Dräger Oxylog 3000 plus Emergency and 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 demanding situations.

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 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.

Optional capnography

Monitoring patients in the field can be challenging. Available with optional 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 VE300. 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 concept lets you transfer status information from your Oxylog 3000 plus to DrägerService for analysis. This supports you in increasing equipment up-time.

Services

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Dräger Services

We support you with a complete solution approach: Our medical devices, services, accessories and digital solutions work in sync to improve acute care.
Medical equipment performs at its best when it is correctly and regularly maintained. With our Dräger manufacturer service and original spare parts you can rely on product longevity and efficiency. Find out more about the high quality of service that only we as a manufacturer can offer.

Related Products

D-18317-2017

Oxylog VE300

The straightforward and user-friendly Dräger Oxylog VE300 is built to face your challenges in preclinical emergency services. With well-known ventilation technology, robustness and easy-to-use operation, it provides you with reliable and safe assistance in an emergency.

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)	294 x 188 x 179 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 supply 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)

Technical Data

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 <280 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)
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 / 1.0 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 for at least 20 seconds or when the set pressure value is not reached within 10 seconds
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

Technical Data

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 60601-1-2, EN 794-3 and ISO 80601-2-84
Airworthiness	In accordance with RTCA/DO 160G
Mechanical strength	In accordance with ISO 80601-2-84
Classification of the medical device in Europe	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).

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