

Oxylog® 3000

The Oxylog® 3000 offers a sophisticated performance in emergency and transport ventilation - so good it can be used to ventilate critical-care patients in transfer situations. When it comes to transport ventilation performance, it's better to have an Oxylog® 3000.



TECHNICAL DATA

Oxylog 3000 is a time-cycled, volume-constant and pressure-controlled emergency and transport ventilator for patients with a tidal volume starting at 50 mL.

Dimensions of basic unit (W x H x D)	285 x 184 x 175 mm / 11.10 x 7.24 x 6.89 inch (excluding handle)
Weight of basic unit	Approx. 5.4 kg / 11.9 lbs (including internal battery)
Gas supply	
Gas supply	From a pipeline system or from a medical gas cylinder
Supply gas	Medical Oxygen or Medical Air
Supply pressure	39 - 87 PSI / 270 - 600 kPa at 100 L/min
Gas consumption for internal control	0.1 to 0.5 L/min
Operating data	
Ventilation modes	IPPV/IPPV _{assist} *, SIMV, SIMV/ASB*, BIPAP*, BIPAP*/ASB*, CPAP, CPAP/ASB*
Special modes	<ul style="list-style-type: none"> - NIV (Non-invasive (mask)-ventilation with leakage compensation) - Apnea Ventilation (For switching over automatically to volume-controlled mandatory ventilation, if breathing stops)
CPR-mode	Pressure-limited, non-constant-volume ventilation during inspiration time when Pmax is reached
Ventilation frequency	2 - 60 1/min (SIMV and BIPAP*); 5 - 6 1/min (IPPV*); 12 - 60 1/min (Apnea ventilation)
Tidal volume V _T	0.05 to 2.0 L BTPS**
Ventilation time ratio I:E (IPPV _{assist})	1:4 to 3:1
Inspiration time T _{insp.} (SIMV, ASB, BIPAP*/ASB)	0.2 to 10 sec
Inspiratory pressure P _{insp.}	PEEP +3 to 55 mbar / cmH ₂ O
O ₂ concentration	40 to 100%, infinitely adjustable
PEEP	0 to 20 mbar / cmH ₂ O
Trigger sensitivity (flow trigger)	3 to 15 L/min
Pressure support Δ ASB*	0 to 35 mbar / cmH ₂ O (relative to PEEP), rise time adjustable in 3 steps
Max. inspiratory flow	100 L/min (supply pressure > 350 kPa / 51 PSI), 80 L/min (supply pressure < 350 kPa / 51 PSI)



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Better to have one

Measured value display	MV, f, V _{Te} , PEEP, P _{mean} , P _{peak} , P _{plat} , MV _{spn} , f _{spn} , O ₂ ***
Display	Technology: Electro-luminescence Pixels: 240 * 128, Visible area: 108 * 56 mm / 4.25 x 2.20 inch
Curve display	Pressure curve, flow curve
Power supply	
Input voltage	19 V DC
AC/DC power pack	100 to 240 V AC / 19 V DC
DC/DC converter	12/ 24/ 48 VDC V DC
Battery type	Lithium ion
Operating time (fully charged, "typical" ventilation)	Approximately 4 hours
Battery charging time	Approximately 5 hours
Monitoring	
Supply pressure low	Supply pressure < 270 kPa / 39 PSI
Airway pressure (Paw high)	Adjustable from 20 to 60 mbar / cmH ₂ O
Airway pressure (Paw low)	When pressure difference between Insp. and Exp. < 5 mbar / cmH ₂ O or when the set pressure level is not reached
Apnea alarm time T _{Apnea}	When respiratory activity is no longer detected, adjustable from 15 to 60s
Leakage (not in NIV)	V _{Exp.} is approx. 40% lower than V _{Tinsp.}
High frequency	Patient breathes at a high spontaneous rate
Operating conditions	
Temperature	-20 to 50 °C / -4 to 122 °F
Atmospheric pressure	570 to 1200 hPa / 17 to 35 in. Hg
Rel. humidity	5 to 95%
Electromagnetic compatibility EMC	In accordance with IEC/EN 60601-1-2:2001, EN 794-3 and ISO 10651-3
Airworthiness	In accordance with RTCA DO-160D, sections 7, 8, 20 & 21
Mechanical strength	In accordance with MIL STD 810F, method 514.5
Classification according to MDD 93/42/EEC	Class IIb
UMDNS-Code	18-098

* BIPAP = PCV +, IPPV = CMV, ASB = PS

** 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)

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according to ISO 13485, ISO 9001
and Annex II.3 of Directive 93/42/EEC
(Medical devices).