

## SV Series Ventilator

This Quick Guide is intended to describe the basic operations and routine maintenance of ventilator. For more information, please refer to the Operator's Manual.



### Basic Operation

1. Connect the ventilator and humidifier to the AC power supply. Connect the gas supply.
2. Start the humidifier and set the relevant parameters by following the humidifier instructions for use (check if the water level of the humidifier complies with the requirement before starting the humidifier).
3. When the ventilator is turned on, it runs self-test automatically.
4. Connect the breathing tubes, and select to run (recommended) or skip the system check.
5. Once system check is finished, the ventilator starts to work in the set mode. For new patients, you need to set the IBW, Patient Type (adult or pediatric), and Vent Type (invasive or non-invasive).
6. Connect the test lung, and check the status of the test lung. If the test lung is in good condition, you can disconnect the test lung and connect the ventilator to the patient (recommended).
7. Connect the patient and breathing tubes, and start ventilation. Keep the patient under close monitoring for a period and pay attention to the vital signs of the patient and ventilation status of the ventilator.
8. Keep observing the parameters and alarms during ventilation. Reconfigure the ventilation mode or parameters if necessary.
9. After use, turn off the ventilator and humidifier in sequence. Then switch off the gas supply.

### Routine Maintenance

**Perform the following maintenance before each use or after continuous use of two weeks:**

- Perform system check. Check the breathing system resistance and leakage.

**Perform the following maintenance several times a day or as necessary:**

- Check the breathing tubes and water traps for water build-up. Empty water build-up if there is.
- Inspect the parts for damage. Replace as necessary.

**Perform the following maintenance each patient or as necessary:**

- Perform pressure and flow zeroing. Perform system check. Perform flow sensor calibration. Replace with disinfected parts or new disposable parts.

## Routine Maintenance

(Continued)

**Perform the following maintenance daily or as necessary:**

- Clean the external surfaces.
- Calibrate the O<sub>2</sub> sensor.
- When the patient's exhaled gas may contaminate the inspiratory safety valve assembly, it is necessary to replace with disinfected inspiratory safety valve and membrane.
- Replace the expiration valve if it is damaged.
- Calibrate the CO<sub>2</sub> module when the CO<sub>2</sub> measured value has a great deviation.
- Calibrate the touch screen if its function is degraded.

**Perform the following maintenance monthly or as necessary:**

- Check the dust filter for dust build-up. Clean or replace as necessary.

**Perform the following cleaning and disinfection for each patient:**

- Wipe ventilator external surface (including housing, power cord, supply gas hose), trolley, and support arm for cleaning. Wipe or place them under ultraviolet radiation for disinfection.

**Perform the following cleaning and disinfection for each patient or every week:**

- Immerse expiration valve assembly (except membrane), expiration valve membrane and patient tube (including water trap, Y piece, adapter) in detergents for cleaning. Immerse or autoclave them for disinfection.
- For cleaning and disinfection of mainstream CO<sub>2</sub> sensor, SpO<sub>2</sub> sensor, nebulizer and humidifier, refer to the instructions provided by the vendors.

**Perform the following cleaning and disinfection as necessary:**

- Immerse inspiration safety valve assembly in detergents for cleaning. Immerse or autoclave it for disinfection.

**Perform the following cleaning and disinfection every 4 weeks or as necessary:**

- Immerse the fan dust screen and filter in detergents for cleaning and under ultraviolet radiation for disinfection.
- Immerse the HEPA filter and dust filter in detergents for cleaning and under ultraviolet radiation for disinfection.

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