



Meditec Galaxy^{PLUS}
Anaesthesia Workstation

Most Effective And Efficient Patient Care

GalaxyPLUS are advanced anaesthesia workstations that combine efficient patient care with simplicity of operation. The modular workstation among its host of features, provides a choice between integrated electronic flowmeter and the traditional rotameters. Its advanced ventilation and monitoring capabilities provide a controlled and precise workflow during all stages of anaesthesia delivery making it suitable for all ages of patients from neonates to adults.



The ergonomically designed workstations provide a clean and uncluttered work environment by completely integrating the ventilator, breathing system, vaporiser, suction and scavenging system.

Special Features

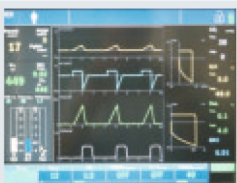
- Fully integrated, compact & ergonomic design
- Anti Hypoxic Device
- Fail-proof audio/visual oxygen failure alarm
- Automatic cut-off of N₂O in case of O₂ failure
- Dual/ Triple mounting of vaporisers
- Parking block for third vaporiser (optional)
- Auxiliary O₂ flowmeter
- Plug In upgrade modules
- Dual flow sensing capability at inhalation and exhalation ports
- Backup O₂ control independent of electrical failure
- Set and user defined priority alarms
- ACGO allows use with semi open circuits
- Top light and back light illumination
- Trolley mounted with lockable castors
- O₂ flush 35-75 l/min
- Air/N₂O interlock switch
- Basal Flow (optional)



Active Gas scavenging System(Optional)



O₂ Auxiliary Flowmeter



15" Display Screen



Plug In Upgrade Modules

Vaporisers

Meditec England provides a choice of advanced vaporisers that set the standard for both quality and performance by combining ergonomic design with consistent accuracy. These vaporisers deliver accurate concentrations under varying conditions of flow, pressure and temperature. The vaporisers are colour coded with clear agent level indications and tamper proof labeling.



Features

- Ergonomic design, single hand operation
- Calibration range : 0 to 5% and 0 to 8% set using a laser refractometer
- Easy to turn dials with 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 anaesthetic drug
- Agent capacity: 250 ± 25ml
- Available for Halothane, Isoflurane, Sevoflurane



GalaxyPLUS with Mechanical Flowmeter

Ventilator Features

- The large 15" color LCD touch screen displays all ventilator setting data, measurement information, loops and numeric/graphic trends
- Different screen layouts such as Standard, Loops, Large Font etc.
- Besides volume and pressure controlled ventilation, there are SIMV, Pressure Support (PSV) modes which can assist in patient weaning once the operation has ended
- Minimum TV down to 20ml suitable for patients of any age, from infant to adult, by only one bellows
- Tidal volume compensation and electronic PEEP automatically compensates for fresh gas flow, system leak and the compliance change in the circuit
- The ascending bellows can provide immediate visual information on the adequacy of fresh gas flow and gives indication if there is any system leak
- Pneumatically driven and electronically controlled ventilator
- Cardiac By-pass mode
- Integrated pressure, volume and oxygen monitoring
- Fresh gas & compliance compensation
- Suitable for patients ranging from pediatric to adults
- Various ventilation modes: VCV, PCV, SIMV-V, SIMV-P, PSV, PRVC, SPONT & Manual
- Compressor for driving the ventilator electrically (Optional)

Sophisticated Monitoring

Respiratory parameter monitoring;

- Resistance (R), compliance(C), PEEP, I:E
- Optional: SpO₂, PR
- Optional: CO₂, N₂O, Anaesthetic agent

Waveform: pressure-time, flow-time, volume-time,

- Optional: SpO₂-time, CO₂-time

Loop: volume-pressure, flow-volume, flow-pressure

- Optional: VT-CO₂

Integrated Circle Absorber Breathing System

- Fully autoclavable at 134°C and latex free
- Automatic absorber heating technology to avoid water condensation
- Automatic absorber By-pass to change soda lime during surgery
- Single canister system
- Integrated bag/vent switch for automatic changeover from manual to mechanical ventilation
- Integrated pressure manometer, calibrated APL valve, O₂ sensor port
- Easily removable without use of any tool.



