Datex-Ohmeda Modulus SE
Anesthesia System

Available with the 7900 Ventilator

The Modulus SE anesthesia machine supplies set flows of medical gases to the breathing system. A large selection of gases, vaporizers, ventilators and monitors gives you control of your system’s configuration.

Gases and vaporizers
- Comes with O₂ (two connections), N₂O and air, plus one more cylinder connection for N₂O or Heliox.
- Holds three vaporizers.
- Low leak rates, accurate flowmeters and a minimum proportion of O₂ to N₂O permit closed circuit and low-flow anesthesia.

Ventilators and monitors
- Available with the 7900 ventilator, a microprocessor controlled ventilator with internal monitors, electronic PEEP, two modes of ventilation and a pressure waveform display.
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- The Modulus SE also accepts the Ohmeda Respiratory Gas Monitor or the Ohmeda Rascal II.

Patient Safety
Safety devices decrease the risk of:
- Hypoxic mixtures: The Link 25 System keeps the O₂ concentration higher than 25% (approximate value) at the common gas outlet for O₂ and N₂O mixtures. N₂O and air or heliox flows stop if the O₂ supply decreases to less than 20 psig (138 kPa).
- Agent mixtures: With correctly installed vaporizers, you cannot turn on more than one vaporizer at a time. The vaporizer manifold prevents gas flow through all vaporizers that are OFF.
- Complete power or sudden gas supply failures: Batteries continue 7800 and 7900 ventilator operation during a power failure. Ohmeda ventilators have power failure alarms, and alarms for low gas supply pressure. The Modulus SE has an alarm for O₂ supply pressures less than 30 psig (207 kPa; approximate value).
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VENTILATOR OPTION 1: 7800
Systems with the 7800 Ventilator use:
- The ventilator to monitor inspiratory O₂, expiratory volume, and airway pressure.
- The system switch to start gas flow and to turn ON the ventilator.
- A pneumatic alarm for low O₂ supply pressure.
- A battery in the ventilator to continue ventilator operation during a power failure.
- An outlet box to supply electrical power to system components. A transformer in the box supplies power for the light.

VENTILATOR OPTION 2: 7900
Systems with the 7900 Ventilator use:
- The ventilator to monitor inspiratory O₂, expiratory and inspiratory volumes, and airway pressure.
- The system switch to start gas flow and to turn ON the ventilator.
- An electronic alarm on the ventilator for low O₂ supply pressure.
- A battery in the ventilator to continue ventilator operation during a power failure.
- Software that adjusts for changes in fresh gas flow, breathing circuit compliance, and leaks.
- An outlet box to supply electrical power to system components. A transformer in the box supplies power to the light.

The 7900 Ventilator has two modes of mechanical ventilation. Each mode adjusts the output as necessary to supply the set breath:
- The pressure mode supplies constant pressure during inspiration.
- The volume mode supplies constant flow during inspiration.

Patient Data:
- Inspired O₂ concentration.
- Exhaled tidal and minute volumes.
- Respiratory rate.
- Peak, mean, and plateau airway pressures.
- Airway pressure waveforms.

Alarms:
- High and low O₂ concentration.
- High, low, sustained, and subatmospheric airway pressures.
- Volume apnea.
- High and low minute volume (exhaled).
- High and low tidal volume (exhaled)
- Reverse flow.
- The set breath was not supplied.
- Empty bellows.
- Incorrect control settings.
- Incorrect flow sensor connections.

SPECIFICATIONS

Weight
- Modulus SE: 139.3 kg (309.5 lbs.)

Dimensions
- Height: 170 cm (66.9")
- Depth: 79.4 cm (31")
- Width: 79.4 cm (31")

Shelves
- Middle Shelf
  - Weight Limit: 34 kg (75 lbs.)
  - Usable Height: 35.3 cm (13.9")
  - Dimensions: 43 x 40.6 cm (16.9" x 16")
- Top Shelf
  - Weight Limit: 45 kg (100 lbs.)
  - Dimensions: 80.6 x 37.0 cm (31.7" x 14.6")
- Table-top
  - Height (above floor): 85.1 cm (33.5")
  - Dimensions: 77 x 29.8 cm (30.3" x 11.7")

Drawers and Shelf
- Drawer: 47.6 x 34.3 x 14 cm (18.8" x 13.5" x 5.5")
- Fixed Shelf: 47.6 x 36.8 cm (18.8" x 14.5")
- Slide Shelf: 46.5 x 36.8 cm (18.3" x 14.5")

Absorber and Post
- Absorber Arm Length: 30.5 cm (12")
- Vertical Adj (above floor): 39.4 to 71.1 cm (15.5" to 28")

Casters
- 12.7 cm (5") casters with a brake on the front casters

LOW FLOW/CLOSED CIRCUIT ANESTHESIA
Permits low-flow and closed-circuit anesthesia with:
- O₂/N₂O mixtures in 25%-75% proportions at O₂ flows as low as 200 mL/min.
- Accurate flowtubes.
- Vaporizers with linear concentrations.
- Low leak rates.
- An absorber that uses less absorbent.

All information/specifications subject to change without notice.