VT2000 INFANT RESUSCITATION TRAINING KIT

DEMONSTRATION & TRAINING RESOURCE

The VT2000 Infant Manual Ventilation Training Kit is designed to illustrate the effect excessive delivered pressure has on infants during manual ventilation. Excessive pressure during positive pressure ventilation can lead to barotrauma or pneumothoraces. The VT2000 can also provide an opportunity to train on the use of hyperinflation systems surrounding adjustment of the pressure relief valve as well as familiarizing clinicians with the function of the pop-off.

Ventlab® brand infant manual ventilation systems feature an integrated color-coded pressure manometer. This product innovation effectively promotes proper pressure delivery to reduce barotrauma. Different color-coded fields alert to the risk level of excessive delivered pressure to babies' fragile lungs. Another innovation that this product introduces is an optional 25 cm H_2O pressure pop-off to provide an additional level of safety. This will help to ensure that the pressures delivered during manual ventilation are as close as possible to the pressures used with your conventional ventilators. Together, these two innovations will provide the safest option for manual ventilation of your babies when used properly by your clinicians.

NICU clinicians, students and product representatives alike can benefit from using the VT2000 to learn about and demonstrate pressure delivery, while increasing their confidence performing resuscitation on infants using Ventlab brand manual ventilation systems.

The VT2000 Infant Manual Ventilation Training Kit and its individual components are NOT intended for patient use; it is strictly a demonstration device and practice tool.

TRAINING KIT COMPONENT LIST

HYPERINFLATION SYSTEM (HS4051, HS4054)
0.5 L Inflation Bag
Stay Put Dial
Patient Valve with Integrated Pressure Manometer
Pop-Off on System 1: 40 cm H_2O
Pop-Off on System 2: 25 cm H_2O
7' O_2 Tubing

INFANT AIRFLOW MANUAL VENTILATION SYSTEM (AF3140MB)
Infant PVC Bag (300 mL)
Patient Valve with Integrated Pressure Manometer
BF102 Filter (19 ID x 30 OD)
40 cm H_2O Pop-Off
Oxygen Reservoir Bag
7' O_2 Tubing

TEST LUNG
Infant Test Lung Balloon

SUPPORT AND REFERENCE MATERIALS
Duffel Bag

INFANT V-CARE MANUAL VENTILATION SYSTEM (VN340MB)
Infant Silicone Bag (300 mL)
Patient Valve with Integrated Pressure Manometer
25 cm H_2O Pop-Off
Oxygen Reservoir Bag
7' O_2 Tubing

INFANT SAFE SPOT MANUAL VENTILATION SYSTEM (SS3200MB)
Infant Silicone Bag (300 mL)
Patient Valve with Integrated Pressure Manometer
40 cm H_2O Pop-Off
Oxygen Reservoir Bag
7' O_2 Tubing

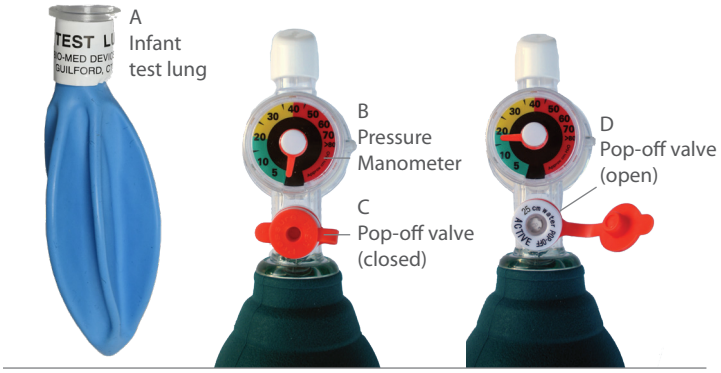
FACE MASKS
Vent Mask - Small Infant and Infant Sizes
Vent Mask II - X-Small Neonate, Small Neonate, Small Infant and Infant Sizes
7' O_2 Tubing

