

**SUBJECT: HT50 EZ Cal, Exhalation Valve Calibration Procedure  
(HT50 SW version 1.061 and later)**

**Introduction**

In April 2002, Newport released HT50 Ventilator software (SW) version 1.061. Upgrade to SW version 1.061 is optional but highly recommended (see Newport Product Bulletin MKPB041202/April 12, 2002).

This new software provides a quicker, easier method of exhalation valve calibration in addition to the one found in User Set Up. You perform the HT50 EZ Cal, exhalation valve calibration, in the Settings condition as you are powering on the ventilator, so you no longer need to enter User Set Up for routine exhalation valve calibration.

**Procedure for HT50 EZ Cal Exhalation Valve Calibration (SW Version 1.061 and later)**

Calibrate the exhalation valve prior to use as follows:

1. Connect the HT50 patient breathing circuit to the ventilator. Connect the patient connection (exhalation valve) of the breathing circuit to an adult (500 mL) test lung or occlude the patient connection.
2. Press the On/Standby button once to enter Settings condition.
3. Press the Manual Inflation button once, then again within three seconds.
4. The HT50 will start the EZ Cal and the ventilator will automatically test the exhalation valve. If it passes the test, the messages "Cal Completed", then "Press ON to Vent" will be displayed.
  - 5a. If the test fails, the message "Cal Failed" will be displayed.
  - 5b. Press the Silence/Reset button.
  - 5c. Check the integrity of the circuit, connections and test lung, then press the Manual Inflation button twice to initiate calibration again.
5. When calibration is finished, adjust patient settings appropriately, then press On/Standby to begin ventilation.

**Warning:** Improper operation of the ventilator may result if the exhalation valve is not calibrated properly. If the circuit/exhalation valve fails the calibration procedure, try another circuit/exhalation valve or use an alternate method of ventilation.

**Warning:** Some disposable breathing circuit/exhalation valve assemblies are not compatible with the HT50 Ventilator due to the requirements of the ventilator's sophisticated servo-controlled, pressure management system. These circuits/exhalation valve assemblies will fail the exhalation valve calibration. If your disposable circuit fails consistently, switch to a Newport-approved, reusable HT50 breathing circuit/exhalation valve assembly to ensure that the HT50 Ventilator performs to specification.

If you have any questions or need additional information about the HT50 EZ Cal Exhalation Valve Calibration, please contact Newport Clinical Education: 1.949.642.3910 ext. 218 or email: [clinical@newportnmi.com](mailto:clinical@newportnmi.com).