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# Meditec Neptune Prime

Anaesthesia Workstation



CE  
0297

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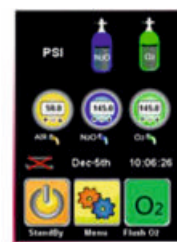


With the development in digital technology Allied Medical brings to you a brilliant machine equipped with Electronic gas mixing.

Advanced, modular and Robust design fulfil all the requirement of the Anaesthetist in the operation theatre and operating Rooms.

## Features

- Double TFT display for Anaesthesia monitoring and Vital parameters
- Electronic Flowmeter for the graphical representation of O<sub>2</sub>, N<sub>2</sub>O & Air with fresh gas flow optimization feature
- Backup manual O<sub>2</sub> control in case of Battery/Electricity failure
- Electronic and Mechanical Flush
- Electronic/ Digital Hypoxia Guard
- Twin Selectatec mounting for agent specific temperature and pressure compensated vaporisers
- NIST inlets for piped medical gases for O<sub>2</sub>, N<sub>2</sub>O & Air
- Common gas outlet (CGO)
- Open/Close change over switch for convenient switch-over from open to closed system
- Suitable for open, semi-open & closed-circuit system application
- Electrical outlets for running other medical equipment
- Auxiliary O<sub>2</sub> & Air outlet with flowmeter
- Work surface lighting
- Supports Low-Flow Anaesthesia
- Large Workbench
- One Key FiO<sub>2</sub> setup, automatic adjust oxygen flow to maintain FiO<sub>2</sub>, if fresh gas flow has changed
- Anaesthetic Gas monitoring (optional)

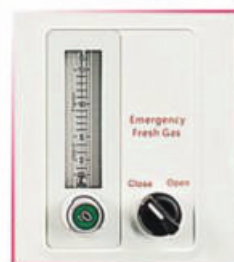


## Patient Safety Features

- Electronic gas mixing with electronic Hypoxia guard
- Audio Visual Alarm for O<sub>2</sub> failure
- Electronic and mechanical O<sub>2</sub> Flush 30-70 LPM O<sub>2</sub> Flow
- System Pressure Relief at 125 cmH<sub>2</sub>O
- AGSS



ACGO



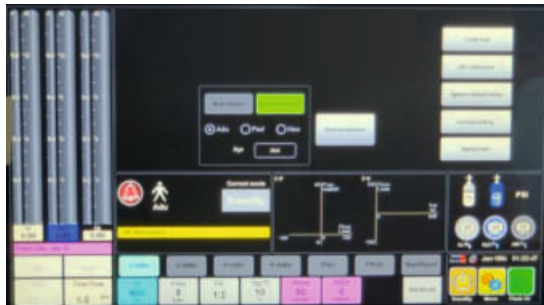
Emergency  
Fresh Gas



Auxiliary  
Outlet

## Integrated Ventilator & Monitor

- High-luminance and wide display
- 15.6" Touch Screen
- Ventilation Modes - V-CMV, P-CMV, V-SIMV, P-SIMV, PRVC, PSV & Manual/ Spont
- Monitoring Parameters (Measured values) VT, Freq,  $\text{FiO}_2$ , Ppeak, MV, PEEP, Pplat, Pmean, Compliance and Resistance
- Tidal volume range from 10ml to 1500ml suitable for Adult, Pediatric & Neonates
- Volume compensation and electronic PEEP.
- Automatically compensates for system leak and the compliance change in the circuit
- Fresh gas flow compensation
- Ascending bellows provides immediate visual information on the adequacy of fresh gas flow and gives an indication of any system leak
- Cardiac By-Pass mode
- Integrated Pressure, Volume and Oxygen monitoring
- Self test, leak test and compliance test
- Adult, pediatric & Neonatal mode
- Waveforms: Flow-Time, Volume-Time, Pressure-Time
- Spirometry Loops: Flow-Volume, Volume-Pressure, Pressure-Flow
- Setting Parameters  
VT (Tidal Volume), Frequency, I:E ratio, Tip (Inspiratory pause time), Pmax, PEEP, Vtr (Triggering flow sensitivity), SIGH, Tapn, Ptrig (Pressure trigger) PLimit, Psupp.
- Alarm Parameters  
Sustained pressure, Airway pressure (high & low),  $\text{FiO}_2$  (high & low), MV (high & low), Frequency (high & low), Apnea, A/C failure, Battery low,  $\text{O}_2$  failure alarm



