



The **Maquet Servo I** ventilation system can be used on a variety of patients from neonatal, pediatric, to 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 to 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.

Servo-i supports both invasive and non-invasive ventilation. It combines the highest level of clinical performance with outstanding mobility and cost-efficiency. Ease of training, operation, and maintenance, as well as flexibility and modularity, ensures a low life-cycle cost. The economic benefits in operating this modular platform are considerable: there is no need to scrap and reinvest for different patient categories and situations.

Features

- Enables treatment of all patient categories.
- Transportation with no loss of treatment quality within and between hospitals.
- Allows for investigation of different treatment options like Open Lung Tool and Automode.
- Invasive ventilation.
- Non-invasive ventilation with leakage compensation.
- CO₂ Analyzer for end tidal carbon dioxide measurement that may give important insight into the efficiency of the ventilation.
- Y sensor measurement, for neonatal/pediatric and adult patients. Enables measurement of pressure and flow as close to the patient's airway as possible.
- Nasal CPAP.
- Heliox - gives a more laminar flow that reduces work of breathing.
- Stress Index - will monitor hyperinflation or repeated alveolar collapse, thus allowing the identification of injurious ventilation (VILI).⁷
- Ventilation Record Card - Facilitates research work and presentations.
- Maquet ventilator accessories and consumables that are fully tested and designed to work optimally with Servo ventilators.



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)

Max Operating Pressure

Approximately 115 cmH₂O

Method of Triggering

Flow, pressure and Edi (optional)

Bias Flow

Adult: 2 l/min

Infant: 0.5 l/min

Gas Supply

Inlet Gas Pressure Air/O₂: 200 – 650 kPa / 2.0 – 6.5 bar / 29 – 94 PSI

Connection standards available: AGA, DISS, NIST, or French standard.

Unavailable Gas / Loss of Gas Pressure: The flow from an unavailable gas (air or O₂) is automatically compensated for so that the patient gets the preset volume and pressure.

Patient System Gas Connectors

Conical fittings: Male 22 mm / female 15 mm. In accordance with ISO 5356-1.

Gas exhaust port: Male 30 mm cone

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 flow of 0.05 – 3.2 l/s

Expiratory flow range: 0 to 3.2 l/s