Single Canister System

Powerful Extended Functions (optional)

- Plug-in anaesthetic agent modules (mainstream/ sidestream); 5 anaesthetic agent + CO₂ + N₂O automatic agent curve
- Anaesthetic agent, para-magnetic oxygen monitoring module could be chosen for highly accurate monitoring
- Plug-in CO₂ module (mainstream/sidestream) for inspiratory and expiratory monitoring
- Neuromuscular Monitoring Module
- Plug-in SpO₂ module
- Active Anaesthesia Gas Scavenging System



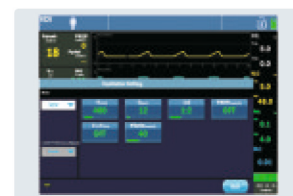
Ventilator Screen



Main Display Screen



Self Test Screen



Ventilation Setting Screen to Set the Mode & Parameters of ventilation



Startup Screen to show and set patient category Patient weight can also be entered to calculate Tidal Volume



Monitored Value Screen to Display various Monitored Values of different parameters



Alarm Setting Screen for user to define various Low & High limits for alarms



System Setting Screen for Setting current date, time, waveform, configuration, calibration

Technical Specifications

Ventilation mode	VCV, PCV, SIMV-V, SIMV-P, PSV, PRVC, SPONT & Manual
Tidal Volume (VT)	20–1500 mL
Frequency (f)	1–100 bpm
I:E Ratio	4:1–1:10 (increment: 0.5)
Inspiratory time	0.1–10s (increment: 0.1s)
Inspiratory Pause (Tip:Ti)	OFF, 5%–50%
PEEP	Integrated electronic PEEP OFF, 4–30cmH ₂ O
Flow Trigger (F _{TRIG})	1–15 L/min
Pressure Control	5–70 cmH ₂ O
Pressure Support	5–60 cmH ₂ O
Pressure Limit	(PEEP+5)–70 cmH ₂ O
Peak Flow	> 120 L/min
Vaporiser Mounting	2 positions, selectatec mounting system, optional 3rd parking position
Gas Supply	Pipeline: O ₂ , N ₂ O, Air. Cylinder : O ₂ , N ₂ O (Optional)
Pressure Gauge	Pipeline pressure gauges and Cylinder pressure gauges
Flow Meter	Choice of Electronic Flow meter or traditional rotameters
APL Valve	2–70 cmH ₂ O
CO ₂ Canister Volume	1.5 Kg
By-pass	Automatic; change soda lime during operation
Bag/Vent switch	Switch for manual ventilation and mechanical ventilation
ACGO connector	22 / 15mm
Anaesthetic agent monitoring (Optional)	5 Anaesthetic agents +N ₂ O+CO ₂ automatic identification and concentration monitoring (main-stream or side-stream)
FiO ₂	Standard chemical oxygen sensor; optional para-magnetic oxygen sensor
CO ₂ (Optional)	CO ₂ modules (main-stream or side-stream)
AIMS (Optional)	Anaesthesia Information Management System with 17" Screen & Software
SpO ₂ module (optional)	Plug-in SpO ₂ module
Waveform	Pressure-time, Flow-time, Volume-time Optional: SpO ₂ -time, CO ₂ -time, FiO ₂ -time, Anaesthetic agent-time
Loop	Pressure-volume, Flow-volume, Flow-pressure Optional: volume-CO ₂
Trend	P _{peak} -t, f-t, FiO ₂ -t, MV-t, PEEP-t, VT-t
Monitored Parameter	C, R, V _{TE} , V _{Ti} , MV, MV _{spn} , F, F _{spn} , I:E, P _{peak} , P _{mean} , P _{plat}
Physical Dimension in mm (H x W x D)	1570 x 880 x 1000
Storage	2 spacious drawers
Net weight	108 kg
Power	100 to 240 VAC, 50/60 Hz, 6.5A (Max.)
Battery	120 minutes
Communication Connector	VGA, RS232, RJ45, debugging interface

Ordering Information

Option 1	Galaxy ^{PLUS} with Virtual Flowmeter
Option 2	Galaxy ^{PLUS} with Mechanical Flowmeter



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