

Operating the Life Pulse HFV in Tandem with eVent Inspiration

The INSPIRATION Ventilator can interface safely and easily in tandem with the Life Pulse High Frequency Jet Ventilator (HFV) from Bunnell to provide background IMV breaths. The information listed below is intended as a general setup guide for use with the Life Pulse HFV. Please refer to the respective products User/Operators Manual for additional information.

INSPIRATION Setup Recommendations:

1. Select Neonate / Infant patient type
2. Perform calibrations: (System, Flow sensor and O₂)
3. Use the P-CMV mode
4. Enter the desired parameter settings:

a. Pcontrol level above PEEP: 5 – 80 cm H₂O

b. PEEP: 0 – 20 cmH₂O

c. Ti: 0.1 – 10 sec

Set the Inspiratory Time appropriate to promote alveolar recruitment (functions as a sigh breath).

d. Resp rate: 1 – 10 b/min

Set the CMV rate low (can be as low as 1 b/min).

e. Trigger type: Pressure 0.5 – 20 cm H₂O
Flow 0.1 – 10 l/min

Adjust trigger setting to the least sensitive setting to avoid auto cycling.

5. Set the Apnea alarm to maximum time delay and Adjust alarms as appropriate
6. Set “Auto – off”

There is a continuous base flow of 2 l/min delivered to the circuit with either trigger type. When flow triggering is enabled, the selected flow trigger level is the amount of continuous flow delivered to the circuit over and above the base flow. If flow trigger is selected the Proximal flow sensor should be placed on the Exp limb of the circuit to reduce tension on the ETT. This will cause the V_{te} to read falsely high due to the additional volume present in the expiratory limb of the circuit. Given that the trigger level is set to the least sensitive setting and V_{te} plays no part in breath delivery, placing the proximal flow sensor on the Exp limb of the circuit poses no danger to the patient.

**** Note:** CPAP provided from the Life Pulse HFV is not possible without backup ventilation activating. You can set the CMV rate as low as 1 b/min and the Pressure control as low as 5 cm H₂O above PEEP for minimum background ventilation