



SLE6000 Specifications

(V2.0.50 software)

The SLE6000 is a high-specification, compact infant ventilator that offers a range of conventional modes with additional options for non-invasive ventilation (NIV), high frequency oscillation ventilation (HFOV) and high flow oxygen therapy.

SpO₂ and etCO₂ monitoring options are supported with the addition of plug-in modules. OxyGenie (Auto O₂) can also be integrated.

Core Invasive Ventilation

► CPAP (Dual limb, ET)

Inspiratory Time (Ti)	0.1 to 3.0 s
CPAP	0 to 35 mbar
PIP	0 to 65 mbar
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
RR Backup	1 to 150 BPM
Rise Time	0 to 3.0 s
Trigger Sensitivity with flow sensor:	0.2 to 20 l/min
without flow sensor:	1 to 100%

► PTV & PSV (Dual limb, ET)

Respiratory Rate (RR)	1 to 150 BPM
Inspiratory Time (Ti)	0.1 to 3.0 s
PEEP Pressure	0 to 35 mbar
PIP Pressure	0 to 65 mbar
Volume Targeted Ventilation (VTV)	(Added with VTV module) 2 to 300 ml †
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
Rise Time	0 to 3.0 s
Trigger Sensitivity with flow sensor:	0.2 to 20 l/min
without flow sensor:	1 to 100%
Termination Sensitivity (% of peak insp flow) (PSV only)	5 to 50%

► CMV (Dual limb, ET)

Respiratory Rate (RR)	1 to 150 BPM
Inspiratory Time (Ti)	0.1 to 3.0 s
PEEP	0 to 35 mbar
PIP	0 to 65 mbar
Volume Targeted Ventilation (VTV)	(Added with VTV module) 2 to 300 ml †
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
Rise Time	0 to 3.0 s

► SIMV (Dual limb, ET)

Respiratory Rate (RR)	1 to 150 BPM
Inspiratory Time (Ti)	0.1 to 3.0 s
PEEP	0 to 35 mbar
PIP	0 to 65 mbar
Volume Targeted Ventilation (VTV)	(Added with VTV module) 2 to 300 ml †
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
Rise Time	0 to 3.0 s
P Support	0 to 65 mbar
Trigger Sensitivity with flow sensor:	0.2 to 20 l/min
without flow sensor:	1 to 100%
Termination Sensitivity (% of peak insp flow)	5 to 50%
Termination Sensitivity parameter is not shown when pressure support (P Support) is off.	

Core Non-Invasive Ventilation

► nCPAP D (Dual limb)

for passive nCPAP interfaces e.g. SLE Miniflow

Inspiratory Time (Ti)	0.1 to 3.0 s
CPAP	0 to 35 mbar
PIP	0 to 65 mbar
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
RR Backup	1 to 150 BPM
Rise Time	0 to 3.0 s
Trigger Sensitivity	1 to 100%

► NIPPV D (Dual limb)

Respiratory Rate (RR)	1 to 150 BPM
Inspiratory Time (Ti)	0.1 to 3.0 s
PEEP	0 to 35 mbar
PIP	0 to 65 mbar
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
Rise Time	0 to 3.0 s

Optional Ventilation Modes

► HFOV (Dual limb, ET)

Frequency	3 to 20 Hz
I:E Ratio	1:1 / 1:2 / 1:3
MAP	0 to 45 mbar
Delta P	4 to 180 mbar
VTV	2 to 50 ml †
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
Sigh RR	1 to 150 BPM
Sigh Ti	0.1 to 3.0 s
Sigh P	0 to 45 mbar

► HFOV+CMV (Dual limb, ET)

Respiratory Rate (RR)	1 to 150 BPM
Inspiratory Time (Ti)	0.1 to 3.0 s
Frequency	3 to 20 Hz
PEEP	0 to 35 mbar
PIP	0 to 65 mbar
Delta P	4 to 180 mbar
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
HFO Waveform	Oscillation on both high and low cycles or oscillation on low cycle only.
Oscillation pause	60 s

