



ALLIED
MEDICAL

Jupiter Plus

Anaesthesia Workstation



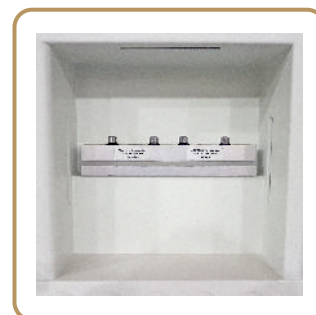
Delivering safe anaesthesia solutions since 1982

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Allied Medical Limited has developed the Jupiter Plus Anaesthesia Workstation keeping in mind doctor's need of compact and user friendly design of Anaesthesia delivery system that helps to 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

- Medical grade ABS plastic 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 Selectatec mountings for 2 Agent Specific Vaporisers
- Pin Indexed yokes Two for O₂ and Two for N₂O
- Anaesthetic 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 flowmeter
- Work surface lighting
- Automatic changeover from pipeline to cylinder



Twin Selectatec
Manifold with Vaporiser
Surface Light



Spacious and
Deep Drawers

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



Meditec Pisces

Vaporiser

- Calibration range : 0 to 5%, 0 to 6% and 0 to 8% set by using a Laser Refractometer
- 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
- Agent Capacity: 250 ± 25ml
- 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

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. 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
- Adult to pediatric mode
- Ventilation Modes : VCV, PCV, SIMV, Manual
- Electronic PEEP - Settable, 3–30 cmH₂O
- Integrated Pressure, Volume and Oxygen monitoring
- Adjustable Inspiratory time, Expiratory time
- Can be used in closed circuit anaesthesia and also to drive a bair circuit
- Easy to clean detachable ascending bellows unit
- Self test, leak test and compliance test
- Fresh gas flow compensation
- Waveforms : F-T, V-T, P-T & Spirometry Loops: F-V, V-P, P-F (Displays 2 waveforms & 2 loops, simultaneously)
- Alarms
 - Low supply gas pressure
 - Power failure
 - Battery low/ discharged
 - VT, MV High & Low
 - Disconnection
 - Airway Pressure High & Low
 - Apnea
 - Sustained pressure- Apnea
 - Sustained pressure



Integrated Ventilator

Integrated Circle System Absorber

- Bypass switch - Allows canister change during ventilation
- Bag ventilator switch - Easy changeover from ventilator to bag
- Automatic ventilator switching from absorber switch
- Moisture drain valve, Quick release soda lime canister system
- 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



Double Canister
Circle Absorber System



Recommended for use
with Meditec ME-SORB™
CO₂ absorbent.

Patient Monitoring (Optional)

The Jupiter Plus range offers a wide choice of Monitoring Systems with availability of optional extended parameters such as AGM, BIS, ICG, CO, 4 x IBP, EEG, Para-magnetic O₂, NMT



ECG | NIBP | SpO₂ | 2xTEMP | RESP | EtCO₂ | AGM | CO | IBP | BIS | NMT | ICG | EEG

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 Two 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 30-75 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 (mm)	1465 (H) x 720 (W) x 660 (D)
Work Surface (mm)	815 (H) X 540 (W) x 250 (D)
Top Shelf (mm)	625 x 320
Drawer (mm)	490 x 320
Weight	120 kg
Power Consumption	110W

VENTILATOR TECHNICAL SPECIFICATIONS

Modes	VCV, PCV, SIMV, Manual	Inspiratory Pause	0–50% of Ti
Electronic PEEP	Settable, 3–30cmH ₂ O	Adjustable Pressure Relief	0–70 cmH ₂ O
Waveforms	Pressure, Flow and Volume	Supply Gas Low	Supply gas (driving gas) has pressure 300 kPa or below
Loops	Pressure vs Volume, Flow vs Volume	Respiratory Manometer Pressure Gauge	(-)20–(+)100 cmH ₂ O
Compensation	Fresh Gas and Compliance	Internal Battery Backup	120 mins
Tidal Volume	20ml–1500ml	Power Supply	100–250 Volts
Frequency	1–100 bpm	Pressure High	10–70 cmH ₂ O
I:E Ratio	1:8–4:1	Pressure Low	10–30 cm H ₂ O
Driving Gas	Oxygen (Standard)/ Air (Optional)	Mains Fail	Indicates main power failure
Supply Pressure	45–100 PSI (310–700 kPa)	Low Battery	Less than 15 minutes backup
Minute Volume	0–20 lpm		



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