Oxylog® VE300
Emergency & Transport Ventilation

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

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Dräger. Technology for Life®

Benefits

Simple, ergonomic, robust – and economical:

- Reliable even under extreme operating conditions (-20 to +50°C)
- Three step device start up, takes less than 10 seconds
- Device check takes less than a minute
- Preset parameters for fast ventilation start
- Replaceable and rechargeable battery for up to 9 hours of operation
- Low oxygen consumption thanks to DuroFlow technology*
- Clear user guidance with moderate training time
- Easily accessible documentation with Bluetooth and USB interface: patient data, system test, screen shots
- Wall mount permits flexible positioning
- Practical extras available as options: belt, stretcher mounting, accessory bag, battery charger
- Ergonomic carrying handle directly above the device's centre of gravity

Easy to carry, quick-start ventilation

- Clear colour touch screen
- Flip-screen button rotates the display 180°
- Volume-controlled ventilation: VC-CMV / VC-AC, VC-SIMV
- Pressure-controlled ventilation: PC-BIPAP**
- Spontaneous breathing support: SPN-CPAP/PS with NIV
- Pressure support: PS
- CPR mode can be selected with a single keystroke
- Capnography: main-stream CO_2 measurement
- Logbook supports documentation

*DuroFlow technology: based on the "Venturi-Principle" without additional base flow

** trademark used under license

Related Products

MT-5809-2008

Dräger 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

Device specifications	
Dimension (W x H x D)	
Main device	399 x 153 x 160 mm (15.7 x 6.8 x 6.3 inches)
Main device, with carrier system	607 x 228–251 x 166 mm (23.9 x 9.0–9.9 x 6.5 in)
Weight	
Main device, without battery	Approx. 3.3 kg (7.3 lb)
Main device, with battery	Approx. 3.6 kg (7.9 lb)
Main device, with carrying system, battery and bag	Approx. 5.6 kg (12.4 lb)
Screen	
Technology	TFT colour screen
Size	4.3 inch
External connections	
USB	2.0 Only connect passive storage media, i.e. devices that do not have a separate power supply.
Sound pressure level (SPL)	
Average sound pressure level Leq(A) (free-field measurement at a distance of 1 m in accordance with ISO 3744 and during typical ventilation)	≤45 dB(A)
Sound pressure level L(A) of alarm signals (measured according to IEC 60601-1-8)	Approx. 47 to 83 dB(A), depending on alarm priority
Ambient conditions	
During operation	
Temperature (device)	-20°C to +50°C (-4° to +122°F)
Temperature (power supply)	0°C to +50°C (+32°F to +122°F)
Permissible operating temperature during charging	0 to +45°C (+32 to +113°F)
Ambient pressure (device)	620 to 1,100 hPa (8.99 to 15.95 psi) Automatic ambient pressure compensation within this pressure range
Height above sea level	Up to 4,000 m (13,123 feet)
Ambient pressure (power supply)	700 to 1,060 hPa (10.15 to 15.37 psi)
Relative humidity	5 to 95% (without condensation)
Settings	
Ventilation modes	VC-CMV, VC-AC, SPN-CPAP
Optional	VC-SIMV/PS, PC-BIPAP, SPN-CPAP/PS
Respiratory rate RR	Adults: 2 to 30 /min (VC-SIMV, PC-BIPAP) Adults: 5 to 30 /min (VC-CMV, VC-AC) Child: 2 to 50 /min (VC-SIMV, PC-BIPAP) Child: 10 to 50 /min (VC-CMV, VC-AC)
Maximum airway pressure Pmax	20 to 60 mbar (20 to 60 cmH_2O)
Ratio of inspiration time to expiration time I:E	1:4 to 4:1
Inspiration time Ti	0.3 to 10 s
Tidal volume VT	Adult: 0.3 to 2.0 L, BTPS Child: 0.1 to 0.4 L, BTPS Measurements referred to conditions of the patient's lungs, body temperature 37 °C (98.6 °F), ambient pressure, water vapor saturated gas.

Technical Data

O_2 concentration	100% O_2 and O_2/air mix Actual value depends on inspiratory flow and mean airway pressure.
Positive end-expiratory pressure PEEP	0 to 20 mbar (0 to 20 cmH_2O)
Trigger sensitivity (flow trigger)	Off or 3 to 15 L/min
Trigger sensitivity (pressure trigger)	Off or 3 to 15 steps
Pressure support ΔPsupp	0 to 35 mbar (0 to 35 cmH_2O) (relative to PEEP)
Pressure rise time for pressure support	slow (1 s), standard (0.4 s), fast (<0.4 s)

Regions of alarm limits

MVe upper alarm limit	2 to 60 L/min
MVe lower alarm limit	0.5 to 40 L/min
RR upper alarm limit	10 to 99 /min
$etCO_2$ upper alarm limit	5 to 99 mmHg / 0.5 to 13.2 kPa / 0.5 to 13.2 vol%
$etCO_2$ lower alarm limit	0 to 94 mmHg / 0 to 12.7 kPa / 0 to 12.7 vol%

