A9800 Anesthesia Workstation

Technical Parameters

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

**Parameters and Ranges**
- Pressure target: 5 – 70 cmH₂O
- Pressure support (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
- TINSR: 0.2-5.0 s
- PEEP: OFF, 3 - 30 cmH₂O
- FreqMIN: 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

**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
- Vent Awest
- Low Battery
- AC Power Fail
- Technical alarms

**Operation Conditions**
- Temperature: 10 - 40 ℃ (operation); -20 - 60 ℃ (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
- Operating voltage: AC100-240V, 50Hz/60Hz
- Standards
  - EN 60601-1, EN 60601-1-2, ISO 80601-2-13

**Monitoring**
- Continuous monitoring of respiratory O₂ concentration, breathing frequency, airway pressure (Fio2, Peak, Pmin, PEEP), minute volume and ideal volume.
- The measured parameters are displayed in large, easy-to-read digital values. Airway pressure, flow and CO₂ (optional) can streams in graphical waveforms.

**Alarms**
- Apnea
- Apnea CO₂
- Adjustable alarm limits for Inspiratory O₂ concentration (FiO₂)
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**Standards**
- EN 60601-1, EN 60601-1-2, ISO 80601-2-13
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 Mandatory and "intensive care type" ventilation modes like PVC-VG (volume guarantee). Low-flow anesthesia delivery creates savings by lowering facility gas usage. Sophisticated ventilation capabilities of A9800 allow meet the needs of the low flow range. The integrated Electronic flow meter provides accurate monitoring and intuitive operation.

Abundant options for A9800

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A9800 provides complete anesthesia ventilation capabilities that include traditional and "intensive-care type" ventilation modes like PCV-VG (volume guarantee). Low-flow anesthesia delivery saves facility gas usage. Sophisticated ventilation capabilities of A9800 allow meet the needs of the low flow range. The integrated Electronic flow meter provides accurate monitoring and intuitive operation.

Full Featured Workstation:

• Advanced features for therapy delivery are also easy to use. The single-turn 4-way valve on A9800 includes a quick-release function to quickly lower patient breathing pressure and accuracy safety 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 Spironmetry provides cases when elevated for improved clinical data analysis.

• System provides a minimum of 50% O2 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-steel ventilator ensures extra convenience to the user, with the flip-up table design saving space efficiently.

• Impressive array of standard features improves the system usability: auxiliary gas flow meter with Air/O2 Blender and auxiliary AC power outlets.

• An-O2 Blender for Aux Gas outlet is conveniently connected on front panel to allow user to mix Aux Gas from 100% O2 to 21% O2 easily and accurately.

• Breathing system is heated to reduce condensation and is integrated within the workstation.

• Advanced breathing system is fully autoclavable.

• Absorption by-pass function makes changing absorbent during a case easier.

• Absorption is compatible with Standard Preparles or loose-fill CO2-absorber.

• Auto Manual Switch is located on the breathing system for simple control of Ventilator On/Off.

• AGC (Auxiliary Gas Common Outlet) switch is a standard feature to allow for use with non-rebreathing adaptors.

• 6 Traditional Gas Supply Pressure Gauges allow easy status monitoring of hospital gas supply and gas cylinders tanks.

• 3 locking drawers for storage.

• Standard Selectatec—compatible mounts hold two vaporizers.

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• Large stainless-steel ventilator ensures extra convenience to the user, with the flip-up table design saving space efficiently.

• Impressive array of standard features improves the system usability: auxiliary gas flow meter with Air/O2 Blender and auxiliary AC power outlets.

• An-O2 Blender for Aux Gas outlet is conveniently connected on front panel to allow user to mix Aux Gas from 100% O2 to 21% O2 easily and accurately.

• Breathing system is heated to reduce condensation and is integrated within the workstation.

• Advanced breathing system is fully autoclavable.

• Absorption by-pass function makes changing absorbent during a case easier.

• Absorption is compatible with Standard Preparles or loose-fill CO2-absorber.

• Auto Manual Switch is located on the breathing system for simple control of Ventilator On/Off.

• AGC (Auxiliary Gas Common Outlet) switch is a standard feature to allow for use with non-rebreathing adaptors.

• 6 Traditional Gas Supply Pressure Gauges allow easy status monitoring of hospital gas supply and gas cylinders tanks.

• 3 locking drawers for storage.

• Standard Selectatec—compatible mounts hold two vaporizers.
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, incorporating 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 mainstream and "intensive care type" ventilation modes like PVC-IG (volume guarantee). Low-flow anesthesia delivery creates savings by lowering facility gas usage. Sophisticated ventilation capabilities of A9800 and meet the needs of the ICU 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.

Full Featured Workstation:

- 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 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 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 flowmeter for O₂, Air and N₂O 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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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 P-IV-VG (volume guarantee). Low-flow anesthesia delivery creates savings by lowering facility gas usage. Simplified ventilation capabilities of A9800 aid in meeting the needs of the ICU patient range. The integrated Electronic Flowmeter provides accurate monitoring and intuitive operation.

