Discover the next level of OLE therapy

The BiWaze® Clear system innovates oscillating lung expansion (OLE) therapy with an advanced design that:

- DELIVERS superior aerosol efficiency, deeper into the lungs.[1]
- FEATURES a closed breathing circuit with Aerogen® Solo.
- PROVIDES an expiratory flow bias during high frequency oscillations to mobilize mucus from distal to central airways.[2]
- INCLUDES a lithium-ion battery with every lightweight system.
- SIMPLIFIES therapy setup and delivery with an intuitive touchscreen.

BiWaze® Clear expands airway clearance from hospital to home

Specifications

PEP Pressure	1 to 30 cmH20
Oscillation Pressure	5 to 70 cmH20
Oscillation Frequency	Low (3 Hz), Med (4 Hz), High (5 Hz)
Phase Duration	5 seconds – 30 minutes
Modes	Auto & Manual
Presets Available	Up to 10 with customizable names
Weight	9 lb with battery
Battery	Included with every system
Number of therapies per battery charge	10 nominal therapies*
Patient Interfaces	Mouthpiece, Face Mask, Trach Adapter (to a trach or endotracheal tube)
Aerogen® Controller	Included within the BiWaze® Clear control unit
Aerogen® Solo Nebulizer	Included within the BiWaze® Clear Dual Lumen Breathing Circuit

* Nominal = a 10 minute standard OLE therapy

** FDA Cleared for saline solution only with the nebulizer

1 Kontoudios N, KenKnight HR, DiBlasi RM. In Vitro Comparison of Aerosol Delivery in High-Frequency Assisted Airway Clearance Devices With Integrated Nebulizers. *Respir Care.* 2024 Sep 26;69(10):1221-1230.

2 DiBlasi, Robert, Nicholas Kontoudios, and Howard KenKnight. Assessment of Oscillatory Pressure and Flow Waveforms With the BiWaze® Clear System: A Study in Vitro. Seattle Children's Hospital & Research Institute; ABM Respiratory Care, 2025. https://abmrc.com/wpcontent/uploads/2025/02/BiWaze-Clear-Spontaneous-Breathing-Oscillation-Comparison-1.pdf.

℞ Only

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Respiratory Therapy

BiWaze® Clear SYSTEM

One system, three therapies

The BiWaze® Clear System delivers OLE therapy in just 10 minutes through a combination of the following therapies:

Positive Expiratory Pressure (PEP):
The system delivers a programmed positive pressure which the patient exhales against to open and expand the patient's airways. The Aerogen® Solo can be configured to run during PEP therapy to help move the aerosol throughout the airways.

High Frequency Oscillation:
The system oscillates the airways with pulses of positive pressure to thin secretions and mobilize them from the lower airways to the upper airways so they can be coughed or sectioned out. The Aerogen® Solo can be configured to run during oscillation therapy to help move the aerosol throughout the airways.

Nebulizer:
The system powers only the Aerogen® Solo vibrating mesh nebulizer to deliver medicated aerosol without PEP or oscillations.

Superior Aerosol Delivery

In vitro study found BiWaze Clear delivers a greater deposition of aerosol to the lungs compared to other OLE systems. The closed, dual-lumen breathing circuit with the Aerogen® nebulizer** has a profound impact on aerosol delivery.[1]

4.5x more aerosol during PEP therapy[1]

2.2x more aerosol during HFO therapy[1]

8.5x less fugitive aerosol[1]

Selecting the right therapy for your patient

OLE therapy offers a new airway clearance choice, so you can select the best option for your patient.

When to select Internal High Frequency Oscillations versus External High Frequency Oscillations (example CPT or HFCWO)

INTERNAL
- Prevent or treat atelectasis
- Secretion clearance
- Chest wall can't be manipulated
- Can't apply vest
- Burns to thorax

EXTERNAL
- Secretion clearance
- Patient can't tolerate mask

Expiratory Flow & Pressure Precision for Airway Clearance

Independent *in-vitro* bench testing showed that the BiWaze® Clear system generated up to three times greater expiratory flow bias than a comparator OLE system, a performance factor associated with mobilizing mucus from distal to central airways. In the same study, BiWaze® Clear kept airway pressure within the tolerance range in 100% of high-frequency oscillation (HFO) tests.[2]

POTENTIALLY ELIGIBLE CHRONIC CONDITIONS

- COPD
- Spinal Muscular Atrophy
- Bronchiectasis
- Amyotrophic Lateral Sclerosis
- Cystic Fibrosis
- Spinal Cord injuries
- Muscular Dystrophy
- Quadriplegia

Reimbursement

E0469 = Lung expansion airway clearance, continuous high frequency oscillation, and nebulization device (13 month capped rental).

A7021 = Monthly breathing circuit kit for E0469 (e.g., handset, nebulizer, breathing tube, bacterial / viral filter).