

SLE1000

Adaptive nasal CPAP
Therapy System



When the smallest thing matters

SLE1000 - A breath of fresh air

The SLE1000 sets a new standard in noninvasive CPAP therapy

- ✓ **Easy-set controller gives access to all user-settable parameters**
- ✓ **Servo-controlled flow assures more comfortable support to the baby**
- ✓ **Integral apnoea monitoring**
- ✓ **Full range of graded alarms - 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 FiO₂ readings**
- ✓ **High visibility display and 360° alarm bar**
- ✓ **Fewer nuisance alarms**
- ✓ **Helps maintain alveolar recruitment**
- ✓ **Long life integral battery (minimum of 4 hours)**
- ✓ **Swivel gas inlet for a variety of mounting options**
- ✓ **Boost button - Can be used to aid recruitment of marginal and unstable alveoli or to give a stimulation breath.**

The smallest thing does matter...

Thankfully, not every baby needs ventilating. However, a huge number of babies born every year need some sort of gentle 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.

Developed in cooperation with nurses and physicians, the SLE1000 incorporates a range of 'must have' features that set entirely new standards in neonatal CPAP drivers.

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 and can be used to aid alveolar recruitment or to stimulate an apnoeic baby.

Versatile



If you prefer to mount your CPAP machine on a drip pole or in an area where rear space is limited, the SLE1000 incorporates a swivelling input block that allows the rear hoses to connect either vertically or horizontally. Not only does this save space but it can also mean less hose clutter.

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.



Customer Support

Throughout the 50+ year history of SLE, the company has always put customers and patients first.

We believe that developing life-support equipment should not be taken lightly, and that only the highest quality engineering is acceptable for our products.

Downtime is undesirable in the modern NICU. Logical product design means that routine servicing can be carried out quickly and effectively.

Our teams of qualified engineers support our distributors and end-users world-wide to ensure that your SLE product is always available for optimum performance.

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.

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.

Ordering details

Z1009/001/0UK	SLE1000 Kit
<i>consisting of:</i>	
1 x Z1009/000/0UK	SLE1000
1 x L1009/011/000	Start-up kit
1 x L1009/014/000	Trolley

Individual components

Z1009/000/0UK SLE1000
*Complete with: integral water trap, mains lead, air/oxygen hoses** and user manual.*

L1009/011/000 Start-up kit
consisting of:
2 x Sample nCPAP circuits with SLE1000 nCPAP Generators
1 x Sample set of 4 caps (size 00, 1, 3, 5)

L1009/014/000 Medicart 4 Trolley
Complete with: 4 castors (2 locking), handle, accessories basket, drip pole, and humidifier mount.

Alternative mountings for SLE1000

L1009/013/000	Medirail clamp for SLE1000
L1009/012/000	Pole clamp for SLE1000

Humidifiers

Z1012/31
Fisher & Paykel MR850 Humidifier
for use with single-patient-use circuits

Z1002/31
Fisher & Paykel MR850 Humidifier
for use with reusable circuits

A complete range of accessories is available.

A drip pole (not shown) is supplied as standard.

Bonnets and circuits are available in a range of sizes and versions.

Please see your local Sales Specialist for further information.



Shown on Medicart 4

Settings

CPAP pressure:	2 – 12 mbar*
Apnoea time:	5 – 90 sec, OFF
FiO ₂ :	21 – 100%
Boost button:	CPAP + 3 mbar (~3 l/min)
Boost time-out:	30 sec

Monitoring

Mean airway pressure: 0 – 20 mbar*
Oxygen concentration: Within 3%
Pressure Cycle Indicator
Breath detection indicator
Breath rate: 0 - 200 BPM
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 or blockage)
Over-pressure safety cut out and exhaust if pressure exceeds 15 mbar.

Power Requirements

Voltage :	100-240 V 50-60 Hz
Power :	15 VA
Battery back up:	4 hours minimum
Battery charging:	Full charge - up to 8 hours

Outputs

Fresh Gas Flow:	2 - 15 l/min
RS232	

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, Driver only:	180 mm W x 180 mm H x 180 mm D
Height on stand:	132 cm
Weight, Driver only:	5.9 kg

Designed and manufactured to conform to all relevant international standards for medical devices.

** Available in cmH₂O in some markets.*

*** May not be included in certain markets. Please see your distributor for complete specifications.*

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

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

From being the pioneers of neonatal Patient Triggered Ventilation (PTV) in the early 1980's, to the introduction of combined HFO (High Frequency Oscillation) in the 1990'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 SLE1000 nasal CPAP System: the result of SLE's ongoing commitments to innovation, competency and care.



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