Abundant options for A9800

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. Simplified ventilation capabilities of A9800 aid in meeting the needs of the ICU patient range. The integrated Electronic Flowmeter provides accurate monitoring and intuitive operation.

Full Featured Workstation:

- Advanced features for therapy delivery are also easy to use. The single-turn 40% valve on A9800 includes a quick-release function to quickly lower patient breathing pressure and accurately set pressure limits.
- Automatic Compliance compensation along with Fresh Gas Flow compensation help clinicians deliver accurate and precise ventilation therapy.
- Full waveform display including integrated SpO2 monitoring provides easy review of trends for improved clinical data analysis.
- System provides a minimum of 20% O2 concentration at all times utilizing a pneumatically driven Respiratory Rate Controller. This enhances patient safety over systems that utilize electronic or software controlled ORC functions.
- Large stainless-steel ventilator adds extra convenience to the user, with the flip-up table design saving space efficiently.
- Improved array of standard features improves the system usability: auxiliary oxygen flow meter with Air/O2 Blender and auxiliary invasive AC power outlets.
- Air/O2 Blender for Aux Gas outlet is conveniently located on front panel to allow user to mix gases from 100% O2 to 21% O2 easily and accurately.
- Breathing system is heated to reduce condensation and is integrated within the workstation.
- Advanced breathing system is fully autoclavable.
- Absorb by-pass function makes changing absorbent during a case easier.
- Absorption is compatible with Standard Preparations or loose-fill CO2 Absorbent.
- Air/Manual Switch is located on the breathing system for simple control of Patient/Alarm.
- ACG (Auxiliary Common Gas Outlet) switch is a standard feature to allow for use with non-rebreathing adapters.
- SLO (Suction Low Limit) switch supports easy mounting of other devices to the workstation.
- Standard Selectatec—compatible mounts hold two vaporizers.
A9800 Anesthesia Workstation

Technical Parameters

Ventilation Modes
- Volume 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 range: 0 – 25 cmH₂O
- Pressure support (delta P): 3 – 50 cmH₂O
- Total Volume: 25 – 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
- TİMP: 0.2 – 5.0 s
- FEEP: 0 – 20 cmH₂O
- PEEP: OFF, 3 – 30 cmH₂O
- FreqMIN: 2 – 60 bpm
- T pause: OFF, 5% – 60%
- I:E Ratio: 1:4 – 1:8
- TSLOPE: 0 – 2 s
- Respiratory: Sevoflurane, Desflurane, Isoflurane, Halothane, Enflurane

Alarms
- Apnea
- 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
- Battery Fault
- Power Failure
- Technical alarms

Operation Conditions
- Temperature: 10 – 40°C (operation); -20 – 60°C (storage & transport)
- Relative humidity: ≤ 90%, non-condensing (operation); ≤ 80%, non-condensing (storage & transport)
- Weight (without vaporizer & cylinders): approx. 100 Kg
- 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 respiratory O₂ concentration, breathing frequency, airway pressure (Fio2, Peak, Peps, PEEP), minute volume and tidal volume.
- The measured parameters are displayed as large, easy to read digital values. Airway pressure, flow and CO₂ (optional) are shown in graphical waveforms.

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Operation Conditions
- Operating voltage: AC100-240V, 50/60Hz
- Temperature: 10 – 40°C (operation); -20 – 60°C (storage & transport)
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- Pressure Control
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- PCV-VG (Pressure Control Ventilation with Volume Guarantee)
- Manual ventilation

**Parameters and Ranges**
- Pressure (source): 0 – 50 cmH₂O
- Pressure support (delta P): 3 – 50 cmH₂O
- Total 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
- TISP: 0.2-5.0 s
- PEEP: OFF, 0 – 30 cmH₂O
- FreqMIN: 2 – 60 bpm
- Trigger: 1 – 15 L/min
- I:E Ratio: 1:1 - 4:1
- TSLOPE: 0 – 2 s
- Vaporizers: Sevoflurane, Desflurane, Isoflurane, Halothane, Enflurane

**Monitoring**
- Continuous monitoring of respiratory O₂ 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 CO₂ (optional) are shown in graphical waveforms.

**Alarms**
- Apnea
- Apnea CO₂
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- Adjustable alarm limits for Minute Volume (MV)
- Adjustable alarm limits for Airway pressure (PAW)
- Adjustable alarm limits for EtCO₂ and agents

**Operation Conditions**
- 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
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**Standards**
- EN 06001-1, EN 06001-2-1, ISO 80601-2-13

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**Your healthcare, we care.**

**Technical Parameters**

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- Continuous monitoring of respiratory O₂ concentration, breathing frequency, airway pressure (Paw, Peak, Pmean, PEEP), minute volume and tidal volume.
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