

The Vest™

Advanced Airway Clearance System - Model 205



Enhancing outcomes for
patients and their caregivers:

Hill-Rom

Advanced Airway Clearance Therapy

Breathe a little easier

When you need a quick, efficient method to clear airway secretions that could otherwise complicate a patient's recovery, The Vest Airway Clearance System can provide the solution.

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 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 vest, 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 thin 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.



Who can benefit from The Vest Airway Clearance System?

Therapy with The Vest can assist in airway clearance for patients suffering from:

- Airway clearance dysfunction resulting in impaired ventilation and/or gas exchange
- Secretion retention associated with impaired ventilation and/or gas exchange
- Ineffective cough or secretion clearance due to immobility, de-conditioning or muscle weakness

High frequency chest wall oscillation

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

Most users even in acute care facilities manage therapy with little or no assistance and without the need for special positioning techniques. Each time The Vest is used you can be assured it will deliver a consistent level of therapy to your 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



The first device of its kind designed exclusively for Acute and Long Term Care facilities, the 205 model provides a number of advantages.

Air Pulse Generator

- Simple to use
- 5th generation technology from the innovator of HFCWO therapy
- Eases the patient into therapy to maximise comfort
- Reduces pressure in the inflatable vest when paused to aid deep breathing
- Multiple programming options increase prescription flexibility
- Display text available in most languages

Stand

- Solid, safe and stable cart on 4 casters makes it easy to move The Vest Airway Clearance System between patients
- Height adjustable

Single Patient Use Vests

- Wrap and Full Vest garment styles maximise the ability to correctly fit the patient in any circumstance
- Garment will last up to 1 month and can be disposed at patient discharge
- Risk, cost and time consumption for cleaning and sterilising reusable garment are eliminated
- Wide size range including toddler and bariatric sizes
- Comfort maximised by eliminating hoses within the inflatable vest

Accessories

Air Hoses

- Simple, press-and-twist action secures connections, and requires minimal dexterity
- Non locking air hoses reduce the risk of accidentally pulling the device off surfaces
- Single Patient Use air hoses eliminate risk, cost and time for cleaning and sterilisation.

The Vest Airway Clearance System Model 205 Advantages

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

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.



Effective in a variety of diseases and conditions

Multiple diseases and conditions

The Vest has been prescribed for patients with respiratory complications associated with more than 500 diseases and conditions, including:

- Amyotrophic Lateral Sclerosis
- Cerebral Palsy
- Chronic Obstructive Pulmonary Disease (COPD)
- Cystic Fibrosis
- Muscular Dystrophy
- Post-Lung Transplantation
- Post Cardiothoracic Surgery
- Spinal Cord Injury
- Ventilator Dependence

Research demonstrates safety and efficiency

The Vest has been in use for several years. More than 80 clinical trials demonstrate the effectiveness of HFCWO therapy for patients with a variety of conditions. In addition, several peer-reviewed studies demonstrate that The Vest clears mucus more effectively and helps maintain or improve pulmonary function better than conventional chest physiotherapy.

Effective for secretion clearance dysfunction arising from a variety of conditions

The Vest has been prescribed for secretion clearance dysfunction associated with a variety of diseases and conditions, including cystic fibrosis, muscular dystrophy, chronic obstructive pulmonary disease, and cerebral palsy. It has been successfully used to maintain healthy lung function in post-operative, ICU, and post lung transplant patients.

In clinical outcomes studies, The Vest is associated with:

- Improved secretion clearance
- Stabilised or improved pulmonary functions
- Improved exercise tolerance
- Reduced incidence of pneumonia and related hospitalisations
- Higher patient satisfaction and therapy adherence
- Reduced healthcare costs



Garment Specifications

Product	Size	Product code	Description
Disp. Wrap SPU Vest Xsmall (1 pc)	48-58 cm	P300629000	Single Patient Use "Wrap (Slotted) Style" Vests Frontal bladder. Placed under arms around patient's torso.
Disp. Wrap SPU Vest Small (1 pc)	58-84 cm	P300630000	
Disp. Wrap SPU Vest Medium (1 pc)	84-109 cm	P300631000	
Disp. Wrap SPU Vest Large (1 pc)	109-134 cm	P300632000	
Disp. Wrap SPU Vest Xlarge (1 pc)	134-170 cm	P300633000	
Disp. Wrap SPU Vest XXLarge (1 pc)	170-191 cm	P300634000	
Disp. Wrap SPU Vest Xsmall (pkg of 5)	48-58 cm	P300629005	
Disp. Wrap SPU Vest Small (pkg of 5)	58-84 cm	P300630005	
Disp. Wrap SPU Vest Medium (pkg of 5)	84-109 cm	P300631005	
Disp. Wrap SPU Vest Large (pkg of 5)	109-134 cm	P300632005	
Disp. Wrap SPU Vest Xlarge (pkg of 5)	134-170 cm	P300633005	
Disp. Wrap SPU Vest XXLarge (pkg of 5)	170-191 cm	P300634005	
Disp. Wrap SPU Starter Pack (pkg of 5)	5 sizes garment (S to XL)	P300600005	

Disposable Full SPU Vest Child M (1 pc)	58-69 cm	P300200000	Single Patient Use 'Disposable' Full Vests circumferential inflation around chest.
Disposable Full SPU Vest Child L (1 pc)	69-79 cm	P300205000	
Disposable Full SPU Vest Adult S (1 pc)	79-91 cm	P300210000	
Disposable Full SPU Vest Adult M (1 pc)	91-114 cm	P300215000	
Disposable Full SPU Vest Adult L (1 pc)	114-132 cm	P300220000	



Single Patient Use "Wrap (Slotted) Style" Vests
Frontal bladder. Placed under arms around patient's torso.



Single Patient Use 'Disposable' Full Vests
circumferential inflation around chest.

Technical Specifications

Air Pulse generator

Weight	8 kg
Height	24.1 cm
Width	33 cm
Depth	24.1 cm
Stand weight	29 kg
Stand height - lowest position	73,6 cm
Stand height - highest position	99,1 cm

Inflatable vest material

Wrap SPU vest	Polyurethane-coated nylon
Full SPU vest	Polyurethane-coated nylon

Mains 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	2 each, 4 A, 5 x 20 mm

Environmental conditions for transport and storage

Relative humidity	95 % non-condensing
Atmospheric pressure	500 hPa to 1060 hPa

Environmental conditions for use

Temperature	5°C - 40°C (ambient temperature)
Relative humidity	15 % - 93 % non-condensing
Atmospheric pressure	700 hPa to 1060 hPa

Not for use with flammable anaesthetics.

Product Identification

- Product number P205(XX)
- Description: The Vest System Air Pulse Generator Model 205

Accessories

- Air Hose, Disposable, 1 ea. P004982
- Air Hose, Disposable, 10 pack P0049825
- Remote control (flat style) P300617000
- Remote control (bulb style) P142232
- Contour Foam Kit - 5 pack P300177005



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.**



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

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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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