

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 correctness of intubation 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 x H x D)	290 x 184 x 175 mm (without handle and protection bracket)
Weight	Approximately 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 to 600 kPa 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-BIPAP
Additional settings for ventilation	<ul style="list-style-type: none"> - Pressure support: in the ventilation modes VCSIMV, PC-BIPAP* and SpnCPAP - Apnoea 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-BIPAP (/PS), VC-CMV /AF, VC-AC /AF and VC-SIMV /AF
Special procedures	<ul style="list-style-type: none"> - Inspiration hold - O₂ inhalation (optional), with an inhalation mask - 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 P _{max} is reached
Ventilation Respiratory Rate	2 to 60 /min (VC-SIMV, PC-BIPAP) 5 to 60 /min (VC-CMV, VC-AC) 12 to 60 /min for apnoea 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 mbar
O ₂ concentration	40 to 100 Vol.% (****)
PEEP / CPAP	0 to 20 mbar
Trigger sensitivity (flow trigger)	1 to 15 L/min
Pressure support ΔP_{supp}	0 to 35 mbar (relative to PEEP)
Slope (pressure rise time)	Slow, standard, fast
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, VT _e , PEEP, P _{mean} , PIP, P _{plat} , MV _{esp} , RR _{spon} , etCO ₂ .
Display type	Technology Electro-luminescence (EL) Pixels 240 x 128 Visible area 108 x 56 mm
Curve display	Airway pressure Paw curve, flow curve, CO ₂ curve (optional)
Patient hose types	Reusable adult hose (1,5m / 3m), Disposable adult hose (1,5m / 3m), Disposable pediatric hose (1,9m)
Power supply	
Oxylog 3000 plus input voltage	24 V \pm 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)	Approximately 4 hours
Battery charging time	Approximately 5 hours
Main alarms	
Airway pressure (Paw) high	Adjustable from 20 to 60
Airway pressure (Paw) low	When pressure difference between Insp. and Exp. < 5 mbar 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	VT _e is approx. 40% lower than VT _i (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	-20 to +50 °C for basic device
Temperature range for CO ₂ sensor	+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

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** 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-vapour-saturated gas.

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