

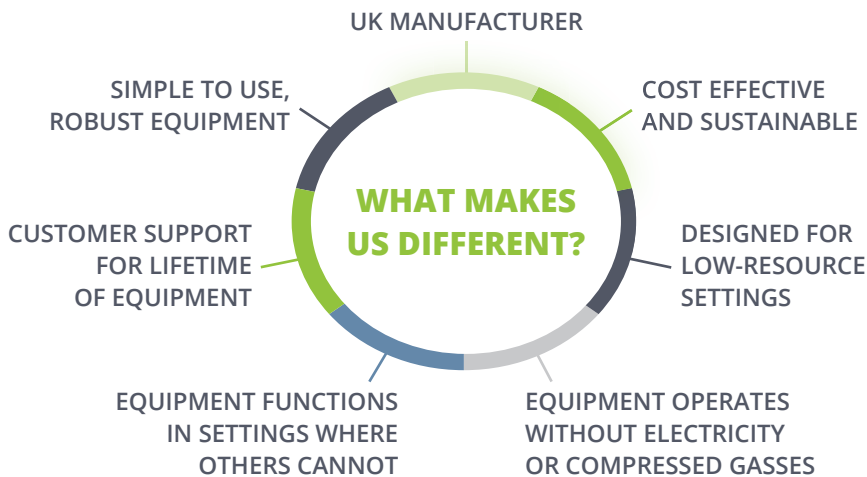
UK  
MANUFACTURER  
OF SPECIALIST  
MEDICAL  
EQUIPMENT



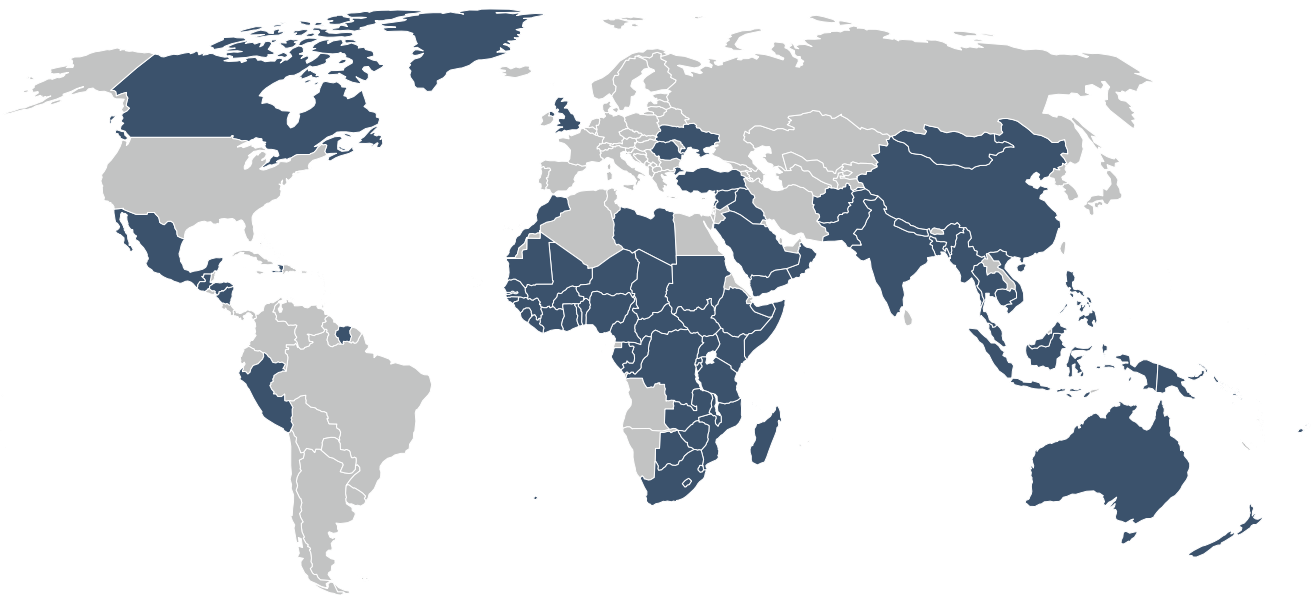
Providing sustainable,  
long-term & life saving  
healthcare in resource  
limited countries

# Our *products*

Diamedica UK Ltd provides hospitals with anaesthesia and respiratory solutions for low resource settings. Our goal is to ensure hospitals are equipped with intuitive equipment to provide safe surgery and perioperative care. All equipment is designed to be easily maintained by local technicians. Diamedica also provides training and after-sales support for the lifetime of the products, ensuring the longevity of the devices.



