



ESV-SPIRIT 1600

ICU Ventilator



INTENSIVE CARES



Features

- 10.4" 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, SIMV, SPONT/CPAP, SIGH, MANUAL)
- Multiple parameters monitoring interface, make every parameter clear for users to know patient condition in all respects.
- Pressure-Time, Flow-Time oscillograms and high precision oxygen concentration detection function included.
- 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.
- 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, SIMV, SPONT/CPAP, MANU

Ventilator parameter

Tidal volume (Vt): 0, 20 mL ~ 1500 mL

Frequency (Freq): 1 min ~ 100 min

I:E: 4 : 1 ~ 1 : 8

Oxygen concentration: 45 % ~ 100 %

PEEP: 0 cmH2O ~ 20 cmH2O

Pressure triggering sensitivity (Ptr): -20 cmH2O ~ 0 cmH2O (Based on PEEP)

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

Apnea ventilation: OFF, 5 s ~ 60 s

Monitoring parameter

Frequency (Freq): 0/min ~ 100/min

Tidal volume (Vt): 0 mL ~ 2000 mL

MV: 0 L/min ~ 99 L/min

Airway pressure: 0 cmH2O ~ 100 cmH2O

Oxygen concentration: 15 % ~ 100 %

Alarm and protection

The AC power failure alarm: Power failure or no connection:

Internal backup battery low voltage alarm: $< 11.3 \pm 0.3V$

No tidal volume: No tidal volume within 6 s

High oxygen concentration alarm: 19 % ~ 100 %

Low oxygen concentration alarm: 18 % ~ 99 %

High airway pressure alarm: 0 cmH2O ~ 20 cmH2O

Low airway pressure alarm: 20 cmH2O ~ 100 cmH2O

High minute volume alarm: 1 L/min ~ 99 L/min

Low minute volume alarm: 0 L/min ~ 20 L/min

Continuous pressure alarm: (PEEP + 1.5 kPa) over 16 s

Suffocation warning: 5 s ~ 60 s no spontaneous ventilation

Oscillogram

P - T (Pressure - Time)

F - T (Flow - Time)

Packing size

Main components:

L 560 * W 560 * H 615 mm

G.W. : 40 KG, N.W. : 17 KG

Trolley:

L 650 * W 690 * H 520 mm

G.W. : 43 KG, N.W. : 18 KG



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