

## Technical Update

The purpose of this technical update is to make our customers aware of the importance of supplying blended gas to the Bunnell Life Pulse High-Frequency Ventilator from a blender that is accurate at low flow rates (minimum 2 L/min).

Most air/oxygen blenders have a primary port and an auxiliary port. The primary port is typically the high flow output (15-120 L/min.), while the auxiliary port is usually the low flow output (2-100 L/min.).

The Bunnell Life Pulse is a low flow system (2-8 L/min.), and it should receive blended gas from a low flow source. This source can be the low flow port of a standard blender or either port of a low flow blender (0-30 L/min.). As long as the flow from the port is at or above the blender's minimum flow specification, blender accuracy should be  $\pm 3\%$ . If flow through the port is below the blender's minimum flow specification, the blended concentration can be higher than the set concentration.

We recommend that, if you use a dedicated blender with your Bunnell Life Pulse, its specifications should be checked to make sure that it has a low flow port (minimum 2 L/min.). If you do not have a dedicated blender for the Life Pulse, please consider dedicating a low flow blender (0-30 L/min.) to the system to help your staff avoid hooking up to the high flow port inadvertently.

If you or your staff has any questions regarding this matter, please contact David Platt at 800.800.4358 ext. 15 or [dplatt@bunl.com](mailto:dplatt@bunl.com)