*“Diamedica are always striving and succeeding with helping the most vulnerable people in the world, with their incredible inventions that impact in the care of patients in low-resource countries.”*  
**Anita Smith MBE,  
MRG at Bansang  
Hospital, Gambia.**



EQUIPMENT IS OPERATING IN  
OVER **80 COUNTRIES**,  
ACROSS **6 CONTINENTS**



PRODUCTS



SERVICE



EDUCATION



PARTNERSHIPS



# Our *products*

Over 1,000 anaesthesia machines sold which have been used in more than 4 million surgical interventions.



## Anaesthesia

Anaesthesia systems for limited resource environments



## Intensive Care and Pain Management

A versatile ventilation system assisting breathing around the world



## Oxygen Therapy Equipment

An inexpensive and efficient source of oxygen



## Neonatal Care

Life-saving respiratory and resuscitation solutions for preterm babies



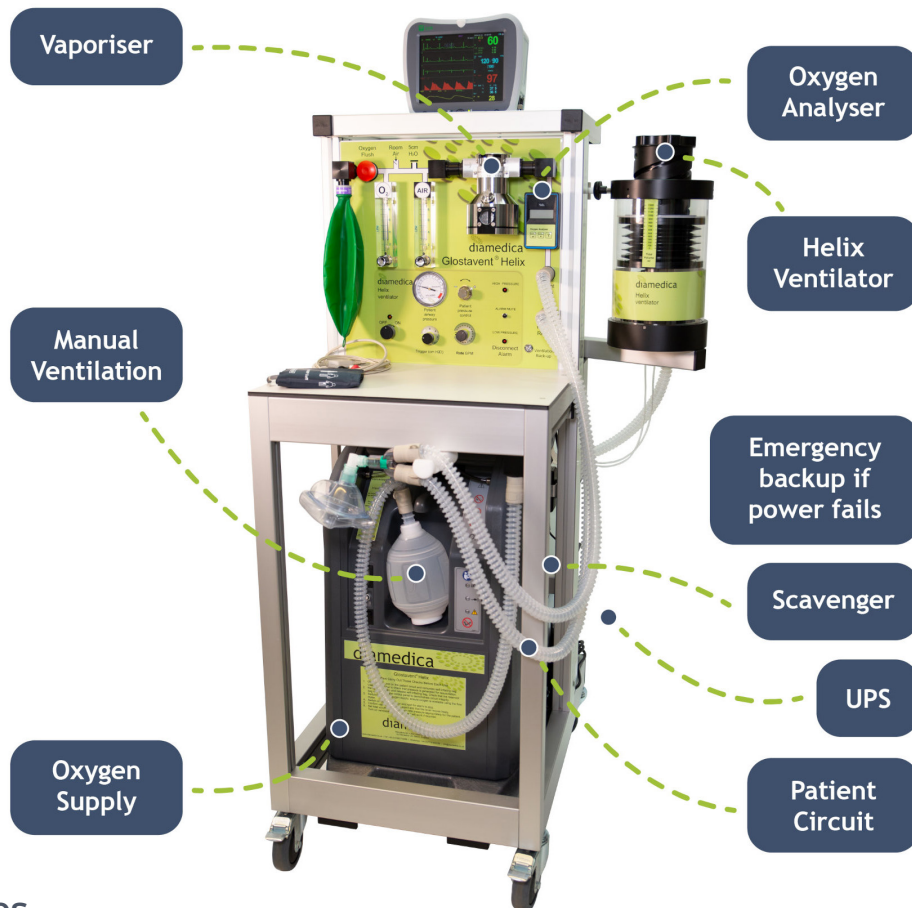
## Monitoring

A perfect fit for monitoring your anaesthesia machine



# Glostavent® Helix

This award-winning anaesthesia machine is the very first designed to function when power or oxygen fail in your operating theatre. The machine produces its own oxygen and medical air, and also has backup power, making it perfect for low resource environments. Used in more than 80 countries, the Glostavent® Helix has a built-in mechanical ventilator and numerous life-saving emergency backup systems.



## Key Features

- Supplied with integral 10 LPM oxygen concentrator
- Oxygen analyser that measures and displays % inspired oxygen concentration, last up to 300 hours on battery backup
- Suitable for adults and paediatrics
- Battery backup for ventilator with external oxygen source for more than 300 hours
- Delivers safe inhalational anaesthesia, with or without electricity or compressed gases
- Full functionality with UPS for up to 30 minutes
- Integral pressure or volume controlled Helix ventilator
- Ventilator backup for over 12 hours
- Fitted with alternative connections for oxygen cylinders and wall pipeline
- Low running costs – the Glostavent® Helix produces its own oxygen from room air. No need for expensive cylinders of gas

