



Helix Portable Ventilators

a versatile ventilation system assisting breathing around the world

First choice

Ideal as first response
in disaster situations

Flexible

Portable and driven
by air or oxygen

Sustainable

No electricity required -
functions when power fails

Helix Portable Ventilators

Use the Helix Portable Ventilator in conjunction with Glostavent® Portables for mechanical ventilation.



Lightweight for portability and contained in an optional Peli shockproof and waterproof case, this is an ideal first response ventilator available in Adult/Paediatric or Paediatric/Neonate versions.



Versatile

- Can be used as standalone equipment, or in conjunction with Diamedica's Portable Anaesthesia systems
- Suitable for adult, paediatric and neonate patients
- For use in theatre, post-operative ventilation or in ICU or PICU
- Provide effective and efficient ventilation in difficult environments
- Ideal as first response ventilators for disaster and conflict situations or remote outreach work
- Will use drive gas from any source: oxygen concentrator, cylinder or air compressor
- Suitable for low resource settings

Cost effective

- Do not require the use of high flow rates of expensive compressed gases
- A single 8 l/min oxygen concentrator can run three Helix Adult/Paediatric Ventilators or four Helix Paediatric/Neonate Ventilators simultaneously
- Very low running costs
- Require minimal maintenance

Reliable

- Function in the absence of electricity
- Long internal battery life

Optional extra: Helix Compressor Pump



- A battery powered air compressor pump can be supplied that will power the Helix Portable Ventilators for emergencies and remote situations where there is no electricity to operate an Oxygen Concentrator and there are no compressed gas cylinders
- Packed in a small Peli case weighing less than 3kg, the Helix Compressor Pump contains internal battery, battery charger and pump which will run the ventilator for up to 20 hours continuously on a single charge

Design highlights

- Use only low flow rates of gas
- Recycle drive oxygen to patients
- Optional shockproof and waterproof Peli case



See over for technical information ►

Helix Portable Ventilators



| Specifications | Helix Adult/Paediatric | Helix Paediatric/Infant |
|---|--|--|
| Requires electricity to function | No | No |
| Mode of operation | Time cycled, volume limited, pressure generator | Time cycled, volume limited, pressure generator |
| Ventilator type | Pneumatic piston driven | Pneumatic piston driven |
| Drive gas | Any suitable gas source: oxygen concentrator, cylinder or air compressor | Any suitable gas source: oxygen concentrator, cylinder or air compressor |
| Suitable for non-invasive ventilation | Yes | Yes |
| Suitable for invasive ventilation | Yes | Yes |
| Tidal Volume | 50-1200 ml | 25-500 ml |
| Inspiratory/expiratory ratio | 1: 2 | 1: 2 |
| Alarms | High and low pressure with LED indicators, disconnect, mute | High and low pressure with LED indicators, disconnect, mute |
| Power supply | A/C, vehicle D/C, battery backup | A/C, vehicle D/C, battery backup |
| Internal rechargeable battery backup | >100 hours | >100 hours |
| Inspiratory pressure range | 8 - 40cm H ₂ O | 5 - 40cm H ₂ O |
| Breaths per minute | 4 - 40 | 4 - 40 |
| Triggered breathing control | 1 - 5cm H ₂ O | 1 - 5cm H ₂ O |
| Drive pressure/volume | >20psi 1/4 minute volume | >20psi 1/4 minute volume |
| PEEP depending on circuit used | 0 - 20cm H ₂ O | 0 - 20cm H ₂ O |
| Weight and dimensions <i>Including circuits:</i> | | |
| Weight | 14.5kg | 13kg |
| Dimensions | Height: 40cm Diameter: 23cm | Height: 40cm Diameter: 20cm |
| CE certified by an internationally recognised notified body | Yes | |

Training and support

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



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