



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



HANDHELD REMOTE

Optional handheld remote with start/stop function toggle.

- May allow for better patient assessment and easier control
- Deliver manual insufflations and exsufflations using the switch
- Easily start and stop automatic treatment prescriptions



Clearo shown with optional handheld remote.

Breas Clearo Technical Specifications

| Settings / Performance | |
|---|---|
| Ventilation Modes | Manual, Basic Auto, Program Mode |
| Device Modes | Home/Clinical |
| Settings Profiles | Four profiles |
| Insufflation Pressure | 3 to 70 cmH ₂ O |
| Exsufflation Pressure | -3 to -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 |
| Optional Internal Battery | >30 min in MI-E Modes (based on settings of +40/ -45 cmH ₂ O, Ti/Te/P 2 s) |
| Alarms | |
| Alarms | High Pressure Alarm, Power Source Changed Alarm, Power Fail Alarm, Battery Exhausted Alarm, SpO ₂ Sensor Disconnected Alarm, Low Battery Power Alarm |
| 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) without internal battery |
| Noise Level | Sound level at 70 cmH ₂ O in Manual Mode less than 74 dB(A) measured at 1 m |
| Connectivity | |
| Built-in Connectivity | 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.

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Breas Medical Inc · 16 Esquire Rd · N. Billerica · MA 01862 · USA · Phone 855-436-8724 · www.breas.us



Distributed by McArthur Medical Sales Inc.

Tel: 519-622-4030

Toll: 1-800-996-6674

Email: mmsi@mcarthurmedical.com

Web: www.mcarthurmedical.com