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 O₂ cylinder.
- O₂ 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
  - O₂ inhalation (optional), with an inhalation mask
  - 100% O₂
- **Options:**
  - 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-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 \( P_{insp} \) | PEEP +3 to +55 mbar
---|---
\( O_2 \) concentration | 40 to 100 Vol.% (***)
---|---
PEEP / CPAP | 0 to 20 bar
---|---
Trigger sensitivity (flow trigger) | 1 to 15 L/min
---|---
Pressure support \( \Delta P_{supp} \) | 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 | M Ve, \( F_iO_2 \), RR, VTe, PEEP, Pmean, PIP, Pplat, MVesp, RR spont, etCO2.
---|---
Display type | Technology Electro-luminescence (EL)
---|---
Curve display | Airway pressure Paw curve, flow curve, CO2 curve (optional)
---|---
Patient hose types | Reusable adult hose (1.5m / 3m), Disposable adult hose (1.5m / 3m), Disposable pediatric hose (1.5m)
---|---
Power supply | Oxlog 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) | Approximately 4 hours
---|---
Battery charging time | Approximately 5 hours
---|---
Airway pressure (Paw) high | Adjustable from 20 to 60
---|---
When pressure difference between Insp. and Exp. < 5 mbar or when the set pressure level is not reached
---|---
Apnea back-up ventilation
---|---
Leakage
---|---
High Respiratory Rate
---|---
etCO2 high / low
---|---
MVeph high / low
---|---
Incorrect patient hose
---|---
Supply pressure low
---|---
Operating Conditions | Temperature range
---|---| -20 to +50 °C for basic device
---|---| +10 to +40 °C
---|---| Temperature range for CO2 sensor
---|---| 570 to 1200 hPa for basic device
---|---| 5 to 95 % (no condensation)
---|---| Atmospheric pressure
---|---| In accordance with RTCA DO-160F, sections 7, 8, 16.6, 18.3.1, 17, 19.31, 20, 21, 25
---|---| Relative humidity
---|---| In accordance with MIL STD 810F, method 514.5
---|---| Electromagnetic compatibility (EMC)
---|---| Class Iib
---|---| Classification according to MDD 93/42/EEC
---|---| UMDNS-Code
---|---| 18-098
---|---| * Trademark used under License
---|---| ** Options can be purchased during the initial ordering process or as future upgrades.
---|---| **** Indirect measurement of \( O_2 \) concentration (calculated from two measured flows).