

# A9800

## Anesthesia Workstation



# A9800 Anesthesia Workstation

*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 includes Adult and Child modes that provide patient-appropriate defaults and ranges.*

*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 CO<sub>2</sub>, N<sub>2</sub>O & 5 types of anesthetic agents. AGSS (Anesthetic Gas Scavenging System) provides safe and effective waste gas removal.*

*Patient suction regulator.*

*Third vaporizer parking position.*



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## *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 ergonomic features assure 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 stored as reference to best understand 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 O<sub>2</sub>, Air and N<sub>2</sub>O are designed especially for low-flow applications. This 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.*



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## *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 sets pressure limits*
- *Automatic Compliance compensation along with Fresh Gas Flow compensation help clinician 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% O<sub>2</sub> concentration at all times utilizing a pneumatic Oxygen Ratio Controller. This enhances patient safety over systems that utilize electronic or software controlled ORC functions*
- *Large stainless worktable provides extra convenience to the user, with the flip-up table design saving space efficiently*
- *Impressive array of standard features improves the system usability: auxiliary oxygen flow meter with Air/O<sub>2</sub> Blender and auxiliary AC power outlets*
- *Air/O<sub>2</sub> Blender for Aux Gas outlet is conveniently located on front panel to allow user to mix Aux Gas from 100% O<sub>2</sub> to 21% O<sub>2</sub> easily and accurately*
- *Breathing system is heated to reduce condensation and is integrated within the workstation*
- *Advanced breathing system is fully autoclaveable*
- *Absorber by-pass function makes changing absorbent during a case easier*
- *Absorber is compatible with Standard Prepaks or loose-fill CO<sub>2</sub> Absorbent*
- *Auto/Manual Switch is located on the breathing system for simple control of Ventilator On/Off*
- *ACGO (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 cylinders/tanks*
- *3 locking drawers for storage*
- *Standard Selectatec™-compatible mounts hold two vaporizers*



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## Technical Parameters

### Ventilation Modes

- Volume Control
- Pressure Control
- SIMV with Pressure Support (SIMV + PS) - with Volume or Pressure-type mandatory breaths
- Pressure Support (with Apnea backup)
- PCV-VG (Pressure Control Ventilation with Volume Guarantee)
- Manual ventilation

### Parameters and Ranges

- Pressure target: 5 – 70 cmH<sub>2</sub>O
- Pressure support (delta P): 3 – 50 cmH<sub>2</sub>O
- 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
- T<sub>INSP</sub>: 0.2-5.0 s
- PEEP: OFF, 3 - 30 cmH<sub>2</sub>O
- Freq<sub>MIN</sub>: 2 - 60 bpm
- T pause: OFF, 5%-60%
- Trigger: 1 – 15 L/min
- I:E Ratio: 4:1-1:8
- TSLOPE: 0 – 2 s
- Vaporizers: Sevoflurane, Desflurane, Isoflurane, Halothane, Enflurane

### Monitoring

- Continuous monitoring of inspiratory O<sub>2</sub> concentration, breathing frequency, airway pressure (Paw, Peak, Pmean, PEEP), minute volume and tidal volume.
- The measured parameters are displayed as large, easy to read digital values. Airway pressure, flow and CO<sub>2</sub> (optional) are shown in graphical waveforms.

## Alarms

- Apnea
- Apnea CO<sub>2</sub>
- Adjustable alarm limits for Inspiratory O<sub>2</sub> concentration (FiO<sub>2</sub>)
- Adjustable alarm limits for Minute Volume (MV)
- Adjustable alarm limits for Airway pressure (PAW)
- Adjustable alarm limits for EtCO<sub>2</sub> and agents
- Continuous Pressure
- O<sub>2</sub> Supply Fail
- Negative Pressure
- High Breath Rate (PS)
- High PEEP
- Mixed Agents
- Low Battery
- AC Power Fail
- Technical alarms

## Operation Conditions

- Operating voltage: AC100-240V, 50Hz/60Hz
- Temperature: 10 - 40°C (operation); -20 - 60°C (storage & transport)
- Relative humidity: ≤90%, non-condensing (operation);  
≤90%, non-condensing (storage & transport)
- Weight (without vaporizer & cylinders): approx. 100Kg
- Dimensions (H x W x D): approx. 1400mm x 900mm x 760mm

## Standards

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

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