



SRAM & M RAM
GROUP



oxylator biz



OXYLATOR EMX



OXYLATOR FR-300



OXYLATOR HD

When every second counts!

CPR MEDICAL DEVICES INC.

Oxylator® FR-300



The Oxylator® FR-300 is an emergency resuscitator specially designed for first responders. Simple, one-button operation delivers optimal levels of oxygen and dramatically reduces complications associated with time-cycled devices and bag valve masks. The Oxylator® FR-300 automatically maintains adequate ventilation for each patient through an advanced pressure and flow sensing system. This patient-responsive resuscitator assures a constant flow rate and safe pressure limit during inspiration, and allows for passive exhalation.

- Reduces the risk of gastric insufflation and barotrauma common with the use of bag valve masks
- Eliminates "breath stacking" associated with time-cycled ventilation
- More efficient use of oxygen as power supply
- Single use, quick change viral/bacterial filter
- Audible and visual indication of airway obstruction
- Simple, one-button operation designed for single person rescue
- Light-weight, impact-resistant design
- Frees hands to focus on mask seal to improve airway management
- Easy cleaning and assembly
- Few moving parts, minimal maintenance required
- Manual and continuous cycling modes
- FIO₂ of 1.0 during resuscitation

CPR MEDICAL DEVICES INC.

Oxylator[®] FR-300

The Oxylator[®] FR-300 is sold with five disposable filters, one disposable mask, QC report and warranty card. Separate oxygen delivery kits may also be purchased. Please consult your distributor for details.

Feature

Specification

Model	Oxylator [®] FR-300
Weight	0.18 kg, or 0.40 lbs
Dimensions	48 mm X 100 mm, or 1.87 in X 3.94 in
Housing Material	Acetal
Oxygen Supply	Compatible with most tanks and regulators
Required Source Pressure	3.0-5.5 bar, or 45-80 psig
Required Flow Source	Minimum 40 Liters/Minute
Dead Space	20 ml
Inspiratory Flow Rate	Maximum 30 Liters/Minute
Minute Volume Delivered	10 -12 Liters/Minute (Auto Mode)
Average Time of Oxygen Supply	Cylinder Volume Divided by 12 liters/Minute
Average Inspiratory/Expiratory Ratio	1-1.5, or Manually Controlled
PEEP (Auto Mode Only)	2-4 cm H ₂ O
Ventilatory Frequency	Auto-Adjusting to Lung Capacity in Auto Mode
Pressure Relief	20 cm H ₂ O, 15 mm Hg
Expiratory Resistance	Approximately 5 cm H ₂ O in Manual Mode
Suitable Body Mass Range	Greater than 10 kg, or 22 lbs
Oxygen Concentration	100% During Resuscitation Mode
Filter	Single Use, Viral/Bacterial
Mask/Airway Connections	15mm Internal/ 22 mm External
Usage Temperature Range	-30 C to 60 C, or -22 F to 140 F
Storage Temperature Range	-40 C to 70 C, or -40 F to 158 F
Obstructed Airway Warning	Rapid Cycling, Audible and Visual
Oxygen Inlet Connection	DISS, ISO Standards
Warranty	Five year, maintenance free warranty

SpecificationCons are subject to change.

The Oxylator[®] FR-300 contains patented technology developed and manufactured by:

U.S. Patent No. 5,230,330

Global patents and further U.S. patents pending

Emergency-Ventilation with the OXYLATOR[®]

OXYLATOR[®] FR-300



- Open the main valve of the cylinder.
- Press the O₂ button and turn it clockwise.
- The OXYLATOR[®] is now in the automatic mode.



- Place the mask on the patient's face.
- Assure that there is a proper mask seal
- Hold the mask with both hands and tilt the head



- If there is a proper mask seal, the OXYLATOR[®] starts cycling automatically, ventilating the patient.
- The OXYLATOR[®] responds to the patient's lung.
- An audible, rapid "clicking" or buzzing indicates airway obstruction.



- Manual mask ventilation – press the O₂ button for inspiratory flow, release it for passive exhalation.
- Every second of inspiratory time delivers 500 ml of volume of oxygen towards the patient's airway.
- Watch the patient's chest rise.

