



# Oxygen Concentrator and storage system

an inexpensive and efficient source of oxygen

## Concentrating on oxygen

Never run out of oxygen. Compatible storage vessels deliver when power fails

## A cost effective choice

No need for expensive compressed gases and low power consumption

## Sustainable

Ideal for low resource settings where oxygen supplies can be scarce

An **oxygen concentrator** will provide a reliable supply of oxygen at minimal expense. Use in combination with our flow splitter to allow delivery of oxygen to multiple patients simultaneously



# Oxygen Concentrator

## Quality first

- Never a danger of running out of oxygen
- Durable and selected for its quality and reliability
- The most convenient, reliable source of supplemental oxygen at a minimal cost
- Engineered and manufactured in the US

## Reliability

- Suitable for areas with high ambient temperatures, humidity and altitude

## Versatile

- Excellent solution in low resource settings, where oxygen cylinders can be costly, or hospital site access difficult
- Combined with Diamedica's Oxygen Reservoir System, the user has a sustainable and flexible oxygen supply in the event of a power failure, because it can produce and store oxygen when the machine is not in use

## Training and support

- Full training is available in use and maintenance
- Free technical support is available for the lifetime of the machine
- Each unit is supplied with a comprehensive user manual and training demonstration videos

Alarms

Oxygen light indicator

Oxygen flow meter

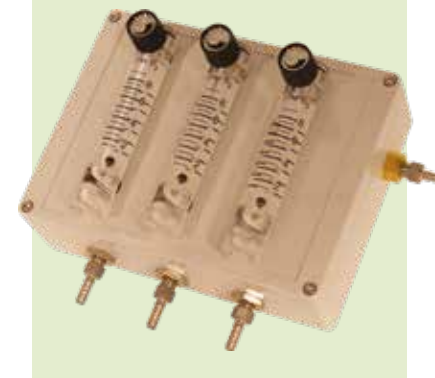
Circuit breaker

Oxygen outlet

Flow splitters

Diamedica flow splitters allow clinics and hospitals to manage and redirect the flow from a single oxygen source to a simple flow splitter to enable delivery to more than one patient- as many as eight.

- Each flow meter is adjusted separately to ensure precise control
- Flowmeters work by adjusting the flow controller
- Can be made to bespoke requirements



## Oxygen Reservoir Filling System

This system enables a pressure vessel to be filled with oxygen providing an additional back up oxygen supply.

- The system will take oxygen from any oxygen concentrator and fill either a 20 litre or 100 litre reserve vessel to a pressure of 5 bar (75 psi) giving 100 or 500 litres of usable oxygen. Multiple vessels can be supplied.
- An invaluable resource in the event of power failure, or when the oxygen concentrator is in use for a patient.
- It can also be used to provide up to 2 hours or 8 hours respectively of additional back up supply to run the Glostavent® Helix anaesthesia machine in the event of electrical failure and no cylinder oxygen
- Oxygen stored in the reservoir vessels can also be used for direct oxygen supply to patients



Pictured:  
Aluminium Oxygen Vessel (above)  
and Compressor Pump (left)  
Oxygen concentrator is supplied separately

## Oxygen Concentrators are supplied with:

- 1 Oxygen concentrator unit
- 2 Humidifier bottles
- 2 Nasal cannulae and tubing
- 1 Adult mask
- 1 Pediatric mask
- 1 Spare foam filter
- 1 Length of oxygen tubing

A voltage protector is fitted to all oxygen concentrators supplied by Diamedica, protecting the machine from unstable power surges

**CE** CE Certified by an internationally recognised notified body

See over for technical information ►

# Oxygen Concentrator



Specifications	5 litre Devilbiss	10 litre Devilbiss	10 litre Airsep
Oxygen concentration	1-5 LPM = 93% ± 3%	2-10 LPM = 93% +3%/-6%	10 LPM = 90% +5.5/-3%
Outlet pressure	8.5 ± 0.5 psig (58.6 ± 3.5 kPa)	20.0 ± 1.0 psi (138 kPa +/- 7 kPa)	20 psig (138 kPa)
Power	230V, 50Hz	240V, 50Hz	230V, 50Hz
Power consumption	312 watts	670 watts	590 watts
Alarms	Power failure, low oxygen concentration, high & low pressure, no flow	Power failure, low oxygen concentration, high & low pressure, no flow	Power failure, high and low pressure, low oxygen concentration, no flow
Weight	16.3 kg	19 kg	26.3kg
Dimensions	62.2 x 34.2 x 30.4 cm	62.2 x 34.2 x 30.4 cm	69.9 cm x 41.9 cm x 36.8 cm
Voltage protector	Yes	Yes	Yes

## Oxygen Reservoir Filling System

### Oxygen Vessel

- Over pressure safety valve (pre-set 7 bar)
- Pressure gauge
- Oxygen flowmeter (5 l/min)
- Quick release supply fitting and tube
- Weight and dimensions:  
20 litre vessel: 25 x 25 x 70cm, 6kg
- Weight and dimensions:  
100 litre vessel: 40 x 40 x 105cm, 13.5kg
- Aluminium vessel

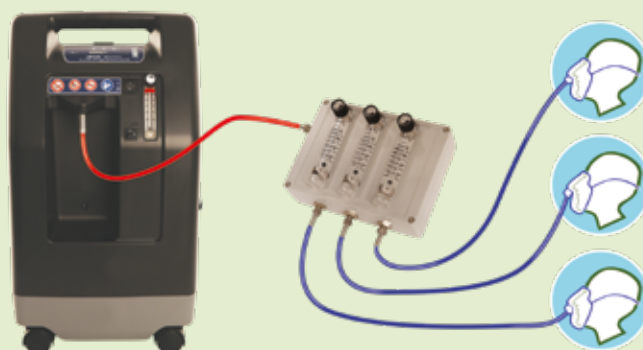


### Compressor Pump

- Oil free 12 volt compressor (rated at 10 bar)
- Fitted in Peli case
- Integral cooling fan
- Internal 12 volt sealed lead acid battery
- 12 volt battery charger / power supply
- Pressure control valve (preset at 5 bar)
- On/ off switch, mains power lead
- Supply and filling tubes suitable to connect from oxygen concentrator
- Will accept mains power from 95 - 290 volts (50Hz - 60Hz)
- Weight and dimensions: 42 x 23 x 33cm, 13kg



Use in combination with our **flow splitters** to allow the delivery of oxygen to multiple patients simultaneously



**Diamedica (UK) Limited**  
Grange Hill Industrial Estate  
Bratton Fleming  
Barnstaple  
Devon EX31 4UH  
United Kingdom

**Tel:** +44 (0)1598 710066  
**Fax:** +44 (0)1598 710055  
**Email:** info@diamedica.co.uk  
**Web:** www.diamedica.co.uk

Find us on:   

For free ongoing after sales **technical support**



Email: support@diamedica.co.uk



WhatsApp: +44 (0) 7716 503156

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