

## Technical specification

### Ventilation mode

IPPV, NIV, APRV, PRVC, A/C, PCV, SIMV, SPONT/CPAP, BIPAP, PSV, SIGH, MANUAL

### Ventilator parameter

Tidal volume (Vt)	0 ~ 2000 mL
Frequency (Freq)	1 min ~ 150 min
Oxygen concentration	21 % ~ 100 %
I:E	4 : 1 ~ 1 : 10
PEEP	0cmH <sub>2</sub> O ~ 40 cmH <sub>2</sub> O
Pressure triggering sensitivity (Ptr)	-20 cmH <sub>2</sub> O ~ 20 cmH <sub>2</sub> O (Based on PEEP)
Flow trigger sensitivity (Ftr)	0.5 L/min ~ 30 L/min
Pressure control (PC)	5 cmH <sub>2</sub> O ~ 80 cmH <sub>2</sub> O
Pressure support (PS)	0 cmH <sub>2</sub> O ~ 80 cmH <sub>2</sub> O
SIGH	0 (off) 1/100 ~ 5/100
Apnea ventilation	OFF, 5 s ~ 60 s
Pressure limit	20 cmH <sub>2</sub> O ~ 100 cmH <sub>2</sub> O

### Monitoring parameter

Frequency (Freq)	0 / min ~ 100 / min
Tidal volume(Vt)	0 mL ~ 2500 mL
MV	0 L/min ~ 99 L/min
Airway pressure	0 cmH <sub>2</sub> O ~ 100 cmH <sub>2</sub> O
Dynamic lung compliance testing	1 mL/cmH <sub>2</sub> O ~ 1000 mL /cmH <sub>2</sub> O
ETCO <sub>2</sub> concentration	0 mm Hg ~ 152 mmHg (0 % ~ 20 %)
Oxygen concentration	15 % ~ 100 %

### Packing size

Main engine: L 560 \* W 560 \* H 605 mm  
 G.W. : 40 KG, N.W. : 22 KG  
 Air compressor: L 683\* W 687 \* H 1140 mm  
 G.W. : 105 KG, N.W. : 70 KG

Other models for your reference:



### Alarm and protection

AC power failure alarm	Power failure or no connection
Internal backup battery low voltage alarm	≤ 11.3 ± 0.3 V
No tidal volume	No tidal volume within 6 s
High minute volume alarm	5 L/min ~ 99 L/min
Low minute volume alarm	1 L/min ~ 30 L/min
High airway pressure alarm	20 cmH <sub>2</sub> O ~ 100 cmH <sub>2</sub> O
Low airway pressure alarm	0 cmH <sub>2</sub> O ~ 20 cmH <sub>2</sub> O
High oxygen concentration alarm	19 % ~ 100 %
Low oxygen concentration alarm	18 % ~ 99 %
Continuous pressure alarm	(PEEP + 1.5 cmH <sub>2</sub> O) over 16 s
Suffocation warning	5 ~ 60 s
Fan error	Show on screen
Oxygen deficit	Show on screen
The maximum limited pressure	< 12.5 kPa

### Working condition

Gas source	O <sub>2</sub> , Air
Pressure	280 kPa - 600 kPa
Voltage	220 V ± 22 V
Power frequency	50 Hz ± 1 Hz
Input power	900 VA (With air compressor) 250 VA (Without air compressor)

### Oscillogram

P-T(Pressure-Time)
F-T(Flow-Time)
V-T(Volume-Time)
ETCO <sub>2</sub> -T (End-Tidal CO <sub>2</sub> -Time)
P-V Loop(Pressure-Volume Loop)
F-V Loop(Flow-Volume Loop)
P-F Loop(Pressure-Flow Loop)

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**SUPERSTAR**  
 NANJING SUPERSTAR MEDICAL EQUIPMENT Co., Ltd.

# S1100

## ICU Ventilator

ADULT · PEDIATRIC

*Friendly Powerful Reliable*



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# S1100 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 more than 2kg. 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, This machine has soon become the superstar of market.

## Features

- 15" TFT touch screen displays the ventilation parameters, alarm information, and oscillograms, make every operation more easily.
- Multiple ventilation modes, suitable for ICU, emergency department and operation room etc: ( IPPV, A/C, PCV, SIMV, PSV, SPONT/CPAP, SIGH, MANUAL)
- 5 oscillograms for your choice, 3 of them can be displayed on the screen at the same time.
- ETCO<sub>2</sub> is standard configuration for this machine.
- 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.

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