SLE1000 Adaptive nasal CPAP Therapy System





The SLE1000 sets a new standard in noninvasive CPAP therapy

- Servo-controlled flow assures more comfortable support to the baby
- Integrated apnoea monitoring
- Full range of graded alarms a smart alarm system automatically adjusts primary parameters
- Automatic leak compensation
- Electronic Oxygen blending and flow control
- Automatic Oxygen calibration reduces set-up time and gives accurate and reliable FiO, readings
- Long life integral battery (up to 4 hours)

The smallest thing does matter...

Thankfully, not every baby needs ventilating. However, a huge number of babies born every year need some sort of support to help them through the first days of life ⁽¹⁾.

CPAP ventilation has been shown to reduce the work of breathing and can facilitate early weaning. That's why SLE has produced the SLE1000 nasal CPAP Driver.

More control

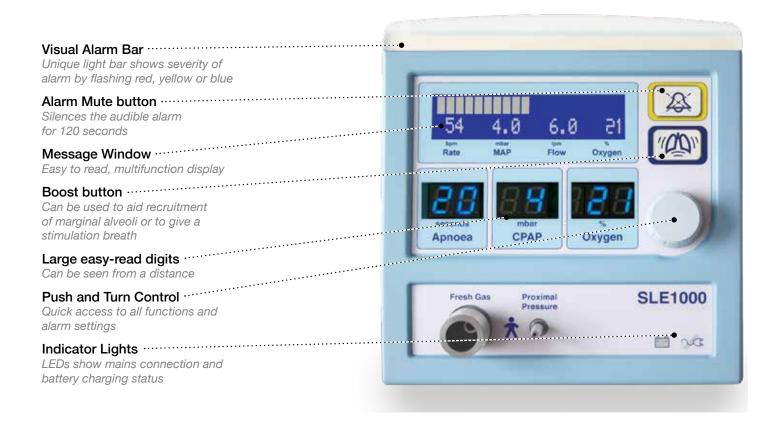
Unlike conventional CPAP drivers, where the carer has to monitor the pressure and continuously adjust the flow to compensate for leaks or movement, the SLE1000 allows the carer to set the desired pressure, and intelligent software continuously adapts the flow to maintain this pressure. This servo-controlled flow helps with the elimination of over and underpressure conditions caused by leaks and baby movement and means that the baby is more effectively supported.

The addition of a 'boost' button also allows for extra control during CPAP. Pushing the boost button gives an additional 3 mbar of pressure (~ 3 l/ min of flow) and can be used to aid alveolar recruitment or to stimulate an apnoeic baby.

Flow Control

The SLE1000 also features a 'Flow Mode' for users who prefer manual setting of flows.

A simple turn and click of the Control knob allows the user to switch to Flow Mode giving complete manual control over the flow the baby receives.



Clinical Education

We know that a CPAP Driver is a vital part of your equipment and that you need to feel comfortable using it. That's why we employ experienced Clinical Specialists in our Clinical Education Department.

These Specialists support our worldwide network of distributors and can help you become more familiar with your SLE products.

Ordering details

The SLE1000 is available in a variety of packages to suit individual customer requirements.

The standard SLE1000 is available with a bespoke trolley including a drip pole and humidifier mount.

SLE and your local representative can also supply humidifiers, flow generators, circuits, bonnets and all other CPAP accessories.

Please see your SLE representative for further specifications and a detailed quotation.

REFERENCES

 Neonatal nasal intermittent positive pressure ventilation: what do we know in 2007?
Louise S Owen, Colin J Morley, Peter G Davis Arch Dis Child Fetal Neonatal Ed 2007;92:414-418.

The SLE1000 on trolley



Settings

CPAP pressure	
Flow:	
Apnoea time:	
FiO ₂ :	
Boost button:	

2 – 12 mbar* 4 - 14 l/min 5 – 90 sec, OFF 21 – 100% CPAP + 3 mbar Max 30 sec

Monitoring

Mean airway pressure: $0 - 20 \text{ mbar}^*$ Oxygen concentration: $21 - 100\% \pm 5\%$ Breath rate: 0 - 150 BPMFlow: 0 - 20 l/minPressure Cycle Indicator Breath detection indicator Alarm mute/pre-mute: 120 sec

Alarms if fresh gas flow is <5 l/min or if CPAP is unattainable (e.g. Due to excessive leak)

Over-pressure safety cut-out and exhaust, if pressure exceeds 15 mbar.

Power Requirements		
Voltage :	100 – 240 V	
_	50 – 60 Hz	
Power :	115 VA	
Battery back up:	Up to 4 hours	
Battery charging:	Full charge – up to 8 hours	
Outputs		
Pressure mode:	2 – 15 l/min	
Flow mode:	4 – 14 I/min	
RS232 Serial Port		
Air and O ₂ input		
Pressures:	2.0 – 7.0 bar	
Peak inlet gas flow:	20 l/min	
Operating Environment		
Temp:	10 – 40 °C	
Humidity:	0-90%	
	(non-condensing)	
Dimensions		
	100 100 10/ 1/	

Size, ventilator only:	180 mm W x
	180 mm H x
	180 mm D
Height on stand:	132 cm
Weight, Driver only:	5.5 kg

Designed and manufactured to conform to all relevant international standards for medical devices. Data subject to change without notice.

* Available in cmH₂O in certain markets.

SLE is a world leader in the design and manufacture of neonatal ventilators.

Years of ventilation experience have given the company an understanding of the challenges that nurses and clinicians are facing when caring for the tiniest and most critical babies.

From being the pioneers of neonatal Patient Triggered Ventilation (PTV) in the 1980's, to the introduction of combined HFO (High Frequency Oscillation) in the 1990's, and the design of the first touch-screen Neonatal Ventilator in the 2000's, SLE has maintained a position of strength in neonatal ventilation.

The company's guiding principle is to support clinical and nursing staff in their everyday work.

The knowledge and experience gained during years of development is evident in the SLE5000 ventilator: the result of SLE's ongoing commitments to innovation, competency and care.



SLE Limited. Twin Bridges Business Park, 232 Selsdon Road, South Croydon Surrey CR2 6PL UK Telephone:+44 (0)20 8681 1414 • Fax: +44 (0)20 8649 8570 E-mail: sales@sle.co.uk • Web: www.sle.co.uk