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Introduction

The EO-70 Cough Assistance device is an essential element of airway clearance therapy, which is intended to help patients who are unable to independently remove airway secretions and improve their lung volume capacity.

The EO-70 offers INEX and IPPB modes for pediatric and adult patients weighing at least 10 kg (22 lbs).

It could be used either with a mask, mouthpiece or tracheotomy tube.

Clinicians are advised to read the User Manual (Clinician) before using the EO-70 device. The information in the Pocket Guide is not intended to exceed the instructions in the medical prescription and User Manual.

The EO-70 is considered strictly medical device and is intended to be used by trained and qualified personnel under medical supervision.

Install and configure the EO-70 in accordance with the instructions given in the user's manual.

If any operating and maintenance problems are identified, the local representative should be contacted.

Quick Start

In case of emergency, the ventilation module can be directly turned on simply by pressing the 🚺 button on the module keyboard.

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To start ventilation Click on 🛞 on the keyboard.

> Press on the front panel keyboard to turn on the device. The home screen displays.

The EO-70 device





Turbine Air Inlet
 AC Inlet
 Screen Power Button

4 SpO₂ connector
5 Remote Control connector

Display screen
 Device module
 EO device housing unit
 Inspiratory / Circuit Port
 Keyboard

The home screen



- Menu and Coaching function 6 2 3 4
 - Presets buttons
 - Quick settings
 - Power OFF button
- 5 Manual PAD

- 6 Start/Stop Therapy
- 7 Settings info
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- 9 Monitoring panel
- O Settings

Turn ON/OFF the device

Turn ON the device

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Press the ON button

Press the OFF button + VALIDATE

Turn OFF the device



TURN ON/OFF THE DEVICE

NOTE:

Unplugging from main power does not power off the device. It will continue to run on the internal battery. The device must be turned off manually before disconnecting from AC power for any extended period of time. The EO-70 will automatically turn off after 15 min of inactivity.

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Circuit Configuration

INEX Configuration







1. Attach the antibacterial filter to the inspiratory port of the device.

2. Connect the circuit (22 mm) to the other side of the filter.

3. Perform a circuit calibration.

4. Connect the patient interface to the other end of the circuit.

- 1. Attach the antibacterial filter to the inspiratory port of the device.
- 2. Connect the circuit (22 mm) to the other side of the filter.
- 3. Connect the leak port to the other side of the patient circuit.
- 4. Perform a circuit calibration
- 5. Connect the patient interface to the other end of the circuit.

Circuit Calibration

For the EO-70 to provide expected performances, the patient circuit must be calibrated.







Calibration steps:

- 1. Select the mode and connect the circuit and accessories (without patient interface).
- 2. Access the calibration Menu.
- 3. For INEX Mode you only need to follow 1 step and for IPPB Mode there are 2 calibration steps.
- 4. Wait until the circle is completed and exit the calibration menu clicking on "VALIDATE".

Select a preset



It is also possible to change a preset program from the settings menu.



INEX mode: Mechanical Insufflation/Exsufflation

Mechanical in-exsufflation provides positive pressure, followed very quickly by negative pressure, which assists coughing.

MI-E simulates coughing due to pressure variation in a non-invasive form.





In AUTO mode, the device repeats the sequences defined by the clinician according to the following parameters:

Parameter	Setting
Inspiration pressure (cmH ₂ O)	5 - 70
Slope	0 - 5
Inspiration time (s)	0.5 - 5
Inspiration oscillations flow (Hz)	OFF / 4 - 20
Inspiration oscillations Amp.	OFF / 1 - 3
Trigger Not compatible with timed Pause.	OFF / 1 - 3
Exhalation Pressure (cmH ₂ O)	0 to -70
Expiration time (s)	0.5 - 5
Expiration oscillations flow (Hz)	OFF / 4 - 20
Expiration oscillations Amp.	OFF / 1 - 3
Pause (s) Not compatible with Trigger.	OFF / 0.5 - 5 (stay hidden when the trigger is set)
PEEP (cmH ₂ O)	OFF / 1 to 20
Cycles nb	1 to 20
End of treatment	Inspiration/Exhalation



In manual mode, the user controls the insufflation/ exsufflation sequences based on the following parameters:

Parameter	Setting
Inspiration pressure (cmH ₂ O)	5 - 70
Slope	0 - 5
Inspiration oscillations Flow (Hz)	OFF / 4 - 20
Inspiration oscillations Amp.	OFF / 1 - 3
PEEP (cmH ₂ O)	OFF / 1 to 20
Exhalation Pressure (cmH ₂ O)	0 - 70
Expiration oscillations Flow (Hz)	OFF / 4 - 20
Expiration oscillations Amp.	OFF / 1 - 3

Once the treatment has started, place your finger on the black touchpad and slide to the right for insufflation, then to the left for exsufflation. The finger can then slide off the black pad if not released.



