CoughAssist T70
Frequently asked questions

Size, weight, specifications

What is the overall size of the CoughAssist T70?
Dimensions: 11.5'' W x 9.1'' H x 7.5'' D (29.2 cm W x 23.1 cm H x 19.0 cm D)

What is the weight of the CoughAssist T70?
8.4 lbs (3.8 kg) without the detachable battery; 9.4 lbs (4.3 kg) with the detachable battery installed

What is the measured sound level of the CoughAssist T70?
In the Pause phase, the sound pressure of the device set at –40 cm H_2O/+40 cm H_2O is less than 60 DBA at 1 meter.

Device overview and operation

Can CoughAssist T70 be operated while in its carrying case?
No.

Is there an internal battery?
No. However, CoughAssist T70 is compatible with the same detachable battery as the Trilogy ventilators.

What are the recommended operating and storage conditions for the CoughAssist T70?
CoughAssist T70 can be operated within a temperature range of 41°F to 95°F, a relative humidity range from 15% to 95%, and an altitude range from sea level to 7500 ft. CoughAssist T70 should be stored where the temperature and relative humidity range from –4°F to 140°F and 15% to 95%.

Are there pressure alarms?
No. The CoughAssist T70 is not a ventilation device; pressures are monitored internally to match those set by the clinician/user.

PHILIPS
RESPIRONICS

Therapy, modes and features

What are the therapy modes?

CoughAssist T70 offers both Manual and Auto therapy modes.

Therapy mode	Description
Manual	Manual mode delivers therapy based on the Inhale Pressure and Exhale Pressure prescription settings. The device delivers the set inhalation pressure for the amount of time that the Manual switch is held in the inhalation position. The device delivers the set exhalation pressure for the amount of time that the Manual switch is held in the exhalation position. Therapy starts in the Pause phase when activated in Manual mode.
Auto	Auto mode delivers therapy based on the following prescription settings: Inhale Pressure, Exhale Pressure, Inhale Time, Exhale Time, and Pause Time. Auto mode delivers pressure in the following sequence, repeating the sequence until the user exits the therapy state: 1. Positive pressure at the Inhale Pressure setting for the duration of the Inhale Time setting. 2. Negative pressure at the Exhale Pressure setting for the duration of the Exhale Time setting. 3. Atmospheric pressure for the duration of the Pause Time setting. When the Cough-Trak feature is enabled, Auto mode delivers pressure in the following sequence, repeating the sequence until the user exits the therapy state: 1. Positive pressure at the Inhale Pressure setting when the device detects the patient's effort to inhale for the duration of the Inhale Time setting. 2. Negative pressure at the Exhale Pressure setting for the duration of the Exhale Time setting. 3. Atmospheric pressure until the device detects the next inspiratory effort.

What is Cough-Trak?

Cough-Trak is a feature that triggers the device on the patient's inspiratory effort to synchronize with the user's breathing pattern. Therapy will start when the patient's effort is detected.

What is the sensitivity of Cough-Trak (compared to Auto-Trak or other triggers)?

Cough-Trak was designed to facilitate patient synchrony while avoiding false triggers. Example: putting on the mask does not cause a false trigger. For a typical patient (adult or pediatric), modest breathing effort with a patient muscle effort of 2.5 cm H_2O to 3 cm H_2O or greater, are sufficient to trigger a cough sequence.

Can we recommend Cough-Trak for use on children?

Yes. Cough-Trak may be used on children.

Can you measure saturation levels during a treatment?

No. Saturation levels can only be measured before and after the treatment.

What is a good peak cough flow?

Retrospective data suggests that a peak cough flow of 160 l/min may be required to clear the lung adequately. *Bach JR. Amyotrophic lateral sclerosis: predictors for prolongation of life by respiratory aids. Arch Phys Med Rehabil 1995; 76:828-32.*

Data management

Which version of DirectView is compatible with CoughAssist T70?
DirectView 2.0.

Can waveforms be viewed?
Yes. To view waveforms, the clinician needs to use DirectView, where waveforms are displayed (pressure, time, tidal volume, peak cough flow, pattern of use and SpO_2 if the oximetry module has been used) and data (peak cough flow, Vti [insufflated volume], SpO_2, HR, therapy hours, SN of device, detachable battery, and pattern of usage).

	Waveform	Trends	Data
Internal memory	6 days (Vti/PCF) 7 days (SpO_2/HR)	6 days	72 days
SD card	> 1 year	> 1 year	> 1 year

What size SD card can be used?
2GB –32GB.

Accessories

How many treatments does the detachable battery provide?
Up to four treatments on a single charge.

Do I need a battery charger?
No. The detachable battery charges when the battery is installed in the CoughAssist T70 and it is plugged in and in the Standby or OFF mode. A battery charger is available if multiple batteries need to be charged.

What is the foot pedal used for?
The foot pedal allows for hands-free operation to initiate Manual therapy. Once connected, the Manual switch is disabled.

Can you measure oxygen saturation with the CoughAssist T70?
Yes. The pulse oximetry accessory will display the current SpO_2 and heart rate readings on the screen.

Does CoughAssist T70 require any routine servicing?

No. The device does not require any routine preventive maintenance.

Can I bring the CoughAssist T70 on an airplane?

CoughAssist T70 is compliant with Section 21, Emissions of RF Energy in accordance with RTCA/DO-160F testing requirements. Such certification is required for use aboard all commercial airlines landing or taking off within the United States. This certification complies with the Air Carriers Access Act and the Department of Transportation's Nondiscrimination on the Basis of Disability in Air Travel policy. Patients traveling with CoughAssist T70 may be required by their airline to produce evidence of RTCA/DO-160F certification as well as comply with other requirements for traveling with the device. Patients should check with their airlines regarding the certification and other policies before attempting to fly with CoughAssist T70.

For convenience at security stations, a label on the bottom of the device states that it is medical equipment. It may be helpful to also carry the user manual to help security personnel understand the device. The carrying case is for carry-on only. The carrying case will not protect the system if it is put through the 'checked baggage' process.

If I am traveling outside the US, what do I need to know?

If you are traveling to a country with a line voltage different than the one you are currently using, a different power cord or an international plug adaptor may be required. Always check with the airline to determine what additional equipment needs or regulations might apply.

Does the device adjust to daylight savings time or Leap Year?

No. You will need to make time and date updates in the Option menu.

How often should I clean the CoughAssist T70's air filter?

Under normal usage, you should clean the air filter at least once every two weeks and replace it with a new one every six months.