► nHFOV D (Dual limb)

for passive nCPAP interfaces e.g. SLE Miniflow

Frequency	3 to 20 Hz
I:E Ratio	1:1 / 1:2 / 1:3
Mean Airway Pressure	0 to 45 mbar
Delta P	4 to 180 mbar
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
Sigh RR	1 to 150 BPM
Sigh Ti	0.1 to 3.0 s
Sigh P	0 to 45 mbar

► nCPAP S (Single limb)

for active (fluidic-flip) nCPAP interfaces (e.g. SLE1000 generator or Infant Flow)

Inspiratory Time (Ti)	0.1 to 3.0 s
CPAP	2 to 15 mbar
PIP	2 to 25 mbar
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
RR Backup	1 to 10 BPM
Trigger Sensitivity	1 to 100%

► NIPPV Triggered (Dual limb)

for passive nCPAP interfaces e.g. SLE Miniflow

Respiratory Rate (RR)	1 to 150 BPM
Inspiratory Time (Ti)	0.1 to 3.0 s
PEEP	0 to 35 mbar
PIP	0 to 65 mbar
O ₂ Concentration	21 to 100%
▷ Additional Parameters	
Rise Time	0 to 3.0 s
Trigger Sensitivity	1 to 100%

► DuoPAP (Single limb)

Respiratory Rate (RR)	1 to 60 BPM
Inspiratory Time (Ti)	0.1 to 3.0 s
PEEP	2 to 15 mbar
PIP	2 to 25 mbar
O ₂ Concentration	21 to 100%

O₂ Therapy

► High Flow Oxygen Therapy (Single limb)

Flow Rate	2 to 30 l/min
O ₂ Concentration	21 to 100%

† VTV control, when enabled, becomes Vte Target control.

Optional Module features

► SpO₂ (Masimo™ SET®)

Displayed parameters	Saturation (fraction of oxyhaemoglobin to functional haemoglobin), pulse rate, Signal IQ and plethysmogram	
Trends	SpO ₂ and Pulse rate for previous 14 days	
Measuring method	Absorption spectrophotometry	
Ventilator connector	ODU-type plug (red). Powered from ventilator.	
Dimensions (mm)	24 (h) x 33 (w) x 92 (l)	
Weight (excluding sensor)	0.122 kg	
	Fractional SpO₂ (%)	Pulse Rate (BPM)
Display Range	0% - 100%	25 - 240 BPM
Calibration range	70% - 100%	25 - 240 BPM
No motion accuracy (rms)	± 2.0%	± 3.0 BPM
Motion accuracy (rms)	± 3.0%	± 5.0 BPM
Resolution	≤ 0.1%	≤ 1 BPM
Averaging time (seconds)	2-4, 4-6, 8, 10, 12, 14, 16	-

► EtCO₂ (Oridion Microstream™)

CO ₂ units	User selectable (mmHg or kPa or Vol%)
EtCO ₂ range	0-99.9 mmHg
EtCO ₂ resolution	1 mmHg
CO ₂ accuracy	0-38 mmHg: ± 2 mmHg 39-150 mmHg: ± (5% of reading + 0.08 x [reading - 39 mmHg])
CO ₂ sampling flow rate	50 ml/min (+15 ml/min, -7.5 ml/min) flow measured by volume
Waveform sampling	20 samples/s
Initialisation time	40 s (typical, includes power-up and initialisation time)
Ventilator connector	ODU-type plug (yellow). Powered from ventilator.
Dimensions (mm)	70 (w) x 93.3 (l) x 50.3 (h)
Weight	240 g

For further specifications and operating temperature, pressure and humidity ranges for SpO₂ and etCO₂ please see User Manuals.

The Microstream technology is designed for use during invasive ventilation in conventional modes. It is currently not recommended for use in NIV or during HFOV.

