn for teeth bar.
RE20-M	Mouse Endotracheal Intubation Kit	Including 1 box of endotracheal tubes (18G×5, 20G×5), 1 mouse endotracheal intubation stand, 2 surgical instruments (1 straight tweezer, 1 bent tweezer), 1 set of wireless fiber optic lighting system, 1 tracheoscope mirror and 1 pack of silk yarn for teeth bar.
RE20-1M	Mouse Endotracheal Intubation Stand	
RE20-1R	Rat Endotracheal Intubation Stand	
RE20-2R	Small Rat Endotracheal Tube	16G, 10pcs/pkg
RE20-2BR	Rat Endotracheal Tube (>300g)	14G, 10pcs/pkg
RE20-2M	Mouse Endotracheal Tube (>35g)	18G, 10pcs/pkg
RE20-2SM	Mouse Endotracheal Tube(≤35g)	20G, 10pcs/pkg