ALLIED | **M** ™
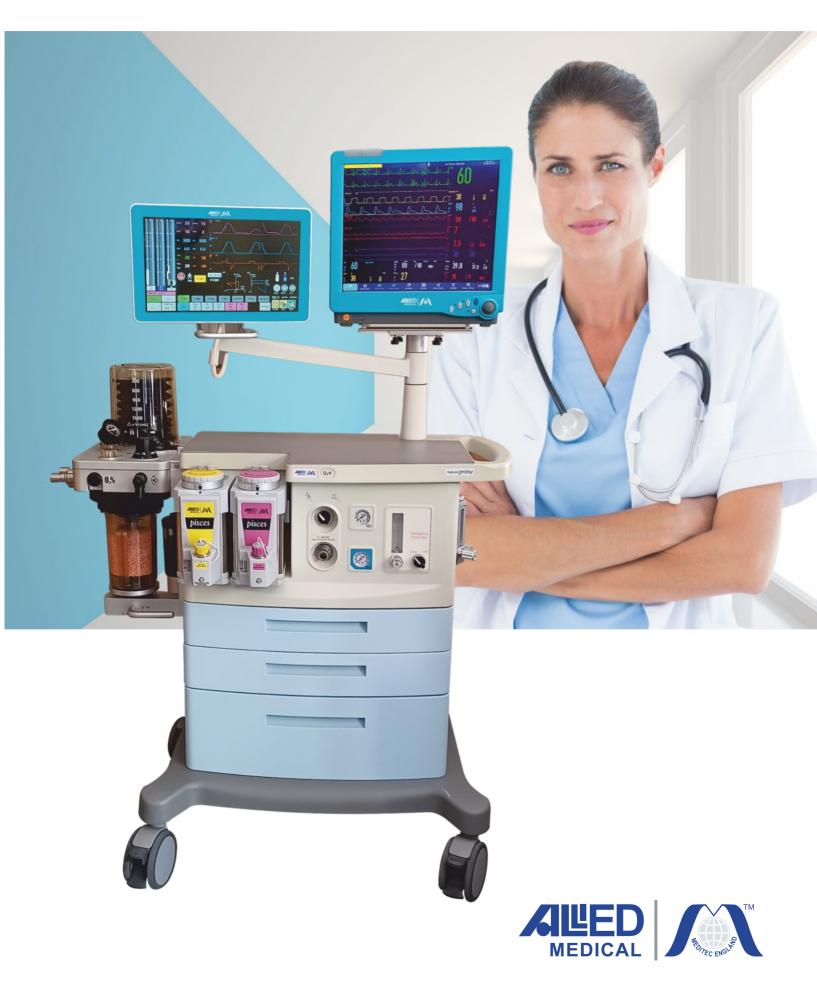MEDICAL | MEDITEC ENGLAND

With development in digital technology and automation in the medical field Allied Medical Limited brings the most brilliant solution for Anaesthesia procedures for the OTs and ORs. Neptune Prime is equipped with Electronic gas mixing for effective and accurate delivery.

Advanced, modular, robust design combined with simple user interface and conscientiousness reduces the man hours to great extent and increase the effectiveness of the anaesthesia procedure thus improving the patients health.

Features

- 15.6 inches display with Touch operation for Anaesthesia settings and monitoring of parameters
- Electronic Flowmeter for the graphical representation of O_2, N_2O & Air with fresh gas flow optimization feature
- Backup manual O_2 control in case of Battery/Electricity failure
- Electronic and Mechanical Flush
- Electronic gas mixing with digital Hypoxia guard system
- Twin Selectatec mounting for agent specific temperature and pressure compensated vaporisers
- NIST inlets for piped medical gases for O_2, N_2O & 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 flowmeter for Oxygen and Medical Air
- Work surface illumination with digital ON/OFF feature
- Supports Low-Flow Anaesthesia
- Large Workbench
- One touch operation for FiO_2 settings from 21-100%.
- Anaesthetic Gas monitoring (optional)

Tiltable and Rotatable display with swivel arm

Quick increment and decrement Parameters setting bar

Augmented Loops Display

Patient Safety Features

- Electronic gas mixing with electronic Hypoxia guard
- Audio Visual alarm for O_2 failure
- Electronic and mechanical O_2 Flush 30-70 Lpm O_2 Flow
- System pressure relief at 125 cmH$_2$O
- Optional AGSS system (Active or Passive)

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, PCV-VG, PSV & Manual/ Spont
- Monitoring Parameters (Measured values) VT, Freq, FiO_2, Ppeak, MV, PIF, PEF, PEEP, Pplat, Pmean, Compliance and Resistance
- Tidal volume range from 5ml to 1600ml 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
- 500 alarms/ events logs
- Heart Lung Machine (HLM) mode

- Fresh gas optimization bar graph tells the efficient use of fresh gas flow
- Dedicated flow sensor for measurement at inspiratory and expiratory ports
- 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), FiO_2 (high & low), MV (high & low), Frequency (high & low), Apnea, A/C failure, Battery low, O_2 failure alarm

Big Font display

Fresh Gas optimizer

Allied Meditec 700 Series

Patient Monitors (Optional)

Allied Medical Neptune Prime machines can be used with a wide range of Allied Meditec Monitoring options varying from basic to multi-parameter monitors.

Integrated Breathing System

- Bag/ Ventilator switch -Easy changeover from ventilator to bag
- Integrated airway pressure manometer
- Moisture drain valve
- Quick release sodalime canister system
- Autoclavable
- Fully calibrated APL valve (range 0–70cmH$_2$O)
- Built-in 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_2 and N_2O, 5Ltr water capacity cylinders
Non-return / Pressure Relief Valve	Minimises risk of back flow of gases, blows off when pressure exceeds 125 CmH_2O
Oxygen Flush	Electronic and mechanical O_2 flush 30-70 LPM O_2 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_2, N_2O 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_2, N_2O 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_2O
Inspiratory Pause	0–60% of Ti
Flow	<180L/min
Fresh Gas Flow	0.2~20L/min Accuracy : 0.2~0.4L/min ±0.04L/min >0.4L/min: ±10%
Power	100–240vAC, 50/60Hz, 6.5A (Max.)
Battery back-up Ventilator	120mins

ENVIRONMENTAL SPECIFICATIONS

Operating Temp.	5°C~40°C
Operating Pressure	70kPa~106kPa
Operating Humidity	<80%, non-condensing
Storage Temp.	(-)40°C~55°C
Storage Pressure	50kPa~106kPa
Storage Humidity	10%~93%, non-condensing

Meditec ME-SORB™ CO_2 absorbent is recommended for use with Allied Meditec Neptune Prime

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, Desflurane

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

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