



LUNG VENTILATOR WITH BUILT-IN PEEP FUNCTION

# SIRIO S2/T

## MAIN FEATURES

- Compact and lightweight pulmonary ventilator designed to provide safe and effective respiratory support during pre-hospital transport and intra-hospital emergencies.
- Suitable for adult, paediatric and neonatal patients (body weight > 3 kg).
- Intuitive interface for rapid setting of selected parameters via rotary knobs and switches.
- Wide range of therapeutic options and delivery of volume-controlled, pressure-limited ventilation in both invasive and non-invasive modes.
- High performance with multiple ventilation modes including CPAP, PSV, Apnoea Back-up, AUT-AST and PEEP.



0476 Class IIb medical device compliant with MDR (EU) 2017/745




MANUFACTURED BY SIARE ENGINEERING INTERNATIONAL GROUP S.P.A.

- Standards compliant  EN 1789:2007+A2:2014  D.LGS 49/2014 RAE AND SUBSEQUENT MODIFICATIONS AND INTEGRATIONS
- EN 60601-1:2006/A1:2013  EN 60601-1-2:2015  IEC 60601-1-6:2013  EN 60601-1-8:2007/A11:2017
- EN 62304:2006/AC:2008  EN 794-3:1998+A2:2009  DIR. 2011/65/CE  D.LGS 49/2014
- DIR. 2011/65/UE ROHS 2 AND SUBSEQUENT MODIFICATIONS AND INTEGRATIONS  DIR. DELEGATED UE 2015/863 ROHS 3 AND SUBSEQUENT MODIFICATIONS AND INTEGRATIONS

**SIRIO S2/T** is a medical device intended for the ventilation of adult, paediatric and neonatal patients (Min. body weight 3 kg). It is designed for use in healthcare facilities, emergency medical services, and during both intra-hospital and extra-hospital transport.

The adjustable respiratory parameters include pressure limit, respiratory rate, PEEP and minute volume, allowing ventilatory support to be tailored to the patient's clinical needs.

**TECHNICAL DATA**

Code	EV20400
Dimensions	23 x 13 x h15 cm
Weight	3,5 kg
Colour	
Electric power supply	12Vdc or feeder: 100 - 240 Vac / 12Vdc
Power consumption	4,5 W
Current consumption	0,4 A - 12Vdc
Standard internal battery	One battery Pb (12V – 1,3Ah)
Internal battery operation (standard)(1)	7 hours (Tolerance ±15%)
Battery re-charging time (standard)	8 hours
Pneumatic supply (O <sub>2</sub> )	Oxygen: the gas pressure should be included between 280 kPa and 600 kPa (2,8 - 6 bar / 40 - 86 psi)
Max. flow requested	40 l/min
Estimated time to deplete a cylinder (2)	2 litres of O <sub>2</sub> : 100 minutes 3 litres of O <sub>2</sub> : 150 minutes
Patient connections	Male conic connector 22 mm / Female of 15 mm (according to EN ISO 5356-1:2015 norm)
Flow generation	Venturi system
IP degree of protection	IP44

**Notes:** Dimensions and weight are subject to tolerances of ±0.5 cm and ±1 kg, respectively.

(1) Battery life is indicative and measured in AUT-AST mode with the following settings: pressure 10 cmH<sub>2</sub>O, PEEP OFF, rate 15 bpm, tidal volume 9 l/min.

(2) Cylinder duration is theoretical, based on a cylinder charged to 200 bar. Duration is indicative and measured in AUT-AST mode with the following settings: pressure 20 cmH<sub>2</sub>O, PEEP OFF, rate 15 bpm, tidal volume 7 l/min, FiO<sub>2</sub> 50%.

**ENVIRONMENTAL CONDITIONS**

Operation	
Relative humidity	15 - 95% non-condensing
Temperature	from -10 to +40°C
Atmospheric pressure	600hPa -1200hPa
Storage	
Relative humidity	< 95% non-condensing
Temperature	from -25 to +70°C
Atmospheric pressure	200hPa -1200hPa

## LUNG VENTILATOR FUNCTIONAL FEATURES

Type of ventilation	Volumetric IPPV - Pressure limited time cycled IPPV
Control modality	Electronic
Pressure automatic compensation (altitude)	Present
Respiratory parameters default setting	The trigger is reset every time the device is turned off. Default -1cmH <sub>2</sub> O
Ventilation modes	AUT + AST / PSV + APNOEA BACK UP / PEEP / CPAP
Breathing rate	From 5 to 70 bpm
Max-Min Inspiratory Time / Expiratory Time (4)	Insp Time: from 0,343 to 4,8 Exp Time: from 0,514 to 7,2
Tidal volume	From 15 to 3000 ml
Minute volume	From 1 to 16 l/min
I:E ratio	1:1.5
Inspiratory pause	Automatic setting during PSV mode
Pressure support ventilation	Adjustable from 0 (SPONT.) to 50 cmH <sub>2</sub> O
Pressure limit	Adjustable from 0 to 50 cmH <sub>2</sub> O
PEEP	Adjustable from 0 to 20 cmH <sub>2</sub> O
Flow trend	Constant and decreasing (PSV)
O <sub>2</sub> concentration	50% O <sub>2</sub> or 100% O <sub>2</sub>
Trigger detective method	Through pressure transducer
Pressure trigger ( I )	Adjustable from -1 to -5 cmH <sub>2</sub> O
Inspiratory flow (FLOW)	Max 40 l/min
Patient circuits	Single hose with exhalation valve

**Note:** (4) Determined by Respiratory Rate.

## ALARMS

Remaining battery level from 100% to 51%	Green LED
Remaining battery level from 50% to 26%	Yellow LED
Remaining battery level from 25% to 0%	Red LED
O <sub>2</sub> Supply	Low gas supply pressure
High PAW	High airway pressure. Higher than 55 cmH <sub>2</sub> O
Low PAW / Apnea	Low airway pressure. Lower than 8 cmH <sub>2</sub> O
Power failure	Indicates that the device is disconnected from the mains supply

## THE PRODUCT INCLUDES

- Battery charger
- 12 V DC power cable
- Oxygen tubing
- Single-use PVC patient circuit with expiratory valve

## ACCESSORIES

- EV20433 Single-use adult/pediatric patient circuit for Sirio with expiratory valve (160 cm)
- EV20435 O<sub>2</sub> connector AFNOR
- EV20436 O<sub>2</sub> connector UNI
- Additional battery pack (12 h autonomy)

## FASTENING SYSTEMS REQUESTED



EV20431

### QUICK-RELEASE 10G PLATE

for wall mounting of the tubular support.

Dimensions: 21 x h40 x 10 cm.

Weight: 1,7 kg.

Material: Lightweight aluminium alloy.



EV20430

### TUBULAR SUPPORT

for transporting a mechanical ventilator and a 2 L oxygen cylinder, with a Cordura bag.

Dimensions: 45 x h41 x 35 cm.

Weight: 3,9 kg.

Material: Steel.

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