

## Glostavent<sup>®</sup> Standard Anaesthesia System Specification

Complete anaesthesia system

Functions as a drawover machine or as a continuous flow machine

Will function without oxygen or without electrical power

Can be used in intensive care as a ventilator or as an oxygen source for therapy

Power failure will cause machine to change over automatically to reserve oxygen or external oxygen source.

Minimal maintenance, email and telephone support are free



The Glostavent<sup>®</sup> is an anaesthetic machine which has been specifically designed to enable inhalational anaesthesia to be administered safely in difficult environments.

It is based on the principles of simplicity, economy and reliability.

The three principal components are: a versatile breathing system, a gas driven ventilator and an oxygen concentrator.

Height	146 cm
Width	67 cm
Depth	53 cm
Weight	130 kg

The workstation is made from anodised aluminium and is therefore rust-proof. It is mounted on four anti-static castors, two of which are fitted with brakes. It provides a platform for all other elements of the Glostavent<sup>®</sup> Anaesthesia System.

Adult and paediatric bellows as standard  
 Normally driven by gas from oxygen concentrator with cylinder back up  
 Gas use 1/6<sup>th</sup> patient's minute volume, a 600 litre cylinder will provide approx 10 hours running time in the event of electrical power failure.  
 Battery life in the absence of mains electricity >100 hours. Battery recharge to 90% within 3 hours

## CAPABILITY

Respiratory rate: up to 40 breaths/min. Tidal volume: 35-1000 ml,  
 Inspiratory/expiratory ratio: 1:2. High pressure and low pressure alarms.  
 Inspiratory pressure range: 8-50 cm water  
 Triggered breathing system

The ventilator is a time-cycled, volume limited, pressure generator. It consists of a set of gas driven bellows. The drive gas is oxygen at a pressure of 140 KPa supplied either by the concentrator or, in the event of an electricity failure, from the reserve oxygen cylinder or external oxygen source. After it has driven the ventilator it is collected and returned to the breathing circuit to supplement the inspired oxygen concentration, always providing the patient with a minimum of 35% oxygen.



## VAPORISER

Low resistance vaporiser suitable for drawover anaesthesia or for continuous flow anaesthesia  
 Calibrated for Halothane and Isoflurane  
 Thermally stable  
 Scale 0 to 5%, Capacity 150ml  
 Weight 2.6Kg empty  
 Stainless steel construction  
 Minimal maintenance

## THE OXYGEN CONCENTRATOR

- Up to 8 litres per minute oxygen at approx 95%
- Up to 8 litres per minute air
- Audible alarm on failure
- Low oxygen light, Hours meter
- HEPA filters on both oxygen and air supply lines
- Power requirement 400 Watts
- Maintenance: regular washing of the external filter



## U.P.S. (UNINTERRUPTIBLE POWER SUPPLY)

- 1000VA Double on-line UPS.
- Wide input voltage range 160-380Volts
- Frequency range 50Hz +/- 4%
- Circuit breaker protected
- Plug supplied to suit local standard



The UPS provides a reserve supply of electricity for approximately 10 minutes. It also functions as a voltage and frequency regulator. Alarms on mains power failure, becomes insistent alarm as battery runs low.

If mains electricity is not restored at the end of ten minutes the concentrator stops working and is turned off. The reserve oxygen cylinder then automatically takes over the supply of oxygen for the patient and the source of pressure to drive the ventilator. It requires no intervention by the anaesthetist.

## ADDITIONAL STANDARD ITEMS

- Adult and Paediatric circuits. Adult and Paediatric self inflating bags for manual ventilation
- Autoclavable drugs tray
- Oxygen Flush
- Reserve oxygen cylinder and 4 bar regulator
- 2 metre whip hose for alternative oxygen supply
- Active gas scavenger for removing exhaled gas from theatre (tubing supplied)



Supplied in wooden packing case for maximum transport protection. Packed dimensions: 159 x 76 x 63 cm – 170kg