An IntelliBridge module is also available

► OxyGenie®

Controls	Adds additional (start/stop) option to FiO ₂ parameter controller. Range selector in SpO ₂ utilities menu. Ranges are: 90 - 94%, 91 - 95% (default), 92 - 96%, 94 - 98% Manual override (timed, for 30 seconds)
Waveforms	Additional SpO ₂ screen can show any one ventilation parameter plus plethysmogram and trends of SpO ₂ and FiO ₂ .
Alarms	Alarms automatically set on SpO ₂ software, corresponding with target range (1% above high and 1% below low). Can be manually set as well. Alarm indications shown in Alarm bar. Alarm level indicators on SpO ₂ and FiO ₂ graphs.
Indicator	Status panel shows OxyGenie status such as 'Auto', 'Manual Override' (with countdown) or 'Waiting for Signal'.
Trends	Trending information for SpO ₂ and FiO ₂ can be shown simultaneously. Up to 14 days of data are stored for each parameter.

Misc. Specifications

► Flow Sensor

Flow sensor type: (Electrically isolated)	10 mm dual-hot-wire anemometer. (Single-use or autoclavable versions).
Applied part	Type BF
Flow rate	0.2 to 30 l/min
Accuracy	±8% maximum
Dead space	1 ml
Weight	10 g

► Flow

Flow rate	0 to 99 l/min
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► Volume

Expiratory tidal volume	0 to 999 ml
Expiratory minute volume	0 to 18 L

► Measured Parameters

Leak	0 to 99%
Respiratory rate	0 to 999 BPM
Compliance	0 to 99.9 ml/mbar
C20/C	0 to 9999
Resistance	0 to 999 mbar/(l/s)
Inspiratory time	0 to 9.99 s
Expiratory time	0 to 9.99 s
Vmin	0 to 99.99 l
Trigger resolution	1
Vte	0 to 99.9 ml
DCO ₂	0 to 9999
I:E Ratio	1:9.9 to 9.9:1
Oxygen concentration	0 to 999%
Peak pressure	0 to 999 mbar
PEEP pressure	0 to 999 mbar
Mean pressure	-999 to 999 mbar
Delta P	9 to 999 mbar
Trending	Data logged @ 1 Hz

Above values are obtained under ATPD (ambient temperature and pressure, dry) conditions.

► Power AC

Mains voltage	100-240V / 50-60Hz
Power	115 VA
Fuses (x2)	T2.5AH 250V (5x20 mm)
Battery back-up	Typical 3+ hour battery life (in all modes) in normal use
Battery charging	Full charge: 18 hours 80% charge: 8 hours

► Power DC

Voltage	24V 4A
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► Operating Environment

Temperature	+10°C to +40°C
Relative Humidity	10 to 90% (non-condensing)

► Dimensions

Size, ventilator only	w 330 mm x h 369 mm x d 548 mm
Height on pole	1310 mm
Weight (Ventilator only)	≤ 22 kg

► Pneumatic Connectors

Exhalation port	15 mm F / 22 mm M conical (ISO5356-1)
Proximal airway	5 mm non-conical
Fresh gas port	15 mm M conical (ISO5356-1)
Nebulizer port (on rear)	5 mm non-conical

► Classification (Electrical)

Type of protection against electric shock:	Class 1 Unit must be earthed.
Degree of protection against electric shock:	Type BF, applied part

► Connectors (Rear mounted)

RS232 & USB data ports
VGA (Video out) port
USB Power port for nebuliser
Nurse Call
24V DC input
SpO ₂ & etCO ₂
RJ45 Ethernet networking port

► IP Rating

Type of protection against ingress of water	IP21
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► Environmental Storage Conditions

Ambient Temperature	-20°C to +50°C
Relative Humidity	10% to 90% non-condensing

► Sound levels

Sound pressure level	49 dBA
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