

CoughAssist E70



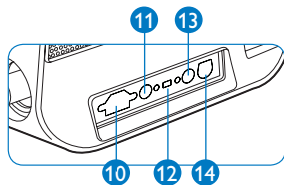
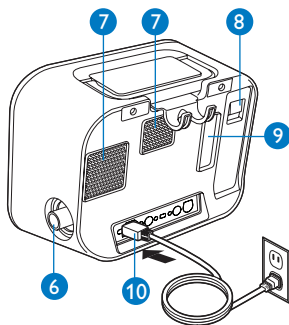
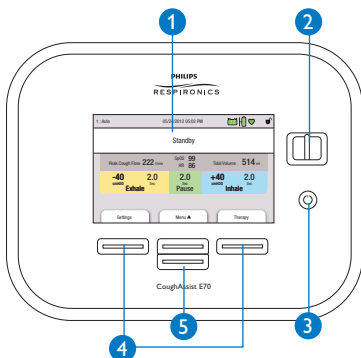
Quick start guide

- 1 Device overview
- 2 Starting therapy
- 3 Modifying therapy settings
- 4 Monitoring view and icons
- 5 Suggested guidelines for therapy
- 6 Device menu
- 7 Mask fitting

1

Device overview

- 1 Display screen
- 2 Manual switch
to activate inhale (right)
and exhale (left) phases
- 3 Power on/Power off
- 4 Perform action specified
on screen
- 5 Navigate menus or
change setup



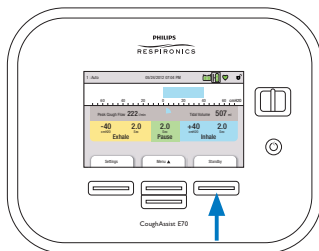
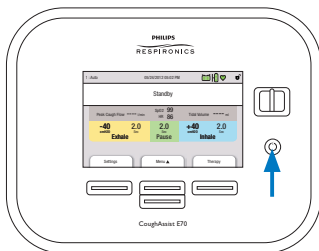
- 6 Breathing circuit connection
- 7 Fan exhaust – Air outlet
must be kept uncovered
- 8 Detachable battery
- 9 Filter – Air inlet
- 10 AC power inlet
- 11 Remote control connector
- 12 USB connector (for service only)
- 13 SpO₂ connector
- 14 DC power inlet

Note: When the remote control foot pedal is connected, the manual switch is disabled.

2


Starting therapy

How to start/stop therapy




To start therapy

Connect the device to AC or DC power source or use the detachable battery

- Press  to power on the device
- Select **Therapy** to start the treatment

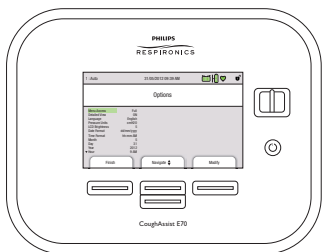
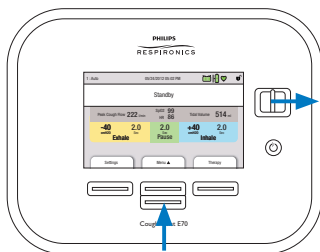
To stop therapy

- Select **Standby**
- To turn power off, press 






How to lock/unlock

Limited access (lock) permits the user to select between Preset therapy settings, while **Full access** (unlock) will allow the user to change all settings.




To temporarily unlock the device

- While in Standby, press the down button  below **Menu** and hold manual switch  to the right for 5 seconds

Note: When  appears on the main screen, the device is unlocked. If the Access menu is not set to Full, the device will switch automatically to limited access after 5 minutes of inactivity.



To select access option

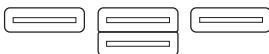
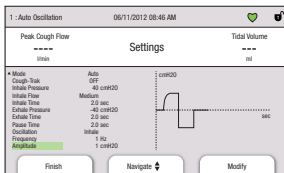
- Press the up button  below **Menu**
- While 'Option' is highlighted in green, press **Select**
- While 'Menu Access' is highlighted, press **Modify** and then **Edit** to select 'Limited' or 'Full' access
- Press **OK** to validate
- Press **Finish** and **Exit** to return to the main screen

3

Modifying therapy settings

To modify settings

- The therapy settings are accessible through the left button  below **Settings**
- The scroll buttons  allow selection of desired parameter
- Pressing **Modify** will allow changing the parameter highlighted in green, **OK** validates the choice and **Finish** returns to main screen
- Three Presets are available to save a group of settings for different circumstances



The settings available are displayed in the table below:


