

Philips CoughAssist device

Prescription guide

Trilogy Evo and CoughAssist have many features that can benefit your patients. Understanding the features, their settings and how to properly prescribe them helps you provide optimum patient care. This document is intended for prescription guidance only and is not to be used as a prescription form or physician order.

Mode

<input type="checkbox"/> Manual	<input type="checkbox"/> Auto	<input type="checkbox"/> Advanced Auto		
Presets	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	
Cough-Trak	<input type="checkbox"/> On	<input type="checkbox"/> Off		
Inhale pressure	<input type="text"/>	0-70 cmH ₂ O		
Exhale pressure	<input type="text"/>	0-70 cmH ₂ O		
Oscillation	<input type="checkbox"/> Off	<input type="checkbox"/> Inhale	<input type="checkbox"/> Exhale	<input type="checkbox"/> Both
Oscillation frequency	<input type="text"/>	(1-20 Hz)		
Oscillation amplitude	<input type="text"/>	(1-10 cmH ₂ O)		
Number of cycles	<input type="text"/>	(1-10)		

Manual mode

Manual mode may be used for initial acclimation to the CoughAssist T70/E70 and for titrating pressures and adjusting times prior to using the Auto mode or the Advanced Auto mode.

Auto mode

Auto mode provides a timing feature that will automatically trigger to inspiration and cycle to expiration. Inhale and exhale times entered into the device will replace manually moving the switch.

Advanced Auto mode

Advanced Auto mode allows a number of successive insufflations prior to the cough therapy. Once the pre-therapy insufflations to be set and cough therapy pattern have been established, the cycle can be repeated up to 10 times, with an option to end the sequence with a single insufflation cycle.

Advanced Auto mode (only)

Pre-therapy breaths	<input type="text"/>	(Off-10)
Pre-therapy pressure	<input type="text"/>	(0-+70 cmH ₂ O)
Number of coughs	<input type="text"/>	(1-15)
Number of cycles	<input type="text"/>	(1-10)
Post-therapy breaths	<input type="checkbox"/> On	<input type="checkbox"/> Off

Cough-Trak feature

An important characteristic of the CoughAssist device is its ability to trigger on the patient's inspiration to help synchronize the therapy. This is the Cough-Trak feature. Cough-Trak is available when the device is in Auto mode or Advanced Auto mode. The pressure delivery sequence is synchronized with the patient's effort to inhale (pre-therapy breaths and cough therapy). When the Cough-Trak setting is activated, therapy starts in the Pause phase until patient effort is detected.

Oscillation feature

An Oscillation feature, available in Manual, Auto and Advanced Auto modes, can be set either during one or both phases of the cough cycle (insufflation and/or exsufflation). The aim of the oscillations is to enhance loosening and mobilization of secretions and improve bronchial drainage. In Advanced Auto mode, the oscillations are also applied to any pre-therapy breaths (inhale only).

- Start at a high frequency (20 Hz) and low amplitude (1 cmH₂O)
- Adjust the settings to patient comfort
- When using CoughAssist T70/E70 noninvasively, begin oscillations in the inhale phase and assess
- Assess tolerance of the oscillation
- If desired, oscillations may also be used in the exhale phase if tolerated

Trilogy Evo and CoughAssist prescription guidance

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www.philips.com/respironics

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

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RESPIRONICS

Trilogy Evo

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Philips Trilogy Evo ventilator

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Ventilation modes

A/C-PC: Assist control (pressure control)

A/C-VC: Assist control (volume control)

CPAP: Continuous positive airway pressure

PSV: Pressure support ventilation

S/T: Spontaneous/timed ventilation

SIMV-PC: Synchronized intermittent mandatory ventilation (pressure control)

SIMV-VC: Synchronized intermittent mandatory ventilation (volume control)

AVAPS-AE

MPV-PC: Mouthpiece ventilation (pressure control)

MPV-VC: Mouthpiece ventilation (volume control)

AVAPS-AE – Tailored ventilation

AVAPS-AE is an auto-titration mode of noninvasive ventilation designed to better treat respiratory insufficiency patients (OHS, COPD and NMD) in the hospital and homecare environments

- Proven performance of AVAPS
 - Maintains targeted tidal volume
- Auto EPAP
 - Maintains patent upper airway at comfortable pressure
- Auto backup rate
 - Applies an auto backup rate near a patient's resting rate
 - Auto Backup delays a machine breath until the patient has completely exhaled to minimize air trapping

