



# Clearly a better solution

CoughAssist is an effective, more comfortable way to clear airways.

**PHILIPS**

**RESPIRONICS**

sense and simplicity

“CoughAssist enables me to not only stay on top of my pulmonary hygiene with airway clearance, but it also helps to expand the chest muscles and to counteract the chest muscle shrinkage due to my neuromuscular disease. My quality of life is improved simply because I can breathe easier and better after each treatment.”

Juri Kameda

Registered Respiratory Therapist and ALS patient

# Reinventing the cough

CoughAssist T70 clears secretions from the lungs by gradually applying positive air pressure (insufflation) to the airway and then rapidly shifting to negative air pressure (exsufflation).

This in-exsufflation shift in pressure creates a high expiratory flow that simulates a deep, natural cough. Instead of introducing a suction catheter into the airway, air is delivered noninvasively through a facemask, a mouthpiece, or through a simple adapter that allows the device to function with an endotracheal or tracheostomy tube. As a result, the CoughAssist T70 is a gentle, comfortable way to remove secretions and is highly effective, keeping airways clear longer than trached suction and with fewer complications.<sup>3</sup>





# Let's clear the air about traditional suction methods



CoughAssist effectively clears tracheobronchial secretions while reducing discomfort and risk of infection.<sup>1,3</sup> For use by caregivers and patients – in the hospital or in the home – CoughAssist T70 offers a gentle and more comfortable alternative to traditional suctioning methods.

◀ Invasive suction methods can be uncomfortable for the patient and have been linked to complications such as hypoxia, tissue damage and infection.<sup>2</sup>

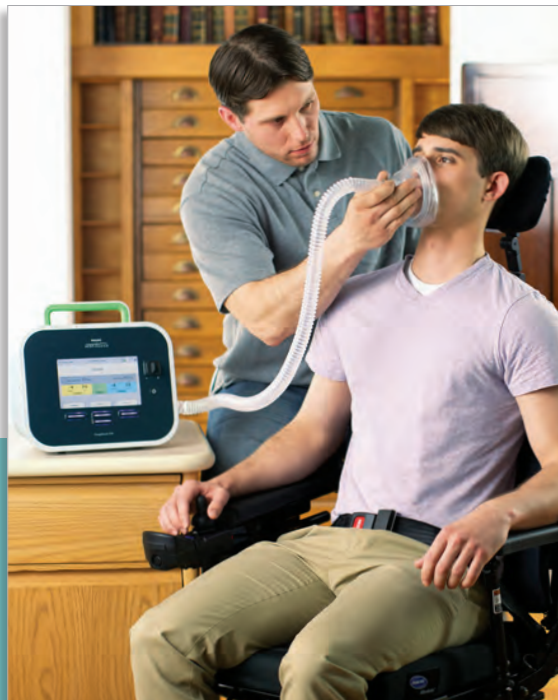
“The CoughAssist in-exsufflator has kept me comfortable and free of respiratory-related hospitalizations since I left my post-SCI Rehab in November of 1997. I have not been suctioned since that time and gave away my suctioning equipment long ago (I have two CoughAssists). Besides my ventilators, my CoughAssist machines are the most valuable pieces of equipment that I have and one accompanies me everywhere I go.”

Bill Miller

C1-2 Quadriplegic

# Now, even closer to a natural cough

CoughAssist T70 incorporates enhancements that represent an easy choice for you and your patients to make.



#### Readily portable

Weighing less than 9 lbs., it is compact, lightweight and easy for patients to transport.

#### Easy to use

Thanks to an enhanced user-friendly digital interface and preset prescriptions, setting inhale/exhale pressure and initiating therapy is simpler than ever.

#### Comfort driven

Cough-Trak's automatic sensitivity allows patients to initiate therapy and synchronize treatment with their own breathing pattern.

#### Results oriented

Tidal volume can be monitored to help determine the proper inspiratory pressure needed to deliver a deep inhalation.

Peak cough flow measures cough strength and is reported at the end of each cycle, allowing you to adjust the expiratory pressure needed to deliver an effective cough.

Patients and caregivers can monitor these data, as well as oxygen saturation levels, in order to enhance therapy effectiveness.

