









OXYLATOR FR-300

OXYLATOR HD

When every second counts!

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 timecycled 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
- FIO, of 1.0 during resuscitation

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

Model

Weight

Dimensions

Housing Material

Oxygen Supply

Required Source Pressure

Required Flow Source

Dead Space

Inspiratory Flow Rate

Minute Volume Delivered

Average Time of Oxygen Supply

Average Inspiratory/Expiratory Ratio

PEEP (Auto Mode Only)

Ventilatory Frequency

Pressure Relief

Expiratory Resistance

Suitable Body Mass Range

Oxygen Concentration

Filter

Mask/Airway Connections

Usage Temperature Range

Storage Temperature Range

Obstructed Airway Warning

Oxygen Inlet Connection

Warranty

Specification

Oxylator® FR-300

0.18 kg, or 0.40 lbs

48 mm X 100 mm, or 1.87 in X 3.94 in

Acetal

Compatible with most tanks and regulators

3.0-5.5 bar, or 45-80 psig

Minimum 40 Liters/Minute

20 ml

Maximum 30 Liters/Minute

10 -12 Liters/Minute (Auto Mode)

Cylinder Volume Divided by 12 liters/Minute

1-1.5, or Manually Controlled

2-4 cm H₂0

Auto-Adjusting to Lung Capacity in Auto Mode

20 cm H₂0, 15 mm Hg

Approximately 5 cm H₂0 in Manual Mode

Greater than 10 kg, or 22 lbs

100% During Resuscitation Mode

Single Use, Viral/Bacterial

15mm Internal/ 22 mm External

-30 C to 60 C, or -22 F to 140 F

-40 C to 70 C, or -40 F to 158 F

Rapid Cycling, Audible and Visual

DISS, ISO Standards

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®

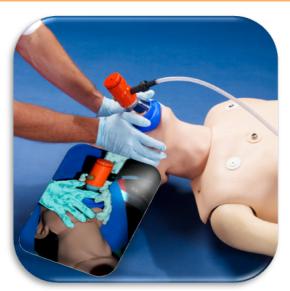
OXYLATOR® FR-300



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



- 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.



- Place the mask on the patient's face.
- o 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.
- Watch the patient's chest rise.

CPR MEDICAL DEVICES INC. Oxylator® EMX

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 FIO, 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 4cmH O PEEP)



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.



o 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 ETCO $_2$ monitoring device to the OXYLATOR $^{\circledR}$ allows you to adjust the OXYLATOR $^{\circledR}$ to the patient's needs.

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

Model Weight

Dimension dia * length Material of housing

Required source pressure

Required flow (source)

Dead Space

Inspiratory flow rate
Minute volume delivered
Min. time of oxygen supply

I : E ratio PEEP

Ventilatory frequency
Range of pressure relief
Expiratory resistance
Suitable body mass range

Inhalator flow

Oxygen concentration

Filter

Warranty

Mask/airway connections
Usage temperature range
Storage temperature range
Obstructed airway warning
Oxygen inlet connection

Specification

OXYLATOR [®] EMX 0.25 kg; 0.55 lbs

2.25 in. * 4.25 in., 57mm * 108mm

Acetal

between 45 psig to 80 psig, or between 3.0 bar and 5.5 bar min. 30 litres per minute

20 millilitres

30 litres per minute (max)

10 to 12 litres per minute in auto mode

Cylinder vol. divided by 12 l/min 1:1 to 1:2 or manually controlled

2 to 4 cm H₂O in auto mode

Auto-adjusting to lung capacity in auto mode

20 to 45 cm H₂O , 14.5 to 35 mm Hg

approximately 5 cm H₂O in manual mode

10 kg+, 22 lbs +

0 to 15 litres per minute of 100% O₂ 100% during resuscitation mode

Single use, disposable

15mm internal / 22mm external
- 30 C - + 60 C, - 22 F - +140 F
- 40 C - + 70 C, - 40 F - +158 F
Rapid cycling, audible and visual
DISS, ISO standard or quick connect
Five year, maintenance free warranty

SpecificationCons are subject to change.

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

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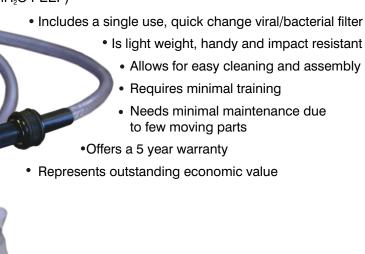
Global patents and further U.S. patents pending

CPR MEDICAL DEVICES INC. 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 FIO, 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)



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

Model Weight

Dimension dia * length Material of housing

Required source pressure

Required flow (source)

Dead Space

Inspiratory flow rate
Minute volume delivered
Min. time of oxygen supply

I : E ratio PEEP

Ventilatory frequency
Range of pressure relief
Expiratory resistance

Suitable body mass range

Inhalator flow

Oxygen concentration

Filter

Warranty

Mask/airway connections
Usage temperature range
Storage temperature range
Obstructed airway warning
Oxygen inlet connection

Specification

OXYLATOR [®] HD 0.25 kg; 0.55 lbs

2.25 in. * 4.25 in., 57mm * 108mm

Acetal

between 45 psig to 80 psig, or between 3.0 bar and 5.5 bar min. 30 litres per minute

20 millilitres

30 litres per minute (max)

10 to 12 litres per minute in auto mode

Cylinder vol. divided by 12 l/min 1:1 to 1:2 or manually controlled

2 to 4 cm H₂O in auto mode

Auto-adjusting to lung capacity in auto mode

15 to 30 cm H₂O , 11 to 22 mm Hg

approximately 5 cm H₂O in manual mode

10 kg+, 22 lbs +

0 to 15 litres per minute of 100% O₂ 100% during resuscitation mode

Single use, disposable

15mm internal / 22mm external
- 30 C - + 60 C, - 22 F - +140 F
- 40 C - + 70 C, - 40 F - +158 F
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