

# INSPIRATION<sup>®</sup> LS Ventilator

A Clinician Focused Product



## FEATURES

- High performance / Pso<sub>2</sub> and active exhalation
- Neonate through adult
- Invasive and noninvasive
- Feedback-controlled NCPAP and NCPAP+
- Extensive transport capabilities
- Heliox



## SPECIFICATIONS

### Modes of Ventilation

- Assisted Control Mandatory Ventilation (CMV)
- Synchronized Intermittent Mandatory Ventilation (SIMV)
- Dual Mode Ventilation (Pressure Regulated Volume Control) (PRVC-CMV; PRVC-SIMV)
- Spontaneous ventilation (SPONT) (CPAP + PS)
- Spontaneous Positive Airway Pressure (SPAP)
- Nasal Continuous Positive Airway Pressure (NCPAP)
- Nasal Continuous Positive Airway Pressure Plus (NCPAP+) (NCPAP with rate and base flow control)
- Auto Mode

### Breath Types

- Volume Support (VS)
- Volume-controlled breaths: (V-CMV; V-SIMV)
- Pressure-controlled breaths: (P-CMV; P-SIMV; PS)

### Breath Triggering

- Pressure triggering: 0.5 - 20 cm H2O
- Flow triggering: 0.1 - 25 lpm
- NIV

### Additional Settings

- Respiratory rate: 1 - 150 bpm
- Tidal volume: 5 - 2000 ml (compliance & BTPS compensated)
- PEEP / CPAP: 0 - 50 cm H2O
- Pcontrol, Psupport: 0 - 80 cm H2O
- Peak flow (mandatory): 1 - 120 lpm
- Peak flow (spontaneous): 1 - 180 lpm
- I-Times: 0.1 - 10 sec
- Plateau (insp pause): 0 - 42 sec or
- Plateau (insp pause): 0 - 70% (user selectable)
- Oxygen concentration: 21 - 100%
- Rise time settings: Fast, Med, or Slow
- Exhalation sensitivity %: 10 - 80% (of spontaneous peak flow)

### User Configurable Functions

- Apnea Back-up
  - User-selected breath type, mode and settings
- Smart Nebulizer™
  - User-selected interval and duration
  - Oxygen concentration and volume compensated
- Smart Sigh™
  - User-defined volume- or pressure-controlled sighs
  - User-defined frequency and multiples of sighs
  - User-defined amplitude of sigh (+ 0 - 50% of tidal volume or pressure setting)
- Heliox 0 - 80%

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This product carries the CE mark and is cleared by the FDA. Specifications subject to change.

[www.event-medical.com](http://www.event-medical.com)

### User Initiated Functions

- Manual inspiration
- Inspiratory and expiratory breath holds
- 100% Oxygen and auto calibration

### Monitored / Displayed Data

- Delivered Oxygen Concentrations: 21 - 100%
- Pressure Values
  - Ppeak
  - PEEP
  - Pmean
  - Pplateau
- Volume / Flow Values
  - Vte
  - Exp Min Vol
  - Spont Min Vol
  - Leak rate
- Time Values
  - Respiratory rate
  - Tinsp
  - Ti / Ttot
  - RR / Vt (RSBI)
  - Spont% 1h, Spont% 8h
- Real Time Curves (waveforms)
  - Pressure + time
  - Flow + time
  - Volume + time
  - Pressure Volume loop
  - Flow Volume loop
- Respiratory Mechanics
  - Cstat and Rinsp
  - Rexp (outside USA)
- Measured Volumes to
  - Vte ≤ 2 ml
  - Vti ≤ 2 ml

### Prioritized Alarms (High, Medium and Low)

- Auto set alarm feature
- Alarm log

### Communication Interfaces

- Nurses call
- RS232
- Ethernet

### Optional Remote Patient and Device Viewing

- MiniWeb™ server
- Trending
- Real time graphics display
- Real time alarm information and display

### Physical Data

- AC power: 100 - 240 VAC (50/60Hz)
- Internal compressor (optional)
- Internal and optional external battery
- Battery backup on compressor ≤ 120 min
- Battery backup off compressor ≥ 120 min
- Gas supply pressure 2 - 6 Bar
- Screen: LCD 12.1" / Touch Screen

### Warranty

- 3-year warranty
- See service manual for full information

