Dräger Oxylog® 3000 plus
Emergency & Transport Ventilation

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.

MT-5809-2008

Dräger. Technology for Life®

Benefits

High confidence during transport

Whether you are transporting critically ill patients in your hospital or in the field, with new features such as AutoFlow®, integrated capnography, full paediatric support and enhanced data connectivity, you don't have to compromise on therapy during transport.

Wide range of ventilation modes and AutoFlow

The Oxylog 3000 plus offers a complete range of volume- and pressure controlled ventilation modes, including VC-AC, VC-SIMV, Spn-CPAP and PC-BIPAP*. Non-invasive ventilation with sophisticated leak compensation is also provided as standard. With the AutoFlow option, you can provide volume controlled ventilation with minimised peak inspiratory pressure for advanced patient care.

Integrated capnography

Monitoring patients in the field can be challenging. Available with integrated mainstream CO_2 monitoring, the Oxylog 3000 plus helps you confirm correct intubation and ventilation performance at all times.

Ready for paediatric patients

A specially designed, dedicated paediatric patient circuit with reduced dead space and low compliance is available for use with the Oxylog 3000 plus. This enables you to provide quality ventilation to an even wider range of patients with a single device.

Automatic altitude compensation

Tested for use in fixed and rotary wing aircraft, the Oxylog 3000 plus automatically compensates for altitude, adjusting provided- and measured patient volumes accordingly, eliminating the need for manual calculation and reducing the risk of error.

Standard equipment

The Oxylog 3000 plus uses the same reusable and disposable hoses like Oxylog 3000 and Oxylog 2000 plus. This increases your efficiency and saves you valuable storage space and training time.

Intuitive user interface

The Oxylog 3000 plus uses the same intuitive user interface common to most current Dräger products. The select-adjust-confirm operating system facilitates a rapid user familiarization process. Clinical parameters, curves and ventilation settings are clearly displayed on the screen which makes sure you can have a quick assessment of the patient’s status even in hectic situations. The intuitive user interface allows you to easily and quickly operate the device after switching it on.

Benefits

Advanced data export functionality

With its advanced data export functions, the Oxylog 3000 plus can not only export ventilation parameter data to external monitors and data management systems in real time, but it can also take full advantage of Dräger Remote Service. This innovative concept lets you transfer status information from your Oxylog 3000 plus to DrägerService for analysis. This supports you in increasing equipment up-time.

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Related Products

MT-8906-2009

Oxylog® 1000

The Oxylog® has been the natural choice of emergency care ventilator for more than 25 years. The Oxylog® 1000 is the most compact ventilator in the Oxylog® range.

MT-4300-2007

Oxylog® 2000 plus

Step up your performance with Oxylog® 2000 plus. The Oxylog® 2000 plus supports you in your daily challenge of saving peoples lives, no matter where the call takes you. Invasive or non-invasive, Oxylog® 2000 plus can meet this challenge by putting essential ventilation tools at your fingertips. The Oxylog® 2000 plus can make all the difference.

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	– 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	– Inspiration hold – O_2 inhalation (optional), with an inhalation mask – 100% O_2
Options	– Integrated mainstream CO_2 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-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
Inspiration time Ti	0.2 to 10 s
Inspiratory pressure Pinsp	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 ΔPsupp	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, VTe, PEEP, Pmean, PIP, Pplat, MVesp, RRspon, 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)

Technical Data

Patient hose types	Reusable adult hose (1,5 m / 3 m), Disposable adult hose (1,5 m / 3 m), Disposable pediatric hose (1,9 m)

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
Operation time (fully charged, "typical" ventilation)	Approximately 7.5 hours
Battery charging time	Approximately 4 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	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	-20 to +50 °C for basic device
Temperature range for CO_2 sensor	+10 to +40 °C
Atmospheric pressure	570 to 1,200 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 O_2 concentration (calculated from two measured flows).

Notes

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