The Oxylator® EMX is a patient responsive emergency resuscitation and inhalation management system designed for hospital and EMS personnel. It is simple, safe and effective and delivers optimal levels of oxygen in a resuscitation attempt and dramatically reduces complications associated with time-cycled ventilators and bag valve mask devices. As with other Oxylator® devices, the EMX automatically maintains adequate ventilation for each patient through a patented pressure and flow sensing system that allows for passive exhalation. Unique technology guides the care giver to provide proper airway management.

The Oxylator® EMX

- Reduces the risk of gastric insufflation during mask ventilation due to its low constant flow rate of 30 litres per minute
- Eliminates barotrauma because of a safe pressure limit range of 20 to 45cmH₂O
- Alerts to mask or tube leaks
- Gives the care giver an indication of the patient's lung condition and lets him/her change the ventilatory pattern by manipulating the pressure limits
- Delivers ALL oxygen to the patient; no oxygen is wasted to power the device as in time-cycled devices
- Frees hands to focus on mask seal to improve airway management
- Informs the care giver of poor lung condition
- Provides manual and continuous cycling modes
- Has an inhalation mode providing "enriched oxygen" for the spontaneously breathing patient
- Assists the shallowly breathing patient
- Eliminates "breath stacking" associated with time-cycled devices
- Offers audible and visual indication of an airway obstruction
- Assures FIO₂ of 1.0 during resuscitation
- Synchronizes automatically with chest compressions
- Reduces the care giver's fatigue
- Always maintains positive airway pressure in continuous cycling mode even at the end of the exhalation phase (2 to 4cmH₂O PEEP)



- Includes a single use, quick change viral/bacterial filter
- Is light weight, handy and impact resistant
- Allows for easy cleaning and assembly
- Requires minimal training
- Needs minimal maintenance due to few moving parts
- Offers a 5 year warranty
- Represents outstanding economic value

Emergency-Ventilation with the OXYLATOR®

OXYLATOR® EMX



- Open the main valve of the cylinder.
- Rotate the airway-pressure selector to 20 cmH₂O.



- Press the O₂ button and turn it clockwise
- Now the OXYLATOR® is in automatic mode



- Place the mask on the patient's face.
- Assure that there is a proper mask seal.
- Hold the mask with both hands and tilt the head.



- Manual mask ventilation – press the O₂ button for inspiratory flow, release it for passive exhalation.
- Every second of inspiratory time delivers 500 ml of volume of oxygen towards the patient's airway.
- Try to achieve an inspiratory time of 1.5 to 2 seconds not exceeding the pressure setting of 20 cmH₂O.



- If the patient is intubated, you can adjust the pressure setting between 20 – 45 cmH₂O to achieve 1.5 to 2 seconds of inspiratory time.



- Manual ventilation with an intubated patient - press the O₂ button for inspiratory flow, release it for passive exhalation.
- Every second of inspiratory time delivers 500 ml of volume of oxygen towards the patient's airway.



The addition of a capnometer or an ETCO₂ monitoring device to the OXYLATOR® allows you to adjust the OXYLATOR® to the patient's needs.

CPR MEDICAL DEVICES INC.

OXYLATOR[®] EMX

The OXYLATOR[®] EMX is sold with five disposable filters, QC report and warranty card. Separate oxygen delivery kits may also be purchased. Please consult your distributor for details.

Feature	Specification
Model	OXYLATOR [®] EMX
Weight	0.25 kg; 0.55 lbs
Dimension dia * length	2.25 in. * 4.25 in., 57mm * 108mm
Material of housing	Acetal
Required source pressure	between 45 psig to 80 psig, or between 3.0 bar and 5.5 bar
Required flow (source)	min. 30 litres per minute
Dead Space	20 millilitres
Inspiratory flow rate	30 litres per minute (max)
Minute volume delivered	10 to 12 litres per minute in auto mode
Min. time of oxygen supply	Cylinder vol. divided by 12 l/min
I : E ratio	1 : 1 to 1 : 2 or manually controlled
PEEP	2 to 4 cm H ₂ O in auto mode
Ventilatory frequency	Auto-adjusting to lung capacity in auto mode
Range of pressure relief	20 to 45 cm H ₂ O , 14.5 to 35 mm Hg
Expiratory resistance	approximately 5 cm H ₂ O in manual mode
Suitable body mass range	10 kg+, 22 lbs +
Inhalator flow	0 to 15 litres per minute of 100% O ₂
Oxygen concentration	100% during resuscitation mode
Filter	Single use, disposable
Mask/airway connections	15mm internal / 22mm external
Usage temperature range	- 30 C - + 60 C, - 22 F - +140 F
Storage temperature range	- 40 C - + 70 C, - 40 F - +158 F
Obstructed airway warning	Rapid cycling, audible and visual
Oxygen inlet connection	DISS, ISO standard or quick connect
Warranty	Five year, maintenance free warranty

SpecificationCons are subject to change.