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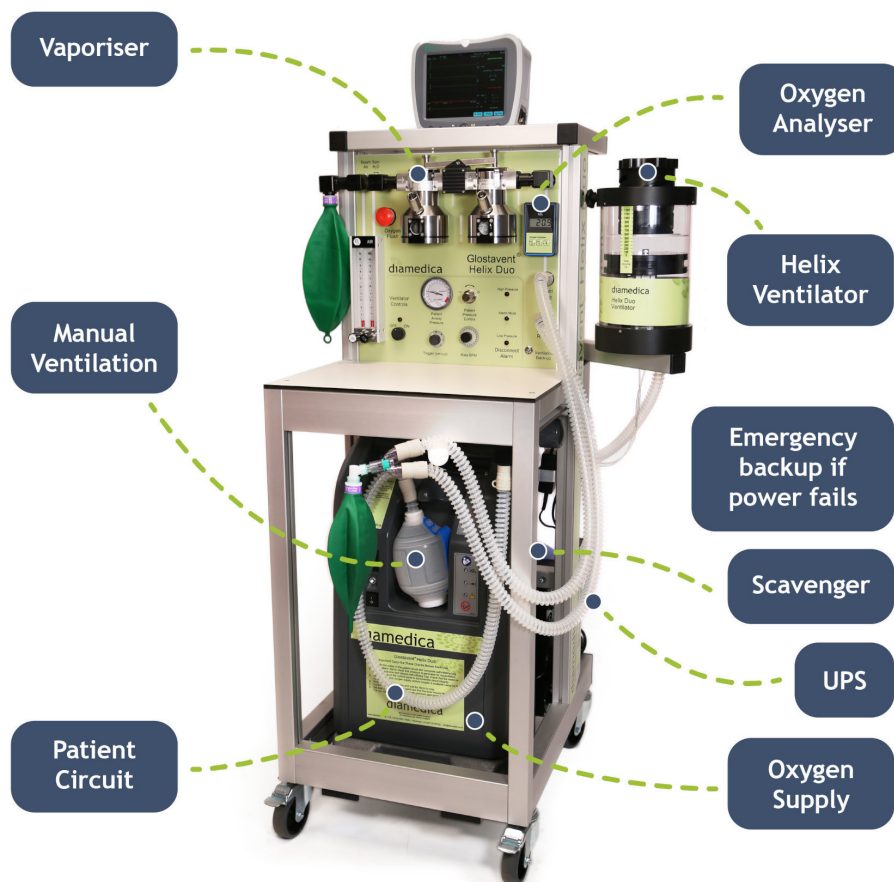
**UKCA & CE certified by**  
an internationally recognised  
notified body

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# Glostavent® Helix Duo

An addition to the renowned Glostavent anaesthesia range, the Glostavent® Helix Duo incorporates the same key characteristics of the Glostavent® Helix with the additional advantage of two, low resistance, draw over vaporisers. The twin vaporisers permit the safe delivery of a gaseous induction using Sevoflurane before switching to the more cost-effective Isoflurane to maintain the anaesthetised state. The vaporiser switching mechanism incorporates a 'break before make' safety feature to permit seamless and controlled changeover between both vaporisers, with no possibility of having both units in use in the circuit simultaneously.

