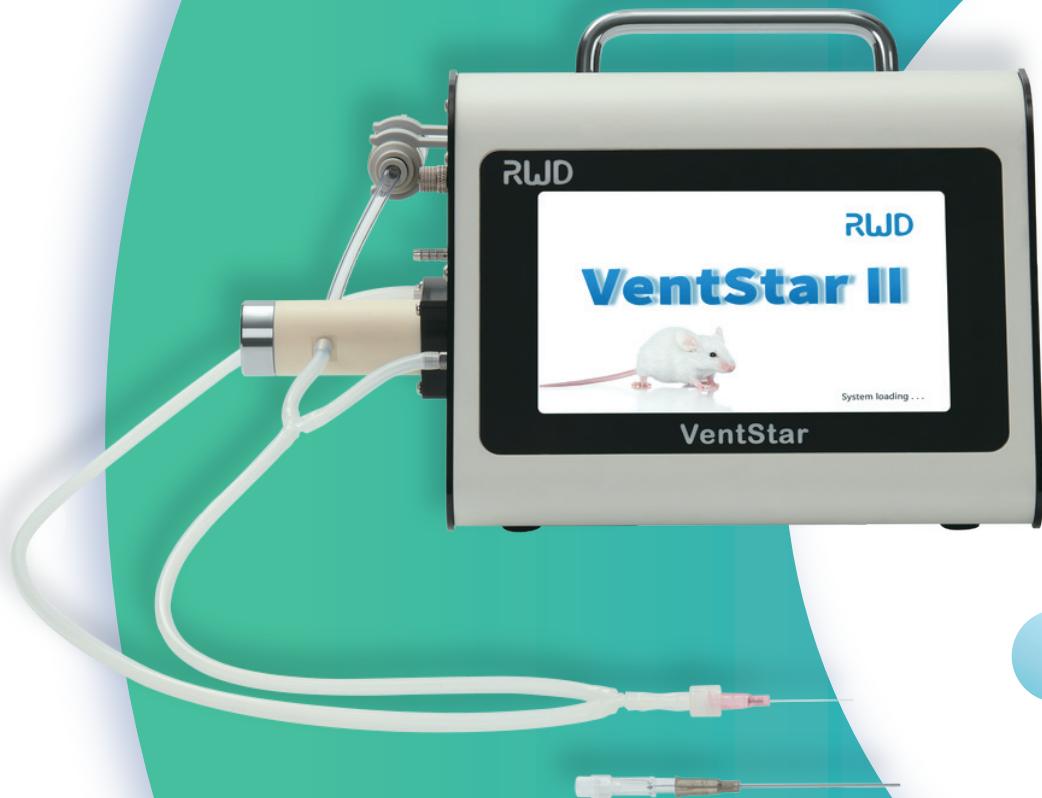




# VentStar II

# Small Animal Ventilator

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



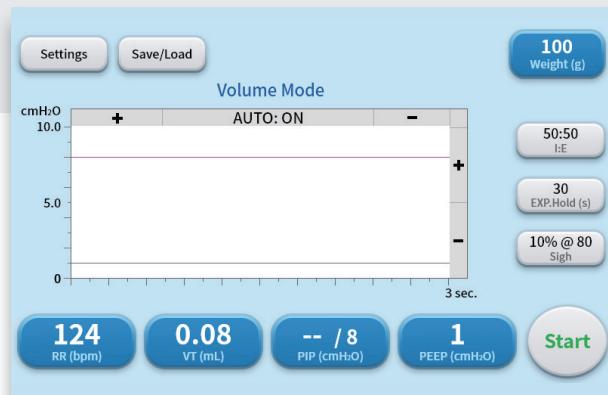
The VentStar II Small Animal Ventilator supports 10g-1kg animals for procedures including myocardial ischemia modeling and thoracotomy.

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 cmH<sub>2</sub>O (1 cmH<sub>2</sub>O 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 cmH<sub>2</sub>O in 1 cmH<sub>2</sub>O 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 <sub>2</sub> O
PEEP	0-10cmH <sub>2</sub> 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
VI-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).
VI-RE20-3	Endotracheal Intubation Fiber Optic Lighting Kits for Mouse & Rat	
VI-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.
VI-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.
VI-RE20-1M	Mouse Endotracheal Intubation Stand	
VI-RE20-1R	Rat Endotracheal Intubation Stand	
VI-RE20-2R	Small Rat Endotracheal Tube	16G, 10pcs/pkg
VI-RE20-2BR	Rat Endotracheal Tube (>300g)	14G, 10pcs/pkg
VI-RE20-2M	Mouse Endotracheal Tube (>35g)	18G, 10pcs/pkg
VI-RE20-2SM	Mouse Endotracheal Tube(≤35g)	20G, 10pcs/pkg



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