VT2000 INFANT RESUSCITATION TRAINING KIT

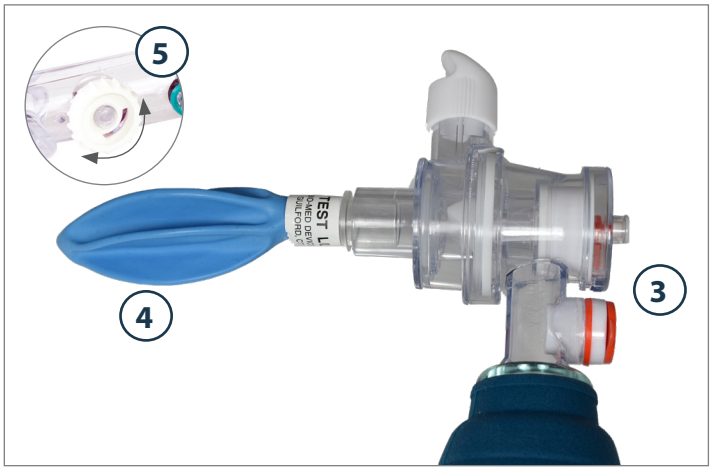
INSTRUCTIONS FOR USE

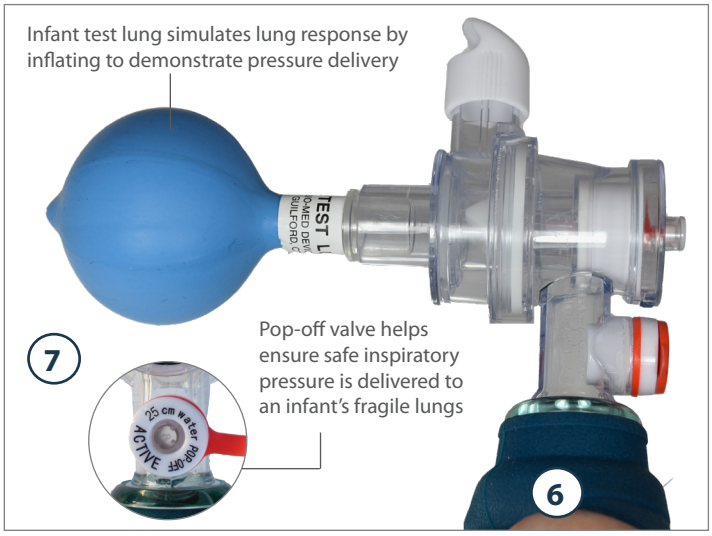
The VT2000 Infant Manual Ventilation Training Kit includes two infant test lungs (A), three manual ventilation bags and two hyperinflation systems, all of which feature an integrated pressure manometer (B) and pop-off valve (C/D).

Prior to use: When using the hyperinflation system, connect oxygen tubing to the port closest to the patient end. Ensure the port near the bag body is capped.



1. Remove either a manual ventilation bag or hyperinflation system from the kit. Connect tubing to oxygen source and adjust flow between 8-10 LPM.
2. When using a manual ventilation bag or hyperinflation system with integrated pressure manometer, occlude patient end verifying that needle shows proper movement.
3. Make sure orange cap on pop-off is loose and not plugging the valve. This will activate the pop-off at 25 cm H_2O or 40 cm H_2O, depending on which pop-off is used. To override the pop-off allowing for higher pressure, cap the pop- off with the orange cap. Use of the hyperinflation system:
4. Occlude patient end and adjust thumb wheel clockwise to achieve desired inspiratory pressure; 20 cm H_2O is the recommended starting pressure for this training tool. Unblock patient end releasing system pressure. Adjust as needed.
5. Attach the infant test lung to the patient port on the manual ventilation/hyperinflation system.
6. If using the hyperinflation system, adjust the thumb wheel to achieve desired PEEP level at this time (ie: 5 cm H_2O).
7. Begin manual ventilation by gently squeezing the bag body of the ventilation/hyperinflation system. The infant test lung will inflate, simulating pressure delivered to an infant's lungs.
8. While squeezing the bag body, monitor the needle on the pressure manometer. With the pop-off activated, the needle will remain below the red field of the manometer dial. The pop-off functions as a safety mechanism to prevent over-pressurization of an infant's lungs.





Integrated Pressure Manometer
Ventlab's innovative color-coded dial clearly denotes pressure delivery:

Green - Target pressure level <20 cm H_2O
Yellow - Potentially dangerous pressure level
Red - Dangerous pressure level

LIT-10049 Rev.1