



Technical data sheet

SIRIO PLUS

Lung ventilator for emergency,
transport and intensive care

code: 09439

rev. 4 - 10/04/2005



Dimensions (W x H x D)	360 x 180 x 220mm (H = 250 with handle)
Weight	4,9 Kg
Relative humidity (use)	30 – 95% RH
Protection level	IP 54
Air navigability	according to RTCA 160 D

TECHNICAL DETAILS

Functioning principles	Time cycled and constant volume Pressure cycled Microprocessor controlled flow Spontaneous breathing with integrated valve
Ventilation modes	IPPV, IPPV+AST, SIMV, CPAP, PSV, PCV, Apnoea back-up, manual breathing.
CPR mode	Pressure limited ventilation and non-constant volume (the airways pressure is limited but the volume is delivered during all the inspiration time)
Breathing frequency	From 5 to 140 R/min
Tidal Volume	From 0.1 to 1,5 L

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I:E Ratio	From 1:4 to 3:1
Inspiratory Time	From 20 to 80 %
Inspiratory pause	From 0 to 50% of the inspiratory time
Inspiratory pressure limit	From 5 to 80 mbar
PEEP	From 0 to 20 mbar
Minute volume with 1:2 I/E ratio	From 1 to 25 L/min.
O2 Concentration	Settings from 21 to 99% (with O2 only source from 48 to 99%)
Trigger (sensitivity)	from 1 to 9 mbar under PEEP level
Max. inspiratory flow	About 120 L/min.
Flow measurement range	From 1 to 120 L/min.
Pneumatic supply	From 2,7 to 6 bar, O2 air
Patient Circuit	Non-Rebreathing

GAS CONSUMPTION

Control	About 1 L/min.
Minute Volume (with 50% O2 mixer)	40% of the minute volume set
Minute Volume (without air mixer)	100% of the minute volume set

MONITORING

The measured parameters are displayed on back-illuminated LCD monitor and divided into 4 pages	Flow, Max. pressure, Mean, PEEP, Insp. time, Exp. Time, Breathing frequency, Exp minute volume, Exp. Tidal volume
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ALARMS

Low gas supply	The alarm occurs when the supply gas pressure is under 2 bar
High Paw	The alarm occurs when the pressure limit set is joined
Low Paw	The alarm occurs if the low limit is not joined
Leak - Low expired volume	The alarm occurs if the expired volume is lower than the set one
High expired volume	The alarm occurs if the expired volume is lower than the set one
Apnoea	The alarm occurs in absence of breathing activity (the Apnoea back-up safety system intervenes)

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High Frequency	The alarm occurs if the measured frequency is higher than the set one
Power failure	Electric power failure alarm
Low Battery	The alarm occurs if the battery voltage is lower than 10.5Vdc

POWER SUPPLY

Electric power	From 11 to 14 Vdc when supplied with a vehicle source or 230Vac if used with the supplied feeder
Internal electric power	12Vdc battery
Autonomy	3 hours max. (9 hours with the optional Long Life Pack module)
Charging time	About 10 hours

CONFORMITY TO NORMS

Class and type according to IEC 601-1	Class 1 Type B
Class according to 93/42 CEE directive	Class IIb
ISO 5369, ISO 5356, EN 1281-1, CEI-62-5, IEC 601-1, CEI 62-20, IEC 601-2-12, CEI 62-50, IEC 601-1-2, 93/42/CEE, DIR 89/336, EN 794-3, CEI 64-4, IEC 601-1-4, NF S 90-118	

ACCESSORIES

Supplied Accessories	<ul style="list-style-type: none">• O2 tube (code G60005100)• AIR tube (code: G60007100)• Feeder 220 Vac - 12Vdc (code: G30178000)• Power supply cable 12 Vdc (code: G30147100)• Disposable coaxial patient circuit (code: A36.049006)• User's manual
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Optional Accessories

- Support for ventilator with housing for cylinder
- Water proof 3 sections washable bag
- Long Life Pack battery module 9 hours
- 2 lt. light alloy O2 cylinder
- Pressure reducer with manometer and additional outlet
- Trolley
- Stainless steel patient circuit supporting arm
- Disposable coaxial patient circuit
- Silicone patient circuit for adults
- Silicone patient circuit for paediatric
- Other emergency accessories (please, refer to SIARE catalogue)