

1. WARNING

WARNING : Do not use the resuscitator in toxic atmospheres.

WARNING : Remove the oxygen reservoir bag if supplemental oxygen is not being administered.

Failure to do so will affect the refill rate and maximum frequency capabilities.

WARNING : Do not administer supplemental oxygen in the presence of open flames.

WARNING : Do not use oil, grease or other hydrocarbon-based substances on any part of the resuscitator.

Supplemental oxygen, supplied under pressure, can combine with hydrocarbon and cause explosions.

WARNING : This device is intended for qualified medical and emergency personnel trained in pulmonary ventilation and advanced cardiac life support techniques.

WARNING : Always test the device in accordance with this manual after cleaning and disinfection or replacement of parts.

WARNING : All parts, excluding reservoir bag & oxygen tubing, are autoclavable.

WARNING : Do not use the pressure relief valve over-rid mechanism for the child and infant resuscitator.

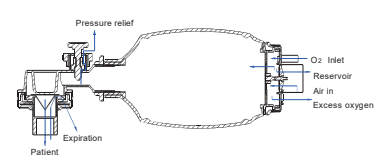
WARNING : Use only replacement parts intended for use on Silicone Manual Resuscitators.

WARNING : Do not attempt to disassemble the pressure relief valve assembly. Disassembly will damage the component.

2. SPECIFICATION

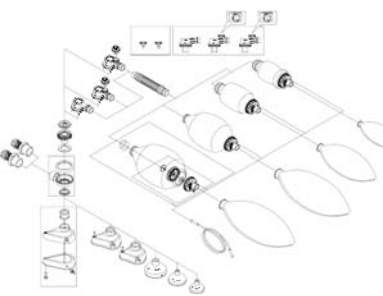
Storage temperature: -40°C/-40°F to 70°C/158°F	
Operating temperature: -18°C/0°F to 50°C/122°F	
<b>Material</b>	
Silicone rubber	Duckbill valve, Mushroom valve, Exhalation disk membrane, Relief valve seal, Bag body
Polycarbonate	Non-rebreathing valve housing, Reservoir bag connector, All-in-one intake valve housing, Pressure relief valve stem & cap.
Polyvinyl chloride	Oxygen reservoir bag, Oxygen tubing
Stainless steel	Pressure relief valve spring
Hytrei	Neck bushing
<b>Connection</b>	
Patient port:	15mmID/22mm OD
Silicone bag neck:	24mmID
Reservoir valve:	25mmOD/22mmID
Oxygen gas inlet:	6mmOD
<b>Dead space</b>	
Non-rebreathing valve	7 ml
Adult Mask	150 ml
Child Mask	95 ml
Infant Mask	28 ml
Pressure Relief:	60±10cm H <sub>2</sub> O (Adult)
	40±5cm H <sub>2</sub> O (Infant & Child)
<b>Reservoir volume</b>	
	2500ml (Adult and Child model)
	600ml (Infant model)
<b>Bag volume</b>	
	1500/1350 (adult model)
	550/350ml (child model)
	280/160ml (infant model)
<b>Maximum BPM</b>	
	45 breaths/min. (Adult model)
	105 breaths/min. (Child model)
	98 breaths/min. (Infant)
<b>Oxygen Concentration</b>	
with reservoir	99%
without reservoir	45% (Adult and Child model)
	90% (Infant model)

3. PRINCIPLE OF OPERATION



The figure shows how the ventilation gas mixture flows into the bag and to and from the patient during manual operation of the resuscitator. The gas flow is similar when the patient breathing spontaneously through the device.

4. ASSEMBLY VIEW



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P90-00106 Ver.01

R7 Resuscitator, Adult, w/Mask  
INSTRUCTION MANUAL

AR0011 (2223)



5. OPERATION INSTRUCTION

Caution: personnel must be thoroughly trained in the correct application of the face mask before any attempt is made to use a resuscitator.

- Place victim on back.
- Clear mouth and throat of foreign material.
- Insert oropharyngeal airway (if available), in accordance with the manufacture's directions, to open the patient's mouth and prevent tongue from occluding the airway.
- Position yourself behind the patient's head, extend the head back and pull the chin upwards and towards you to open the airway.
- Hold mask firmly in place over the mouth and nose with thumb and index finger, using other fingers to grip the chin.
- Inflate the lung by compressing resuscitator bag with the other hand. Develop rhythmic pattern allowing for adequate inspiratory/ expiratory time.
- Make sure the ventilation is working properly.
  - Observe rise and fall of the patient's chest.
  - Check the patient's lip and face color through the transparent part of the face mask.
  - Check that the patient valve is working properly through the transparent housing.
  - Check that the interior of the mask is being "fogged" during exhalation.

