



Clearo® – Versatile Airway Clearance

The Clearo with TreatRepeat® is Breas' second-generation MI-E device. With four programmable profiles and a touchscreen interface, the Clearo integrates cutting-edge technology to provide precise and efficient airway clearance and cough assistance for patients.

Three distinctive innovations set the Clearo apart.



TREATREPEAT

Clinicians can program and automatically repeat custom insufflation-exsufflation cycles.

- Supports more accurate administration of therapy
- Accelerates initial patient configuration
- Facilitates faster titration of therapy



SYNCHRONY BEEP®

Audible alert prompting patient to cough, helping align their cough with the Clearo's exsufflation maneuver

- Auditory cues offer patient and caregiver reassurance and ease stress throughout therapy
- Anticipatory alert promotes patient independence during treatment



ITRIGGER®

Leveraging Breas' unique eSync® platform, iTrigger provides energy-triggering technology to help improve synchronization

- Smart trigger responsiveness that puts patient comfort first
- Reduces the effort required from the patient, which can reduce patient fatigue



Clearo shown with optional handheld remote with start/stop function.

Breas Clearo Technical Specifications

Settings / Performance	
Ventilation Modes	Manual, Basic Auto, Program Mode
Device Modes	Home/Clinical
Settings Profiles	Four profiles
Insufflation Pressure	3-70 cmH ₂ O
Exsufflation Pressure	-3 - -70 cmH ₂ O
Insufflation Time	0.5-5 s
Exsufflation Time	0.5-5 s
Pause Time	0-9 s (Auto Mode 0.5-9 s)
Flow Options (MI-E)	1-10 (10-100% of Ti max 4 s)
Inspiratory Trigger	Off, 1-10
Oscillations Frequency	Insufflations and/or Exsufflations, Off-1-20 Hz
Oscillations Amplitude	1-10 cmH ₂ O
Monitoring	
Displayed Data	Cough Peak Flow, Insufflation Volume, Pressure, Flow, SpO ₂ , Heart Rate Sessions Used, Average Session Duration
Waveforms	Pressure
Trends and Statistical Data via PC Software	Cough Peak Flow, Insufflation Volume, Use, SpO ₂ , Heart Rate
Power Supplies	
Mains Supply	100-240 V AC
Internal Battery	>30 min in MI-E Modes (based on settings of +40/ -45 cmH ₂ O, Ti/Te/P 2 s)
Alarms	
Alarms	Circuit Disconnection, Running on Battery Power, External Battery Fault, High Pressure Alarm, Internal Over Temperature Alarm, Low Battery, Low Memory Battery, Machine Fault, Low SpO ₂ Reading, High SO ₂ , SpO ₂ Sensor Disconnect, High Heart Rate, Low Heart Rate, Power Fail
Dimensions	
W x H x D	11.22 x 11.22 x 7.68 in (285 x 285 x 195 mm)
Weight	8.27 lbs. (3.75 kg)
Noise Level (at 10 cmH ₂ O constant pressure)	Sound level at 70 cmH ₂ O in Manual Mode less than 74 dB(A) measured at 1 m
Connectivity	
Built-in Connectivity	USB, SD card
Plug-and-Play Accessories	SpO ₂ , Hand Held Remote Start/Stop and Manual Switch
Other	
Circuits	Disposable circuit with bacterial filter, no leak port

Intended use:
The Clearo airway clearance device assists patients in loosening, mobilizing, and clearing secretions, as well as promoting lung volume recruitment by Mechanical Insufflation-Exsufflation (MI-E). The device can be used by adult or pediatric patients that have compromised secretion clearance and/or a reduced ability to cough effectively. The device can be used for MI-E in both invasively and non-invasively ventilated patients as well as patients who are self-ventilating. The device may be used either with a face mask, mouthpiece, or with a suitable adapter to a patient's endotracheal (ET) or tracheostomy tube (MI-E only). The device is intended for use within a hospital, institutional environment, or in the home.