

STERNMED[®]



Avacs 50

Anesthesia unit



www.sternmed.de

STERNMED®



POWERFUL FEATURES

- Applicable to pediatric and adult
- Various ventilation modes
- Highly integrated absorber
- The absorber could be automatically heated, to avoid water condensation.
- Proportional valves Technology.
- Close-loop control
- 3-level graded And color coded alarms for different risks
- Electronic flow meter with High accuracy
- Various ventilation modes

Avacs 50

Anesthesia unit

Avacs 50 is a versatile and advance anesthesia unit for adult, pediatric and infant application equipped with sophisticated built in ventilator .

NAVIGATING MONITOR

- 15inch touch screen
- Navigation wheel for simple operation.
- Sophisticated monitoring
- Anesthesia information management system (optional)



VAPORIZERS

- Penlon vaporizer with automatic compensation for temperature, pressure and flow
- Two Vaporizer positions to ensure anesthetic accuracy.
- Vaporizer Mount Selectatec® 2 position either Drager mount or selectatec



FLOWMETERS

- Electronic flow meter with High accuracy
- Total fresh gas flow meter 0-15 L/min with a mixture of O₂, N₂O and Air



SCAVENGING SYSTEM

- Anesthetic gas scavenging system (AGSS) active system (optional)



OPTIONS

- Yoke system
- AGSS active system
- SpO₂ module
- CO₂ module
- Mainstream gas module
- Paramagnetic Module
- Different Vaporizers
- LCD Arm with Monitor Bracket
- Patient data management system



- Ventilator E-vent Electronically controlled, pneumatically driven
- Operating Modes VCV, PCV, SIMV(V)+PS, SIMV(P)+PS, Sigh, Cardio pulmonary
- bypass, Spont/CPAP, PRVC, Standby, Manual
- Range of fresh gas flow indicators 0-15 l/min
- Total fresh gas flow meter 0-15 L/min with a mixture of O₂, N₂O and Air

- Continuous monitoring of aspiratory O₂ concentration, breathing frequency, tidal volume, minute volume, mean or plateau pressure, information is displayed in numbers
- VGA, RS232, RJ45, Debugging communications interface
- Volume of CO₂ absorber 1.5 liter
- Volume of entire compact breathing system 2 liter + bag
- Battery (supports ventilator and monitor) Minimum 60 minutes

TECHNICAL SPECIFICATIONS

Avacs 50 | SternMed anesthesia unit

Weight (base unit without vaporizers or cylinders)	108 kg
Dimensions (W x H x D)	1515 x 1000 x 690 mm
Power supply	100-240VAC, 50/60Hz, 6.5A(Max)
Battery (supports ventilator and monitor)	Minimum 60 minutes
Ventilator E-vent	Electronically controlled, pneumatically driven
Operating Modes	VCV, PCV, SIMV(V)+PS, SIMV(P)+PS, Sigh, Cardio pulmonary bypass, Spont/CPAP, PRVC, Standby, Manual
Breathing frequency	1-100bpm
Max. Minute volume (MV)	99 l/min (monitoring), 30L/min (setting)
Positive end-expiratory pressure (PEEP)	OFF, 4-30 cm
Inspiration / Expiration ratio (Ti:Te)	4:1-1:9 (increment:0.5)
Pressure limiting (Pmax)	PEEP+5-PEEP+70 cm H ₂ O
Tidal Volume (Vt)	20-1500ml
Inspiratory pause (Tip:Ti)	OFF, 5%-50%
SIMV Inspiratory time (T _{insp})	0.1-10S (increment:0.1S)
Inspiratory pressure (P _{insp})	PEEP+5-PEEP+70 cm H ₂ O
Inspiratory flow (InspFlow)	10-80 L/min
Pressure Support Level (PPS)	5-60 cm H ₂ O
Min. Frequency for and "OFF" Apnea-Ventilation (Freq.Min.)	1-100 bpm
Trigger	1-15L/Min
Integrated safety functions guarantees	Auto oxygen monitoring, manual oxygen setting a minimum O ₂ concentration of 22%-35% in an O ₂ /N ₂ O mixture. N ₂ O cut-off if O ₂ fresh gas valve is closed or if O ₂ flow is less than 0.2 L/ min. N ₂ O auto cuts off when O ₂ press lower than 20 psi. in case of electricity failure, manual ventilation or battery supply. Gas delivery and agent delivery are possible. Positive pressure relief valve opens at 70cm H ₂ O, Negative pressure relief valve opens at - 7.5 to - 9 cm H ₂ O
Range of fresh gas flow indicators	0-15 l/min
Total fresh gas flow meter	0-15 L/min with a mixture of O ₂ , N ₂ O and Air
O ₂ flush (2.8 bar): min 25 L/min	75 L/min at 41 psi
Vaporizer Mount Selectatec®	2 position either Drager mount or selectatec
Monitoring	Continuous monitoring of aspiratory O ₂ concentration, breathing frequency, tidal volume, minute volume, mean or plateau pressure, peak airway pressure as well as PEEP. In addition, all fresh gas flow information is displayed in numbers
Serial interface	VGA, RS232, RJ45, Debugging
Protocols	No protocols
Data available for export	Alarm history + parameter setting
Volume of CO ₂ absorber	1.5 liter
Volume of entire compact breathing system	2 liter + bag



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