AVAPS

- Hybrid mode that provides consistent tidal volume per breath while delivering the comfort and advantages of pressure support ventilation*
- Designed to apply the minimum pressure support required to achieve the prescribed tidal volume
- Helps to maintain optimal patient comfort while supporting patient care and ventilation efficacy while simplifying the titration process
- Delivers customized patient care by automatically adapting to disease progressions and changing patient needs

Digital Auto-Trak

- Philips has Digital Auto-Trak: automatic adjustment of the ventilator triggering and cycling.
- Simply and automatically adjusts ventilation to the patient's natural breathing even in the presence of leaks.
- Contributes to the patient's synchrony and comfort, without manual adjustments to each patient's breath as their disease progresses.
- This proven algorithm is used from our basic CPAP devices through to our critical care ventilators.

Mouthpiece ventilation feature

- Mouthpiece ventilation (MPV) does not require any inspiratory effort in order to trigger a breath.
- Our unique kiss® trigger detects when your patient engages or disengages from the mouthpiece to deliver on-demand ventilation, with the security of patient alarms.

Trilogy Evo enables up to five prescriptions

- Allows the clinician to set up to five full prescriptions and alarm settings
- Patient/caregiver can seamlessly change between prescriptions without the worry of resetting alarms

*With respiratory insufficiency patients diagnosed with Obesity Hypoventilation Syndrome. Storre, J.H., Seuthe, B., Flechter, R., and Windisch, W., Average volume-assured pressure support in obesity hypoventilation, Chest 130(3):815-21, Sept. 2006

Frequently prescribed modes

AVAPS-AE mode

AVAPS-AE settings

Target V _T	<input type="text"/>	mL (50-2000)
AVAPS speed	<input type="text"/>	cmH ₂ O/min (1-5)
Max pressure	<input type="text"/>	cmH ₂ O (6-50)
Max pressure support	<input type="text"/>	cmH ₂ O (0-40)
Min pressure support	<input type="text"/>	cmH ₂ O (0-40)
EPAP max	<input type="text"/>	cmH ₂ O (3-5)
EPAP min	<input type="text"/>	cmH ₂ O (3-25)
Inspiratory time	<input type="text"/>	sec (0.3-5.0)
<i>(only available with fixed back up rate)</i>		
Backup rate	<input type="checkbox"/> Auto <input type="checkbox"/> Fixed <input type="text"/> bpm (0-60)	
Rise time	<input type="text"/>	0-6

SIMV-PC mode

Inspiratory pressure	<input type="text"/>	cmH ₂ O (0-60)
PEEP	<input type="text"/>	cmH ₂ O (0-35)
Pressure support	<input type="text"/>	cmH ₂ O (0-60)
<i>(above PEEP)</i>		
Breath rate	<input type="text"/>	bpm (0-80)
Inspiratory time	<input type="text"/>	sec (0.3-5.0)
Rise time	<input type="text"/>	0-6

AVAPS modes

Spontaneous-timed (S/T) AVAPS feature On Off

Pressure-control (A/C-PC) Pressure support (PSV)

AVAPS settings

Target V _T	<input type="text"/>	mL (50-2000)
AVAPS speed	<input type="text"/>	cmH ₂ O/min (1-5)
Max inspiratory pressure	<input type="text"/>	cmH ₂ O (0-40)
Min inspiratory pressure	<input type="text"/>	cmH ₂ O (0-40)
EPAP pressure	<input type="text"/>	cmH ₂ O (3-25)
Inspiratory time	<input type="text"/>	sec (0.3-5.0)
<i>(A/C-PC, S/T modes only)</i>		
Breath rate/back up rate	<input type="text"/>	bpm (1-60)
Rise time	<input type="text"/>	0-6

MPV mode

MPV-VC

MPV-PC

MPV: VC settings

V _T	<input type="text"/>	mL (70-2000)
PEEP	<input type="text"/>	cmH ₂ O (0-25)
<i>(default is zero)</i>		
Breath rate	<input type="text"/>	bpm (0-30)
<i>(default is zero)</i>		
Inspiratory time	<input type="text"/>	sec (0.5-5.0)
Flow pattern	<input type="checkbox"/> Ramp <input type="checkbox"/> Square	

MPV: PC settings

Pressure-control	<input type="text"/>	cmH ₂ O (0-57)
PEEP	<input type="text"/>	cmH ₂ O (0-25)
<i>(default is zero)</i>		
Breath rate	<input type="text"/>	bpm (0-30)
<i>(default is zero)</i>		
Inspiratory time	<input type="text"/>	sec (0.3-5.0)
Rise time	<input type="text"/>	0-6