biWaze®

AIRWAY CLEARANCE SYSTEM

a breath of fresh care™

abm RESPIRATORY CARE

overview

The BiWaze® Airway Clearance System clears mucus from the lungs with an assisted cough therapy by applying positive air pressure (inhale) to the airway and then rapidly shifting to negative air pressure (exhale).

After exhale, the pause phase allows the person to rest before the next assisted cough cycle. BiWaze can provide positive pressure flow during the pause phase, so the person's airways are reopened gradually after the exhale instead of being forcefully reopened with the next inhale.

BiWaze® Cough

TOP AND FRONT PANEL

1. **Touch Screen** Allows you to view settings, system status information, real-time patient data, and logs. You can also modify settings from the touch screen.
2. **Device Mode LED Light** Provides different color code lights.

   Green = Manual Mode
   Blue = Auto Mode
   Red = Error or Shutdown Mode
3. **Patient Port** Patient breathing circuit is connected to this port on the device.

SIDE PANEL

4. **Air Inlet Filter** This is the inlet port for inspiratory air.
5. **Cooling Fan** To cool the main control board.

BACK PANEL

6. **Power Switch** Turns the device on and off.
7. **AC Power Inlet** Connection for the AC power cord here.

SIDE PANEL

8. **Foot Pedal Port** Connection port for foot pedal.
9. **HDMI Port** External HDMI display.
10. **USB Ports** USB memory sticks and SpO2 connections.
11. **Handle** Handle to carry the device.

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compare

LEADING THE INNOVATION

9 lbs
BiWaze

9.4 lbs
Phillips Cough Assist

	BiWaze	Phillips Cough Assist
PAP on Pause	✓	X
Oscillations	✓	✓
Touch Screen	✓	X
Stored Therapy Profiles	✓	✓
Advanced Therapy Programming	✓	X
Remote Control	✓	X
Dual Airpath Control	✓	X
Lithium-Ion Battery Included	✓	X

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in vitro bench study

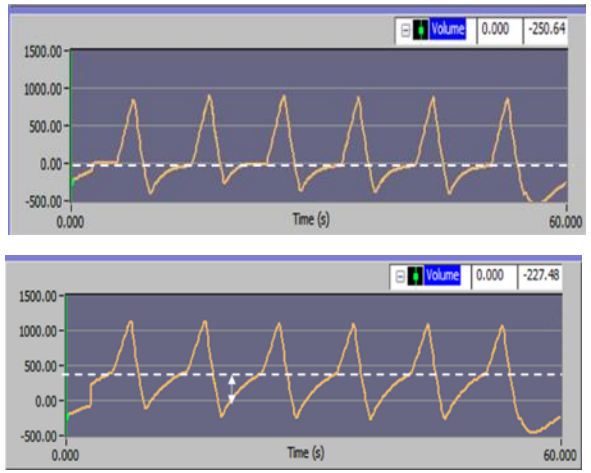
BIWAZE COUGH VS COUGH ASSIST T70 WITH SAME SETTINGS

Greater cough efficiency

MIE Device	IP/ EP	PIF (L/min)	PCF (L/min)	ΔPCF-PIF (L/min)	Flow Accel. (mL/s^2)	Transairway Pressure (cmH$_2$O)
BiWaze Cough	±20	30	106	76	72	32
T70	±20	43	89	46	43	31
BiWaze Cough	±30	48	156	108	101	47
T70	±30	55	124	69	58	46
BiWaze Cough	±40	62	186	123	146	65
T70	±40	69	173	104	92	63

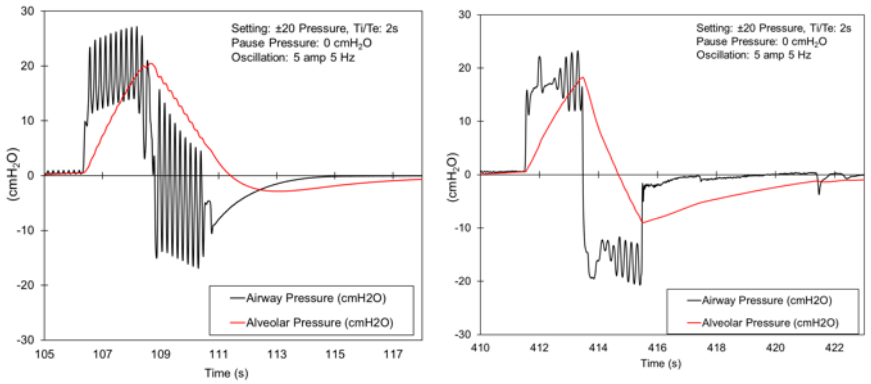
BiWaze Cough has higher Transairway Pressure, Flow Acceleration, and Peak Cough Flow.

Better for sick patients



PAP on Pause provides a distending pressure to stabilize the lung volume immediately after a planned disconnection from a ventilator and during MIE therapy.

Better Secretion Clearance



BiWaze Cough provides consistent airway pressures and flow oscillations, appearing in the alveolar pressure waveform.

CoughAssist T70 oscillations were lower and highly variable, and not apparent in alveolar pressure waveform.

redefining user friendliness

- Positive Airway Pressure (PAP) during pause phase
- Dual air-path control to separate inhaled and exhaled air
- Stored therapy profiles (up to 10)
- Advanced therapy programming to customize cough cycles
- Touchscreen control
- Light weight (9 lbs)
- Built in lithium-ion battery included
- Programmable high frequency oscillations

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