

Pneumatic Ventilation

Operational Verification Procedure pNeuton Model A

Thank you for your purchase. This procedure outlines a validation testing method used to verify proper operation of the **pNeuton A** Ventilator. It must be performed prior to using the ventilator for the first time in a health care facility. If the ventilator fails to pass any of the following tests do not apply the ventilator to a patient. Call Airon Corporation Customer Service at 888-448-1238.

Ventilator Setup

The following equipment is needed:

- 1. **pNeuton** Ventilator with Airon patient breathing circuit (PN 58001, 58006, 58011, 58021 or 58051)
- 2. Test lung, (1 L rigid wall, Airon Part # 21002 suggested)
- 3. Spirometer
- 4. Watch, a timer or stop watch

When ready:

- 1. Attach breathing circuit to ventilator following instructions in the Operators Manual. Circuit preparation will require the exchange of the exhalation valve divertor to the elbow connector provided.
- 2. Attach the test lung to the patient side of the breathing circuit.

If the contiletes has percent all the above stone it is ready for aliabel use

- 3. Set the controls as follows:
 - a. Mandatory Breath control to On
 - b. Oxygen % to 65%
 - c. PEEP / CPAP to Off
 - d. Peak Pressure to 50 cm H₂O
 - e. Tidal volume to 700 ml
 - f. Respiratory Rate to 12bpm
- 4. Attach Oxygen Input on rear panel of the ventilator to a high pressure oxygen source (55 psi <u>+</u> 15 psi) and turn on the oxygen.

NOTE: The ventilator will begin operation at the above settings when the oxygen is turned on. The alarm will sound. You may press the "Reset / Silence" button to silence the alarm.

Operational Verification

Verification Step	Acceptable Range	Result
Attach a spirometer to the expiratory valve, After 3 breaths measure the delivered tidal volume.	700 ± 70 cm ml	Pass / Fail
Count the respiratory rate with a stopwatch. Measure the number of breaths in one minute.	12 ± 2 breaths per minute	Pass / Fail
Remove the test lung and occlude the patient connection on the circuit. Read the circuit pressure from the pressure gauge on the front on the ventilator.	50 ± 5 cm H ₂ O	Pass / Fail
Remove the occlusion and allow the breathing circuit to remain open. Using a stopwatch, measure the time until the alarm sounds	22 ± 3 seconds	Pass / Fail

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Tested by:	Date:		