Preset	1, 2, 3	
Mode	Auto, Manual	
Cough-Trak	OFF/ON	Only available in Auto mode
Inhale pressure	0 to 70 cmH ₂ O, in increments of 1 cmH ₂ O	
Inhale flow	Low, Medium, High	
Inhale time	0 to 5s, in increments of 0.1s	Only available in Auto mode
Exhale pressure	0 to -70 cmH ₂ O, in increments of 1 cmH ₂ O	
Exhale time	0 to 5s, in increments of 0.1s	Only available in Auto mode
Pause time	0 to 5s, in increments of 0.1s	Only available in Auto mode with Cough-Trak OFF
Oscillation	OFF/Inhale/Exhale/Both	
Frequency	1 to 20 Hz, in increments of 1 Hz	Only available if Oscillation set
Amplitude	1 to 10 cmH ₂ O, in increments of 1 cmH ₂ O	Only available if Oscillation set

Note: Any change of setting made during therapy will automatically take effect at the beginning of that phase in the next cycle.

4

Monitoring view and icons

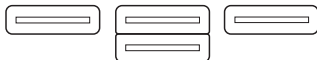
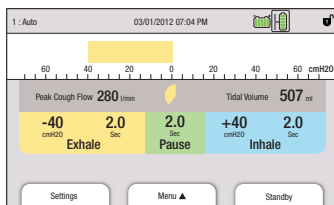
To change monitoring view

- Press the up button  below **Menu**
- While 'Option' is highlighted in green, press **Select** and navigate down to 'Detailed View'
- Press **Modify** and **Edit** to change 'OFF' or 'ON'
- Press **OK** to validate
- Press **Finish** and **Exit** to return to the main screen

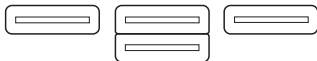
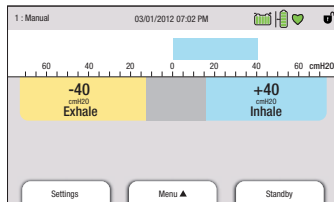
Note: When selecting detailed view 'OFF', the following parameters are not displayed:

- Peak Cough Flow
- SpO₂
- HR
- Tidal Volume
- Exhale and Inhale Time setting and counter
- Pause Time setting

Detailed View 'ON'



Detailed View 'OFF'



Symbols and icons

Color code:



green = pause



yellow = exhale



blue = inhale



SD card inserted



SD card error



Memory card writing:
copying data to SD card



Full access



Remote control:
(foot pedal) connected



External battery indicator:
red = few minutes left



Detachable battery indicator:
red = few minutes left



Pulse oximeter: green means
connected (flashing)



With ? means questionable data



Breath synchronization tool:
displayed remaining time of each
phase during Auto mode



No measurement is performed
or questionable data



Informational message:
information available in the
Information Log



Power source in use indicator:
box is placed around the
battery being used



Charging indicator: detachable
battery is being charged

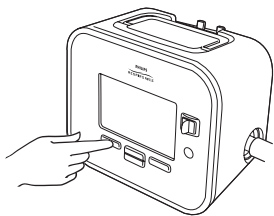
5

Suggested guidelines for the

Standard treatment procedure

Adapting to the patient

For a patient using this device for the first time, it is advisable to begin with lower pressures, such as 10 – 15 cmH₂O positive and negative pressure, and low inhale flow. It will familiarize the patient with the feel of mechanical insufflation-exsufflation.




As the patient becomes more comfortable with the therapy, progressively increase the inspiratory and expiratory pressures by 5 to 10 cmH₂O each sequence of 4 to 6 breaths. Effective pressures may be around 35 – 45 cmH₂O.

Cough-Trak may also be enabled to help synchronize the therapy with the patient's inspiratory effort to make acclimation to the therapy easier.

Oscillation can be enabled to enhance mobilization and improve bronchial drainage.


General therapy description

- 1 cough cycle is composed of an inspiratory, expiratory and pause phase
- 4 to 6 cough cycles compose a sequence
- 20 to 30 seconds of resting time is suggested between sequences, allowing for secretion removal
- A treatment is composed of 4 to 6 sequences and can be performed several times a day, whenever needed
- Preferably, therapy should be performed in the morning, before meals and bedtime

Tip: To help the patient understand and become comfortable with the therapy, the patient synchronization dial  is provided in the center of the screen during Auto mode.

