

Gradian Health Systems & the Universal Anaesthesia Machine

The Universal Anaesthesia Machine

The Universal Anaesthesia Machine (UAM) is the world's only CE-certified anesthesia machine that can operate without power and medical oxygen. Invented in Malawi and manufactured in the U.K., the UAM uses a combination of continuous-flow and draw-over technologies to allow it to function in the absence of electricity or compressed oxygen. It features an integrated oxygen concentrator to generate its own oxygen and provides standard connectors for cylinder, pipeline and portable oxygen. If no electricity or external source of oxygen is available, the machine automatically draws in room air as the carrier gas. Its optional ventilator provides electrically-driven automatic ventilation in volume- and pressure-control modes, will operate without mains power for up to six hours on rechargeable battery and comes with a manual ventilation option as a final safety measure.

Key UAM Features



Ventilator

Fully automatic, electrically-driven ventilator with six-hour rechargeable battery backup; no oxygen needed

Patient Vital Signs Monitor

Real-time monitoring of pulse-oximetry, ECG, non-invasive blood pressure and temperature, with up to six hours of operation on battery backup

Oxygen Monitor

Touch-screen oxygen monitor that displays inspired oxygen content and lasts up to 10 hours on battery backup

Low-Resistance Vaporizer

Low-resistance vaporizer that accurately delivers a calibrated flow of halothane, isoflurane or sevoflurane with or without compressed gas

Bellows

Manual bellows that ensures safe, assisted respiration for adults and children without requiring a high-pressure gas source; provides backup means of IPPV to the ventilator

Integrated Oxygen Concentrator

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

For more information on the UAM, visit gradianhealth.org/our-products.



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Gradian Health Systems

Gradian Health Systems is a nonprofit medical technology company that equips low-resource hospitals to provide safer surgical and critical care. With distribution networks spanning more than 20 countries, we offer appropriate equipment, clinical and technical training, and reliable in-country support to help health providers operate with confidence – regardless of their infrastructure challenges.

Our Approach

Gradian’s model blends a nonprofit mission with an industry approach to distributing and maintaining medical equipment in low-income markets.



Technology

We design products for some of the most challenging clinical settings in the world – particularly those with unreliable access to power and oxygen. Our technology is versatile enough for any hospital – from a district hospital in sub-Saharan Africa to a world-class medical center in Europe.



Training

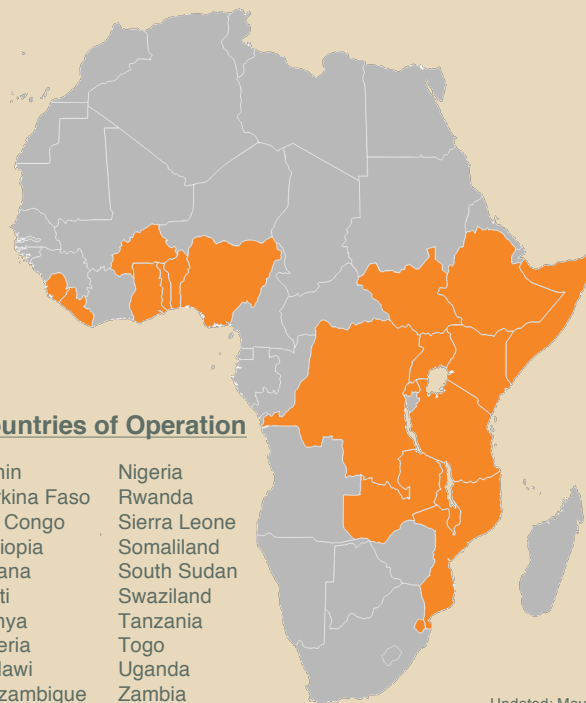
At every installation, we provide on-site product training for the hospital’s clinical and technical staff, led by a team of local or regional anesthesiologists and biomedical engineers. We also partner with academic institutions and professional associations to offer additional skills courses as needed.



Customer Service

Our complimentary service warranty covers preventive maintenance, repairs and spare parts for three years, with affordable options to extend it. All technical support is carried out by Gradian-certified technicians based in each of our markets, and our service team is available 24/7 by phone, email or WhatsApp.

Our Reach in Sub-Saharan Africa



Countries of Operation

- | | |
|--------------|--------------|
| Benin | Nigeria |
| Burkina Faso | Rwanda |
| DR Congo | Sierra Leone |
| Ethiopia | Somaliland |
| Ghana | South Sudan |
| Haiti | Swaziland |
| Kenya | Tanzania |
| Liberia | Togo |
| Malawi | Uganda |
| Mozambique | Zambia |

Updated: May 2017

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