

The Vest® System by Hill-Rom vs. RespiTech® inCourage® System

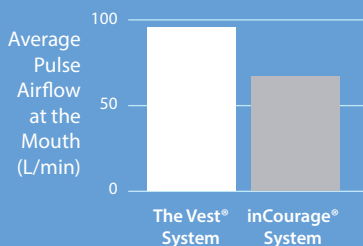
Design Matters When Selecting an Airway Clearance System

The Vest® System with True Flow™ design includes a uniquely designed airflow generator that delivers a comfortable, consistent air volume to the garment. This results in predictable airflow performance that increases as the frequency increases.¹

The inCourage® system design delivers air volume that is periodically interrupted and actively vented, and uses what is referred to as a “triangle waveform”. Unfortunately, testing of this design shows the pulse *airflow generated decreases as the frequency increases*.^{1,2}



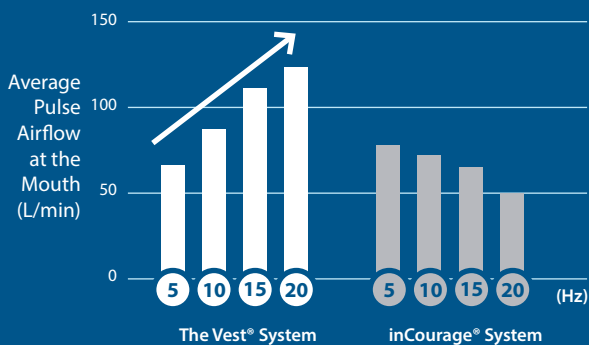
Airflow Comparison



**30%
more
airflow.¹**

True Flow™ Design Delivers More Airflow

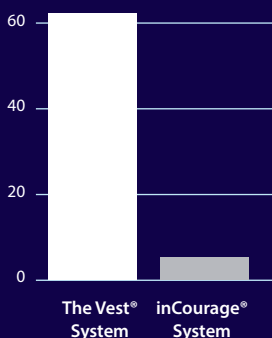
The Vest® System by Hill-Rom has a True Flow™ design that results in **30% more airflow**.¹ Airflow bias is required for appropriate secretion movement.^{2,3}



True Flow™ Design Delivers Airflow Performance

With The Vest® System, **airflow increases** as the frequency setting is increased, while with the inCourage system airflow decreases.¹

Peer-Reviewed Clinical
Articles and Abstracts



**10x
the clinical
evidence⁴**

*of other airway
clearance systems
combined.*

Proven Clinical Outcomes

Currently in its 5th generation, The Vest® System has more than 25 years of peer-reviewed clinical articles. In one study, **94% of patients** who used The Vest® System had better than expected lung function scores after an average of 22 months based on the previous two years of manual CPT.⁴⁻⁷

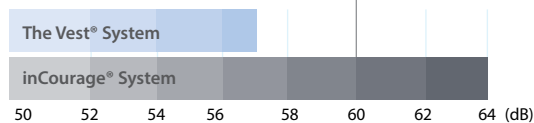
The Vest® System by Hill-Rom vs. RespirTech® inCourage® System

The Vest® System by Hill-Rom with True Flow™ Design for Proven Performance

Sounds
50%
quieter

True Flow™ design results in a quieter environment.^{9,10}

Noise Comparison



* A comfortable hearing level is typically considered at 60 dB and lower.



Maintenance free operation.

No need to hassle with periodic filter changes.⁸

Multiple garment options in a wide range of sizes:

- C3® Machine Washable/Dryable garment with soft brushed fabric and DuPont™ Teflon® fabric protector
- Classic Full, Chest, and Wrap garment styles also available

Bluetooth®-enabled VisiVest™ System, connecting patients and care teams for stronger partnership.

Hill-Rom offers world class customer service and cost effective access to therapies.



Highly rated
network of service
professionals¹¹



900
payers



250
government
payers



700
diagnosis
codes covered¹²



Patient
financial
assistance

References:

1. Independent lab testing analyzed and compared average airflows at the mouth generated by high frequency chest wall oscillation (HFCWO) therapy in 10 subjects using home care garments. Airflows measured at commonly prescribed medium pressures (50% of maximum) at multiple therapy frequencies (5, 10, 15, and 20 Hz). Test data and reports on file at Hill-Rom, Inc.
2. King M, et al. Tracheal mucus clearance in high-frequency oscillation. II: Chest wall versus mouth oscillation. *Am Rev Respir Dis*, 1984. 130(5): p. 703-6.
3. Freitag L, et al. Removal of excessive bronchial secretions by asymmetric high-frequency oscillations. *J Appl Physiol* 1989; 67: 614-9.
4. Clinical studies with patients using HFCWO therapy as listed in a PubMed search through 2015. Includes HFCWO devices from Hill-Rom and RespirTech. On file at Hill-Rom, Inc.
5. Warwick W, Hansen L. The long-term effect of high-frequency chest compression therapy on pulmonary complications of cystic fibrosis. *Pediatr Pulmonol* 1991; 11: 265-271.
6. Nicolini A, Cardini F, Landucci N, et al. Effectiveness of treatment with high-frequency chest wall oscillation in patients with bronchiectasis. *BMC Pulm Med* 2013; 13:21.
7. Report prepared by Milliman for Hill-Rom on January 16, 2012. Results in this report are technical in nature and are dependent upon specific assumptions and methods. Reference on file at Hill-Rom, Inc.
8. The Vest® System, Model 105 User Manual (145330) states that periodic cleaning is required. The inCourage System instruction manual 900000-000 Rev 5 states that cleaning and periodic filter replacement are required.
9. Sound testing results based on an average noise level at 4 microphone positions at 1 meter. Sound for each device measured at medium pressure at frequencies of 5, 10, 15, and 20Hz. A comfortable hearing level is typically considered at 60 dB and lower. Reference on file at Hill-Rom, Inc.
10. About the connection between sound level and loudness, there are various theories. Research by Richard M. Warren leads to a level difference of 6 dB.* This means that a double sound pressure corresponds to a double loudness. Richard M. Warren, "Elimination of Biases in Loudness Judgments for Tones."
11. Customer satisfaction survey, September 2016. On file at Hill-Rom, Inc.
12. Data on file at Hill-Rom, Inc. December 2016. Diagnosis codes based on ICD-9 and ICD-10 codes.

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