

## GLOSTAVENT® ANAESTHESIA SYSTEM SPECIFICATION

- Complete anaesthesia system
- Functions as a drawover machine
- Functions as a continuous flow machine
- Will function without power
- Will function without oxygen
- Can be used in intensive care as a ventilator
- Can be used as an oxygen source for therapy
- Minimal maintenance
- Email and telephone support are free
- Power failure will cause machine to change over automatically to reserve oxygen or external oxygen source



The Glostavent® 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.

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## WORK STATION

- Unpacked                                      Height 1590mm                                      Width 610mm
- Depth 530mm                                      Weight 130kg
- Boxed for transport                                      Height 1580mm                                      Width 520mm
- Depth 760mm                                      Weight 170kg
- Autoclavable drugs tray
- Recessed instrument tray
- Reserve oxygen cylinder
- 1.5 metre whip hose for alternative oxygen supply (default Schrader valve)
- Active gas scavenger for removing exhaled gas from theatre (tubing supplied)



The Glostavent® 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® Anaesthesia System.

## DIAMEDICA AP VENTILATOR

- Adult and paediatric bellows as standard
- Normally driven by gas from oxygen concentrator
- 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 over 100 hours
- Battery recharge to 90% within 3 hours of power being restored
- Capability
 

Respiratory rate:	up to 35 breaths/min
Tidal volume:	35-1000 ml
Inspiratory/expiratory ratio:	1:2
Alarms:	High pressure and low pressure
Inspiratory pressure range:	8-50 cm water
Trigger system	



The ventilator is a time-cycled, volume limited, pressure generator. It consists of a set of bellows which are gas driven. 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.

## VAPORISER

- Low resistance vaporiser suitable for drawover anaesthesia
- Suitable for continuous flow anaesthesia
- Stainless steel construction
- Agents halothane and isoflurane
- Scale 0 to 5%
- Capacity 150ml
- Weight 2.6Kg empty
- Maintenance none unless thymol from halothane builds up. Can be cleared using fresh halothane in a few seconds



## BREATHING CIRCUIT

- The breathing circuit has been designed to function in both draw over and continuous flow mode.
- Conversion from draw over to continuous flow mode occurs automatically as the gas flow is increased to exceed the patient's minute volume.
- There is a self-inflating bag on the inspiratory limb
- There is an autoclavable valve on the expiratory limb leading to the scavenging system.
- The Glostavent<sup>®</sup> can also be used with any of the commonly used breathing systems.



## 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 430 Watts
- Essential maintenance, regular washing of the external filter



## U.P.S. (Uninterruptible Power Supply)

- 1200VA Double on-line UPS. Supply is not connected directly to source
- Wide input voltage range 95-280Volts
- Frequency range DC-60Hz
- Approximately ten minutes back-up power
- Alarms on mains power failure, becomes insistent alarm as battery runs low
- 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. 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.



## Reserve oxygen cylinder

A reserve oxygen cylinder is supplied unfilled, with either a bull nose or pin index regulator, as specified.