

Invasive Ventilation

► 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	0.2 to 50 ml †
O2 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
O2 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
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► CPAP (Dual limb, ET)

0.1 to 3.0 s	
0 to 35 mbar	
0 to 65 mbar	
21 to 100%	
> Additional Parameters	
1 to 150 BPM	
0 to 3.0 s	
0.2 to 20 I/min	
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) 1 to 300 ml [†]
O2 Concentration	21 to 100%
> Addition	al Parameters
Rise Time	0 to 3.0 s
Trigger Sensitivity	
with flow sensor:	0.2 to 20 I/min
without flow sensor:	1 to 100%
Termination Sensitivity (% of peak insp flow) (PSV only)	5 to 50%

SLE6000H (High Frequency Oscillation) Specifications

The SLE6000H is a full specification neonatal care ventilation system. Compact in design, it offers conventional modes with additional options for Non-Invasive Ventilation (NIV), High Frequency Oscillation Ventilation (HFOV) and High Flow Oxygen Therapy (HFOT).

SpO₂ and etCO₂ monitoring options are supported with the addition of plug-in modules. OxyGenie[®] (Auto FiO₂) is an optional integration.

► 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) 1 to 300 ml [†]
O2 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) 1 to 300 ml †
O2 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 I/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.	

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
O2 Concentration	21 to 100%
> Additional Parameters	
RR Backup	1 to 150 BPM
Rise Time	0 to 3.0 s
Trigger Sensitivity	1 to 100%

▶ nCPAP S (Single limb)

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

and other single tube interfaces	
Inspiratory Time (Ti)	0.1 to 3.0 s
CPAP	2 to 15 mbar
PIP	2 to 25 mbar
O2 Concentration	21 to 100%
> Additional Parameters	
RR Backup	1 to 10 BPM
Trigger Sensitivity	1 to 100%
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[†] VTV control, when enabled, becomes Vte Target control.

▶ NIPPV D (Dual limb)

· · · ·	
1 to 150 BPM	
0.1 to 3.0 s	
0 to 35 mbar	
0 to 65 mbar	
21 to 100%	
> Additional Parameters	
0 to 3.0 s	

NIPPV Triggered (Dual limb)

for passive nCPAP interfaces e.g. SLE Miniflow

1 to 150 BPM	
0.1 to 3.0 s	
0 to 35 mbar	
0 to 65 mbar	
21 to 100%	
> Additional Parameters	
0 to 3.0 s	
1 to 100%	

▶ nHFOV D (Dual limb)

for passive nCPAP interfaces e.g. SLE Miniflow

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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
O2 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

O, Therapy

► High Flow Oxygen Therapy (Single limb)

Flow Rate	2 to 30 I/min
O2Concentration	21 to 100%

Optional Module Features

▶ SpO₂ Masimo®

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

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SLE6000H (High Frequency Oscillation) Specifications

Optional Module Features Cont.

► SpO₂ Masimo®

	Fractional SpO ₂ (%)	Pulse Rate (BPM)
Display Range	0% - 100%	25 - 239 BPM
Calibration range	70% - 100%	25 - 239 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	-

▶ SpO₂ Nellcor[™]

	<u> </u>		
Displayed parameters		saturatio Functione oxygenat relative te	lood oxygen n (SpO ₂) - al measure of ted hemoglobin o the sum of iglobin and moglobin
	Trends	SpO ₂ and previous	d Pulse rate for 14 days
Measuring n	nethod	Absorpti spectrop	on bhotometry
Ventilator con	inector		e plug (red). I from ventilator.
Dimensions	s (mm)	H: 93.9 ± 58 ± 5	5 , L: 59.9 ± 5 ,W:
Weight (excluding sensor)		0	without cradle - 300g nt with cradle - 325g
	Fractic SpO ₂ (Pulse Rate (BPM)
Display Range	1% - 100)%	20 - 300 BPM
Calibration range	70% - 1	00%	20 - 300 BPM
No motion accuracy (rms)	70 to 100% ±2 digits		20 - 250 bpm ±3 digits
Motion accuracy (rms)	70 to 100% ±3 digits		20 - 250 bpm ±5 digits
Resolution	≤ 0.1%		≤1BPM
Averaging time (seconds)	Normal Fast		-

Fast	
	EtCO

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	

► 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.	

Environment Conditions

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	

Environmental Storage Conditions		
Ambient Temperature	-20°C to +50°C	
Relative Humidity	10% to 90% non-condensing	
Atmospheric Pressure	500 mbar to 1060 mbar	
Sound levels		
Sound pressure level	49 dBA	
Sound Power Level	53 dBA	

Electrics

Power AC		
Mains voltage	100-240V / 50-60Hz	
Power	115 VA	
Fuses (x2)	T2.5AH 250V (5x20 mm)	
Battery back-up	The ventilator will typically run for over 3 hours from 100% battery charge to complete discharge during normal use.	
Battery charging	Full charge: 18 hours 80% charge: 8 hours	
► Po	wer DC	
Voltage 24V 4A		
 Classification (Electrical) 		
Type of protection against electric shock:	Class 1 Unit must be earthed.	

Degree of protection against electric shock: Type BF, applied part IP Rating Type of protection against ingress of water Connectors 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)	
Nebuliser Port	5 mm Non Conical	

► Connectors (Rear mounted)

RS232 & USB data ports
Display port
USB Power port for nebuliser
Nurse Call
24V DC input
SpO ₂ & etCO ₂
RJ45 Ethernet networking port

Misc. Specifications

Flow Sensor		
10 mm dual-hot-wire anemometer. (Single-use or autoclavable versions).		
Type BF		
0.2 to 30 I/min		
±8% maximum		
1 ml		
10 g		

Measured Parameters Resolution

Leak	1%
Respiratory Rate (RR)	1 BPM
Compliance (C)	1ml/mbar
Mean Airway Pressure (MAP)	Imbar
C20/C	0.1
Resistance (R)	1
Inspiratory time (Ti)	10 milliseconds
Expiratory time (Te)	10 milliseconds
Vmin (I)	0.01 I
Trigger (Trig)	1
Vte (ml)	0.1 ml
DC02	1
I:E Ratio	0.1
Oxygen Concentration	1%
Pressure	0.1 mbar

Display Range of 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

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Misc. Specifications Cont.

DC02	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	-99 to 999 mbar
Trending	Data logged @ 1 Hz
Above values are obtained under ATPD (ambient temperature and pressure, dry) conditions.	
► Flow	
Flow rate	0 to 99 I/min
► Volume	

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

For further specifications & operating temperature, pressure and humidity ranges for SpO_2 and EtCO_2 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.