SUREVENT The Redefines the "B" in the ABC's



The SUREVENT[™] can be used with a face mask or E.T. tube and is well suited for use by both BLS and ALS providers.



- *S* ingle patient use, no cleaning or calibration
- Uninterrupted ventilations, pressure cycled device
- **R**eliable performance for breathing & apneic patients
- **E**xtremely light & compact, weighs only 4 ounces
- Var-Plus model for patients 10kg and above
- *E* nables hands-free operation
- No complicated set-up, safe for MRI/CT scan
- **T**ested & exceeds Federal 72-hour Response Time¹

AUTOMATIC EMERGENCY VENTILATOR

The *SUREVENT*[™] is the first disposable automatic ventilator designed for pre-hospital emergency care providers. Utilizing a continuous gas flow source, the *SUREVENT* provides smooth, reliable ventilatory support via a mask or endotracheal tube. The *SUREVENT* will deliver more consistent ventilation than can be achieved with a manual BVM resuscitator in the prehospital environment. Created for the short-term delivery of ventilatory support, the *SUREVENT* is ideal for everyday emergency care situations, as well as large scale disasters and mass casualty incidents.

Simplicity of Use • Consistency of Ventilation

HARTWELL MEDICAL

Creating Quality Products for Life

SUREVENT[™] SV 2131 & SV 5011EP Specifications

SUREVENT PRODUCT COMPARISON

	SUREVENT TM	Oxylator EM-100 ^{TT}	Bag Valve Mask (BVM)					
DISPOSABLE	Yes	No	Yes					
FIO ₂ DELIVERY	100%	100%	100%					
FLOWRATE REQUIRED	15-40 LPM	50 PSI gas	15-40 LPM					
SUREVENT OPERATIONAL CHARACTERISTICS								
CHARACTERISTICS	MOL	DEL SV 2131	MODEL SV 5011EP					
Recommended patient's body weight	40kg and above		10kg and above					
Ventilatory frequency	8 to 20 BPM		Auto-adjusting to lung capacity					
Adjustable peak pressure range	20 to 50 cm H_2O		10 to 45cm H_2O					
PEEP (% of peak pressure)	2 to 5 cm H ₂ O (1	0%)	2 to 9cm H ₂ O (20%)					
High pressure relief valve	60 ± 10% cm H ₂ 0	C	$60 \pm 10\% \text{ cm H}_2\text{O}$					
Inspiratory resistance	$3 \pm 1 \text{ cm H}_2\text{O/L/sec}$		$3 \pm 1 \text{ cm H}_2\text{O/L/sec}$					
Expiratory resistance	$3 \pm 1 \text{ cm H}_2\text{O/L/s}$	sec	$3 \pm 1 \text{ cm H}_2\text{O/L/sec}$					
Dead space	4 ± 3mL		4 ± 3mL					
Operating environmental limits	0 to 122° F (-18°	to 50° C)	0 to 122° F (-18° to 50° C)					
Storage environmental limits	-40° to 140° F (-4	-40° to 140° F (-40° to 60° C) -40° to 140° F (-40° to 60° C)						
Patient connection	15 mm female, 2	15 mm female, 22 mm male 15 mm female, 22 mm m						
Oxygen source connection	DISS connection	/barb fitting	DISS connection/barb fitting					
Oxygen tubing connection to SURE V	/ENT DISS connection		DISS connection					
Oxygen concentration	Meets ASTM sta	ndard F920-93, > 85% O ₂	Meets ASTM standard F920-93, $> 85\% O_2$					
Approximate dimensions	8.5" x 3.3" x 2.5" (2	3.5" x 3.3" x 2.5" (21.6cm x 8.4cm x 4 cm x 6.4cm) 8.5" x 3.3" x 2.5" (21.6cm x 8.4cm x						
Approximate weight	4 ounces (110 +/-	110 +/- 10 grams) 5.1 ounces (140 +/- 10 grams)						

SUREVENT PACKAGING CONFIGURATION

	Order <u>Number</u>	Case <u>Quantity</u>	Oxygen <u>tubing</u>	Pressure <u>Manometer</u>	6" L Flex <u>hose</u>
SURE <i>VENT</i>	SV 2131	4 or 10	7' L	Included	Included
VAR Plus	SV 5011EP	10	7' L	Included	Included

SUREVENT CLINICAL REFERENCES

- 1. Springer, B, Olson J, Dandelet L, Sarlay R. *Reliable function of a disposable transport ventilator in extended use*. Proceedings: 16th Annual Society for Academic Emergency Medicine Midwest Regional Meeting, 9/25/2006.
- Lauder, Craig, D.O.: Comparison of the Bag-Valve-Mask and Portable Ventilators in Both a Nonintubated and Intubated Manikin Model in an EMS Application. Presented at National Association of EMS Physicians (NAEMSP) Conference, January 2001.
- 3. Romano, M.: Compatibility of the RespirTechPRO in the MRI unit. Presented at AARC International Respiratory Congress, October 7-10, 2000.
- 4. Albertson, Timothy E. MD, PhD, et al: The Stability of Arterial Blood Gasses during Transportation of Patients Using the RespirTechPRO. *The American Journal of Emergency Medicine*, May 2000.*
- 5. Thomson, G.: Simulation of Closed Chest Compression on Mechanical Test Lung. Presented at AARC International Respiratory Congress, December 13-16, 1999.
- Rsabe, Otto G. PhD: Comparison of RespirTechPRO and Self-Inflating Bag Valve Resuscitators during Simulated CPR Chest Compression. Submitted to *Respiratory Care*, July 1999.

*SUREVENT is a trademark of Hartwell Medical. This product was previously marketed as the RespirTechPRO™.

HARTWELL MEDICAL

6352 Corte del Abeto, Suite J Carlsbad, CA 92011-1408 800-633-5900 760-438-5500 Tel 760-438-2783 Fax www.HartwellMedical.com

To order the *SURE*VENT[™] Call 800-633-5900

Creating Quality Products for Life