



# ESV-SPIRIT 1100

## ICU Ventilator



INTENSIVE CARES



## Features

- 12.1" TFT screen displays the ventilation parameters, alarm information, and oscillograms, make every operation more easily.
- Multiple ventilation mode can meet different clinical requirements.( IPPV, A/C, PCV, SIMV, PSV, SPONT/CPAP,SIGH,MANUAL)
- 3 oscillograms for your choice, 2 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
- 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.

## Technical parameters

### Ventilation mode

IPPV, A/C, PCV, SIMV, SPONT/CPAP, PSV, SIGH, MANU

### Ventilator parameter

Tidal volume (Vt): 0 ~ 2000 mL

Frequency (Freq): 1 min ~ 100 min

Oxygen concentration: 21 % ~ 100 %

I:E: 4 : 1 ~ 1 : 8

PEEP: 0 cmH<sub>2</sub>O ~ 40 cmH<sub>2</sub>O

Pressure limit: 20 cmH<sub>2</sub>O ~ 100 cmH<sub>2</sub>O

Pressure triggering sensitivity ( Ptr ): -20 cmH<sub>2</sub>O ~ 0 cmH<sub>2</sub>O (Based on PEEP)

Flow triggering sensitivity ( Ftr ): 0.5 cmH<sub>2</sub>O ~ 30 cmH<sub>2</sub>O

SIGH: 0 (off) 1/100 ~ 5/100

Apnea ventilation: OFF, 5 s ~ 60 s

### Oscillogram

P-T (Pressure-Time)

F-T (Flow-Time)

P-V Loop(Pressure-Volume Loop)

### 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 monitoring: 1 mL/cmH<sub>2</sub>O ~ 1000 mL/cmH<sub>2</sub>O

Oxygen concentration: 15 % ~ 100 %

### Alarm and protection

The AC power failure alarm: Power failure or no connection

Internal backup battery low voltage alarm:  $\leq 11.3 \pm 0.3$  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/minHigh 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 16s

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)

### 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 114

### Optional accessories

- Compressor

- EtCO<sub>2</sub>

- DUOLEVEL, PRCV: No available option



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