

# Ventilator Equipment Pool (VEP)

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## Learning Objectives Checklist for Bi-level Positive Airway Pressure Ventilation using the Philips Respironics BiPAP A40

The patient and/or caregiver is able to.....	
1. Explain why the bi-level device is needed and how it helps breathing.	
2. State the daily schedule for use.	
3. List the symptoms the user may experience if: <ul style="list-style-type: none"><li>• the device is not performing optimally.</li><li>• the prescribed settings may need to be adjusted.</li><li>• the device is not used as prescribed.</li></ul>	
4. Explain the limitations of the device as it relates to the disease progression or setbacks such as respiratory infections.	
5. Locate the following parts of the device. <ul style="list-style-type: none"><li>• AC Power inlet</li><li>• SD Card Slot</li><li>• Inlet filter</li><li>• Power supply indicator</li><li>• START/STOP switch</li><li>• Alarm Indicator/Audio Pause button</li><li>• Display Screen</li><li>• Outlet port</li><li>• Humidifier latch</li><li>• Humidifier chamber</li><li>• Detachable Battery Module (if applicable)</li><li>• VEP asset number label</li></ul>	
6. Demonstrate how to connect the bi-level device to the power source.	

<p>7. Locate each of the following on the display screen:</p> <ul style="list-style-type: none"> <li>• Mode</li> <li>• Pressure bar graph</li> <li>• Lock</li> <li>• Humidifier</li> <li>• Battery Indicator</li> <li>• Menu</li> <li>• Ramp</li> </ul>	
<p>8. List the prescribed settings and demonstrate how to set each of the following parameters:</p> <ul style="list-style-type: none"> <li>• mode</li> <li>• inspiratory positive airway pressure (IPAP) range</li> <li>• expiratory positive airway pressure (EPAP) range</li> <li>• breaths per minute (BPM)</li> <li>• alarms</li> </ul>	
<p>9. Identify each of the following parts of the circuit and explain the purpose of each:</p> <ul style="list-style-type: none"> <li>• Tubing</li> <li>• Mask</li> <li>• Humidifier</li> <li>• Oxygen Pressure Valve (if applicable)</li> </ul>	
<p>10. Demonstrate how to disassemble and reassemble the circuit and humidifier</p>	
<p>11. Demonstrate how to find leaks in the circuit tubing.</p>	
<p>12. Explain how the exhalation port works and why the exhalation port is necessary.</p>	
<p>13. Demonstrate how to test the exhalation port to confirm airflow through it.</p>	
<p>14. Identify the parts of the mask.</p>	
<p>15. Demonstrate how to connect the mask to the tubing, apply it and adjust the mask.</p>	
<p>16. Demonstrate what to do if air leaks around the mask</p>	
<p>17. List ways to relieve any sore spots, redness, and irritation on the face or around the mask.</p>	
<p>18. Describe what to do if there is a lot of stomach bloating or burping.</p>	
<p>19. Explain why a humidifier may be required.</p>	
<p>20. State the kind of water to use in the humidifier and describe how to make distilled water “sterile”.</p>	

21. Explain why not to drain the water from the tubing back into the humidifier.	
22. Explain why routine checks of the ventilation system are necessary. <ul style="list-style-type: none"> <li>• check settings before use</li> <li>• test for flow through exhalation port</li> <li>• Check oxygen flow (if applicable)</li> </ul>	
23. List the schedule for replacing the BiPAP A40 filters.	
24. Demonstrate how to replace the BiPAP A40 filters.	
25. Explain how to mix the cleaning solution and when to change the solution.	
26. List the schedule and demonstrate how to clean the BiPAP A40, the tubing, mask, headgear and humidifier chamber.	
27. Explain what to do if you suspect the BiPAP A40 is not working properly or has stopped working completely.	
28. Explain what to do if there is a power failure when the BiPAP A40 is in use. <ul style="list-style-type: none"> <li>• If there is no detachable battery</li> <li>• If there is a detachable battery connected</li> </ul>	
29. Explain how long the BiPAP A40 is expected to run during a power failure when it is used with a detachable battery or external battery.	
30. Demonstrate how to connect an external power supply, if applicable.	
31. Explain how to charge the external battery, if applicable.	
32. Identify the home respiratory care company that will provide the respiratory supplies.	
33. List names and phone numbers of persons to contact for: <ul style="list-style-type: none"> <li>• Medical emergencies</li> <li>• Equipment emergencies</li> <li>• Power emergencies</li> </ul>	
34. Explain why the device is not a life support system.	
35. List the name and phone number of the prescribing doctor.	

\*Ventilator Equipment Pool, Kingston General Hospital, 2001  
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Learning Objectives adapted from the “Learning Objectives for Positive Pressure Ventilation in the Home”, National Centre for Home Mechanical Ventilation and National Jewish Centre For Immunology and Respiratory Medicine, 1993.