

JUPITER PLUS

Anesthesia Workstation



BALLIA
PHARMACEUTICALS



Delivering safe
anaesthesia solutions
since 1982

Ballia Pharmaceuticals LLP has developed the Jupiter Plus and Jupiter Plus Advance Anesthesia Workstation keeping in mind your need of compact and user friendly design of Anesthesia delivery system that helps you deliver attentive care to the patient rather than on the equipment. Jupiter Plus supports low-flow and minimal and extensive ventilation capabilities all packed in slim and ergonomic design.

Features

- Rust free framework
- Deep spacious drawer units
- Three gas machine with provision for O₂, N₂O and Air
- 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 Selecta Tec mountings for 2 Agent Specific Vaporizers
- Pin Indexed yokes Two for O₂ and One for N₂O
- Anesthetic gas scavenging port
- Large, roller bearing, anti-static castors with front wheel brakes
- Electrical outlets for connecting monitors
- Central pipeline connections with gas specific NIST Connectors
- Auxiliary oxygen therapy flow meter
- Built-in venturi type suction

Integrated Circle System Absorber

- Bypass switch - Allows canister change during ventilation
- Bag ventilator switch - Easy changeover from ventilator to bag & vice versa
- Automatic ventilator switching from absorber switch
- Moisture drain valve
- Quick release sodalime canister system

Patient Safety Features

- Integrated Hypoxic Guard
- Emergency O₂ flush
- Alarm to provide audible indication of O₂ supply pressure failure
- N₂O shut off in the event of O₂ failure
- Colour coded internal pipework
- Pressure relief valve



Twin Selectatec Manifold



Spacious and Deep Drawers

- APL valve range 0–70 cmH₂O
- Ergonomically designed swivel breathing bag arm
- Double canister system with two canister of approx. 1kg each
- Autoclavable parts
- Airway pressure manometer



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, Quik Fil™ and Meditec Fill™
- Available for Halothane, Sevoflurane and Isoflurane

*Quik Fil is a registered trademark of Abbott Laboratories.

Integrated Ventilator

Ballia 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. With option of upgrading to pressure control mode it is suitable for ventilation of neonatal patients.

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

- High-Luminance 7 inches TFT colour display
- Pneumatically driven electronically controlled combines sophistication and ease of use
- Suitable for Adult to Paediatric use
- PEEP monitoring
- FiO₂ Monitoring
- 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
- Alarms



- Low supply gas pressure
- Battery low/discharged
- Disconnection
- Apnea
- Power failure
- VT, MV High & Low
- Airway Pressure High & Low
- Sustained pressure

Features	Jupiter Plus	Jupiter Plus Advance
Modes	CMV, SIMV, AC, Sigh	VCV, PCV, SIMV, Manual
Electronic PEEP	Display only	Settable, 3-30 cmH ₂ O
Pre settable Tidal Volume Control	Manual	Electronic
Adult & Paediatric Mode	Single Setting	Separate Dedicated Modes
Compliance & Fresh Gas Compensation	Not Available	Available
Loops	Not Available	Optional

Standard Package

- Three Gas machine O₂ & N₂O with dual flow rotameter and single flowmeter for Air
- Integrated Ventilator
- Circle System Absorber
- Two agent specific Meditec England Pisces Vaporiser of customer's choice (Halothane/ Isoflurane/ Sevoflurane)
- One Meditec England 747 Patient Monitor on side arm



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
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
Pipeline 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	Larges 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	0.05–1.0 lpm
Oxygen High Flow	1–10 lpm
N ₂ O Low Flow	0.05–1.0 lpm
N ₂ O High Flow	1–12 lpm
Air	0.2–15 lpm

PHYSICAL SPECIFICATION	
Dimensions	1465mm (H)x720mm (W)x660mm (D)
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	Adjustable Pressure Relief	20–75 cmH ₂ O
Frequency	1–100 bpm	Respiratory Manometer Pressure Gauge	(-)20-(+)100 cmH ₂ O
I:E Ratio	1:8–4:1	Internal Battery Backup	60 mins
Driving Gas	Oxygen / Air	Power Supply	100–250 Volts
Supply Pressure	45–100 PSI (310–700 kPa)	Pressure High	10–70 cmH ₂ O
Minute Volume	0–20 lpm	Pressure Low	10–30 cm H ₂ O
Supply Gas Low	Supply gas (driving gas) has pressure 300 kPa or below	Mains Fail	Indicates main power failure
Inspiratory Pause	0–50%	Low Battery	Less than 15 minutes backup

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