Insufflation



Exsufflation

IPPB mode: Intermittent positive pressure breathing

This recruitment mode delivers an air volume beyond the patient's current volume. It enables the patient to reach the inspiratory reserve volume. This improves pre-cough volume and mobilizes the thoracic wall.

The selected flow rate modulates the inspiratory cycle time

Two possible options depending on the treatment objective



The **high-flow** setting **effectively delivers** a volume of air over a reduced inspiratory time.



Slow insufflation allows **maximum intake** in all lung areas to reach the inspiratory reserve volume.



This mode controls insufflation flow during insufflation time until maximum pressure is reached. The exhalation is controlled by the PEEP. The trigger function allows the patient to initiate a new cycle during the exsufflation phase.

Parameter	Setting
Inspiration flow (I/min)	5 - 100
Inspiration slope	ON / OFF
Max pressure (cmH ₂ O)	10 - 50
Inspiration Trigger	OFF / 1 - 8
PEEP (cmH ₂ O)	OFF / 4 - 20
Exhalation fall	0 - 5
Max inspiration time (s)	0,5 - 20
Treatment time (min)	OFF / 5-30

ATTENTION

The IPPB mode should always be used with an intentional leak connected to the circuit. For prolonged sessions, we recommend a minimum PEEP setting of 4 cmH20 and an expiratory slope setting of 1.

Data Monitoring

On the Home Screen it is possible to view the data from the last session for:

- Inspiratory Tidal Volume (VTI)
- Inspiratory Time (I Time)
- Exhalation Time (E Time)
- Pause Time (P Time)
- Peak Flow



NOTE:

If Oximetry via NONIN Xpod cable (EO-SPO2CBL) is connected, SpO2 and heart rate (HR) can be monitored.

Data Download



- 1. Insert a USB key in the USB port at the rear of EO-70
- 2. In the Menu tab, select "EXPORT DATA"
- 3. Create a new file if required
- 4. Select one or more files
- 5. Export the selected files
- 6. Import the data for EOVE Clinical Software

To access the EO-70 Clinical Software, please contact your local representative.

Device cleaning and maintenance

It is necessary to clean the EO-70 ventilator regularly in addition to inspecting the condition of the accessories on a weekly basis.



- Clean only exterior surfaces of the EO-70 device.
 - If necessary, wipe the exterior of the device with a damp cloth using a mild cleaning solution.
 - For all circuit components and hoses, follow the manufacturer's recommendations for cleaning and maintenance.



▲ ATTENTION

Do not spray any solution inside the docking station when the ventilation module is removed.

If storage is required, ensure that the internal battery is charged to prevent damage.

NOTE:

The EO-70 should be regularly serviced by an authorized EOVE technician according to the following schedule. In case of questions or problems always contact the Healthcare provider and more information is available in the User Manual.

Optional Accessories

- The EO-70 is transportable but should not be operated during the transport. Always use the carry bag.
- To attach a control pedal, connect the plug of the remote-control at the rear of the device.



SpO² can be monitored by the Xpod during therapy, ensuring safety in case of desaturation

A vertical support

to improve the view during the therapy.

Footswitch EO-70

My prescription

Patient _____

Preset _____



Mode	Manual	Automatic	
Inspiration pressure (cmH ₂ O)		mbar	
Slope		mbar	
Inspiration time (s)		sec	
Inspiration Trigger		sec	
Pause (s)		sec	
PEEP		mbar	
Exhalation pressure		mbar	
Exhalation time (s)		sec	
Freq		Hz	
Amp.	Low	Medium Hig	зh
Cycles nb			



Flow	L	L/min		
Max pressure	m	_ mbar		
Inspiration time (s)	S	sec		
Inspiration Trigger	Low	Medium	High	
PEEP	mbar			
Exhalation slope	Low	Medium	High	
Treatment time (min)				

Notes : _____

Notes



Manufactured by

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Medical device class IIb - CE 0459 - Manufactured by EOVE. Please read the user manual.