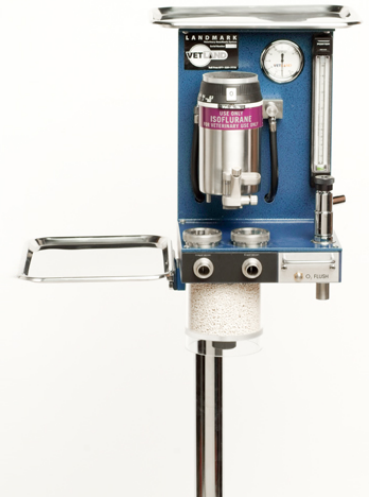




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## Daily/Routine Anesthesia Machine Maintenance

### CARE OF THE MACHINE

- Disconnect breathing hoses and bags from machine after use
- Check connection of oxygen source to machine
- Assess flutter (one-way valves) for moisture, if present remove domes and clean with dry gauze
- Check connection of vaporizer to machine

### VAPORIZER CARE

- Clean external portion of vaporizer with damp cloth or gauze
- Check window level and refill if below fill line
- Check drain pin and tighten (if present and necessary)

### CHECK AND CHANGE SODA SORB

- Replace after color change or after 6-10 hours of continuous use (WEAR GLOVES)
- Be sure to remove all dust and granules when replacing canister and gasket to prevent leaks
- Leave space for air movement at the top of the canister (1-3 inches)
- Always pressure check the machine after changing the soda sorb to ensure a tight seal on the canister

### PRESSURE CHECK (BEFORE EVERY PATIENT)

- CLOSE** the pop off valve and occlude the expiratory, inspiratory and bag ports
- Increase the pressure in the system by using the flowmeter (**NOT FLUSH**) until the pressure on the manometer reads 30-50cm H<sub>2</sub>O
- TURN OFF OXYGEN**
- Observe the manometer for 30-60 seconds
  - **The system should maintain pressure. If it does the equipment is safe for use**
  - **If the pressure drops you may set the oxygen flow meter at 200ml/min and continue observing the pressure**
    - **If the pressure continues to drop check all connections for leaks and start from the beginning**
  - **If the pressure rises while the flowmeter is off, then it or the O<sub>2</sub> flush may have a leak that needs to be addressed before use**
  - **ALWAYS ENSURE THE POP OFF IS OPEN AFTER PRESSURE CHECKING THE MACHINE**

- The following are common sites of anesthesia machine leaks
  - **The soda lime canister**
    - **Ensure it is properly and tightly attached. Loose granules or dust may cause a poor fit or leak.**
  - **Breathing hoses intended for single use will develop holes over time**
  - **Rebreathing bags intended for single use will develop holes over time**
    - **The head of the bag is particularly prone to tears**
  - **Inspiratory and expiratory dome covers may crack**
  - **Common gas outlet may be loose from attachment of non-rebreather**

## Yearly Machine Maintenance

### CARE OF THE MACHINE

- Check rubber goods for replacement
  - **Flutter valves**
  - **CO<sub>2</sub> canister gasket**
  - **Insp./Exp. dome cover O-rings**
- Schedule yearly certified technician inspection

### VAPORIZER CARE

- Have certified technician check output yearly via Reikan testing
  - **Send out for cleaning & calibration per findings or manufacturers specifications**

