

Ten Reasons to use the Exhalometer™

Ventilation Consistency:

1. **Gives immediate feedback to rescue personnel, enabling them to provide correct ventilation parameters.**

The American Association of Respiratory Care (AARC) states in their Clinical Practice Guideline: “Manual resuscitators must provide for measurement of exhaled tidal volumes”. The Exhalometer provides this capability.

2. **Eliminates guess work about what’s being delivered to the patients**

Studies have shown that even highly trained respiratory care practitioners inadvertently provide large differences (greater than 250%) in the supplied tidal volumes. In addition, rescuers often do not detect mask leakage. As the Exhalometer measures expired ventilation leakage becomes immediately evident.

3. **The Exhalometer™ can be used to pace breathing**

In emergency situations there is a tendency to hyperventilate the patient. By squeezing the bag each time the Tidal Volume display on the Exhalometer™ goes off, a respiration rate of 10 to 12 breaths per minute can be maintained. During CPR it helps the rescuer maintain the desired 8 to 10 resp/min.

Patient Safety:

4. **Tracks minute volume not just tidal volume**

Minute Volume is a more accurate indication of proper ventilation than Tidal Volume alone.

5. **Prevents adverse effects resulting from hyperventilation and hypoventilation**

For patients in cardiac arrest, excessive ventilation can inhibit venous return to the heart, causing poor outcomes and even death. For brain injured (TBI) patients, it is critically important to prevent the patient from becoming hypoxic for even a very short period of time.

6. **The Exhalometer™ can be used to verify that the resuscitator is performing properly**

ISO 8382 recommends that the resuscitator be functionally tested prior to use. In practice this is often not practical due to the urgent requirement to initiate ventilation. As the Exhalometer™ indicates the amount of gas the patient received, a resuscitator problem becomes immediately evident.

7. **Measures Patient’s Spontaneous Breathing**

Should a patient begin spontaneous breathing the Exhalometer measures the adequacy of their efforts.

8. **Reduces potential liability**

The Exhalometer™ assures that the patient has been provided the appropriate ventilation.

Training:

9. **Provides rescue personnel feedback to develop a feel for proper ventilation**

The Exhalometer™ gives immediate feed back, permitting new personnel to quickly develop the proper feel for correct ventilation and already trained personnel to refresh their skills.

10. **Allows less qualified rescuers to maintain appropriate ventilation**

Because the Exhalometer™ gives immediate quantitative feed back less skilled personnel can be instructed to maintain set parameters and allow more highly skilled rescuers to attend to other pressing needs such as wound mitigation. This can be of immense importance in the event of a large scale disaster.