NEPTUNE ANAESTHESIA WORKSTATION



The Neptune anaesthesia configuration has been specially developed for use during anaesthesia.

It was possible to give it a number of unique features, thanks to the use of modern electronics.

The Neptune configuration is reliable and easy to operate and can be used in all situations where vapour anaesthesia is used and ventilation is required.

This unit can be used both as a 'stand-alone' machine, and as a part of a system comprising a computer, printer, gas and/or ventilatory monitor.

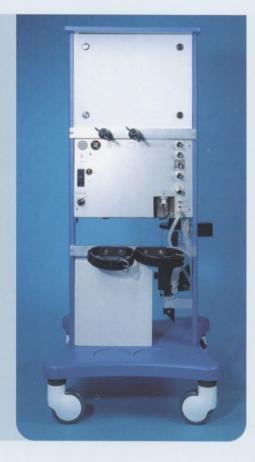


NEPTUNE : A breathtaking experience.

An advanced anaesthesia delivery system









Our Neptune configuration combines some never seen abilities, high technological research and a high level of security.

Our well studied platform is easy to handle and gives you many exceptional features. The platform is based on the well-known horizontal bag-in-bottle system.

The shown configuration consists of:

- The Neptune electronic ventilator.
- Our Uniflow rotameter with oxygen ratio controller.
 (min. 25% of oxygen and N20 cut-off in case of oxygen failure)
- The Neptune trolley with drawer unit, built-in regulators, double selectatec system, monitor shelf, bottle holders and rail systems.
- Fully autoclavable absorber system and circle breathing system.

The ideal choice when value for money is a priority.



Due to our unique principle of horizontal bag-in-bottle system, we are able to start from 10 ml up to 1500 ml, which makes it perfectly suitable for all patient groups. From neonates to adults, without having to change any bellow or bag.

This unit is modular in design and can be expanded through software upgrades. The unit provides volume controlled ventilation, pressure controlled ventilation as well as manual / spontaneous modes.

Some unique features include :

- A guaranteed delivery of the tidal volume setting.
- Automatic adjustment from half-open to fully closed, depending on the fresh gas flow settings.
- Automatic compensation for minor leaks and changes in patient parameters. (compliance, resistance,...)
- Intrinsic safety, permitting ventilation in all situations.
- Large reduction in gases by setting of minimum fresh gas flow. (low flow and minimal flow)
- Continuous fresh gas flow on the inspiratory side of the absorber system.
- Five years of guarantee on the flow sensor.
- Software available in different languages.

Technical data pneumatic system

Pipeline inlet pressure

3 - 8 bar - NIST entrance 3 - 8 bar - NIST entrance N20 3 - 8 bar - NIST entrance Air

Oxygen flush 40 l/min (between 3 - 8 bar) Suction Built-in, operating on vacuum (optional with injector system)

Regulators (optional)

Built-in regulator for 0, - N₂0 PIN-Index.

Cylinder holders

2 holders for 10 litre bottles

Manometer gauges regulator

0,: N₂0: 0 - 250 bar 0 - 100 bar

Manometer gauges

0 - 10 bar N-0 0 - 10 bar 0 - 10 bar Air

Rotameter

3 gases - 4 tubes

0, tube:

0 - 1 I/min 0 - 10 l/min

N₂0 tube : Air:

0 - 12 l/min 0 - 15 l/min With oxygen ratio controller. Guarantees a minimum of 25% oxygen. N₂0 cut-off if 02 fresh gas valve is closed or if 0, pressure drops below 2,5 bar. Optional: 5 or 6 tubes.

Vaporizer mounting

Selectatec system two station

Vaporizers

Flow and temperature compensated

1 monitor shelf (optional external arm)

Absorber features

Safety overpressure valve at 100 cmH₂0 Autoclavable

Drawer unit

Drawer unit incorporated 2 drawers

Volume of CO, absorber

1,5 liter

Technical data ventilator

Principle

Bag-in-bottle system

Tidal volume (CMV)

10 - 1500 ml

I:E ratio

1:1, 1:2, 1:3, 1:4, 2:1, 3:1

Sigh

On - off

Lower pressure alarm limit

2 mbar to 94 mbar (CMV) 2 mbar to 58 mbar (PCV)

Measured parameters

Expired tidal volume, frequency, minute volume, PIP, plateau pressure, PEEP, mean pressure, patient pressure

Battery backup

Minimal 2 hours when fully charged

Battery type

Sealed lead acid battery

Humidity

0 - 95% RH non condensing

Electronically controlled, pneumatically driven

Ventilation modes

CMV, PCV, manual, spontaneous

Peak pressure (PCV)

5 - 60 mbar

Peep (electronic)

0 - 20 mbar

Plateau time

0 - 50%

Low oxygen alarm limit

18 - 98 %

High oxygen alarm limit

7 mbar to 99 mbar

Upper pressure alarm limit

Ventilation frequency

4 - 60 breaths per minute

18 - 98 %

Trigger

-2 to -20 mbar

Alarms

Low air/0₂/N₂0 input pressure Apnea alarm, 0₂ alarms Upper/lower limit alarm Leak or patient disconnection User and technical alarms

Operating voltage

100 - 240V, 50 - 60 Hz

Operating temperature

10 - 40°C

Other display readings

Silent indicator Time & Date

Mains and Battery indicator

Power consumption

< 100 VA

Storage temperature

5 - 50 °C

This folder is subject to modification.



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