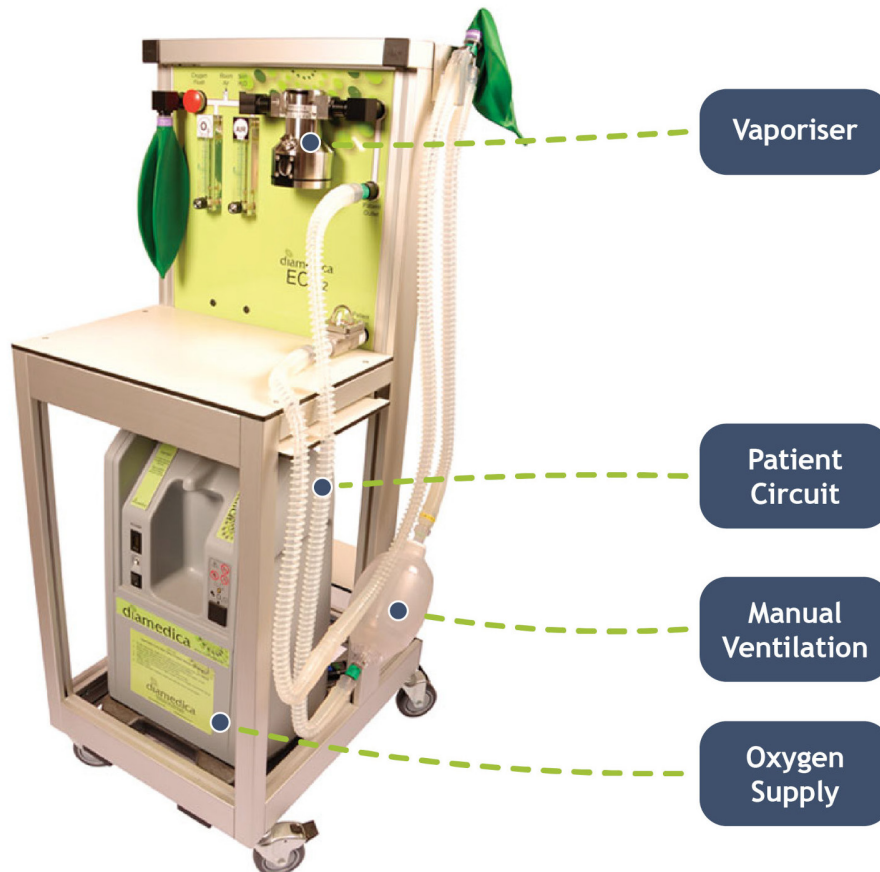


## Key Features

- Supplied with two vaporisers
- Oxygen analyser that measures and displays % inspired oxygen concentration, lasts up to 300 hours of battery backup
- Supplied with integral 10 LPM oxygen concentrator
- Suitable for adults and paediatrics
- Battery backup for ventilator with external oxygen source for more than 300 hours
- Delivers safe inhalational anaesthesia, with or without electricity or compressed gases
- Full functionality with UPS for up to 30 minutes
- Integral pressure or volume-controlled Helix ventilator
- Ventilator backup for over 12 hours
- Fitted with alternative connections for oxygen cylinders and wall pipeline
- Low running costs – the Glostavent® Helix Duo produces its own oxygen from room air. No need for expensive cylinders of gas

# Glostavent® ECO2

ECO spells economy, and that's exactly what the Glostavent® ECO2 will give you. Developed by building on the strengths of the original Glostavent® design, it delivers basic, cost effective and safe inhalational anaesthesia with manual ventilation. The ECO2 functions with or without electricity or compressed oxygen, and is designed specifically for limited resource environments.



## Key Features

- › Delivers safe inhalational anaesthesia, with or without electricity or compressed gasses
- › Supplied with integral 10 LPM oxygen concentrator
- › Suitable for adults and paediatrics
- › Full functionality with UPS for up to 30 minutes
- › Manual ventilation with self-inflating bag
- › Save the expense of compressed oxygen and air, the Glostavent® produces its own oxygen from room air
- › Fitted with alternative connections for oxygen cylinders
- › Designed and engineered and manufactured in the UK, robust and built to last
- › CE certified by an internationally recognised notified body

**Safe** anaesthesia and  
respiratory solutions for limited  
resource settings



# Patient Monitor

The G3H patient monitor offers a combination of features, affordability, and compact size, making it well-suited for use in remote areas and economically challenged regions. It can be seamlessly integrated with the Diamedica Glostavent® Anesthesia machine and, when needed, draw power from the Glostavent's UPS. Alternatively, it can also be provided as an independent monitoring unit.



## Key Features

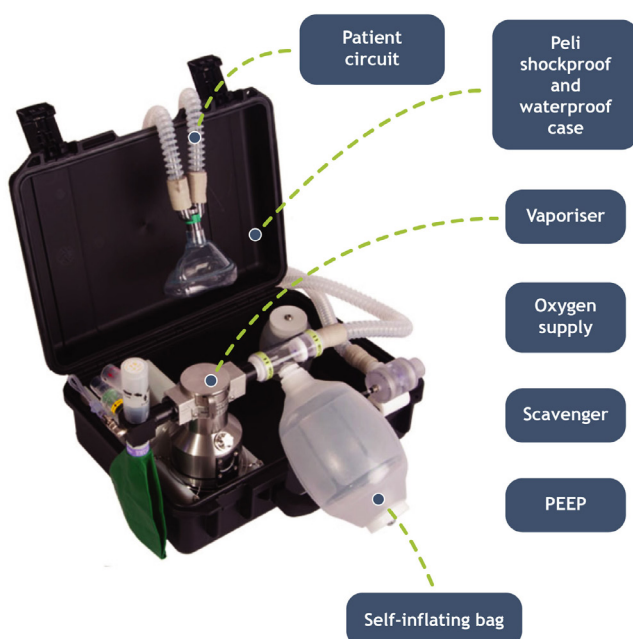
- Light, portable and compact
- Application modes: Monitoring, diagnosis, operating
- Ideally suited for use in emergency rooms, pre and post operative care, ICU, operation rooms/theatres, labour and delivery. Also ideal for mobile use.
- Protected against electrosurgical and defibrillation interference
- Adult, paediatric and neonate cuffs and SpO2 probes.
- 72 hours data storage, built in alarm, standby mode and built in rechargeable battery
- Standard configuration: ECG, NIBP, SpO2, HR/PR, 2-RESP, 2-TEMP, ST analysis, Arrhythmia analysis. Optional configurations available including ETCO2.





# Glostavent® Portable DPA02

The Glostavent® DPA02 portable anaesthesia machine is exceptionally versatile, functioning without the need for electrical or battery power, which makes it the preferred choice for humanitarian organizations, disaster relief efforts, and cost-conscious hospital managers. This lightweight machine can be swiftly assembled and safely transported as hand luggage in a Peli case, allowing rapid deployment in critical situations to save lives.

