

OXYLATOR® TECHNOLOGY

5 YEAR WARRANTY

EM-100



The Oxylators EM-100 & EMX are “positive pressure” resuscitation and inhalation systems that use a patented, patient responsive technology. They require no power source other than a 50 PSI supply of compressed oxygen or air. They operate with either the mask or ET-tubes.

The Oxylators EM-100 & EMX are not “demand valves” or “vents”, but they are new technology pressure limited / flow triggered ventilation devices designed to replace the BVM during CPR/resuscitation and transport. They are very small, light weight, rugged, easy to use, and easy to “decon”.

The Oxylators EM-100 & EMX are ideal for confined space or toxic environment rescue, and offer “hands free” patient ventilation that also operates “in-sync” with chest compressions during CPR. Additionally, the Oxylators EM-100 & EMX can be supplied with “Butyl” rubber components for use in HAZMAT / MCI environments.

EMX / “Butyl” EMX



Mass Casualty / HAZMAT



Unique Operating Features for EM-100 & EMX

- Alerts to Airway Obstruction---“Stuttering” Sound
- “Positive Pressure” Ventilation---CPR / HAZMAT
- “Closed Ventilation”---HAZMAT/MCI Environments
- Option of “Butyl” Rubber Components---HAZMAT/MCI
- Alerts to Mask or ET-tube Leak---No Cycling Occurs
- Easily Used by Heavily Gloved Hand---HAZMAT/MCI
- Adaptable to SCBA Tank with SCBA Regulator---MCI/USAR
- Reduces Gastric Insufflation---Flow < 36 L/Min./<30 L/Min.
- Reduces Caregiver’s Fatigue---Hands Free Ventilation
- Delivers More Consistent AHA Required Volumes
- Built-in Inhalator Delivers Enriched Oxygen / Air Mix
- BPM Rate Changes = Lung Compliance Changes
- Keeps the Airway Open---Maintains 2 to 4 cmH₂O PEEP
- Patient Does Not “Buck” Ventilation as with “Vents”
- NO “Stacking” Occurs---Adapts to Exhalation Length
- Adapts to I : E Ratios---Patient Sets “Natural” BPM

What A Professional Said About The Oxylator Technology

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*

Oxylator EM-100 / Oxylator EMX Specifications & Differences (noted in red)

FEATURE	SPECIFICATIONS	SPECIFICATIONS
MODEL	OXYLATOR EM-100	OXYLATOR EMX
WEIGHT	0.25 kg; 0.55 lbs	0.25 kg; 0.55 lbs
DIMENSION (Diameter x Length)	57mm x 108 mm, 2.25 in x 4.25 in	57mm x 108 mm, 2.25 in x 4.25 in
MATERIAL OF HOUSING	Acetal	Acetal
REQUIRED SOURCE PRESSURE	45-80 psig, 3.0-5.5 bar	45-80 psig, 3.0-5.5 bar
REQUIRED FLOW (Source)	Min. 40 lpm (vs. 1.0 mm orifice)	Min. 40 lpm (vs. 1.0 mm orifice)
DEAD SPACE	22 ml	22 ml
INSPIRATORY FLOW RATE	36-40 lpm	30 lpm
MINUTE VOLUME DELIVERED	14 to 16 litres per minute (lpm)	10 to 12 litres per minute (lpm)
MIN. TIME OF OXYGEN SUPPLY	Cylinder vol. divided by 16 l/min	Cylinder vol. divided by 12 l/min
INHALATION / EXHALATION RATIO	1 : 1 to 1 : 2	1 : 1 to 1 : 2
PEEP	2 to 4 cm H ₂ O	2 to 4 cm H ₂ O
VENTILATORY FREQUENCY	Auto-adjusting to lung capacity	Auto-adjusting to lung capacity
RANGE OF PRESSURE RELIEF	25 - 50 cm H ₂ O, 18 - 38 mmHg	20 - 45 cm H₂O, 15 - 34 mmHg
EXPIRATORY RESISTANCE	Approximately 5 cm H ₂ O	Approximately 5 cm H ₂ O
SUITABLE BODY MASS RANGE	10 kg+, 22 lbs+	10 kg+, 22 lbs+
INHALATOR, OXYGEN/AIR MIXTURE	100% O ₂ at 14 to 15 Liters flow	100% O ₂ at 14 to 15 Liters flow
OXYGEN CONCENTRATION	100% during auto resuscitation mode	100% during auto resuscitation mode
VIRAL / BACTERIAL FILTER	Single use, disposable	Single use, disposable
MASK / AIRWAY CONNECTIONS	15 mm internal / 22 mm external	15 mm internal / 22 mm external
USAGE TEMPERATURE RANGE	(-30C to +60C) or (-22F to +140F)	(-30C to +60C) or (-22F to +140F)
STORAGE TEMPERATURE RANGE	(-40C to +70C) or (-40F to +158F)	(-40C to +70C) or (-40F to +158F)
OBSTRUCTED AIRWAY WARNING	Rapid cycling, audible and visual	Rapid cycling, audible and visual

Lifesaving Systems, Inc.

485 Abbeywood Drive
Roswell, GA 30075-3284
(770) 552-8696 Fax: (770) 552-8644
Web Site: www.Lifesavingsystemsinc.com
E-mail: Lsitcleve@aol.com
Manufacturer’s Web Site: www.cprmedic.com

National Stock Numbers:

Oxylator EM-100 NSN#6515-01-465-2119
Oxylator EMXbt NSN#6515-01-518-3892

Distributed By:

Resuscitation / Transport

