



# 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

## 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

- Fitted with a voltage protector to prevent damage from power surges
- Suitable for areas with high ambient temperatures, humidity and altitude

## Versatile

- Excellent solution in low resource settings, where oxygen cylinders are costly, or hospital access difficult
- Combine with Diamedica's Oxygen Reservoir System to ensure a sustainable and flexible oxygen supply. Produce and store oxygen for use in event of a power failure

## 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



# Oxygen Concentrator

Alarms

Oxygen light indicator

Oxygen flow meter

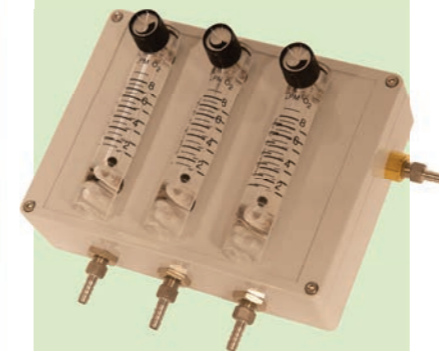
Circuit breaker

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
- 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 suitable 10 l/min oxygen concentrator and fill either a 20 litre or 100 litre reservoir 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 Paediatric 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

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

See over for technical information ►

# Oxygen Concentrator

## Specifications

	Devilbiss 5 litre	Devilbiss 10 litre	Airsep 10 litre
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 x 34 x 30 cm	62 x 34 x 30 cm	70 x 42 x 37 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 a water-resistant, protective 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



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