



ESV-SPIRIT 1100A

ICU Ventilator



INTENSIVE CARES



Technical parameters

Ventilation mode

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

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 cmH₂O ~ 40 cmH₂O

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

Flow trigger sensitivity (Ftr): 0.5 L/min ~ 30 L/min

Pressure control (PC): 5 cmH₂O ~ 80 cmH₂O

Pressure support (PS): 0 cmH₂O ~ 80 cmH₂O

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

Apnea ventilation: OFF, 5 s ~ 60 s

Pressure limit: 20 cmH₂O ~ 100 cmH₂O

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 cmH₂O ~ 100 cmH₂O

Dynamic lung compliance testing: 1 mL/cmH₂O ~ 1000 mL/cmH₂O

ETCO₂ concentration: 0 mm Hg ~ 152 mmHg (0 % ~ 20 %)

Oxygen concentration: 15 % ~ 100 %

Alarm and protection

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/min

High airway pressure alarm: 20 cmH₂O ~ 100 cmH₂O

Low airway pressure alarm: 0 cmH₂O ~ 20 cmH₂O

High oxygen concentration alarm: 19 % ~ 100 %

Low oxygen concentration alarm: 18 % ~ 99 %

Continuous pressure alarm: (PEEP + 1.5 cmH₂O) 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

Oscillogram

P-T(Pressure-Time)

F-T(Flow-Time)

V-T(Volume-Time)

ETCO₂ -T (End-Tidal CO₂-Time)

P-V Loop(Pressure-Volume Loop)

F-V Loop(Flow-Volume Loop)

P-F Loop(Pressure-Flow Loop)

Working condition

Gas source: O₂, Air

Pressure: 280 kPa - 600 kPa

Voltage: 220 V $\pm$ 22 V

Power frequency: 50 Hz $\pm$ 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 1140 mm

Optional accessories

- Compressor
- EtCO₂
- APRV
- PERVC
- BIPAP (Duolevel)
- NIV



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