The OXYLATOR[®] EMX contains patented technology developed and manufactured by:

U.S. Patent No. 5,230,330

Global patents and further U.S. patents pending

Oxylator® HD

The Oxylator® HD is a patient responsive emergency resuscitation and inhalation management system designed for hospital and EMS personnel. It is simple, safe and effective and delivers optimal levels of oxygen in a resuscitation attempt and dramatically reduces complications associated with time-cycled ventilators and bag valve mask devices. As with other Oxylator® devices, the HD automatically maintains adequate ventilation for each patient through a patented pressure and flow sensing system that allows for passive exhalation. Unique technology guides the care giver to provide proper airway management.

The Oxylator® HD

- Reduces the risk of gastric insufflation during mask ventilation due to its low constant flow rate of 30 litres per minute
- Eliminates barotrauma because of a safe pressure limit range of 15 to 30 cm H₂O
- Alerts to mask or tube leaks
- Gives the care giver an indication of the patient's lung condition and lets him/her change the ventilatory pattern by manipulating the pressure limits
- Delivers ALL oxygen to the patient; no oxygen is wasted to power the device as in time-cycled devices
- Frees hands to focus on mask seal to improve airway management
- Informs the care giver of poor lung condition
- Provides manual and continuous cycling modes
- Has an inhalation mode providing “enriched oxygen” for the spontaneously breathing patient
- Assists the shallowly breathing patient
- Eliminates “breath stacking” associated with time-cycled devices
- Offers audible and visual indication of an airway obstruction
- Assures FIO₂ of 1.0 during resuscitation
- Synchronizes automatically with chest compressions
- Reduces the care giver's fatigue
- Always maintains positive airway pressure in continuous cycling mode even at the end of the exhalation phase (2 to 4cmH₂O PEEP)

- Includes a single use, quick change viral/bacterial filter
- Is light weight, handy and impact resistant
- Allows for easy cleaning and assembly
- Requires minimal training
- Needs minimal maintenance due to few moving parts
- Offers a 5 year warranty
- Represents outstanding economic value



CPR MEDICAL DEVICES INC.

OXYLATOR[®] HD

The OXYLATOR[®] HD is sold with five disposable filters, QC report and warranty card.
Separate oxygen delivery kits may also be purchased. Please consult your distributor for details.

Feature

Specification

Model	OXYLATOR [®] HD
Weight	0.25 kg; 0.55 lbs
Dimension dia * length	2.25 in. * 4.25 in., 57mm * 108mm
Material of housing	Acetal
Required source pressure	between 45 psig to 80 psig, or between 3.0 bar and 5.5 bar
Required flow (source)	min. 30 litres per minute
Dead Space	20 millilitres
Inspiratory flow rate	30 litres per minute (max)
Minute volume delivered	10 to 12 litres per minute in auto mode
Min. time of oxygen supply	Cylinder vol. divided by 12 l/min
I : E ratio	1 : 1 to 1 : 2 or manually controlled
PEEP	2 to 4 cm H ₂ O in auto mode
Ventilatory frequency	Auto-adjusting to lung capacity in auto mode
Range of pressure relief	15 to 30 cm H ₂ O , 11 to 22 mm Hg
Expiratory resistance	approximately 5 cm H ₂ O in manual mode
Suitable body mass range	10 kg+, 22 lbs +
Inhalator flow	0 to 15 litres per minute of 100% O ₂
Oxygen concentration	100% during resuscitation mode
Filter	Single use, disposable
Mask/airway connections	15mm internal / 22mm external
Usage temperature range	- 30 C - + 60 C, - 22 F - +140 F
Storage temperature range	- 40 C - + 70 C, - 40 F - +158 F
Obstructed airway warning	Rapid cycling, audible and visual
Oxygen inlet connection	DISS, ISO standard or quick connect
Warranty	Five year, maintenance free warranty

SpecificationCons are subject to change.

The OXYLATOR[®] HD contains patented technology developed and manufactured by:

U.S. Patent No. 5,230,330

Global patents and further U.S. patents pending