

The Inspiration LS™ . . .

Leading the Way in Mechanical Ventilation!



Vent Medical Ltd.

Changing the World of Ventilator Care.

Inspiration™ Ventilator Specifications

Modes of Ventilation

- Control Mandatory Ventilation (CMV)
- Synchronized Intermittent Mandatory Ventilation (SIMV)
- Spontaneous ventilation (SPONT)
- Smart Positive Airway Pressure (SPAP) [pending 510(k)]
- Volume Targeted Ventilation (VTV) [pending 510(k)]
- Auto Mode [pending 510(k)]

Breath Types

- Volume Support (VS)
- Volume-based breaths (V-CMV; V-SIMV)
- Pressure-based breaths (P-CMV; P-SIMV, PSV)
- Pressure-regulated volume control (PRVC)

Breath Triggering

- Pressure triggering from 1-20 cm H₂O
- Flow triggering from 0.5-25 lpm

Additional Settings

- Respiratory rate between 1-150 bpm
- Tidal volume between 10-2000 ml (compliance compensated)
- PEEP/CPAP between 0-50 cm H₂O
- P_{control}/P_{support} between 0-80 cm H₂O
- Peak flow 3-120 lpm (mandatory); 180 lpm (spontaneous) breaths
- I-Times of 0.1-5.0 sec
- Plateau (inspiratory pause) 10-70%
- Oxygen concentration 21-100%
- Rise time settings: Fast, Medium, or Slow
- Exhalation sensitivity % (10-80% of spontaneous peak flow)

User Configurable Functions

Apnea Back-up

- User-selected back-up breath type/mode
- User-defined respiratory rate, trigger type, breath timing, oxygen concentration and PEEP settings
- Apnea interval setting from 10-60 seconds

Smart Nebulizer™

- User-defined duration 1 minute to continuous
- User-defined frequency up to 480 minutes
- Oxygen concentration and volume compensated

Smart Sigh™

- User-defined volume or pressure based sighs
- User-defined frequency and multiples of sighs
- User-defined amplitude of sigh (+0-50% of tidal volume or pressure setting)

User Initiated Functions

- Manual inspiration
- Inspiratory and expiratory breath holds

Monitored / Displayed Data

Delivered Oxygen Concentrations (21-100%)

Pressure Values

- P_{peak}
- PEEP
- P_{mean}
- P_{plateau}

Volume / Flow Values

- V_{te}
- Exp MinVol
- Leak rate

Time Values

- Respiratory rate
- T_{insp}
- Ti/T_{tot}
- RR/T_v

Respiratory Mechanics

- R_{insp}
- C_{stat}

Real Time Curves

- Pressure / time
- Flow / time
- Volume / time
- PV and FV loops

Extensive Prioritized Alarms (High, Medium and Low)

- Auto set alarm feature
- Alarm log

Communication Interfaces

- Nurses call
- RS232
- Ethernet

Optional Remote Patient and Device Monitoring

- Mini web server
- Trending

Physical Data

- AC power: 90-260 VAC (50/60Hz)
- Internal or external battery
- Battery-powered internal compressor
- Gas supply pressure 2-6 Bar



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