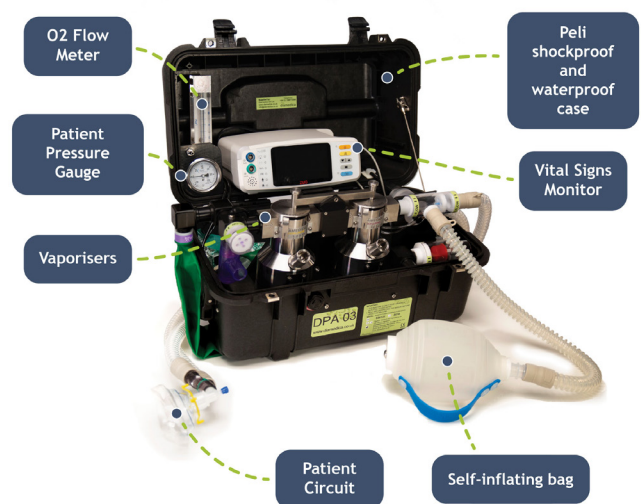


## Key Features

- Supplied with one low resistance vaporiser
- The machine can be assembled in two minutes
- Weighing 10kg the DP02™ is lightweight and easily carried as aircraft hand luggage
- Contained in a shockproof and waterproof Peli case it is suitable for use in the most remote locations in the world
- Compatible with Helix portable ventilators for mechanical ventilation

# Glostavent® Portable DPA03

Similarly, to DPA02, the Glostavent® DPA03 portable anaesthesia machine functions without the need for electrical or battery power, functioning anywhere, whether you're in the field or working in an outreach hospital or rural clinic. With the inclusion of its two vaporisers making it suitable for use with Halothane, Isoflurane or Sevoflurane so you can maximise the resources you have. This lightweight machine can be swiftly assembled and safely transported as hand luggage in a Peli case, allowing rapid deployment in critical situations to save lives.



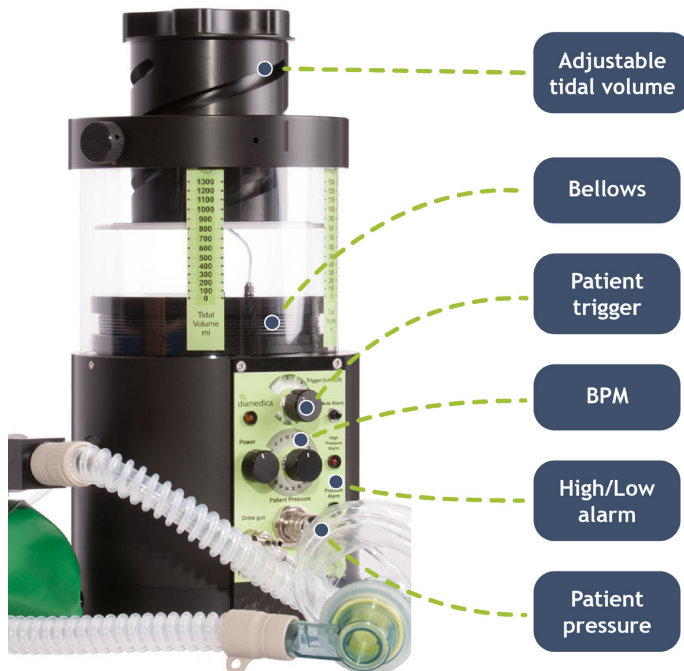
## Key Features

- Supplied with two low resistance vaporiser, then remove last section
- The machine can be assembled in two minutes
- Weighing 14kg the DPA03 is lightweight and easily carried as aircraft hand luggage
- Contained in a shockproof and waterproof Peli case it is suitable for use in the most remote locations in the world
- Compatible with Helix portable ventilators for mechanical ventilation
- Optional vital signs monitor can be supplied on request

# Helix Portable Ventilator

This lightweight portable gas-driven ventilator uses minimal quantities of oxygen either from a cylinder or oxygen concentrator, alternatively it can be driven by the optional air compressor. Uniquely, there is no oxygen wastage as this is recycled to the patient. It is suitable for use in an intensive care unit and is widely used in field hospitals and outreach situations too.

Easily transportable in its tough Peli case, this double-award-winning ventilator can be used as standalone equipment or with Diamedica's range of portable anaesthesia machines.