therapy

	Feature	Adults	Pediatrics
Basics	Effective pressure (cmH ₂ O)	+/- 35 up to +/- 45 adjust to patient condition	
	Inhale time (in s)	2 to 3	1 to 2
	Exhale time (in s)	2 to 3	2 or less
	Pause time (in s) In Auto mode	2 to 3	As small as possible
	Oscillation During inspi and/or exp time	The higher the frequency and the lower the amplitude, the less the patient will feel the oscillation; we suggest starting at a high frequency and low amplitude and adjusting the settings until the patient is comfortable	
Customize	Cough-Trak triggering feature In Auto mode	For patients who have some inspiratory drive this feature will trigger on the patient's inspiration to help synchronize the therapy with the patient's effort.	
	Mode and Preset	Therapy parameters can be titrated/modified in Manual mode to evaluate the best therapy for the patient before setting up automatic settings Up to 3 different Presets can be saved to provide different therapies (i.e. prophylactic use, mucus plugs, lung volume recruitment, etc.)	
Follow-up	Data management	Data such as peak cough flow, tidal volume, SpO₂ or time counters, available in detailed view ON, can be useful for both setting therapy parameters and assessing therapy efficiency	
	DirectView EncorePro	Therapy data recorded (internal memory and SD card): peak cough flow, tidal volume, pressure, SpO ₂ , heart rate, pattern of usage	

 The settings should always be checked before beginning therapy.


Guidelines are intended to serve only as reference. They do not supersede established medical protocols or instructions from physician.

6

Device menu

To access device menu, press the up button  below the menu.

The menu selection and their corresponding parameters are displayed in the table below:

Options	LCD brightness, date format, time format, month, day, year, hour and minutes. Only in Full access mode: menu access, detailed view, language, pressure units, therapy hours
Data	SpO ₂ , heart rate (HR), peak cough flow, tidal volume, serial number, model number, software version, calibration date, SD card capacity, detach battery serial number, detach battery cycles, therapy hours
Information Log	Informational messages about the device will be indicated by the  icon. The log menu displays the list of messages that occurred, i.e. 'battery not charging' or 'replace battery' and allows them to be cleared
Clear Patient Data	Allows clearing previous data from device memory and SD card to record new data (i.e. for a new patient)
Safely Remove SD Card	Allows removing SD card without risk of losing or damaging recorded information; follow messages displayed on screen
Write Event Log to SD Card	Copies event log data from the device to the SD Card; follow message displayed on screen

7

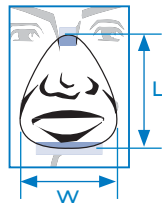
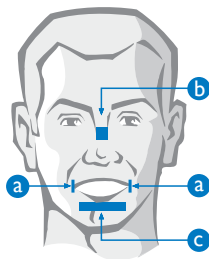
Mask fitting

To choose a well fitted mask, **ensure the entire mouth and nose are included** inside the mask.

Make sure the top of the cushion is not too high on the bridge of the nose area. No leak should remain.

Landmarks

- a Side of mouth
- b Bridge of nose zone
- c Below the lower lip



Mask size (cm)	Length	Width	Height
Infant	7.0	6.6	4.9
Toddler	8.8	8.0	5.9
Small adult	11.5	9.5	8.1
Medium adult	12.3	10.2	9.0
Large adult	12.5	11.0	9.0



Mouthpiece



Trach adapter



Toddler mask



Small, medium and large masks

**Philips Healthcare is part of
Royal Philips Electronics**

How to reach us

www.philips.com/healthcare
healthcare@philips.com

Asia

+49 7031 463 2254

Europe, Middle East, Africa

+49 7031 463 2254

Latin America

+55 11 2125 0744

North America

+1 425 487 7000

800 285 5585 (toll free, US only)

Philips Respironics

1010 Murry Ridge Lane

Murrysville, PA 15668

Customer Service

+1 724 387 4000

800 345 6443 (toll free, US only)

Philips Respironics International

Headquarters

+33 1 47 28 30 82

Philips Respironics Asia Pacific

+65 6882 5282

Philips Respironics Australia

+61 (2) 9947 0440

1300 766 488 (toll free, Australia only)

Philips Respironics China

+86 400 828 6665

+86 800 828 6665

Philips Respironics Deutschland

+49 8152 93 06 0

Philips Respironics France

+33 2 51 89 36 00

Philips Respironics Italy

+39 039 203 1

Philips Respironics Sweden

+46 8 120 45 900

Philips Respironics Switzerland

+41 6 27 45 17 50

Philips Respironics United Kingdom

+44 800 1300 845

www.philips.com/respironics

This guide contains abstracted information from the User Manual; please refer to the latest for complete information regarding the CoughAssist E70 device.



© 2012 Koninklijke Philips Electronics N.V. All rights are reserved.

CoughAssist E70 is registered trademark of Philips.

Philips Healthcare reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

Broudy AE 7/2/12 MCI 4104775 PN 1099397