

Ventilator

SIEMENS MAQUET SERVO-I

ABOUT

The **Maquet Servo I** ventilation system can be used on a variety of patients from neonatal, pediatrics, and adults. It has the ability to handle the most acute phases of respiratory distress, through recovery, and to the waning phases of the ventilation process. The Servo-i continuously delivers outstanding ventilator treatment as gently as possible. This is in part due to the performance, monitoring capabilities, treatment options, and tools that this ventilator offers. Since this ventilator can be used on a wide variety of patients, it is suitable for most environments from the ICU to the NICU department. The Maquet Servo-i ventilator allows you to choose the treatment option based on your patients' needs without having to worry about the ventilator's capabilities.

FEATURES

Adaptive Support Ventilation (ASV): Automatically adjusts ventilation parameters based on the patient's needs

Ventilation Modes: Offers extensive ventilation modes, including invasive and non-invasive options

Intuitive User Interface: Features a touchscreen display with easy-to-navigate menus

Monitoring Capabilities: Provides comprehensive monitoring of respiratory parameters and waveforms,



SPECIFICATIONS

DIMENSIONS

Height: 51.8 In (131.5 cm)

Width: 22 In (56 cm)

Depth: 25.2 In (64 cm)

Weight: 44.1 lbs (20 kg)

GENERAL

Method of triggering: Flow, pressure, and Edi (optional)

Max. operating pressure: Approximately 115 cmH₂O

Bias flow: 2 l/min

INSPIRATORY CHANNEL

Pressure drop: Max. 6 cmH₂O at a flow of 1 l/s

Internal compressible factor: Max. 0.1 ml/cmH₂O

Gas delivery system: Microprocessor-controlled valve

Inspiratory flow range:

- Adult: 0 to 3.3 l/s
- Infant: 0 to 0.55 l/s

EXPIRATORY CHANNEL

Pressure drop: Max. 3 cmH₂O at a flow of 1 l/s

Internal compressible factor: Max. 0.1 ml/cmH₂O

PEEP regulation: Microprocessor-controlled valve

Rise Time, Expiratory Flow Measurement: <12 ms for 10 – 90 % response at the flow of 0.05 – 3.2 l/s

Expiratory flow range: 0 to 3.2 l/s

SCREEN

Type: TFT-LCD module

Size: 31 cm (12.1") diagonal

Viewing area: 246.0 x 184.5 mm

OPERATING CONDITIONS

Operating temperature: +10 to +40°C

Relative humidity: 15 to 95% non-condensing

Atmospheric pressure: 660 to 1060 hPa

The lowest pressure in breathing system: –400 cmH₂O

POWER SUPPLY

Power supply, automatic range selection:

- 100 – 120 V AC ±10%
- 50 – 60 Hz
- 220 – 240 V AC ±10%
- 50 – 60 Hz

Plug-in battery module:

- **Battery backup:** Two battery modules are delivered with the ventilator.
- 50 – 60 Hz
- 220 – 240 V AC ±10%
- 50 – 60 Hz

Battery capacity: Rechargeable, 12 V, 3.5 Ah each

Recharge time: Approximately 3 h/battery

Battery backup time: At least 3 h, when using six batteries.

External 12 V DC: 12.0 V – 15.0 V DC, 10 A

Max power consumption:

- At 100 – 120 V: 2 A, 190 VA, 140 W
- At 220 – 240 V: 1 A, 190 VA, 140 W

INVASIVE VENTILATION

Inspiratory tidal volume:

- Adult 100–4000 ml
- Infant 2–350 ml

Inspiratory flow =200 l/min

PEEP 0–50 cmH₂O

Pressure above PEEP:

- Adult 0– (120-PEEP) cmH₂O
- Infant 0 –(80-PEEP) cmH₂ O

NON-INVASIVE VENTILATION

PEEP 2–20 cmH₂O

Pressure above PEEP 0– (62-PEEP) cmH₂ O

Adult Leakage compensation

- Inspiratory, up to 200 l/min
- Expiratory, up to 65 l/min

Infant Leakage compensation

- Inspiratory, up to 33 l/min
- Expiratory, up to 25 l/min
- Nasal CPAP, up to 20 l/min

CONNECTIVITY

External device interfaces 2xRS232, remote alarm, MCare remote service

IHE technical framework MSync HL7 converter