pNeuton

Pneumatic Transport Ventilation

Operational Verification Procedure
pNeuton Model S

Thank you for your purchase. This procedure outlines a validation testing method used to verify proper operation of the **pNeuton** Transport 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 it to patients. Call Airon Corporation Customer Support at 888-448-1238.

Ventilator Setup

The following equipment is needed:

1. **pNeuton** Ventilator with breathing circuit (Airon # 58001 - #58051)
2. Test lung, (1 L rigid wall, Airon Part # 21002 suggested)
3. Spirometer
4. Watch

When ready:

1. Attach breathing circuit to ventilator following instructions in the Operators Manual.
2. Attach the test lung to the patient side of the breathing circuit.
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 H_2O
   e. Tidal volume to 700 ml
   f. Respiratory Rate to 12bpm
4. Attach ventilator Oxygen Input on rear panel of the ventilator to a high pressure oxygen source and turn on the oxygen.

NOTE: The ventilator will begin operation at the above settings when the oxygen is turned on.

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_2O	Pass / Fail
Gradually turn off the driving gas supply. Ensure that the low gas supply alarm activates prior to the cessation of ventilation.	Alarm sounds	Pass / Fail

If the ventilator has passed all the above steps it is ready for clinical use. Please fill out the Product Registration Card and return it to Airon Corporation. Thank you.

Tested by: _____ Date: _____

Airon

Airon Corporation
751 North Drive, Unit 6
Melbourne, FL 32934
tel (321) 821-9433 fax (321) 821-9443