

**TO: Newport HT50 Ventilator Users**

**SUBJECT: Potential Consequences of Connecting Supplemental Oxygen Inline with the HT50 Ventilator Breathing Circuit Instead of Using the Proper Accessories**

**Newport strongly advises against connecting supplemental oxygen directly into the HT50 Ventilator breathing circuit** because it may disrupt breath delivery, PEEP and built-in monitoring and alarm systems. Following are some specific examples of the potential consequences of this practice.

For all modes and breath types

HT50 may not be able to control the PEEP level. This may cause:

- Missed triggering when the patient makes a breathing effort
- Spontaneous breaths end before the patient stops inhaling
- High Pbase alarm due to elevated baseline (PEEP) pressure
- Nuisance Check Prox Line alarms
- Erroneous monitored values for spontaneous breath tidal volume and total breathing frequency

For Volume Control Breaths

HT50 cannot control the delivered tidal volume. This may cause:

- Overventilation with a possible decrease in CO<sub>2</sub> below normal.
- Increase in peak pressure, possibly causing a high pressure alarm and patient discomfort.
- Shortened breaths due to a high pressure alarm resulting in patient discomfort and dyssynchrony.
- Erroneously low monitored V<sub>T</sub> and  $\dot{V}_I$ .

For Pressure Control and Pressure Support Breaths

- Pressure will rise faster, may overshoot the target pressure, may cycle off early and/or result in a high pressure alarm all of which may cause patient discomfort and dys-synchrony.
- Erroneously low monitored V<sub>T</sub> and  $\dot{V}_I$  with nuisance Back up ventilation if monitored  $\dot{V}_I$  is below the Low  $\dot{V}_I$  alarm limit

### Use Appropriate Accessories for Oxygen Enrichment

Newport offers a high pressure (p/n HT460700) or low flow (p/n HT600044) solution for oxygen enrichment through the Newport HT50 Ventilator. Using these accessories will eliminate the problems associated with adding oxygen directly into the breathing circuit.

Please ensure that all HT50 Ventilators are set up with the proper accessories when delivering supplemental oxygen.



If you have any questions about providing patients with oxygen enrichment while they are ventilated with the Newport HT50, please contact Newport Clinical Education at 1.714.427.5811 ext. 218 or email [clinical@newportnmi.com](mailto:clinical@newportnmi.com).