

## SIEMENS® 900C



- Adult/Infant Ventilator
  - Advanced electronic ventilator capable of treating the neonate as well as the adult patient.
  - The patient can be treated according to eight different ventilation modes.
  - It can be used in intensive care, anesthesia and transportation.
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### Specifications

#### General

**Dimensions:** 50 cm W x 23 cm D x 32 cm H. Weight: approximately 19 kg (42 lbs).

#### Ventilation Controls, Control Ranges

**Working pressure:** up to 120 cm H<sub>2</sub>O. Modes: volume controlled, volume control with sigh, pressure controlled, pressure support, synchronized intermittent mandatory ventilation (SIMV), SIMV + pressure support, continuous positive airway pressure, manual ventilation. Present inspiratory minute volume: 0.5 – 40 l/min, with sufficient working pressure. Flow pattern: constant, accelerating or decelerating. Respiratory rate: 5-120 breaths/min. Inspiratory time: 20-80% of respiratory cycle. Pause time: 0- 30% of respiratory cycle. PEEP: 0-50 cm H<sub>2</sub>O. Upper pressure limit: 15-120 cm H<sub>2</sub>O. Trig sensitivity: -20 – 0 cm H<sub>2</sub>O (below PEEP). SIMV-rate: high rate (4 -40 SIMV breaths/min), low rate (0.4-4 SIMV breaths/min). Sigh: doubled tidal volume possible every 100 breaths. Compressed volume: 0.075 l (internal).

#### Special functions

Inspiratory pause hold, expiratory pause hold, gas exchange.

#### Monitoring

**Analog Presentation:** Airway pressure: range –20 – 120 cm H<sub>2</sub>O. Expired minute volume: adults range 0-40 l/min, infants range 0-4 l/min . Digital presentations: respiratory rate: range 5-120 breaths/min. O<sub>2</sub> concentration: in % by volume, range 20-100%.

Inspired tidal volume: range 0-1999 ml. Expired tidal volume: range 0-1999 ml. Expired minute volume: adults range 0-40 l/min, infants range 0-4 l/min. Peak pressure: range 0-120 cm H<sub>2</sub>O. Pause pressure: range 0-120 cm H<sub>2</sub>O. Mean airway pressure: range 0-120 cm H<sub>2</sub>O.

### **Alarms and Indicators**

**Push button:** audible signals, muted for 2 min maximum. Alarms: gas supply alarm, apnea alarm, expired minute volume, O<sub>2</sub> concentration, upper pressure limit, power failure. Indicators: set minute volume alarm, set O<sub>2</sub> alarm, pressure support, CPAP, MAN, SIMV high/low rate, expired minute volume infants, patient trig.

### **Gas and Power Supply**

**Must fulfill specifications for medical gases. Gas consumption:** approximately equal to preset inspiratory minute volume or equal to flow meter setting. Gas supply via high-pressure inlet: from central gas supply, compressor or gas cylinder. Electronic gas supply unit, inlet pressure: 2.5 – 5 bar (250-500 kPa; 35-70 psi). Other gas supply unit, inlet pressure: 2.5-7 bar (250-700 kPa; 35-100 psi). Gas supply via low-pressure inlet: via flowmeters. Power supply: (100), 110, 120, 220, 240 V  $\pm 10\%$ , 50 or 60 Hz. Power consumption: approximately 40 W.