

# UAM

## Universal Anesthesia Machine

The Gradian UAM is an innovative anesthesia machine designed to continue working without electricity and medical oxygen.



### **DUAL LOW-RESISTANCE VAPORIZERS**

Dual-vaporizer compatible back bar with one or two vaporizers that accurately deliver a calibrated flow of halothane, isoflurane, or sevoflurane with or without a compressed gas source.

### **INTEGRATED OXYGEN CONCENTRATOR**

Built-in oxygen concentrator that produces up to 10 liters per minute of up to 95 percent oxygen; room air cleaned with dual filtration system.

### **ANESTHESIA VENTILATOR**

Fully automatic, electrically-driven ventilator with 6-hour rechargeable battery back-up, no drive gas needed.

### **OXYGEN MONITORING**

Oxygen monitoring with settable high- and low-purity alarms displays inspired oxygen content and controls integrated electronic anti-hypoxic device.

### **PATIENT VITAL SIGNS MONITOR**

Real-time monitoring of pulse oximetry, ECG, blood pressure, and temperature with 6 hours of battery backup operation.

### **UNIVERSAL BELLOWS**

Manual bellows that ensures safe, assisted respiration for adults and children without requiring a high-pressure gas source.

# UAM Product Specifications

## VENTILATOR SPECIFICATIONS

Type	Automatic and manual
Drive	Turbine (no drive gas needed)
Battery	6 hr backup
Display	10.4" color touch screen, knob
Modes	Volume, Pressure, Spont
Tidal volume	20 - 2000 mL
Minute volume	0.3 - 15 L/min
Pressure control	0 - 55 cmH <sub>2</sub> O
PEEP	0 - 25 cmH <sub>2</sub> O
I:E ratio	1:9 - 5:1
Rate	1 - 100 bpm
Displays	Flow and pressure vs. time, compliance loops
Alarms	High and Low setting values, Breathing Circuit Disconnect

## GAS MANAGEMENT

Rotameters	Oxygen and nitrous oxide
Oxygen monitoring	Adjustable min. and max. purity alarms, battery backup
Concentrator	Integrated, provides 10 L/min of oxygen at up to 95% purity
Nitrous cut-off	Electrical, plus integrated AHD
Gas switching	Seamless transition to room air when compressed oxygen is unavailable

## VAPORIZERS

Type	Low resistance (works with and without compressed gas)
Back bar	2-station, with integrated reservoir
Agents	Halothane, Isoflurane, Sevoflurane
Capacity	120 mL

## ELECTRICAL AND GAS SUPPLIES

Oxygen and nitrous input	Pin index cylinder yoke Pipeline connection (NIST/BS)
Air input	Room air (entrains as needed)
Input voltage	220 VAC, 50/60 Hz with integrated AVS protection

## PHYSICAL DIMENSIONS

Dimensions	UAM: 750 × 550 × 1310 mm UAMV: 440 × 280 × 230 mm
Weight	140 kg (309 lb)
Construction	Aluminum frame, 4 casters (2 locking), work surface, shelf, drawer, 2 auxiliary sockets

## ENVIRONMENTAL

Temperature	15°C - 35°C (Operation) -5°C - 50°C (Storage)
Humidity	0 - 95% RH (Operation) 10 - 95% RH (Storage)
Pressure	70 - 110 kPa (Operation) 11.5 - 110 kPa (Storage)

## Guaranteed with Every Purchase

### COMPREHENSIVE WARRANTY

- Annual preventive maintenance checks
- Timely corrective maintenance with on-demand access to technical experts
- Local storage of spare parts for fast and easy access

### HIGH-QUALITY TRAINING

- In-person and online formats, covering real-world clinical scenarios like obstetric emergencies with high-fidelity simulation
- Taught by leading physicians, and is accredited in several countries

