

OXIVENT-OxiHome

Technical Specifications

OXIVENT OxiHome

Ensures the optimal ventilation therapy in transport situations for all patient groups from adult to pediatric.

- Performance of a fully featured ICU ventilator
- Approved for ambulances, hospital and home
- Invasive/Noninvasive ventilation and optional high flow oxygen therapy
- Automatic Volume Assured Pressure Support
- Adult, pediatric

For more information, visit our website: www.labcore.com.tr



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the potential

Technical Specifications

Ventilation Modes

Type	Mode	Description	Adult	Pediatric
Invasive modes	(A)PCV+	Pressure-controlled ventilation. Biphasic breathing	✓	✓
	P-SIMV	Pressure-controlled synchronized intermittent mandatory ventilation	✓	✓
Pressure	CPAP/PSV	Pressure support ventilation	✓	✓
	APRV	Airway pressure release ventilation	✓	✓
	Bilevel	Duo positive airway pressure	✓	✓
Pressure Regulated	PRVC	Pressure Regulated Volume Control	Opt	Opt
	MTAPS	Automatic Volume Assured Pressure Support	✓	✓
	PRVC-SIMV	Pressure Regulated Volume Control with Synchronized intermittent mandatory ventilation	Opt	Opt
Volume	(A)VCV		✓	✓
	V-SIMV	Synchronized intermittent mandatory ventilation	✓	✓
Noninvasive	P-A/C	Noninvasive ventilation	✓	✓
	PSV-S/T		✓	✓
	HiFlowO ₂	High flow oxygen therapy	Opt.	Opt.

Controls

Type	Adult / Pediatric
Special functions	Manual breath, O ₂ enrichment, standby, sigh, screen lock, apnea backup ventilation, inspiratory hold, print screen, suctioning tool, dimmable screen, configurable quick-start settings, startup settings, integrated pneumatic nebulizer, O ₂ consumption display
Ventilation modes	See page 2, Ventilation modes
Patient groups	adult / pediatric / optional neonatal
Patient height	50 to 250 cm
Patient gender	male / female
Patient weight	-
V-A/C	1 to 80 b/min
V-SIMV	1 to 80 b/min
PCV+	1 to 80 b/min
Bilevel-ST	5 to 80 b/min
P-SIMV	5 to 80 b/min
Bilevel	1 to 80 b/min
MTAPS	4 to 80 b/min
Tidal volume	30 to 2500 ml (optional neonatal 1 to 2500 ml)
PEEP/CPAP	0 to 25 cmH ₂ O
Oxygen	21% to 100%
I:E ratio	1:10 to 4:1
Inspiratory time (TI)	0.1 to 10 s
Inspiratory Flow	Adults-Pediatric: 0-200 l/min , Optional Neonatal: 0-40 l/min
Flow trigger	closed, 0.5 to 20 l/min
Pressure control	5 to 60 cmH ₂ O, added to PEEP/CPAP
Pressure support	0 to 25 cmH ₂ O, added to PEEP/CPAP
T slope	50-1100 ms
Apnea spare rate	5-80 b/min

Controls

Type	Adult / Pediatric
Pressure ramp	0 to 2,000 ms
P high (APRV/Bilevel)	4 to 60 cmH ₂ O
P low (APRV)	0 to 25 cmH ₂ O
T high (APRV/ Bilevel)	0.1 to 10 s
T low (APRV) ^a	0.2 to 10 s
Expiratory trigger sensitivity (ETS)	5% to 85% of peak inspiratory flow
Flow (HiFlowO ₂)	1 to 80 l/min (Optional)
Manual Ventilation	on/off
Inspiration Hold	No
Expiration Hold	No
O ₂ Flush Button	No
Dual receipt	Yes
LIAM	Yes

Monitoring parameters

Type	Parameter	Unit	Description	Numeric monitoring	Wave-forms	Vent Status	Dynamic Lung
Pressure	Paw	cmH ₂ O;mbar;hPa	Real-time airway pressure	✓	✓		
	Ppeak	cmH ₂ O;mbar;hPa	Peak airway pressure	✓			
	Pmean	cmH ₂ O;mbar;hPa	Mean airway pressure	✓			
	Pinsp	cmH ₂ O;mbar;hPa	Inspiratory pressure	✓		✓	
	PEEP/CPAP	cmH ₂ O;mbar;hPa	Positive end expiratory pressure/ continuous positive airway pressure	✓		✓	
	Pplateau	cmH ₂ O;mbar;hPa	Plateau or end inspiratory pressure	✓			
Flow	Flow	l/min	Real-time inspiratory flow	✓	✓		
	Insp Flow	l/min	Peak inspiratory flow	✓			
	Exp Flow	l/min	Peak expiratory flow	✓			
Volume	Volume	ml	Real-time tidal volume	✓	✓		
	VTE/VTE NIV	ml	Expiratory tidal volume	✓			
	VTI/VTI NIV	ml	Inspiratory tidal volume	✓			
	ExpMinVol/MinVol NIV	l/min	Expiratory minute volume	✓			
	MVSpont/MVSpont NIV	l/min	Spontaneous expiratory minute volume	✓			
	Leak/MV Leak	%/min	Leakage minute volume Leakage percentage at the airway	✓			
	Vt/IBW (adult/ped)	ml/kg	Tidal volume/IBW ratio	✓			
	Vt/Weight (neonatal only)	ml/kg	Tidal volume/weight ratio	✓			
Time	I:E		Inspiratory-expiratory ratio	✓			
	fTotal	b/min	Total breathing frequency	✓			
	fSpont	b/min	Spontaneous breathing frequency	✓			
	TI	s	Inspiratory time	✓			
	TE	s	Expiratory time	✓			
	%fSpont	%	Percentage of spontaneous breathing rate	✓			
	Lung mechanics	Cstat	ml/cmH ₂ O	Static compliance	✓		
AutoPEEP		cmH ₂ O;mbar;hPa	AutoPEEP or intrinsic PEEP	✓			
RCexp		s	Expiratory time constant	✓			
Rinsp		cmH ₂ O*s/l	Inspiratory flow resistance	✓			
RSB		1/l*min	Rapid shallow breathing index	✓			
PTP		cmH ₂ O*s;mbar*s	Pressure-time product	✓			