## Key Features

- Tidal volume 50 - 1200ml
- Suitable for adult and paediatric patients
- Optional shockproof and waterproof Peli case making it suitable for field and outreach work
- Uses drive gas from any source: oxygen concentrator, cylinder or air compressor
- Designed and manufactured in the UK, robust and built to last
- CE certified by an internationally recognised notified body

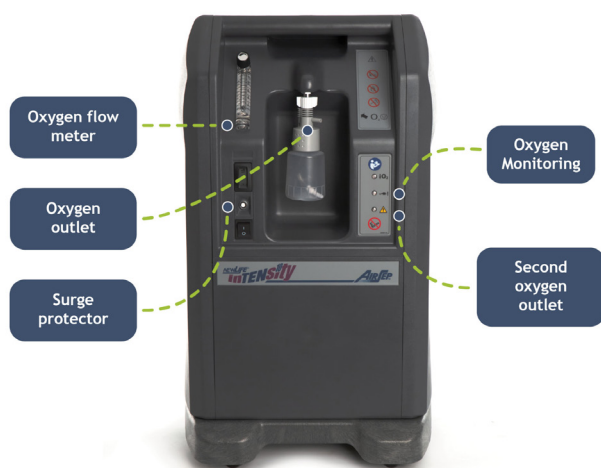


# Airsep 10L Oxygen Concentrator

When you work in an environment where oxygen is hard to come by or prone to running out, this oxygen concentrator will give you a safe and reliable supply – for little more than the cost of plugging in the machine. It will give you a reliable supply of oxygen at a minimal expense. Using it in combination with our flow splitters allows you to deliver oxygen to multiple patients simultaneously.

## Key Features

- > The concentrator provides oxygen from room air which never runs out
- > Suitable for areas with high ambient temperatures, humidity and altitude



# DeVilbiss Oxygen Concentrators

## Key Features

- > The concentrator provides oxygen from room air which never runs out
- > Suitable for areas with high ambient temperatures, humidity and altitude
- > 5 and 10 lpm option available

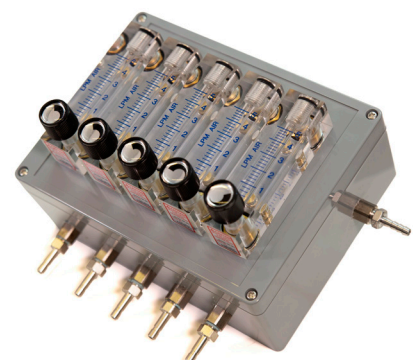


# Diamedica Flow Splitters

Wherever oxygen is required, Diamedica flow splitters will provide effective, efficient and safe medical grade oxygen from a single oxygen source to multiple patients simultaneously. Diamedica flow splitters have been uniquely engineered and developed to manage and redirect oxygen to multiple patients from a single oxygen source.

## Key Features

- > Each flowmeter is adjusted separately to ensure precise control
- > Can be made to bespoke requirements; 2-way/3-way/4-way or 5-way. Flow rates; 0-1lpm/0-2.5lpm/0-5lpm and 0-10lpm
- > Split flow rates will remain constant
- > Suitable for paediatric and adult use

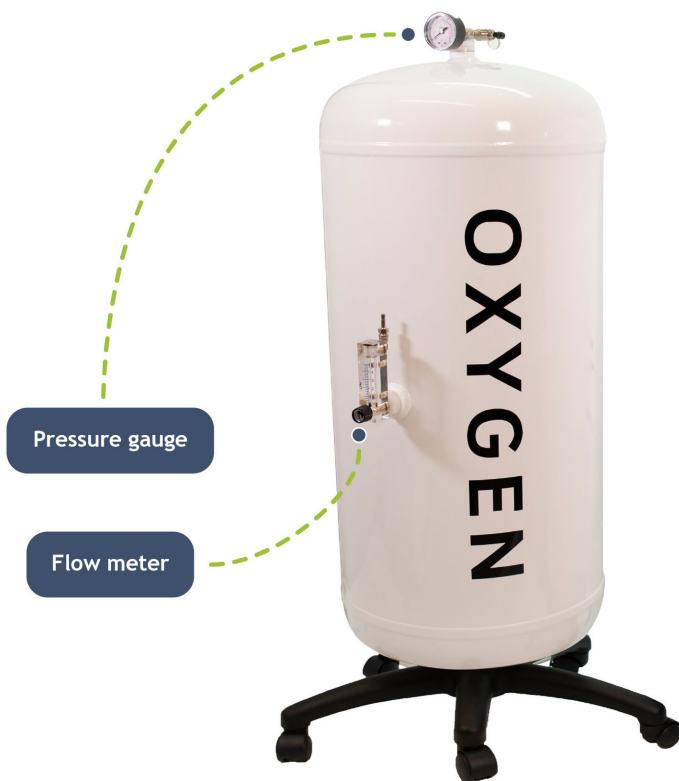




# Oxygen Reservoir System

Safeguard your oxygen supplies with our oxygen reservoir system. Use your reservoir to deliver oxygen directly to a patient in your Intensive Care Unit, or to run a Glostavent® Helix anaesthesia machine (modification available on request). Fill the vessel with our 5 bar compressor to get 100L of useable oxygen from your 20L reservoir system, or 500L oxygen from your 100L vessel.

