

## TECHNICAL SPECIFICATION

Ventilation mode		Alarm and protection	
PRVC, APRV, DUOLEVEL, V-SIMV, P-SIMV, P-A/C, V-A/C, IPPV, PCV, PSV, SPONT/CPAP, SIGH, MANUAL		AC power failure alarm	Power failure or no connection
		Internal backup battery low voltage alarm	$11.3 \pm 0.3$ V
Ventilator parameter range		No tidal volume	
Tidal volume (Vt)	0, 20 ~ 2000 mL	No tidal volume	within 6 s
Frequency (Freq)	1 min ~ 100 min	High minute volume alarm	5 L/min ~ 99 L/min
Oxygen concentration	21 % ~ 100 %	Low minute volume alarm	1 L/min ~ 30 L/min
I:E	4 : 1 ~ 1 : 8	High airway pressure alarm	20 cmH <sub>2</sub> O ~ 100 cmH <sub>2</sub> O
PEEP	0 cmH <sub>2</sub> O ~ 40 cmH <sub>2</sub> O	Low airway pressure alarm	0 cmH <sub>2</sub> O ~ 20 cmH <sub>2</sub> O
Pressure triggering sensitivity (Ptr)	-20 cmH <sub>2</sub> O ~ 0 cmH <sub>2</sub> O (Based on PEEP)	High oxygen concentration alarm	19 % ~ 100 %
Flow trigger sensitivity (Ftr)	0.5 L/min ~ 30 L/min	Low oxygen concentration alarm	18 % ~ 99 %
Pressure control (PC)	5 cmH <sub>2</sub> O ~ 80 cmH <sub>2</sub> O	Continuous pressure alarm	(PEEP + 1.5 cmH <sub>2</sub> O) over 16s
Pressure support (PS)	0 cmH <sub>2</sub> O ~ 80 cmH <sub>2</sub> O	Suffocation warning	5 ~ 60 s
SIGH	0 (off) 1/100 ~ 5/100	Fan error	Show on screen
Apnea ventilation	OFF, 5 s ~ 60 s	Oxygen deficit	Show on screen
Pressure limit	20 cmH <sub>2</sub> O ~ 100 cmH <sub>2</sub> O	The maximum limited pressure	< 12.5 kPa
Monitoring parameter		Working condition	
Frequency (Freq)	0/min ~ 100/min	Gas source	O <sub>2</sub> , Air
Tidal volume (Vt)	0 mL ~ 2500 mL	Pressure	280 kPa - 600 kPa
MV	0 L/min ~ 99 L/min	Voltage	220 V ± 22 V
Airway pressure	0 cmH <sub>2</sub> O ~ 100 cmH <sub>2</sub> O	Power frequency	50 Hz ± 1 Hz
Dynamic lung compliance monitoring	1 mL/cmH <sub>2</sub> O ~ 1000 mL/cmH <sub>2</sub> O	Input power	900 VA(With air compressor)
Oxygen concentration	15 % ~ 100 %		250 VA(Without air compressor)
Oscillogram		P-T(Pressure-Time) F-T(Flow-Time) V-T(Volume-Time) P-V Loop(Pressure-Volume Loop) F-V Loop(Flow-Volume Loop) P-F Loop(Pressure-Flow Loop)	



SM-VG02



SM-VG05



SM-VG01

**Other models for your reference** The picture is for reference only. For more information, please contact Medical sales representatives.



Commitment & Experience Guarantee Our Performance

# SM-VG03

## ICU VENTILATOR



ADULT · PEDIATRIC · NEONATAL

**Suma**  
**Medical**

# SM-VG03

## ICU VENTILATOR

### Application

The ventilator makes a good performance in operation room, ICU department and emergency treatment. It used to assist or replace the spontaneous breathing for adult pediatric and neonatal patient. 25 years experience in Market-oriented ventilator make us professional and reliable, satisfying all your needs in ventilation. Due to the flexible configuration, good quality and competitive price, S1100 has soon become the superstar of market.



### Friendly interface

15" TFT LCD screen display screen saver mode.  
14 types of alarm and protection function.  
3 of 5 oscilloscopes can be displayed on the screen at the same time.  
2 minutes fast oxygen supply.



### Humidifier

Heat and wet breathing gas, makes it more comfortable for patient to breathe in.

3 types of humidifier for your choices: one with thermometer for standard, one with digital shown for option, another one has have dual pipeline heating function and servo control function for option.



### Air compressor

Automatic detection and switch of central gas, cylinder gas supply or air compressor.

Make low noise, create quiet environment for doctors and patients.

Longer service life and waterproof material.

Digital show for parameters, easier and clearer for users know real-time condition.

### Caster

Easy to move with 4 casters, easy to stop with 2 brakes.



### Breathing circuit

High temperature resistance breathing pipelines is reusable and anti-polution.

### Oxygen concentration sensor



### Features

- 15" TFT touch screen displays the ventilation parameters, alarm information, and oscilloscopes, make every operation more easily.
- Multiple ventilation modes, suitable for ICU, emergency department and operation room etc: (PRVC, APRV, DUOLEVEL, V-SIMV, P-SIMV, V-A/C, V-A/C, IPPV, PCV, PSV, SPONT/CPAP, SIGH, MANUAL).
- 5 oscilloscopes for your choice, 3 of them can be displayed on the screen at the same time.
- Humidifier can heat and wet breathing gas, makes it comfortable for patient to breathe.
- Rapid oxygen supply automatically offer high flow rate oxygen within two minutes.
- Nebulization make medicine into small liquid and particle, easier and quicker for patient to breathe in.
- High temperature resistance breathing circuit is reusable and anti-pollution.

### Safety

14 types of sound and visual alarm information, easier for users to do some error checking and troubleshooting.

Built-in oxygen concentration sensor, ensure stable precision of oxygen concentration.

Easy to move with four casters, easy to stop with two brakes.

Separate design of electronic circuit and gas flow rate keep safe running of ventilator.

Compact long life internal battery can provide emergency power, avoid risk of patient.

Self-check before operation, eliminate system mistake.