A9800 Anesthesia Workstation

Technical Parameters

Ventilation Modes
- Volume Controlled Ventilation (VCV)
- Pressure Controlled Ventilation (PCV)
- Synchronized Intermittent Mandatory Ventilation w/ Pressure Support (SIMV+PS) w/ Volume or Pressure-type mandatory breaths
- Pressure Support (PS) w/ Apnea Backup
- Pressure Controlled Ventilation with Volume Guarantee (PCV-VG)
- Manual Ventilation

Alarms
- Apnea
- Apnea CO₂
- Adjustable alarm limits for Inspiratory O₂ concentration (FiO₂)
- Adjustable alarm limits for Minute Volume (MV)
- Adjustable alarm limits for Airway pressure (PAW)
- Adjustable alarm limits for EtCO₂ and agents
- Continuous Pressure
- O₂ Supply Fail
- Negative Pressure
- High Breath Rate (PS)
- High PEEP
- High O₂
- Line Battery
- AC Power Fail
- Technical alarms

Operation Conditions
- Operating voltage: AC100-240V, 50Hz / 60Hz
- Temperature: 10 – 40 ℃ (operation)
- Temperature: -20 – 60 ℃ (storage & transport)
- Relative humidity: >90%, non-condensing (operation)
- Relative humidity: >90%, non-condensing (storage & transport)
- Weight (without vaporizer & cylinders): approx. 140Kg
- Dimensions (H x W x D): approx. 1400mm x 900mm x 760mm

Standards
- EN 60601-1, EN 60601-1-2, ISO 80601-2-13

Monitoring
- Continuous monitoring of Inspiratory O₂ concentration, breathing frequency, airflow pressure (Peak, P1, PEEP), minute volume and tidal volume.
- The measured parameters are displayed as large, easy to read digital values. Airway pressure, flow, volume and CO₂ are shown in graphical waveforms.

Parameters and Ranges
- Pressure target: 5 – 70 cmH₂O
- Pressure support limits Ps: 3 – 40 cmH₂O
- Flow Volume: 20 – 1500 ml
- Breathing Freq.: 2 – 120 bpm
- tidal volume: 0 – 60 bpm in SIMV-PC and SIMV-PS
- 0 – 300 bpm in other modes
- SIMV:
- TINS:
- 0.2 – 5.0 s
- PEEP:
- OFF, 3 – 50 cmH₂O
- PEEP:
- 1 – 15 L/min
- I:E Ratio:
- 1:1 – 5:1
- TSLOPE:
- 0 – 2 s
- vaporizers:
- Sevoflurane, Desflurane, Isoflurane, Halothane, Enflurane

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Parameters and Ranges
- Pressure target: 5 – 70 cmH₂O
- Pressure support limits Delta P: 3 – 50 cmH₂O
- Tidal Volume: 20 – 1500 ml
- Breathing Freq.: 2 – 100 bpm
- 2 – 60 bpm in PS
- 2 – 100 bpm in SIMV-VC and SIMV-PC
- 4 – 100 bpm in other modes
- SIMV:
- TINS:
- 0.2 – 5.0 s
- PEEP:
- OFF, 3 – 50 cmH₂O
- PEEP:
- 1 – 15 L/min
- I:E Ratio:
- 1:1 – 5:1
- TSLOPE:
- 0 – 2 s
- vaporizers:
- Sevoflurane, Desflurane, Isoflurane, Halothane, Enflurane

Cleared by US FDA for marketing in USA

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A9800 is an advanced yet easy to use anesthesia workstation that provides accurate, pneumatically driven and electronically controlled ventilation.

It has a user-friendly design, incorporates new technology and provides safe and effective treatment options for the clinician.

A9800 provides complete anesthesia ventilation capabilities that include traditional and “intensive-care type” ventilation modes like PCV-VG (volume guarantee).

Low-flow anesthesia delivery creates savings by lowering facility gas usage. Sophisticated ventilation capabilities of A9800 will meet the needs of the full patient range.

The integrated Electronic flowmeter provides accurate monitoring and intuitive operation.

Abundant options for A9800 Gas monitoring CO₂, N₂O & 5 types of anesthetic agents.

AGSS (Anesthetic Gas Scavenging System) provides safe and effective waste gas removal.

Patient suction regulator.

Third vaporizer parking position.

Advanced and clear user interface -

- The large 15” TFT LCD with touch screen along with a navigator wheel provides a simple intuitive interface that enhances user control.
- The screen can be tilted upward and downward according to the doctor’s needs and position.
- These ergonomy features ensure the clinician can complete the entire operation easily and accurately.
- The parameter areas on the main screen are shown in different colors for ease of identification.
- The waveforms and alarm records are clearly shown for easy review by the clinician of the patient’s treatment information.

Powerful monitoring functions -

- A9800 displays patient data with waveforms and spirometry loops.
- Loops can be frozen or reflected to show unintended changes in patient response to therapy.
- Optional gas monitoring provides clinicians with complete information on patient ventilation and agent delivery and uptake.
- The Electronic flow meters for O₂, Air and N₂O are designed especially for low-flow applications.
- The system includes electronic fresh gas flow displays along with traditional mechanical flow controllers and flow control knobs for enhanced patient safety over fully electronic blending systems.

- Data communications export is supported to connect to the Hospital IT systems and support EMR.

Full Featured Workstation -

- Advanced features for therapy delivery are also easy to use.
- The single-turn APL valve on A9800 includes a quick-release function to quickly lower patient breathing pressure and accurately set pressure limits.
- Automatic Compliance compensation along with fixed Flow compensation help clinicians to deliver accurate and precise ventilation therapy.
- Full waveform display including integrated Spirometry provides loops when desired for improved clinical data analysis.
- System provides a minimum of 25% O₂ concentration at all times utilizing a pneumatic Oxygen Ratio Controller.
- This enhances patient safety by systems that utilize electronic or software controlled ORC functions.

Advanced breathing system is fully autoclavable.
- Absorber bypass function makes changing absorbent during a case easier.
- Absorber is compatible with Standard Prepaqs or Issue A US. Absorber: Auto/Manual Switch is located on the breathing system for simple control of Ventilator On/Off.
- ACGD (Auxiliary Common Gas Outlet) switch is a standard feature to allow for use with non-rebreathing adapters.
- GCX-type rails support easy mounting of other devices to the workstation.
- 6 Traditional Gas Supply Pressure Gauges allow for easy status monitoring of hospital wall gas supplies and gas cylinder/banks.
- 3 locking drawers for storage.
- Standard Selectatec™ compatible mounts for easy installation.

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