



Technical Specification for Small Animal Ventilator with Homeothermic Blanket

- > The system should be suitable for mice, rats and guinea pigs and other animals weighing 10g-1kg.
- ➤ Input power range should be 100 ~ 240V, 50 /60Hz, 24V, 40W, 1.67A adapter DC power supply, safe and effective;
- > It should provide safe and effective intermittent positive pressure ventilation (IPPV).
- ➤ Both volume and pressure modes should be available.
- > Sound, intelligent text, error code and other fault alarm alerts;
- > The system should have small size, compact layout and flexible operation.
- ➤ It should have 7 inches LCD touch screen with wide-angle visual.
- > It should have the feature to display the pressure-time graph in real time in volume and pressure modes.
- > It should have the ability to store and called 10 groups of different respiratory making it convenient and efficient.
- \triangleright The breathing frequency should be able to be switched between $10 \sim 300$ bpm.
- \triangleright Tidal volume range should be 0.05ml \sim 5ml.
- Airway pressure range should be $1\sim50$ cm H 2O with the accuracy range of ±0.7 cm H 2O; positive end; expiratory pressure (PEEP) range is $0\sim10$ cm H 2O.
- > There should be provision to set the respiratory parameters such as PIP/PEEP/Sigh/INSP.Hold/EXP.Hold
- > After submitting the animal weight and the device should automatically set the reference breathing parameters.
- The adjustable range of I:E ratio should be from 20% to 80%; the sigh should increase the tidal volume from 0 to 20%, and should set auto-sigh once after every 10 to 999 breaths or manual control.

Homeothermic Blanket should have

- > 3-inch color LCD touch screen, beautiful appearance, lightweight, easy to operate
- > Real-time display of measuring temperature, setting temperature, heating state, running state, fault warning and other functions
- Real-time monitoring of heating pad and probe temperature, with circuit control to achieve dual safety protection
- > Double channel display interface, which can keep two animals warm at the same time and operate independently
- Display the working status progress bar of heating pad in real time, and monitor the working status of channel: IDLE, WARNING, STANDBY and WORKINIG
- Fast temperature rise, high temperature control precision, set range of 20-45 \(\text{.}\) resolution of 0.1 \(\text{.}\), and can switch between Celsius and Fahrenheit
- Various alarm information can be set, such as high and low limit temperature $(\pm 1 \Box)$, maximum temperature (50 \Box), probe, heating pad, sound and indicator light can be freely opened and closed, and can choose one-button operation.

- ➤ High sensitivity temperature probe, diameter 1.5mm, rod length 30mm, line length 150cm
- Silica gel heating pad, high temperature resistant, easy to clean, with 3 different sizes and specifications of heating pad, suitable for different experimental platforms;

> Power supply: 100-240 V, 50/60 Hz

> Control unit size: L205 x W148 x H80 mm

> Weight of control unit: 1.3kg