

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

MULTIPLE MODE OPTIONS

- Programmable automatic modes
- Dedicated IPPB mode
- NIV mode
- Manual mode

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



Breas Clearo Technical Specifications

Settings / Performance	
Ventilation Modes	Manual, Basic Auto, Program Mode, IPPB, NIV
Device Modes	Home/Clinical
Settings Profiles	Four profiles
Insufflation Pressure	3–70 cmH_2O
Exsufflation Pressure	-3 – -70 cmH_2O
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)
Flow (IPPB)	20–120 L/min
Inspiratory Trigger	Off, 1–10
Oscillations Frequency	Insufflations and/or Exsufflations, Off–1–20 Hz
Oscillations Amplitude	1–10 cmH_2O
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_2O, 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_2O constant pressure)	Sound level at 70 cmH_2O 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 for MI-E Modes and disposable circuit with bacterial filter and leak port for IPPB and NIV Modes

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.

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