



BiWaze[®] Clear

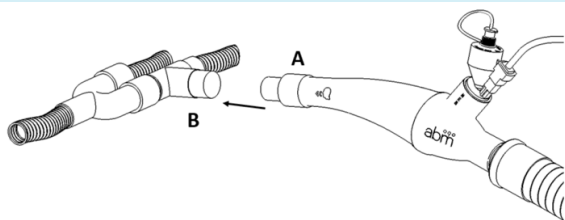
in-line with a ventilator

BiWaze Clear can be used in line with a ventilator circuit to deliver high-frequency oscillation therapy to expand collapsed airways and mobilize retained secretions deep within the lungs of ventilated patients in the acute care setting.

To connect BiWaze Clear breathing circuit to the ventilator circuit, use a spring-valved tee adapter for the connection. The location of the spring-valved tee adapter depends on the type of ventilator circuit being used.

- **Single-limb circuit with leak valve:** place the spring-valved tee adapter between the patient interface and the leak valve.
- **Single-limb circuit with exhalation valve:** place the spring-valved tee prior to the patient interface.
- **Dual-limb circuit:** place the spring-valved tee on the inspiratory limb, prior to the bifurcated wye.

Place the two-step adapter onto the end of BiWaze Clear's Dual Lumen Breathing Circuit handset (**A**) then insert it into the spring-valved tee adapter in the ventilator circuit (**B**).



Ensure BiWaze Clear therapy is running **PRIOR** to connecting to the spring-valved tee adaptor for therapy delivery.

DO NOT stop BiWaze Clear therapy prior to disconnecting from the spring-valved tee adaptor.

It is recommended for the ventilator to be in pressure control ventilation (PCV) mode when delivering BiWaze Clear's high frequency oscillation (OSC) therapy in-line.

Also, it is recommended to use BiWaze Clear in manual mode when delivering OSC with NEB in-line, so the therapy doesn't stop after the programmed time

- **Peak Pressure:** match the programmed (peak) oscillation pressure on BiWaze Clear in manual mode to the peak inspiratory pressure (PIP) on the ventilator.
- **Suction:** suction mucus plugs as necessary from the upper airways during BiWaze Clear's oscillation therapy.
- **Oxygen level:** oxygen levels may fluctuate during therapy due to the patient's underlying condition and ventilator settings. Ensure close monitoring of the patient and adjust oxygen delivery as needed to maintain the target oxygen saturation.

You may see the following ventilator parameters affected during in-line BiWaze Clear therapy.

- **Volume:** The ventilator may not accurately calculate volume due to the additional flow from BiWaze Clear, potentially resulting in inaccurate volume measurements and triggering volume alarms.
- **Rate:** The ventilator may not accurately calculate respiratory rate due to the oscillations from BiWaze Clear, potentially resulting in inaccurate rate measurements and triggering rate alarms.
- **Auto-Cycling:** The oscillations generated by BiWaze Clear may cause the ventilator to interpret them as a patient-initiated breath, leading to 'auto-cycling'. To prevent auto-cycling, the breath trigger threshold can be increased.

Your facility protocol may be to silence the alarms and closely monitor the patient. If any adjustments were made during therapy, revert the ventilator alarms and settings to their original values.

For complete warnings, cautions and instructions see the BiWaze Clear User Manual.

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