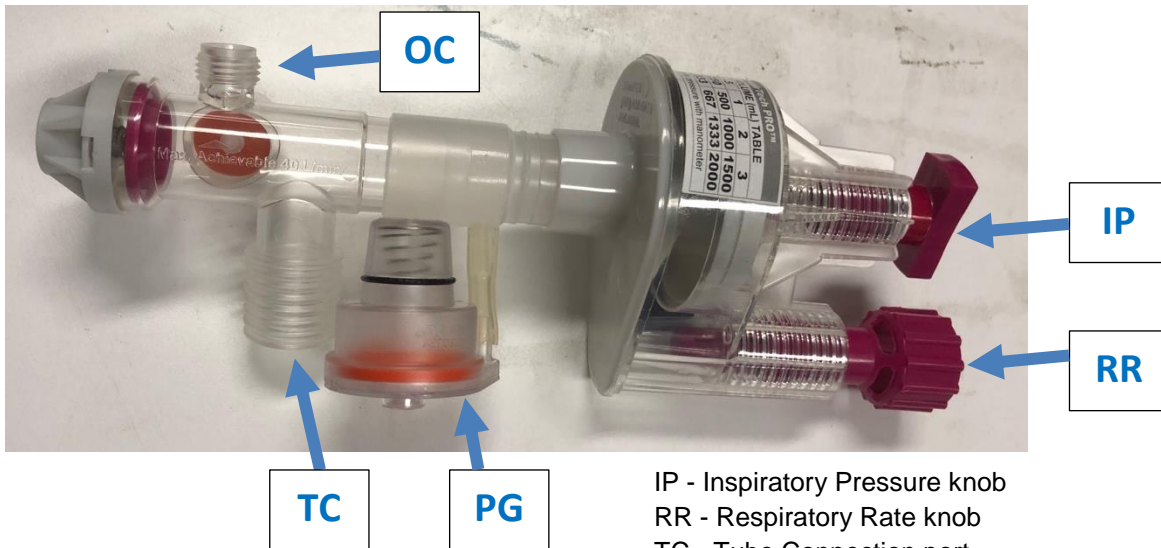





1.23 - Y2K Pneumatic Ventilator "Disposable Vent" - V1

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IP - Inspiratory Pressure knob
 RR - Respiratory Rate knob
 TC - Tube Connection port
 PG - Pressure Gage
 OC - Oxygen Connection port

<p>Step 1 - Remove nipple from oxygen flowmeter (if present)</p>	<p>Step 2 – Nipple is removed</p>	<p>Step 3 – Connect O2 tubing by screwing to flowmeter</p>
		

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<p>Step 4 – Connect O2 tubing to OC port (by screwing)</p>	<p>Step 5 - Connect TC port of the ventilator to hepafilter that is connected to endotracheal tube (OPTIONAL- can use extension tubing or in line suction to endotracheal tube for increased flexibility).</p>	<p>Step 6 - Turn RR knob to approximately the middle.</p>
		
<p>Step 7 - Start IP knob at approximately 20-30.</p>	<p>Step 8 - Turn on oxygen at flow meter at least 10 L/min and preferably higher (at least initially).</p>	<p>Step 9 - Watch for chest rise and fall. This is an indication of a tidal volume. Please recognize you are NOT measuring tidal volume. It will be challenging in patients who are obese.</p>
		<p style="text-align: center;">NO PHOTO</p>

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<p>Step 10 - If the chest movement is insufficient, turn IP knob in a clockwise manner thereby increasing the pressure. If too much, turn the IP knob counter-clockwise thus decreasing the pressure. See Video x1</p>	<p>Step 11 - The respiratory rate is adjusted by the RD knob. Turning it clockwise reduces the respiratory rate. If fully turned (inserted), the respiratory rate goes to zero and thus it essentially becomes continuous pressure (i.e. CPAP). See Video x2</p>
<p>Insert video clip</p>	<p>Insert video clip</p>

OXYGENATION - As you are delivering 100% oxygen, the only way to increase oxygenation effectively is to increase the mean airway pressure (reflected in amount of time chest is inflated). Please note that increasing respiratory rate has less impact on oxygenation.

CARBON DIOXIDE REMOVAL is a direct reflection of ventilation which is the product of the respiratory rate and the tidal volume. Thus, increases in either will lower the blood CO2 level.