An excellent solution in low resource settings, where oxygen cylinders can be costly, or hospital site access is difficult. A truly invaluable resource in the event of a power failure, this vessel stores the oxygen produced in advance ready for future use for when you most need it.



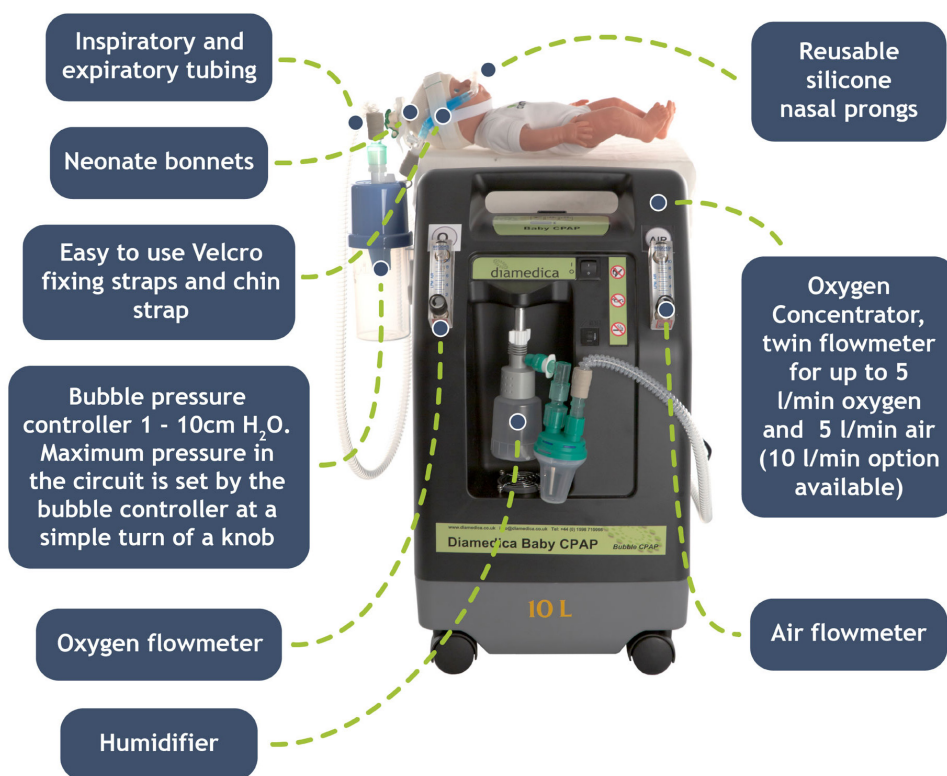
## Key Features

- Use the compressor pump to take oxygen from any appropriate oxygen concentrator and fill either a 20l or 100l vessel
- Aluminium vessel
- Quick release supply fitting and tube
- In the event of power failure, the oxygen reservoir filling system is an invaluable resource to provide oxygen
- Designed and manufactured in the UK, robust and built to last



# Diamedica Baby CPAP

A simple to use, low cost, life-saving respiratory solution for preterm babies, neonates and paediatrics. Diamedica's Baby CPAP provides safe controllable bubble CPAP for limited resource settings where the cost of conventional CPAP is prohibitive.



## Key Features

- CPAP 20, twin flowmeters for up to 10 l/min oxygen and 10 l/min medical air
- CPAP 10, twin flowmeters for up to 5 l/min oxygen and 5 l/min medical air
- Self-contained unit generates 95% oxygen and its own medical air
- Humidifier ensures appropriate warmth and moisture for the air and oxygen delivered to the patient
- Voltage protector is fitted to all Baby CPAP machines, protecting the machine from unstable power surges
- Clear oxygen/air mixing chart allows for easy setting of flow rates
- Inexpensive to run – no need for costly oxygen and air cylinders
- Precision design for simplicity of use, low maintenance and easy servicing

*"Since we introduced CPAP into the care we provide, we have seen a fall in mortality rates especially amongst our smallest prematures"*

**Dr Leah Seaman at Kapiri Hospital, Zambia**



# Baby Resuscitation Platform

The Diamedica Baby Resuscitation Platform is a portable and low-cost newborn resuscitation device designed to support the resuscitation of neonates in the vital minutes after delivery.

This platform is suitable in low-resource settings where there is limited access to advanced resuscitation equipment.

The robust mobile trolley assists with stabilisation after birth, meaning resuscitation can be performed successfully and safely in the delivery room or theatre with easy transportation between delivery locations.



