

# SMART BAG® MO

## Cold Chemical Sterilizable Bag-Valve-Mask Resuscitator

“The Most Revolutionary Advance in BVM Design for Over 40 years”!



01BM3400-MO



01BM3410-MO

The **SMART BAG®MO** Cold Chemical Sterilizable Bag Valve Mask Resuscitator is a reusable device for manual ventilation. The **SMART BAG®MO** offers accurate controlled ventilation that significantly reduces the risk of gastric insufflation. The patient’s airway pressure is maintained at an optimally low level due to the **SMART®** technology in the bag that responds to both the rescuer’s squeeze of the bag and the patient’s own respiratory condition. It is designed for use in various clinical settings to provide respiratory support to the respiratory distressed or non-breathing patient.

The Child resuscitator comes standard with a Pressure Relief Valve set at 40 cm H<sub>2</sub>O which can be overridden by the operator. A pressure relief system, set at either 40 cm H<sub>2</sub>O or 60 cm H<sub>2</sub>O, is available for the Adult resuscitator. When used with a supplemental oxygen supply, the device may provide 100% oxygen on every squeeze of the bag.

When difficulties arise in obtaining an effective mask seal, or the patient’s respiratory condition requires the provision of high flow rates and an increase in airway pressure, the “**MANUAL OVERRIDE**” switch on the **SMART BAG® MO** allows the rescuer to “**Disable**” the **SMART®** technology and use the **SMART BAG® MO** as a standard BVM. Please note that the use of the manual override switch will increase the risk of inadvertent hyperventilation and gastric insufflation.

### Preparation for use

1. Inspect the **SMART BAG® MO** resuscitator to ensure that all components are present and properly assembled.
2. Test for leaks by occluding the patient port completely squeezing the bag (Any leaks in the system may prevent the delivery of a sufficient volume to the patient).
3. Squeeze and release the **SMART BAG® MO** hard a few times to ensure that air is moving through the valve system to the mask. The **SMART®** Valve in the neck of the bag should move freely indicating increased airway pressure and you should notice an immediate increase in bag tension (stiffness).
4. Gently squeeze and release the **SMART BAG®MO** a few times to ensure that the bag tension is

reduced and the **SMART®** Valve in the neck of the bag does not move forward when you gently squeeze. This provides confirmation that the airway pressure will be kept to the minimum required for adequate ventilation to occur while reducing the risk of gastric insufflation.

5. If using supplemental oxygen, attach the reservoir system to the bag refill port and ensure that the oxygen tubing is attached to an oxygen source with a flow rate of at least 15 L/min. Ensure that the collapsible reservoir system is fully extended to allow maximum oxygen storage.

### Directions for use:

1. Select the appropriate **SMART BAG® MO** resuscitator model for the size of patient to be ventilated.
2. Ensure that the patient’s airway is clear of any obstructions and remains open by properly positioning the patient’s head in accordance with local protocols.
3. Maintain a proper mask-to-face seal with one hand by lifting the chin upward with the last three fingers of the hand. Keep the index finger and thumb on top of the mask to form a tight seal around the patient’s mouth and nose.
4. Gently squeeze the **SMART BAG® MO** with the other hand until the chest rises, then release. Ventilate the patient with a steady squeeze and release of the **SMART BAG® MO** sufficient time between ventilations to allow for full emptying of the patient’s lungs.
5. If the child **SMART BAG® MO** is being used and the Pressure Relief override is required to be applied, depress the Pressure Relief Button and rotate 90° to lock in place. To unlock simply rotate the button until the arrow lines up with the arrow on the patient valve and release.
6. If you are unable to affect a positive mask seal/good airway control, rotate the lock out mechanism to lock out the **SMART®** valve.



Oxygen concentration (%) delivered by Adult SMART BAG® MO Resuscitator (values in parentheses are without an oxygen reservoir)						
O <sub>2</sub> Input l/min	Tidal Volume (ml) x Ventilation Frequency (BPM)					
	600 X 12	600 x 20	750 X 12	750 X 20	1000 X 12	1000 X 20
5	82 (32)	58 (34)	65 (34)	50 (30)	55 (31)	45 (31)
10	97 (37)	80 (38)	97 (37)	97 (36)	88 (36)	62 (36)
15	99 (46)	97 (45)	99 (46)	99 (44)	97 (44)	90 (46)

Oxygen concentration (%) delivered by Child SMART BAG® MO Resuscitator (values in parentheses are without an oxygen reservoir)			
O <sub>2</sub> Input l/min	Tidal Volume (ml) x Ventilation Frequency (BPM)		
	70 X 30	200 X 30	300 X 30
5	96 (66)	59 (38)	45 (33)
10	97 (82)	97 (48)	69 (38)
15	97 (89)	97 (48)	97 (48)

### Cleaning methods:

1. Disassemble all parts for Cleaning. Do not attempt to disassemble the SMART BAG® MO Piston, Lever and Pressure Relief Valve Assembly (where applicable), as they can be easily cleaned without disassembly.
2. Wash parts thoroughly in warm water using a mild detergent. Ensure that the detergent is compatible with resuscitation equipment.
3. Rinse all parts thoroughly in clean water to remove all traces of the detergent.

### Disinfection methods:

1. Automatic washing machine designed for disinfecting medical accessories by heating can be used for the parts.
2. Boiling: Immerse the parts in clean tap water, heat to boiling and kept for 10 minutes for disinfection.
3. Cydex or 10% bleach liquid can be used on all parts except reservoir. After exposing the parts to the chemical disinfectant, rinse all parts thoroughly in clean water to remove the residues.

#### Restriction on the number of reuses:

Reusable SMART BAG MO manual resuscitators may be disinfected/sterilized at least 30 times. Discontinue use and discard the SMART BAG MO should material discoloration/ deterioration be observed.

## SPECIFICATIONS

Storage Temperature: -40°C to 60°C (-40°F to 140°F)

Operating Temperature: -18°C to 50°C (0°F to 122°F)

Patient Valve Dead space: 7.0 ml

Reservoir volume: 2700 ml

Inspiratory Resistance: 3.3cm H<sub>2</sub>O

Expiratory Resistance: 2.2cm H<sub>2</sub>O

Bag Volume: Adult 1700 ml  
Child 470 ml

Stroke Volume: Adult 900 ml  
Child 250 ml

Maximum Cycle Rate: Adult 45 BPM  
Child 100 BPM

Pressure Relief: Adult Optional 40 or 60 cmH<sub>2</sub>O  
Child 40 cmH<sub>2</sub>O

## Warnings:

The SMART BAG® MO Cold Chemical Sterilizable Bag Valve Mask Resuscitator should only be used by personnel trained in Cardio Pulmonary Resuscitation and in the use of this device.

Use only as directed. Improper use or Unauthorized modification of this product may result in user or patient injury.

## Caution:

Federal (USA) law restricts this device to sale by or on the order of a physician.

## ORDERING INFORMATION

### 01BM3400-MO

Cold Chemical Sterilizable SMART BAG® MO (Adult)  
c/w Facemask and Reservoir System

### 01BM3410-MO

Cold Chemical Sterilizable SMART BAG® MO (Child)  
c/w Facemask and Reservoir System

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