6. TESTING THE RESUSCITATOR

The Silicone Manual Resuscitator should be tested as follows:

- when first using the new resuscitator
- after cleaning and disinfection
- after any new parts have been fitted
- monthly, if the resuscitator is not frequently used.

**Equipment required:**  
Test lung, 0-100cmH<sub>2</sub>O manometer (for infant and Child resuscitator only), flow meter, regulated gas supply, gas supply tubing.

- Testing the silicone bag assembly**
- Remove the non-rebreathing valve and the oxygen reservoir bag (if fitted).
  - Compress the bag and occlude (block) the non-rebreathing valve outlet.
  - Release the bag. The bag should expand immediately and refill. If not, check the intake valve at the inside base assembly of the bag assembly is correctly assembled (**4. ASSEMBLY VIEW**)
  - While keeping the non-rebreathing valve outlet blocked, compress the bag again. The bag should not be compressed easily. If this occurs, check if you are blocking the valve sufficiently, and that the intake valve at the inside base of the bag assembly is correctly assembled.

- Testing the Non-rebreathing valve assembly**
- Connect the non-rebreathing valve to the bag. Connect the test lung to the outlet on the non-rebreathing valve.
  - Compress and hold the bag. The non-rebreathing valve inside (duckbill) should open and the test lung should fill. If not, check the connection between the resuscitator and the test lung, and check that the non-rebreathing valve is correctly assembled.
  - Release the bag. The non-rebreathing (duckbill) valve should close and as the test lung deflates, gas should flow through the expiratory port in the non-rebreathing valve inside (duckbill). If not, check the non-rebreathing valve is correctly assembled.

- Ventilate the test lung for a minimum of ten cycles to ensure that the resuscitator is functioning correctly. Inspiration must occur when the silicone bag is compressed and exhalation when the bag is released. If not, check the non-rebreathing valve is correctly assembled.

**To check the function of the pressure relief valve (Infant and Child Resuscitators)**  
Connect a 0-100cmH<sub>2</sub>O manometer to the patient outlet of the non-rebreathing valve. Compress the bag. When the pressure relief valve activates, the manometer should read 35-45cmH<sub>2</sub>O. If not, check the non-rebreathing valve is correctly assembled and does not leak. If the pressure relief valve fails a further test, it must be replaced. Do not attempt to repair the pressure relief valve.

- Testing the Reservoir Valve assembly**
- Attach the oxygen reservoir bag to resuscitator.
  - Inflate the reservoir bag and block the outlet of non-rebreathing valve.
  - Compress the reservoir bag. Gas should escape through the safety outlet valve on the reservoir valve at the outside base of bag assembly. If not, check the reservoir valve is correctly assembled.
- (4. ASSEMBLY VIEW)**
- Cycle the resuscitator through several ventilations. The safety inlet valve on the reservoir valve at the outside base of bag assembly should open during each refill to allow room air to enter the bag. If not, check that the reservoir valve is correctly assembled.

Note: If supplemental oxygen is not connected, the bag will refill more slowly if the reservoir bag is still attached.

**Overall resuscitator function**  
1. fully assemble the resuscitator (non-rebreathing valve, bag and oxygen reservoir). Connect the Resuscitator to a supplemental gas source and connect a test lung to the patient outlet and the non-rebreathing valve.

- Set the supplemental gas flow to 15 liters per minute for the adult and child model; and 10 liters per minute for the infant model.
- Cycle the resuscitator through several ventilation. The test lung should inflate during inspiration and deflate during exhalation. Check for leakage at all joint and connections. Ensure that the resuscitator refill promptly and properly and that all valves are operating correctly. If not, repeat the test above to find where the problem lies.

7. REORDER NUMBER

AR0066(2213)	Rescu-7 Resuscitator, Adult w/Mask, Reservoir
AR0067(2243)	R7 Resuscitator, Child w/Mask, Reservoir
AR0011(2223)	R7 Resuscitator, Adult, w/Mask
AR0070(2253)	R7 Resuscitator, Infant w/Mask
AM0004(5120)	Sil.Flex Mask, #0
AM0005(5121)	Sil.Flex Mask, #1
AM0016(5122)	Sil.Flex Mask, #2
AM0006(5133)	Sil.Flex Mask, #3
AM0084(5134)	Sil.Flex Mask, #4
AM0007(5135)	Sil.Flex Mask, #5
AR0007(22007)	R7 NRV, Adult
AR0065(22008)	Rescu-7 NRV, 60cmH <sub>2</sub> O
AR0005(2033)	Rescu-7 Diverter, 30/26mm