Main View

Vent Status	Visual representation of ventilator dependence, grouped into oxygenation, CO ₂ elimination, and patient activity Optional
Dynamic Lung	Tidal Volume, conformity of lung, Real-time visualization of the lungs with representations of resistance and patient activity
Graphics	Tidal volume, pressure, Graphical display of target and valid parameters for patient activity and minute ventilation
Monitoring	Display of more than 50 monitoring parameters
Real-time waveforms	Paw, Flow, Volume, Plethysmogram, and Capnograph Optional
Others	SpO ₂ , volumetric CO ₂ , sidestream, P-V, V-Flow, P-Flow, Trends: 1, 6, 12, 24, and 72 hours Opstional

Alarms

Operator adjustable	Low/high minute volume, low/high pressure, low/high tidal volume, low/high rate, apnea time, low/high oxygen, low/high SpO ₂ , low/high etCO ₂ , low/high pulse, low/high perfusion index, low/high flow, low/high PVI, low/high FiO ₂ , low/high SpMet, low/high SpHb, Alarm Reset
Special alarms	O ₂ cell, disconnection, exhalation obstructed, loss of PEEP, pressure not released, flow sensor, expiratory valve, pressure limitation, performance limited, CO ₂ and SpO ₂ , battery, power supply, gas supply, oxygen concentration, check patient interface.
Loudness	Adjustable (1 – 6), configurable minimum loudness

Maintenance

Product Life	10 years
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Standarts

Standarts	ISO 9001, ISO 13485, EN ISO 14971, ISO 14001, OHSAS 18001, IEC 60601-1, IEC 60601-1-2, EN 794-3, EN ISO 15223-1, TS EN 1041+A1, TS EN 14155, EN 62304, ISO80601-2-72, ISO 10651-6
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Configurations

Trolley accessories	Humidifier support, cylinder holder, tubing support arm
Options	Optional SpO ₂ , etCO ₂ Module and software, humidifier
Accessories	Transport unit for bed or stretcher with trolley and protection kit and handle with carrying bag, 2-3-4-5 lt options with O ₂ cylinder, Disposable patient circuit, Optional reusable patient circuit pediatric/adult, Optional Reusable or disposable adult and pediatric flow sensor, Optional neonatal flow sensor, Optional hygiene package, bacteria filter, single/dual patient circuits, pediatric or adult masks, Optional O ₂ regulator with two manometers, 1.5 m. oxygen hose with quick coupling with O ₂ probe, Internal Hepa filter

Electrical and pneumatic specifications

Input voltage	12 V DC 5 A
Power consumption	100-240 V 60 Watt
Backup battery time	Typical 4 h, optional 10 h operating time with amplified battery
Oxygen supply	2.7 to 6 bar (internal/external cylinder, hospital central system, compatible manufacturer's approved equipment), optional operating with 0.5 bar low pressure source
Air supply	Integrated turbine
Peak flow	Max 250 l/min (adult / pediatric)

Environment

Temperature	Operating: -20°C to 50°C (adult / pediatric) Storage: -18°C to 55°C
Humidity	5% to 95% noncondensing (operating), 10% to 95% noncondensing (storage)
Altitude	Up to approx 70 to 200 Kpa
Degree of protection	IP44
Interface connectors	USB, COM1 (RS-232), nurse call, CO ₂ , SpO ₂ Opsiyonel
Event log	Storage and display of up to 2,000 events with date and time stamp
Device maintenance	Maintenance and calibration are done in the technical maintenance menu.

Physical dimensions

Size	241(W) x 160(H) x 116(D) (without handle)
Weight	3 kg except for extension
Display	7.1 inch, LCD color, touch screen, night-vision compatibility
Main Patient Output	ISO 5356-1; 22OD/15ID
Oxygen Input	DISS or NIST, with option of usage O ₂ cylinder or hospital central system
Low Pressure Oxygen Input	CPC quick coupling



Ventilator Cart



Taşıma Çantası



Flow Sensor



Oxygen Sensor



Neonatal
Sensörü Akış (Flow)



Hasta Yatağı veya Sedyeye
Gizli Askı Aparatı