



Clearo® – Versatile Airway Clearance

The Clearo with TreatRepeat® is Breas' second-generation MI-E device. This advanced device integrates cutting-edge technology to provide precise and efficient airway clearance and cough assistance for patients. With the TreatRepeat function, clinicians can manually administer specific insufflation and exsufflation cycles, saving the treatment for automatic repetition.



ADVANCED TITRATION TECHNOLOGY

- Unique to the Clearo – TreatRepeat
- Intuitive touchscreen user interface
- Hand-held remote manual switch with start/stop function



ENHANCED PATIENT SYNCHRONY

- TreatRepeat to help improve accuracy and speed of titration and set-up
- iTrigger® – built on the Breas patented eSync® algorithm
- Synchrony Beep® to aid patient-device synchrony



MULTIPLE MODE OPTIONS AND PROFILES

- Manual
- Basic Auto
- Program Auto
- Four (4) setting profiles



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	285 x 285 x 195 mm
Weight	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 paediatric 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 facemask, 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.