

## VETRONIC MERLIN SMALL ANIMAL VENTILATOR - CLEARANCE

VSL-MERLIN-CL-2



### PRODUCT DESCRIPTION

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## One ventilator for all your small animal practice needs, from small rodents to large dogs.

#### Mains lead included

The Vetriconic Merlin veterinary ventilator has been designed with just that in mind. Using the latest technology, Merlin is able to precisely control ventilation parameters to ensure your patient is as safe as can be during mechanical ventilation. Merlin doesn't require a compressed gas supply to operate, so is quiet and smooth. And, because Merlin is controlled by a state-of-the-art microcontroller, you can confidently set the independent ventilation parameters that you want, without compromise.

Merlin is a microprocessor-controlled ventilator, designed by vets for vets. We have done away with the conventional pressurised gas driving mechanism. This new ventilator uses a precisely-controlled piston that can accurately delivery volumes in the range 1ml to 800ml.

Merlin can be pressure cycled, volume cycled or time cycled and the inspiratory and expiratory times are fully and independently variable, without the need to re-adjust after changes in flow rates or volumes. A pressure control allows you to set the maximum allowable pressure during volume cycling, or the target pressure during pressure cycling.

A further added feature is the inspiratory assist control that will tune the ventilator to your patient during recovery and so assist weaning from the ventilator. On the front of the unit is a large, easily-readable display that shows all of your selected parameters. The parameters are continuously updated, reflecting every adjustment made.

In addition, we believe Merlin is truly innovative in being the first veterinary ventilator to calculate and display the compliance of the patient being ventilated.

#### Key features:

- Precise, reliable control over all ventilation parameters
- Fits into rebreathing and non-rebreathing circuits
- Pressure cycled, time cycled or volume cycled IPPV
- Patient disconnect and over-pressure alarms

- 80-character screen and high-definition LEDs give full parameter information:
  - Tidal volume
  - Minute volume
  - Inspiratory and expiratory airway pressure
  - I:E ratio
  - Patient compliance
  - Respiratory rate
  - Inspiratory time
  - Expiratory time
  - Maximum allowed airway pressure
  - Assist effort
- Purpose-designed stainless steel and silicon valves for precise flow control
- Standard 22mm/15mm fittings
- Suitable for anaesthesia or ICU
- Mains powered with fail-safe operation
- Assist mode

### Mechanical

Overall dimensions:	45 x 20 x 34cm
Weight:	17kg
Construction:	Enamelled steel box with feet

### Electrical

Power supply:	230 Volts AC 50Hz mains only, European and US versions available
Supply current:	250mA
Power Consumption:	60 watts
Rear panel fuse rating:	1 amps antisurge
Plug fuse rating:	5 amps

### General

Mode of operation:	Microprocessor-controlled precision piston
Capacity:	1mL to 40mL, in 1mL increments
	40mL to 120mL, in 5mL increments
	120mL to 800mL, in 10mL increments
Flow rates:	0.1 to 3.5L/minute, in 0.1L increments
	3.5 to 25.0L/minute, in 0.5L increments
Inspiratory/expiratory times:	0.5 to 9.0 seconds, in 0.1 second increments
Pressure settings:	1 to 57cm H <sub>2</sub> O pressure, in 1cm H <sub>2</sub> O increments
Inspiratory assist setting:	-1 to -10cm H <sub>2</sub> O pressure, in 1cm H <sub>2</sub> O increments
Valves:	Electrically-operated solenoid valves, stainless steel and silicon construction
LCD module:	Backlit 80-character, four-line display

Alarm mode:	Audible: 2kHz buzzer
Gas connections:	Front fixing 22mm O/D, 15mm I/D, stainless steel ports
Power failure mode:	All valves open. Manual IPPV can be performed

**S/N: V-21-1-23-438**

## ADDITIONAL INFORMATION

<b>Animal</b>	Small Animal
<b>SKU</b>	VSL-MERLIN-cl-2

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