

Adaptive Nasal CPAP Therapy System

SLE1000



SLE

When the smallest thing matters

Quick & easy

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].

The SLE1000 sets a new standard in non-invasive 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)

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.

Servo Controlled

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.

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

Message Window
Easy to read, multifunction display

Easy-read digits
Can be seen from a distance

Indicator Lights
LEDs show mains connection and battery charging status



Alarm Mute Button
Silences the audible alarm for 120 seconds

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

Push and Turn Control
Quick access to all functions and alarm settings

Control - when you need it

Clinical Support

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, basket, hose hook and Medi-rail.

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



▶ **Settings**	
CPAP pressure	2 to 12 mbar*
Flow - pressure mode	2 - 15 l/min
Flow - flow mode	4 - 14 l/min
Apnoea time	5 - 90 s, OFF
FiO_2	21 to 100%
Boost button	CPAP +3 mbar Max 30 s
▶ **Monitoring**	
Mean airway pressure	0 - 20 mbar*
Oxygen concentration	21 - 100%
Breath rate	0 to 150 BPM
Flow	0 to 20 l/min
Alarm mute/pre-mute	120 s
User settable apnoea	5 - 90 s, OFF
Pressure cycle and breath detection indicators	
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 O_2 input**	
Pressures	2.0 - 7.0 bar
Peak inlet gas flow	20 l/min
▶ **Operating Environment**	
Temp	10 - 40 ºC
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
The SLE1000 conforms to all relevant international standards for medical devices. *Data subject to change without notice.* **Available in cmH_2O in certain markets.*	

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.

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