

# OXYLATOR<sup>®</sup> EM-100

**5 YEAR  
WARRANTY**



A “positive pressure” resuscitation and inhalation system that uses a patented, patient responsive technology. It requires no power source other than a 50 PSI supply of compressed oxygen or air.

The Oxylator EM-100 is not a “demand valve” or a “vent”, but it is a pressure limited / flow triggered ventilation device designed to replace the BVM during CPR and short transport. It is very small, light weight, rugged, and easy to use / clean. The Oxylator EM-100 is ideal for confined space or toxic environment extrication / rescue, and offers a “hands free” ventilation feature that operates “in-sync” with chest compressions.



## What A Professional Said About The Oxylator EM-100

The Oxylator may be one of the best purchases I've ever made. During one of its initial uses, it allowed me to concentrate on starting IV's while my paramedic partner was doing his job. It was like having a third technician just to manage the airway. We recorded a save from this call, due in part to the excellent airway management of the EM-100 & the ability of both paramedics to do their job.

Gary Whitman, EMT-P  
Chief, Dunn Rescue Squad  
Dunn, North Carolina

## Unique Operating Features

- Alerts to Airway Obstruction—“Stuttering” Sound
- “Positive Pressure” Ventilation—CPR / HAZMAT
- Delivers More Consistent AHA Required Volumes
- Built-in Inhalator Delivers Enriched Oxygen / Air Mix
- Alerts to Mask or “Tube” Leak—No Cycling Occurs
- “Closed” Ventilation—HAZMAT Environments
- NO “Stacking” Occurs—Adapts to Exhalation Length
- Reduces Gastric Insufflation—Flow Rate < 40L/Min.
- Adaptable to SCBA Tank Through Special Regulator
- Easily Operated by Heavily Gloved Hand—HAZMAT
- Patient Does Not “Buck” Ventilation as on a “Vent”
- Keeps the Airway Open—Maintains 2-4 cmH<sub>2</sub>O PEEP
- BPM Rate Changes = Lung Compliance Changes
- Reduces Caregiver’s Fatigue—Extra Set of Hands
- Adapts to I : E Ratios—Patient Sets “Natural” BPM

FEATURE:	SPECIFICATIONS:
MODEL	OXYLATOR EM-100
WEIGHT	0.25 kg; 0.55 lbs
DIMENSION (Diameter X Length)	57mm x 108 mm, 2.25 in x 4.25 in
MATERIAL OF HOUSING	Acetal
REQUIRED SOURCE PRESSURE	45-80 psig, 3.0-5.5 bar
REQUIRED FLOW (Source)	Min. 40 lpm (vs. 1.0 mm orifice)
DEAD SPACE	22 ml
INSPIRATORY FLOW RATE	40 lpm (max)
MINUTE VOLUME DELIVERED	12 to 16 litres per minute (lpm)
MIN. TIME OF OXYGEN SUPPLY	Cylinder vol. divided by 16 l/min
INHALATION / EXHALATION RATIO	1 : 1 to 1 : 2
PEEP	2 to 4 cm H <sub>2</sub> O
VENTILATORY FREQUENCY	Auto-adjusting to lung capacity
RANGE OF PRESSURE RELIEF	25 - 50 cm H <sub>2</sub> O, 18-38 mm Hg
EXPIRATORY RESISTANCE	Approximately 5 cm H <sub>2</sub> O
SUITABLE BODY MASS RANGE	10 kg+, 22 lbs+
INHALATOR, OXYGEN/AIR MIXTURE	100% O <sub>2</sub> at 14 to 15 Liters flow
OXYGEN CONCENTRATION	100% during auto resuscitation mode
VIRAL-BACTERIAL FILTER	Single use, disposable
MASK / AIRWAY CONNECTIONS	15 mm internal / 22 mm external
USAGE TEMPERATURE RANGE	(-30C to +60C) or (-22F to +140F)
STORAGE TEMPERATURE RANGE	(-40C to +70C) or (-40F to +158F)
OBSTRUCTED AIRWAY WARNING	Rapid cycling, audible and visual

## Highest Level of Standards

- Meets American Heart Association Recommendations for “Adjuncts for Oxygenation, Ventilation, and Airway Control” (Part III, Adult Advanced Cardiac Life Support of Guidelines for Cardiopulmonary Resuscitation and Emergency Care, 1992)
- The Oxylator EM-100 is a “Pressure Limited, Flow Triggered” Resuscitation and Inhalation System
- Classified under JAMA Guidelines as a Class 1 (One) Device
- Meets ASTM F920-85 Minimum Performance and Safety Requirements for Resuscitators Intended for Use with Humans
- Meets ISO 8382 Standards for Resuscitators Intended for Use with Humans
- Numerous Hospital and Field Clinical / Scientific Studies Posted at the Web Site: [www.cprmedic.com](http://www.cprmedic.com)
- FDA 510 (K) Clearance # K944349 Describes the Oxylator EM-100 as a Resuscitation and Inhalation System (March 31, 1995)

FDA Regulatory Class II (Two)  
FDA Product Code # 73 BTL

- **Military National/NATO Stock Number (NSN #) 6515-01-465-2119**

**Lifesaving Systems, Inc.**

3230 Moss Creek Drive  
Marietta, Georgia 30062-1366  
(770) 977-9907 Fax (770) 509-5743  
Web Site: [www.cprmedic.com](http://www.cprmedic.com)  
E-mail: [lsitcleve@aol.com](mailto:lsitcleve@aol.com)

**Distributed By:**