

SLE1000

Adaptive nasal CPAP
Therapy System



When the smallest thing matters

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_2 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 under-pressure 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.

Visual Alarm Bar

Unique light bar shows severity of alarm by flashing red, yellow or blue

Alarm Mute button

Silences the audible alarm for 120 seconds

Message Window

Easy to read, multifunction display

Boost button

Can be used to aid recruitment of marginal alveoli or to give a stimulation breath

Large easy-read digits

Can be seen from a distance

Push and Turn Control

Quick access to all functions and alarm settings

Indicator Lights

LEDs show mains connection and battery charging status



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 world-wide 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.

Quick & Easy



The SLE1000
on trolley

Settings

CPAP pressure:	2 – 12 mbar*
Flow:	4 - 14 l/min
Apnoea time:	5 – 90 sec, OFF
FiO ₂ :	21 – 100%
Boost button:	CPAP + 3 mbar Max 30 sec

Monitoring

Mean airway pressure:	0 – 20 mbar*
Oxygen concentration:	21 - 100% ± 5%
Breath rate:	0 - 150 BPM
Flow:	0 - 20 l/min
Pressure 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 l/min
RS232 Serial Port	

Air and O₂ 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

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

REFERENCES

(1) 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.

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