## Integrated Multipara Monitor

- 15.6 inches Touch screen
- ECG- 3/5/ 12 Leads
- NIBP
- SpO2
- Respiration
- Dual Temperature
- Dual IBP (Optional)
- Graphical & Tabular Trend-168hrs



## Integrated Breathing System

- Bag/ Ventilator switch -Easy changeover from ventilator to bag
- Integrated airway pressure manometer
- Moisture drain valve
- Quick release soda lime canister system
- Autoclavable
- Fully calibrated APL valve (range 0–70cmH<sub>2</sub>O)
- Built-in  $\text{O}_2$  monitor sensor port
- Automatic ventilator switching from circle absorber
- Single canister system
- Heated circuit





## TECHNICAL SPECIFICATIONS

Storage Space	Three spacious drawers to hold essential anaesthesiakit and accessories
Castors	Large roller bearing anti-static castors with front brakes
Cylinder Yokes	Color coded gas specific (pin indexed) yokes with sliding stainless steel clamping bars for easy handling. Holding 1 (One) each for O <sub>2</sub> and N <sub>2</sub> O, 5Ltr water capacity cylinders
Non-return / Pressure Relief Valve	Minimises risk of back flow of gases, blows off when pressure exceeds 125 CmH <sub>2</sub> O
Oxygen Flush	Electronic and mechanical O <sub>2</sub> flush 30-70 LPM O <sub>2</sub> flow
Common Gas Outlet (CGO)	Conveniently located CGO with ISO tapers for 22 & 15mm connections
Pipe Line Gas Inlets	Non-Interchangeable Screw Threaded (NIST) pipeline inlets one each for O <sub>2</sub> , N <sub>2</sub> O and Air. In case of drop in piped gas pressure the pin index cylinders take over automatically
Hypoxia Guard	Electronic/ Digital Hypoxia guard
Gas Mixing	Electronic flowmeter for the graphical representation of O <sub>2</sub> , N <sub>2</sub> O and Air.
Selectatec Brackets	Twin Selectatec Block
Breathing Circuits	Bains Circuit & Circle Absorber Y-Circuit provided as standard

## VENTILATOR SPECIFICATIONS

Tidal Volume	5–1600 ml
Frequency	1–100 bpm
I : E Ratio	4:1–1:8
PEEP	OFF, 1.0 – 30 cmH <sub>2</sub> O
Inspiratory Pause	0–50% of Ti
Flow	<180L/min
Power	100–240vAC, 50/60Hz, 6.5A (Max.)
Battery back-up Ventilator	120mins

Recommended for use with Meditec ME-SORB™ CO<sub>2</sub> absorbent.



## Vaporiser (Optional)

- Calibration range : 0 to 5%, 0 to 6% and 0 to 8% using a Laser Refractometer
- Easy to turn dials for Safety Lock to prevent accidental turn on
- Agent specific vaporisers designed to provide constant output
- Available Screw fill, Meditec Fill® or Quik Fil™
- Interlock mechanism to lock in series with other Vaporisers
- Individually calibrated for each specific anesthetic drug
- Agent Capacity: 250±25ml
- Available in Screw fill, Quik Fil™ and Meditec Fill™
- Available for Halothane, Isoflurane, Sevoflurane



Meditec Pisces

\*Quik Fil® is a registered trademark of Abbott Laboratories.

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