

Oxylog® 3000 plus

Offering high ventilation performance with features such as AutoFlow, integrated capnography and non-invasive Ventilation, the compact and robust Oxylog® 3000 plus helps you transport your patients safely and provides feedback on endotracheal tube placement and ventilation effectiveness. The Oxylog® 3000 plus gives you confidence to master even the most demanding situations.



TECHNICAL DATA

The Oxylog 3000 plus is a time-cycled, volume-controlled and pressure-controlled emergency and transport ventilator for patients requiring mandatory or assisted ventilation with a tidal volume from 50 mL upwards.

Dimensions (W × H × D)	11.4 × 7.2 × 6.9 in (290 × 184 × 175 mm) (without handle and protection bracket)
Weight	Approximately 12.8 lb (5.8 kg) (including internal battery)

Gas supply

Supply gas	Medical Oxygen
Gas supply	From a pipeline system or from an O ₂ cylinder
O ₂ service pressure	270 kPa/39 PSI to 600 kPa/87 PSI at 100 L/min
Gas consumption for internal control	Average 0.5 L/min

Operating data

Ventilation Modes	VC-CMV, VC-AC, VC-SIMV, SpnCPAP, PC-SIMV+
Additional settings for ventilation	<ul style="list-style-type: none"> - Pressure support: in the ventilation modes VC-SIMV, PC-SIMV+ and SpnCPAP - Apnea ventilation: in the ventilation mode SpnCPAP - AutoFlow (optional): in the ventilation modes VC-CMV, VC-AC and VC-SIMV - NIV: in the ventilation modes: SpnCPAP (/PS), PC-SIMV+, VC-CMV / AF, VC-AC / AF and VC-SIMV / AF
Special procedures	<ul style="list-style-type: none"> - Inspiration hold - 100% O₂
Options	<ul style="list-style-type: none"> - Integrated mainstream CO₂ measurement (*) - Real time data export via RS232, MEDIBUS protocol (*) - AutoFlow: volume targeted - pressure controlled ventilation (*)
CPR-behavior	Pressure-limited, non-constant-volume ventilation during inspiration time when Pmax is reached
Ventilation Respiratory Rate	2 to 60 /min (VC-SIMV, PC-SIMV+) 5 to 60 /min (VC-CMV, VC-AC) 12 to 60 /min for apnea ventilation
Tidal volume VT	0.05 to 2.0 L; BTPS (**)
Ti / I:E	I:E or Ti configurable, for all ventilation modes
Ventilation time ratio I:E	1:100 to 50:1



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Inspiration time T_i	0.2 to 10 s
Inspiratory pressure P_{insp}	PEEP +3 to +55 cmH ₂ O
O ₂ concentration	40 to 100 Vol.% (***)
PEEP / CPAP	0 to 20 cmH ₂ O
Trigger sensitivity (flow trigger)	1 to 15 L/min
Pressure support ΔP_{supp}	0 to 35 cmH ₂ O (relative to PEEP)
Slope (pressure rise time)	dampened, normal, accelerated
Max. inspiratory flow	100 L/min @ supply pressures > 350 kPa / 51 PSI; 80 L/min @ supply pressures < 350 kPa / 51 PSI; 39 L/min @ supply pressures < 270 kPa / 39 PSI
Displayed measured values	MVe, FiO ₂ , RR, VTe, PEEP, Pmean, PIP, Pplat, MVesp, RR _{spn} , etCO ₂
Display type	Technology Electro-luminescence (EL) Pixels 240 × 128 Visible area 4.3 × 2.2 in (108 × 56 mm)
Curve display	Airway pressure P_{aw} curve, flow curve, CO ₂ curve (optional)
Patient hose types	Disposable adult hose (1.5m / 3m) Disposable pediatric hose (1.9m)
Power supply	
Oxylog 3000 plus input voltage	24 V ±6 VDC
Input voltage AC/DC power pack	100 to 240 V~ / 50 to 60 Hz / 0.9 to 0.4 A~
Input voltage DC/DC converter	12 / 24 / 28 VDC; 5 A / 2.5 A / 2.1 A
Battery type	Lithium ion battery
Operating time (fully charged, "typical" ventilation, without CO ₂ sensor, reduced display brightness)	Approximately 9.5 hours
Operating time (fully charged, "typical" ventilation)	Approximately 7.5 hours
Battery charging time	Approximately 4 hours

Main alarms

Airway pressure (P_{aw}) high	Adjustable from 20 to 60
Airway pressure (P_{aw}) low	When pressure difference between Insp. and Exp. < 5 cmH ₂ O or when the set pressure level is not reached
Apnea back-up ventilation	When respiratory activity is no longer detected, adjustable time from 15 to 60 s
Leakage	VTe. is approx. 60% lower than VTi (not applicable in NIV)
High Respiratory Rate	Patient breathes at a high spontaneous rate
etCO ₂ high / low	When the alarm limits for end-expiratory CO ₂ concentration have been exceeded.
MVe high/ low	When the alarm limits for expiratory minute volume have been exceeded.
Incorrect patient hose	Ventilator detects if incorrect patient hose type is connected
Supply pressure low	Supply pressure < 270 kPa

Operating Conditions

Temperature range	-4 to +122 °F (-20 to +50 °C) for basic device
Temperature range for CO ₂ sensor	+50 to +104 °F (+10 to +40 °C)
Atmospheric pressure	570 to 1200 hPa for basic device
Relative humidity	5 to 95 % (no condensation)
Electromagnetic compatibility (EMC)	In accordance with IEC/EN 60601-1-2:2007, EN 794-3 and ISO 10651-3
Airworthiness	In accordance with RTCA DO-160F, sections 7, 8, 16.6, 18.3.1, 17, 19.31, 20, 21, 25
Mechanical strength	In accordance with MIL STD 810F, method 514.5
Classification according to MDD 93/42/EEC	Class IIb
UMDNS-Code	18-098

* Options can be purchased during the initial ordering process or as future upgrades.

** BTPS: Body Temperature, Pressure, Saturated. Measured values referred to the conditions of the patient's lungs, body temperature 37 °C / 99 °F, airway pressure, water-vapor-saturated gas.

*** Indirect measurement of O₂ concentration (calculated from two measured flows).

CORPORATE HEADQUARTERS

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