Performance data

Control principle	Time-controlled, volume-constant, pressure-supported
Maximum inspiratory flow	100 L/min[1]
Device compliance	
with 1.5 m breathing tube	< 1.5 mL/mbar (1.5 cmH_2O)
with 3.0 m breathing tube	< 2 mL/mbar (2 cmH_2O)
Inspiratory resistance with breathing circuit	Adult ≤5 mbar (5 cmH_2O) at 60 L/min Child ≤3 mbar (3 cmH_2O) at 30 L/min
Expiratory resistance with breathing circuit	Adult ≤6 mbar (6 cmH_2O) at 60 L/min Child ≤4 mbar (4 cmH_2O) at 30 L/min
Emergency air valve	Opens the breathing system upon failure of the gas supply, permits spontaneous breathing with ambient air
Safety valve	Opens the breathing system in the event of device malfunction to approximately 80 mbar (80 cmH_2O)

[1] At supply pressure > 350 kPa (50.76 psi).
At a supply pressure < 350 kPa (50.76 psi), the maximum inspiratory flow is reduced to 80 L/min, at a supply pressure < 280 kPa (40.61 psi) to 39 L/min

Displayed measured values

Airway pressure measurement

Display range	0 to 100 mbar (0 to 100 cmH_2O)
Resolution	1 mbar (1 cmH_2O)
Accuracy	±(2 mbar (2 cmH_2O) +8% of measured value)

Flow measurement

Minute volume MVe	
Display range	0 to 100 L/min, BTPS
Resolution	0.1 L/min
Accuracy	± 20% of measured value or ± 0.4 L/min, whichever greater
Tidal volume VTe	
Display range	0 to 5,000 ml, BTPS
Resolution	1 mL
Accuracy	± 20% of measured value or ± 20 ml, whichever greater (adult breathing hose)

Technical Data

CO_2 measurement (option)	
Measurement principle	Mainstream system
Display range	0 to 100 mmHg / 0 to 13.2 vol% / 0 to 13.3 kPa
Resolution	1 mmHg / 0.1 vol% / 0.1 kPa
Respiratory rate measurement	
Display range	0 to 99 /min
Resolution	1 /min
Accuracy	±1 /min
Waveform display	
Airway pressure Paw (t)	0 to 90 mbar (0 to 90 cmH_2O)
Flow (t)	-150 to 150 L/min
CO_2	0 to +100 mmHg / 0 to +15 vol% / 0 to +15 kPa
Monitoring	
Expiratory minute volume MVe (option)	
Alarm, upper alarm limit	If the upper alarm limit has been exceeded
Setting range	2 to 60 L/min
Alarm, lower alarm limit	If the value has fallen below the lower alarm limit
Setting range	0.5 to 40 L/min
Alarm delay	40 seconds after start of ventilation
Apnoea	
Alarm	If no breathing phase change is detected for >15 seconds
Respiratory rate RR	
Alarm, upper alarm limit	If the upper alarm limit has been exceeded
Setting range	10 to 99 /min
Alarm delay	30 seconds after start of ventilation
End expiratory CO_2 concentration – $etCO_2$ (option)	
Alarm, upper alarm limit	If the upper alarm limit has been exceeded
Setting range	5 to 99 mmHg / 0.5 to 13.2 kPa / 0.5 to 13.2 vol%
Alarm delay	30 seconds after connection and calibration
Alarm, lower alarm limit	If the value has fallen below the lower alarm limit
Setting range	0 to 94 mmHg / 0 to 12.7 kPa / 0 to 12.7 vol%
Alarm delay	30 seconds after start of ventilation, connection and calibration
Leakage	
Alarm	Only for Plus option in VC modes and deactivated NIV in CPAP: If VTe < 45% of VTi
Alarm delay	30 seconds after start of ventilation
Disconnection	
Alarm	If disconnection of the breathing circuit is detected
Alarm delay	30 seconds after start of ventilation

Technical Data

Data communication (option)	
Exported data	Measured values Waveforms Alarm messages Alarm settings User settings System test information Screenshots
Operating data	
Power supply	
Input Voltage	19 V + 5/-3 VDC Power supplies (power supply unit and DC converter) are specified as parts of the Oxylog® VE300.
Duration of operation	With new and fully charged battery, without external power supply: – 8 hours with typical ventilation (VC-CMV, RR = 12/min, VT = 500 mL, PEEP = 5 mbar (5 cmH_2O), I:E = 1:2) – 9 hours (without CO_2 sensor and at reduced screen brightness)
Power consumption	During charging: max. 2.0 A at 19 VDC During typical ventilation: max. 0.8 A at 19 VDC
Battery type	Lithium-ion battery
Charging time	Approx. 5 hours The specified charging time applies when recharging the battery completely after it has been depleted.
Power supply unit	
Protection class (as defined in IEC 60601-1)	Class II
Degree of protection	IP22
Input	100 to 240 V~ / 50/60 Hz / 1.0 A
Output	19 V / 4.47 A (0 to +40°C (32 to +104°F)) / 3.57 A (+40 to +50°C (+104 to 122°F))
	To disconnect the ventilator from the power supply, disconnect the power cable from the power socket. The power supply unit is intended for indoor use only (e.g. in hospitals or fire stations).
Fuses F1 and F2	T 2.5 AH/ 250 V~
Gas supply	
	From a central gas supply system or an oxygen cylinder
Oxygen supply pressure	270 to 690 kPa (39.16 to 100.08 psi)
Gas characteristics	Medical oxygen, 93% oxygen
Connection to the oxygen supply:	NIST (Non-Interchangeable Screw-Threaded) according to EN 739 / ISO 5359 or DISS (Diameter Index Safety Systems) according to CGA V5-1989 or NF (Norme française) S90-116 Specific quick connection

Notes

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