

# PHILIPS

## InCourage

## The clear choice for airway clearance therapy

High frequency chest wall oscillation (HFCWO) therapy helps improve breathing<sup>1</sup> and reduce lung infections<sup>2</sup> and hospitalizations.<sup>3,4</sup>

The Philips InCourage system includes an inflatable vest, therapy unit and hoses to deliver HFCWO therapy. Different from other airway clearance therapy technologies, the InCourage device features active venting and triangle waveform.

### How the InCourage system is different

#### Active venting

Designed to immediately release air in the vest in response to the user's breath, so the vest feels less constricted, allowing a deeper inhale

#### Triangle waveforms

- Delivers a brief, intense, CPT-like thump on the chest that is designed to help thin mucus, aiding transport out of the airways<sup>5,6</sup>
- Shown to clear up to 20% more mucus than competing technologies<sup>5</sup>
- May be more comfortable because the duration of peak pressure is shorter than competitive sine wave technology<sup>5,6</sup>

### Why is a waveform important?

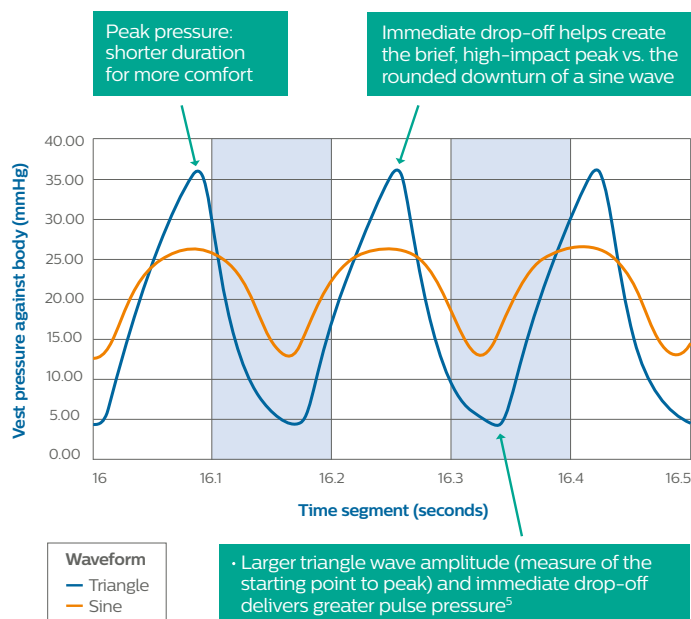
A waveform represents how a repeated pattern varies with time.

The triangle waveform system does not feel as constricting because it creates a sharp peak-pulse pressure for short duration, while a sine wave has a curved pulse pressure.



### Philips InCourage device features:

- Triangle waveform
- Active venting
- Most sizes available
- Lighter weight
- Appropriate for pediatric use
- Easy to clean
- Quickfit sizing



# Philips InCourage system: the difference is clear

Device	Philips InCourage system	The Vest® System 105, C3® Garment Line by Hill-Rom	The Monarch® System by Hill-Rom	SmartVest® Airway Clearance System by Electromed, Inc.	AffloVest® by International Biophysics
<b>Features</b>					
Induced air flow	High	High	Medium	High	Low
Delivery method	Pneumatic, full coverage dispersion, triangle waveform	Pneumatic, full coverage dispersion, sine waveform	Mechanical, local percussion	Pneumatic, full coverage dispersion, sine waveform	Mechanical, local vibration
Active venting	Yes	No	No	No	N/A
Covers therapeutic range of pressure and frequency	Yes	Yes	Yes	Yes	Yes
Pause feature	Yes	Yes	Yes	Yes	Yes
<b>Vest</b>					
Vest sizes	23 Fits chest sizes 16-60"	8 Fits chest sizes 16-75"	1 Fits chest sizes 22-50"	8 Fits chest sizes 16-52"	7 Fits chest sizes 18-65"
Wearable weight based off vest fitting 52" chest size	1.8 lb	2.2 lb	13 lb	2.2 lb	5.12-9.35 lbs
Vest color options	9	6	5	7	1
Quickfit tabs on vest	Yes	Adjust before each use	N/A	Adjust before each use	Adjust before each use
Vest hose connection	Locking	Slip fit	N/A	Slip fit	N/A
Machine wash and dry	No disassembly required. Entire vest is machine wash and dry.	Disassembly required. Only outer vest is machine wash and dry.	Disassembly required. Only outer shell is machine wash and dry.	Disassembly required. Only outer vest is machine wash. Hang dry only.	Surface clean only.
<b>Customer support</b>					
Lifetime original user warranty <sup>7</sup>	Yes	Limited warranty	Limited warranty	Yes	Limited lifetime: battery 5 years

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<sup>1</sup>Nicolini A, Cardini F, Landucci N, Lanata S, Ferrari-Bravo M, Barlaschini C. Effectiveness of treatment with high frequency chest wall oscillation in patients with bronchiectasis. BMC Pulm Med. 2013;13:21. Note: 37 BE patient study comparing HFCC, OPEP or no-ACT.  
<sup>2</sup>Plioplys AV, Lewis S, Kasnicka I. Pulmonary vest therapy in pediatric long-term care. J Am Med Dir Assoc 2002;3:318-321. Note: Study of 7 quadriplegic cerebral palsy patients, 4 having epilepsy.  
<sup>3</sup>Lechtzin N, Wolfe LF, Frick KD. The impact of high frequency chest wall oscillation on healthcare use in patients with neuromuscular diseases. Annals of the American Thoracic Society 2016;13(6):904-909. Note: 426 patients NMD patients.  
<sup>4</sup>Barto T, et al. Registry outcomes for HFCWO vest therapy in adult patients with bronchiectasis. Poster presented at: Am Thor Soc Intern Confer; 15 May 2016; San Francisco, Calif. Note: 2596 BE patient registry study comparing hospitalizations, antibiotic use and self-reported QOL metrics before and after HFCWO therapy.  
<sup>5</sup>Milla CE, Hansen LG, Weber A, Warwick WJ. High frequency chest compression: effect of the third generation compression waveform. Biomed Instrum Technol 2004; 38:322:328. Note: 8 CF patient study comparing triangular vs. sine waveform technology.  
<sup>6</sup>Milla CE, Hansen LG, Warwick WJ. Different frequencies should be prescribed different high frequency chest compression machines. Biomed Instrum Technol 2006;40:319-324. Note: 100 CF patient study comparing triangular vs. sine waveform technology.  
<sup>7</sup>See individual manufacturer warranties for details.

Product available through Philips affiliate RespirTech, the manufacturer and distributor of the InCourage system. Contact RespirTech at [www.respirtech.com](http://www.respirtech.com)

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Caution: U.S. federal law restricts these devices to sale by or on the order of a physician.

RRDPGH KC 6/26/19 MCI 4108720 PN 1141633  
 1010 Murry Ridge Lane, Murrysville, PA 15668  
 800 793 1261