



PAEDIATRIC ANAESTHESIA VENTILATOR

Description :

PAEDIATRIC ANAESTHESIA VENTILATOR SIATRON 1100 A

Complete with:

- 1 stainless steel supporting arm with two articulations (06750/SB)
- 1 To And Fro patient circuit
- 1 O2 supply hose
- 1 N2O supply hose
- 1 Air supply hose

- 1 Siaretex base for quick Connection of vaporizers
- 1 Selectatec/Interlock compatible.
- 1 Fluo-halotane vaporizer.

- 1 O2 probe
- 1 Power supply cable 220V/50Hz
- 1 Silicone adult patient circuit for open circuit
- 1 User Manual



Option :

- Passive or active scavenger
- Electronic humidifier



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TECHNICAL DATA SHEET

SIARETRON 1100A LUNG VENTILATOR (

Application	Anaesthesia
Patients	Children / Newborns
Ventilation Type	IPPV (Time and Pressure Cycled)
Control Modality	Electronic by microprocessor
Flow Generation	Continuous with proportional valves with electronic flow control for each gas
Mixing Device	Electronic Selecting Valve by a lever on the front panel for selection of oxygen-air or oxygen-nitrous oxide mixtures. Setting of O ₂ concentration and consequent setting of Air or Nitrous Oxide concentration
Medical gas supply	OXYGEN: Pressure 3.5 bar +/- 0.75 – Max requested flow 90 l/min. NITROUS OXIDE: Pressure 3.5 bar +/- 0.75 – Max requested flow 15 l/min. COMPRESSED MEDICAL AIR: Pressione 3.5 bar +/- 0.75 – Max requested flow 90 l/min
Control pressure gauges	N. 3 – Scale 0 - 10 bar / 0 - 130 Psi (O ₂ -N ₂ O-AIR) – On the front panel
Safety Devices	AGAINST THE ADMINISTRATION OF HYPOXIC MIXTURES MIX-LIFE: Guarantees a minimum concentration of 30% oxygen on mixes that include nitrous oxide. IN CASE OF LACK OR LOW OXYGEN PRESSURE CUT-OFF: Audible alarm with immediate cut-off of nitrous oxide irrigation. IN CASE OF LACK OR LOW COMPRESSED AIR PRESSURE All the devices supplied with compressed air are automatically supplied by oxygen (except the flowmeter) AGAINST THE CONTEMPORANEOUS IRRIGATION OF AIR AND N₂O Selecting valve on the front panel
Deviator with double fresh gas outlet	Device to deviate the fresh gas addressing them to valves group of anaesthesia unit or to a To-and-Fro patient circuit for manual ventilation
Auxiliary gas outlets (3.5 bar +/- 0.75)	. N. 1 emergency oxygen . N. 1 air compressed/oxygen for active gas scavenger (if present) . N. 1 air compressed/oxygen for tracheal aspirator (if present)
O₂ Emergency By - Pass	by push button. On the front panel
Fresh gas outlets	N. 1 - Internal for the Breathing System N. 1 - On the back panel for TO-and-FRO circuit selectable by dedicated lever on the front panel
Patient circuit type	Open – Double tube
Ventilation Modes	AUT TIME CYCLED/ AUT PRESS.CYCLED/ SPONT. SIMV / CPAP / PEEP
Measured Parameters	O ₂ Concentration / Instant airway Pressure and Max or Medium
Breathing Frequency	From 5 to 140 bpm
I:E Ratio	1:1 -1:1.5 - 1:2 -1:3 -1:4 - 2:1 - 3:1 Settable by inspiratory time
Inspiratory time	20 - 25 - 33 - 40 - 50 - 67 - 75% of breathing cycle
SIMV Frequency	From 0 to 139 bpm
Tidal Volume	From 10 to 400 ml
Minute Volume	From 0.2 to 7.5 liters



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PEEP	From 0 to 20 cm H ₂ O adjustable			
Inspiratory flow	From 0.5 to 15 liters/min.			
Mixer	From 21 to 99% O ₂ adjustable with 1% resolution with selection of air-oxygen mixtures. From 30 to 99% O ₂ adjustable with 1% resolution with selection of nitrous oxide-oxygen mixtures			
Oxymeter	Integrated with displayed concentration. 1% minimum resolution. Automatic calibration procedure.			
Bronchomanometer	Electronic by led bar and display from -20 to 80 cm H ₂ O			
Trigger (sensitivity)	Electronically adjustable from -9 to +20 cm H ₂ O with step of 1 cm H ₂ O			
Alarms	Power failure / Low Battery / Gas supply / High O ₂ concentration / Low O ₂ concentration / Low airways pressure / Apnea / Airways pressure limit / During autodiagnosis phase the machine indicates eventual failures or wrong connections, the exhaust O ₂ sensor replacement is suggested, and every 800 hours operation a maintenance is also suggested.			
Electric power supply	220 Vac 50 ÷ 60 Hz / 12 Vdc (110Vac upon request)			
Power consumption	30 W			
Electric power consumption	0.15A @ 220V (0.3A @ 110V)			
Battery operation	With Pb internal battery (approx. 2 hours operation) rechargeable.			
Safety devices	Electronic and mechanic airways pressure limit. Autodiagnosis system.			
User's Interface	LED display / Bronchomanometer with led bar / Other LED indications / Control buttons and knobs.			
External Connections	Signals outlet connector for RM3000 Breathing Monitor and connector for oxygen probe. RS-232 serial interface. Gas: Air/ Oxygen			
Dimensions	44 x 32 x 25 cm (L x P x H)			
Weight	8 Kg			
Trasportability	Handles on lateral sides			
Conformity to Norms		Internationals	Nationals	Internation.
	Generals	IEC 601-1	CEI 62-5	
	Anaesthesia Machines	IEC 601-2-13	CEI 62-21	
	Lung Ventilators	IEC 601-2-12	CEI 62-20	ISO 5369
Electromagnetic Compatibility (EMC)	Internationals	Nationals		
	IEC 601-1-2 : 1993	CEI EN 60601-1-2 : 1993		
Class and type	Class 1 Type B			
Environmental Conditions	Temperature from 10 to 40°C – Relative humidity from 10 to 90% non condensing			