### Cough-Trak

With the introduction of CoughAssist T70 comes Cough-Trak, a unique triggering feature with automatic sensitivity. This technology enables the device to synchronize with the user's breathing pattern for enhanced breath delivery. It presents the user with more control of his or her own therapy and a comfortable, more natural treatment.



In addition to AC and DC power options, a detachable Lithium Ion battery adds a new level of flexibility with up to four treatments on a single charge, allowing patients to use the device just about anywhere. A roll stand is available, as well as a sturdy carry bag to accommodate tubing, masks, or extra batteries.



CoughAssist T70 mechanical in-exsufflation can minimize the risk of pneumonia and infections that can negatively impact the patient experience and lead to hospital readmissions.<sup>5</sup>

- More effective in clearing secretions and better tolerated than endotracheal suctioning in groups of ventilator-dependent tracheostomy patients.<sup>3</sup>
- Safe and effective for use with tracheostomy tubes for patients with ALS; expels 29% more mucus than deep suctioning and improves SpO<sub>2</sub> in ALS patients receiving mechanical ventilation via tracheostomy tube.<sup>3</sup>
- Clears airways for longer periods of time than tracheal suctioning and with fewer complications.<sup>3</sup>



**Less irritating, less painful, less tiring, and less uncomfortable than tracheal suctioning; 72% of patients also found it to be more effective than suctioning.<sup>4</sup>**

**Reduced hospitalization rates for respiratory complications of neuromuscular disease.<sup>5</sup>**

# The airway—and the choice—is clearer than ever.

Proven technology that's effective, comfortable and easy to use. When compared with traditional suction methods, CoughAssist T70 provides a better alternative when it comes to clearing the airway.

<sup>1</sup>Vianello A, Corrado A, Arcaro G, Gallan F, Ori C, Minuzzo M, Bevilacqua M. Mechanical insufflation-exsufflation improves outcomes for neuromuscular disease in patients with respiratory tract infections. *Am J Phys Med Rehabil* 2005;84:83-88.

<sup>2</sup>AARC Clinical Practice Guideline. Endotracheal suctioning of mechanically ventilated adults and children with artificial airways. *Respiratory Care* 1993;38(5):500-504.

<sup>3</sup>Sancho J, Servera E, Vergara P, Marin J. Mechanical insufflation-exsufflation vs tracheal suctioning via tracheostomy tubes for patients with amyotrophic lateral sclerosis. *Am J Phys Med Rehabil* 2003;82(10):750-753.

<sup>4</sup>Garstang SV, Kirshblum SC, Wood KE. Patient preference for in-exsufflation for secretion management with spinal cord injury. *J Spinal Cord Med* 2000;23(2):80-85.

<sup>5</sup>Tzeng A, Bach J. Prevention of pulmonary morbidity for patients with neuromuscular disease. *Chest* 2000;118:1390-1396.

## Specifications

### Environmental

Operating temperature	5° C to 35° C
Relative humidity	15 to 95% (non-condensing)
Atmospheric pressure	101 kPa to 77 kPa (approximately 0-7500 ft)
Weight	3.8 kg (8.4 lbs) (without detachable battery) 4.3 kg (9.4 lbs) (with detachable battery installed)
Size	29.2 cm W x 23.1 cm H x 19.0 cm D (11.5" W x 9.1" H x 7.5" D)

### Features and settings

Presets	3
Modes	Manual and Auto
Maximum positive pressure	70 cm H <sub>2</sub> O
Maximum negative pressure	-70 cm H <sub>2</sub> O
Triggering	Cough-Trak on/off (not available in Manual mode)
Inhale flow	Low, medium, high
Inspiratory time	0.0 to 5.0 secs (not available in Manual mode)
Expiratory time	0.0 to 5.0 secs (not available in Manual mode)
Pause time	0.0 to 5.0 secs (not available in Manual mode or if Cough-Trak is enabled)

## Ordering information

Description	Item number
CoughAssist T70	1098160
Oximetry interface kit	1099034
Detachable battery pack, USA/Intl	1043570
Detachable battery charger	1072182
DC auto adapter	1067424
Roll stand	1098655
Foot pedal	1059017



**CoughAssist T70 includes the device, SD card, hose clip and air filter, 6' patient circuit, adult large mask, carrying case and AC power cord.**

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