

The Vest™

Advanced Airway Clearance System - Model 105



Enhancing outcomes for
patients and their caregivers:

Hill-Rom

Advanced Airway Clearance Therapy

Breathe a little easier



Many people with chronic respiratory conditions struggle each day to adequately remove secretions from their lungs.

This can be due to the volume or thickness of secretions; muscle weakness leading to an ineffective cough; or even the reliance on others to assist with airway clearance. Retained secretions may lead to increased rates of respiratory infection, hospitalisation and reduced lung function.

In order to assist you in improving mucus clearance Hill-Rom® developed The Vest™ Airway Clearance System to deliver High Frequency Chest Wall Oscillation (HFCWO).

How does The Vest™ Airway Clearance System work?

The air pulse generator rapidly inflates and deflates the garment, gently compressing and releasing the chest wall up to 20 times per second. This process creates 'mini-coughs' that dislodge mucus from the bronchial walls, increase mobilisation, and move it along toward central airways. The action also works to reduce thick secretions, making them easier to clear. Once the mucus has moved from the smaller to larger airways, it can be easily removed by coughing or suctioning.



High Frequency Chest Wall Oscillation (HFCWO)

The Vest™ Airway Clearance System has been proven to benefit patients in the removal of retained secretions due to both acute and chronic respiratory conditions.

Treatments are easy

Even in acute care facilities, most users manage therapy with little or no assistance and without the need for special positioning techniques. Each time The Vest™ is used; it will deliver a consistent level of therapy to patients with a typical session lasting 15 - 20 minutes. Treatment with The Vest™ can be combined with other airway clearance techniques such as Active Cycle of Breathing and Autogenic Drainage.

Simple, flexible programming

Normal mode



Ramp mode



Program mode



Air Pulse Generator

- Simple to use
- 5th generation technology from the innovator of High Frequency Chest Wall Oscillation (HFCWO) therapy
- Eases the patient into therapy to maximise comfort
- Reduced pressure in the inflatable garment when paused to aid deep breathing
- Multiple programming options increase prescription flexibility
- Display text available in most languages

Reusable Garment

- Simple, wipe down cleaning reduces lost treatment time versus washing
- Wide size range including toddler and bariatric sizes
- Comfort maximised by eliminating hoses within the inflatable garment

Wheeled Carrying Case

- Small, lightweight, bag-on-wheels design
- One-bag system minimises checked baggage issues when patient is travelling
- Designed to fit in most airline overhead storage compartments



Air Hoses

- Simple, press-and-twist action secures connections, and requires minimal dexterity
- Locking Air Hoses help prevent separation from the generator during treatment



Effective in treating numerous diseases and conditions

Wide range of applications

In more than 500 diseases and conditions leading to respiratory complications in adults and children, The Vest™ has been prescribed to assist with effective airway clearance.



The Vest™ has proven to be especially suitable for people with the following issues:

- Lack of success with current airway clearance techniques
- Lack of strength or ability to perform active treatment
- Poor compliance with other airway clearance methods
- Where constant fatigue is a major problem
- Reliance on others to assist with mucus clearance

The Vest™ Airway Clearance System is ideal treatment for:

Secretion retention associated with impaired ventilation and/or gas exchange

- Atelectasis, Pulmonary Infiltrates
- Acute Lung Injury (ALI) or Pneumonia
- Acute Respiratory Failure (ARF)
- Aspiration Lung Injury
- Pulmonary Insufficiency following Trauma
- Mechanical Ventilation or Surgery
- Acute Respiratory Distress Syndrome (ARDS)

Ineffective cough or secretion clearance due to immobility, deconditioning or muscle weakness

- Obesity
- Cardiac Failure
- Cerebral Palsy
- Motor Neuron Disease
- Quadriplegia and/or Quadriplegia
- Muscular Dystrophies and other myopathies
- Dyspnea or other respiratory abnormalities

Airway clearance dysfunction resulting in impaired ventilation and/or gas exchange

- Emphysema
- Asthma
- Chronic Bronchitis
- Bronchiectasis
- Cystic Fibrosis
- Chronic Obstructive Pulmonary Disease (COPD)



Garment lines



C3™ washable/dryable garment line

- Reusable, machine washable and dryable
- Brushed fabric that is soft to the touch
- High tech, multi-layer fabric design with breathable, 3D mesh lining
- Lightweight, slick-click buckle design
- Colours including: cashmere rose, coastal blue, calming black, colour me purple and cool camo

Classic garment line

- Multiple styles maximise the ability to correctly fit the patient
- Wide size range including toddler and bariatric sizes
- Designed for comfort by eliminating hoses within the inflatable garment



Technical Specifications

Air Pulse Generator

weight	8 kg
height	24.1 cm
width	33 cm
depth	24.1 cm

Main Power Requirements

electrical requirements	100 V AC to 230 V AC, 50 Hz to 60 Hz, 3.4 A at 100 V AC, 2.0 A at 230 V AC
fuse requirement	4 A, 5 x 20 mm

Environmental conditions for transport and storage

temperature	-25°C to 70 °C
relative humidity	95 % non-condensing
atmospheric pressure	500 hPa to 1,060 hPa

Environmental conditions for use

temperature	5°C to 40 °C
relative humidity	ambient temperature 15 % to 93 % non-condensing
atmospheric pressure	700 hPa to 1,060 hPa



Hill-Rom is a leading global medical technology company with approximately 10,000 employees worldwide. We partner with health care providers in more than 100 countries by focusing on patient care solutions that improve clinical and economic outcomes in five core areas: **Advancing Mobility, Wound Care and Prevention, Clinical Workflow, Surgical Safety and Efficiency and Respiratory Health**. Around the world, the people, products and programs of Hill-Rom work towards one mission: **Every day, around the world, we enhance outcomes for patients and their caregivers.**

mobility is life 

Hill-Rom is committed to the concept that mobilising people early and supporting their independence, improves life - in the hospital and at home.

This document is destined solely for use by healthcare professionals. Medical devices shown in this brochure are intended for use with patients in departments of healthcare establishments.

These medical devices are regulated health products which, pursuant to such regulation, bear a CE mark. Hill-Rom recommends you carefully read the detailed instructions for safe and proper use included in the documents accompanying the medical devices. The personnel of healthcare establishments are responsible for the proper use and maintenance of these medical devices.

Hill-Rom reserves the right to make changes without notice in design, specifications and models. The only warranty Hill-Rom makes is the express written warranty extended on the sale or rental of its products.

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