

JUPITER PLUS

Anaesthesia Workstation

ALIED



ISO9001:2008
ISO13485

Delivering safe anaesthesia solutions since 1982

Features

- Deep spacious drawer units & convenient footrest
- Dual cascaded rotameters for O₂ and N₂O as standard
- Wide monitoring shelf at eye level
- Convenient Common Gas Outlet
- Hook for breathing circuit
- Open-Close circuit switch control
- Convenient mounting of circle absorber
- Twin Selectatec mountings for Agent Specific Vaporisers
- Pin Indexed yokes Two for O₂ and One for N₂O
- Anaesthetic gas scavenging port
- Large, roller bearing, anti-static castors with front wheel brakes
- Electrical outlets for connecting monitors
- ABS framework with metal reinforcements
- Pipeline with gas specific NIST connectors for O₂, N₂O and Air

Patient Safety Features

- Integrated Hypoxic Guard
- Emergency O₂ flush
- Alarm to provide audible indication of O₂ supply pressure failure
- Nitrous Oxide shut off in the event of O₂ failure
- Colour coded internal pipework

Optional Features

- Third Gas (Air)
- Suction Unit
- Basal Flow
- Auxiliary Oxygen Therapy Unit
- Air / N₂O Interlock
- 2nd Yoke for N₂O



Cylinder Yokes



Spacious and Deep Drawers



Twin Selectatec Back Bar



Meditec England Pisces

Vaporiser

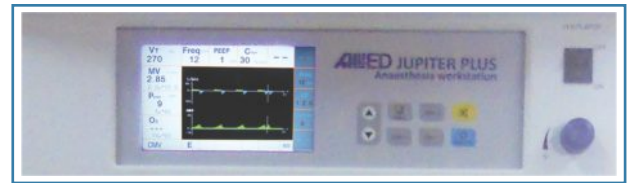
- Calibration range : 0 to 5% and 0 to 8% set by using a Laser Refractometer, Agent Capacity: 250 ± 25ml
- Easy to turn dials with safety lock to prevent accidental turn-on
- Agent specific vaporisers designed to provide constant output set by user
- Interlock mechanism to lock in series with other vaporisers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

In-built Ventilator

Allied Jupiter Plus has an in-built ventilator incorporating simplicity with all the advantages of a modern ventilator. It is microprocessor based sophisticated Anaesthesia Ventilator that provides optimum patient care in a quick to learn conventional design; offering easy handling, comprehensive patient care with enhanced performance, efficiency and safety.

Anaesthesia Ventilator is an electronic time cycled compact ventilator with integrated patient alarms for safety.

- High-Luminance 7" TFT colour display
- Pneumatically driven electronically controlled combines sophistication and ease of use
- Adult to Pediatric use
- Standard ventilation modes - CMV & Manual
- Optional ventilation modes - SIMV, A/C, SIGH,
- FiO_2 Monitoring
- Dynamic Compliance Monitoring
- Alarms
 - Low supply gas pressure
 - Power failure
 - Battery low/ discharged
 - VT, MV High & Low
 - Disconnection
 - Airway Pressure High & Low
 - Apnea
 - Sustained pressure



- Adjustable Inspiratory time, Expiratory time and flow rate
- Adjustable low and high pressure alarms
- Can be used in closed circuit anaesthesia and also to drive a bair circuit
- Easy to clean detachable ascending bellows unit

Jupiter Plus Circle System Absorber

- Bypass switch - Allows canister change during ventilation
- Bag ventilator switch - Easy changeover from ventilator to bag & vice versa
- Moisture drain valve
- Quick release soda lime canister system
- APL valve
- Ergonomically designed swivel breathing bag arm
- Double canister system with two canister of approx. 1kg each
- Autoclavable parts
- Airway pressure manometer



Standard Package

- Two Gas machine O_2 & N_2O with dual flow rotameter
- In built Ventilator with CMV mode
- Jupiter Plus Circle System Absorber
- One agent specific Meditec England Vaporiser of customer's choice (Halothane/ Isoflurane/ Sevoflurane)



Auxiliary Flowmeter & Suction Unit (Optional)

- O_2 flowmeter which can be used to deliver oxygen via a facemask or nasal canula to the sedated patient.
- Suction unit to run from O_2 supply with a 600ml collection jar.



TECHNICAL SPECIFICATIONS

Storage Space	Two spacious drawers for keeping essential anaesthesia kit / accessories
Castors & Foot rest	Large roller bearing anti-static castors with front brakes & foot rest
Writing Surface	Wide table top for writing
Monitor Shelf	Wide Monitor shelf at eye level
Cylinder Yokes	Color coded gas specific (pin indexed) yokes with sliding stainless steel clamping bars for easy handling. Holding Two O ₂ and One N ₂ O 5 Ltr. water capacity cylinders. Maximum number of Yokes - 4 (2 O ₂ + 2 N ₂ O)
Non-return/ Pressure Relief Valve	Minimizes risk of back flow of gases, blows off when pressure exceeds 125 CmH ₂ O
Regulators	Designed for higher efficiency, long service life and reliability for O ₂ and N ₂ O
O ₂ Flush	Emergency oxygen flush switch at table level to give 35-70 Ltrs/min for emergencies
O ₂ failure warning alarm	Self activated electro-pneumatic audio visual warning device to indicate drop in O ₂ pressure below 2.5 Bar
Nitro Lock	It enables N ₂ O to cut off if Oxygen fails
Hypoxic Guard	Mixing device to proportion the N ₂ O in such a way that minimum of 25% O ₂ is always present in the breathing gas mixture
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. In case of drop in piped gas pressure the pin index cylinders take over automatically
Pressure Gauges	Large diameter, color coded gauges fitted at convenient angle for better visibility and clarity. One for each of the pin indexed yokes and one each corresponding to piped gas inlet
Selectatec Brackets	Twin Selectatec Block
Breathing Circuits	Bains and Closed circuit provided as standard

CASCADE FLOWMETER

Oxygen Low Flow	0.1~1.0 lpm
Oxygen High Flow	1~10 lpm
N ₂ O Low Flow	0.1~1.0 lpm
N ₂ O High Flow	1~12 lpm
Air (optional)	0.2~15 lpm

PHYSICAL SPECIFICATION

Height	1465 mm
Width	720 mm
Depth	660 mm
Weight	120 kg
Top Shelf Size (mm)	625 mm x 320 mm
Work Surface Size	540 mm x 250 mm
Drawer Size Internal (mm)	490 mm x 320 mm

VENTILATOR TECHNICAL SPECIFICATIONS

Tidal Volume	20ml~1500ml	Internal Battery Backup	60 mins
Frequency	1.0~65 bpm	Power Supply	100~250 Volts
I:E Ratio	1:8~4:1	Pressure High	10~70 cmH ₂ O
Driving Gas	Oxygen / Air	Pressure Low	10~30 cm H ₂ O
Supply Pressure	45~100 PSI (310~700 KPA)	Mains Fail	Indicates main power failure
Minute Volume	0~20 lpm	Low Battery	Battery has less than 15 minutes
Supply Gas Low	Supply gas (driving gas) has lost pressure to 300 kpa or below		
Standard Ventilation Modes	CMV, MANUAL		
Optional Ventilation Modes	SIMV, A/C, SIGH		
Inspiratory Pause	0.50%		
Adjustable Pressure Relief	20~75 cmH ₂ O		
Respiratory Manometer (Gauge)	(-)20~(+)100 cmH ₂ O Pressure		



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