## Key Features

- Portable and robust design
- Simple set-up
- Effective stabilisation
- Bedside resuscitation with umbilical cord intact
- Mobile trolley for ease of transportation
- Minimal cleaning required (wipe clean surface)

# Portable Baby CPAP

The Portable Baby CPAP is a compact, hands-free, neonatal respiratory device for preterm babies, neonates and paediatrics. Diamedica's Portable Baby CPAP provides safe continuous positive airway pressure, for use in a range of settings including transport, delivery room and during a power outage; this device can also be used when the number of patients in need of CPAP therapy exceeds the number of standalone CPAP machines available.

The machine delivers a source of continuous pressurised room air, which can be supplemented with oxygen from an oxygen concentrator or cylinder, if required.



## Key Features

- Portable and compact design for simplicity of use. Set up in less than 1 minute
- Two-patient application possible
- Device is compatible with hands-free use and kangaroo mother care
- Integral supplementary oxygen port
- Powered by mains power or internal battery
- Provide 8 hours battery life and can be charged whilst in use



# Customers & partnerships

Diamedica is proud to work with some of the major international humanitarian organisations around the world.

## Case studies

Hospitainer rapid deployment hospitals offer containerised medical solutions on the ground, on wheels and on water. These mobile hospitals are delivered at the right time and place, to minimise human suffering.

Diamedica supplies anaesthesia and oxygen equipment for Hospitainer's units, providing ideal solutions for these semi-permanent and transportable settings that operate in hostile locations and disaster situations.

**Location:** Global

**Partner:** Hospitainer



IOWD offers free surgical treatment to women needing obstetric fistula repair. The charity has a partnership with Kibagabaga Hospital and Diamedica to deliver lifesaving equipment and training. An integral part of every medical mission is training to strengthen the skills of the hospital staff. Diamedica joined a recent mission to Uganda to provide vital technical support and armed local staff with invaluable skills. Kibagabaga Hospital relies on a range of Diamedica equipment including Glostavent® Helix anaesthesia machine, oxygen concentrators and Baby CPAPs.



**Location:** Rwanda

**Partner:** International Organization for Women and Development at Kibagabaga Hospital



**Customer profile:** Midwife at the King's Village Ghana

The SANSOM project, organised by Diamedica, provided anaesthesia equipment and training for Somaliland. This project combined training for nurse anaesthetists at the country's first anaesthesia conference with the distribution of vital medical kits. The kits included Diamedica portable anaesthesia machines and oxygen concentrators. Diamedica ran training workshops, subsequently visiting and installing the equipment at 12 hospitals across every region of the country.



**Location:** Somaliland

**Partner:** International Rotary, Safe Anaesthesia Worldwide, Kijabe Hospital, Edna Adan Hospital

Born on the Edge is a charity that works tirelessly to save babies born on the edge of life in Uganda. Diamedica works closely with their project at Mbale Regional Referral Hospital, improving oxygen supplies and installing specialist breathing equipment in the neonatal unit. Improvements in neonatal care, including the use of Diamedica Baby CPAP devices, has dramatically reduced deaths of premature and sick babies in the unit.



**Location:** Eastern Uganda

**Partner:** Born on the Edge at Mbale Hospital

From purchase to patient, Diamedica is proud to extend customer support from the point of initial contact and throughout the lifetime of the equipment.



**SELECTING  
THE RIGHT  
EQUIPMENT**



**QUOTATION**



**ORDER**



**DELIVERY**



**PRODUCT  
TRAINING**



**LIFETIME  
SUPPORT**

# Training & support

Correct maintenance and servicing of medical equipment is crucial for sustainable healthcare. Diamedica prides itself on training local healthcare providers to ensure they have the skills to keep equipment fully functional. An inoperative piece of medical equipment can mean life or death to a patient.

## In the field

Traditionally we have taken our expertise overseas to offer 'hands on' product training in-country. This has allowed our engineers to deliver invaluable training to whole teams of medical professionals to enrich them with lifelong skills to operate the machines.



Robert Neighbour, Managing Director of Diamedica delivering training in Ghana

Diamedica Live Virtual Training Programme



## Virtual training

Recognising the demand for online learning and virtual education, Diamedica has proactively addressed this need by creating online and video-based training programs.

Through this approach, our team of engineers has successfully provided training to healthcare providers and biomedical engineers in 10 countries, with participation from over 100 individuals in Sub-Saharan Africa. This straightforward yet impactful training method only requires an internet connection, a suitable training room, and a laptop or screen to stream the live feed.



“The presentation was very well delivered, and all the team appreciated the excellent delivery. With a laptop and a TV screen all the team members were able to see and hear clearly in both sessions which was hugely successful. Every participant followed Jon well, point by point throughout, from connecting parts, turning on the machine to the point of use on a patient. I want to say that your customer support and after sale care and follow up is excellent and the machines are well designed with the end user in mind.”

**Rev. Ben Owusu-Sekyere, Executive Director at The King's Village, Ghana**

