



Purpose

- This Large volume compressor will aerosolize distilled water into a fine mist that will provide moisture to the upper airways and improve the patient's ability to clear mucous from the airways. The Nebulizer will create a cooling mist when the bottle is filled with distilled water; this mist is delivered through the tubing to the tracheostomy site.
- Oxygen can be added into the Nebulizer setup when using a 50 PSI Compressor. The need for oxygen and the amount you are prescribed is determined by your Doctor.

Equipment Maintenance Instructions for the Patient/Caregiver

- **Daily:** You must empty the drainage bag near the center of the tubing circuit when 1/2- 2/3 full. Dispose of collected water; DO NOT reuse.
- **Daily:** Refill the Nebulizer bottle when low (approaching minimum fill line); turn off the compressor, unscrew the Nebulizer bottle, refill to below the Maximum fill line with distilled water, reattach to Output Arm and tubing circuit, restart the compressor and observe for mist.
- **Weekly:** Clean the foam filters to reduce the risk of infection and maintain proper air flow through the machine; remove filters from back of the compressor, wash with warm soapy water, rinse with clear water and towel dry. Replace filters when dry. Do not allow the air compressor to run more than one hour without filters.
- **Weekly prior to a Nebulizer refill time:** perform nebulizer bottle hygiene to reduce risk of infection; turn off the compressor, detach the Nebulizer, empty any remaining water, wash with a mild soap/water, and rinse well with clear water. Refill the Nebulizer to below the Maximum fill line with distilled water, reattach to compressor and tubing circuit, restart the compressor and observe for mist.
- **Every 2 weeks or as instructed:** Replace the tubing/mask/drainage bag circuit items and nebulizer using a new **50 PSI Kit**. Turn off the compressor, remove used bottle and circuit materials; discard all used material. Refer to Equipment Setup steps 1-6 to reassemble the new nebulizer circuit.
 - **If using supplemental oxygen;** Replace oxygen tubing from concentrator and O2 Enrichment Adapter. Prepare your replacement system before removing the old setup to minimize the time the patient is off supplemental oxygen.

Compressor Components

- Output Arm; attach Nebulizer bottle here
- On/Off Switch
- Pressure Gauge; PSI compressor force (set at 25 PSI)
- PSI Adjustment Knob**
(Only your healthcare professional should adjust these settings)
- Air Filters



Compressor Controls



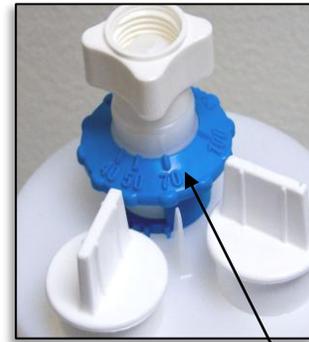
Compressor Filters

****DO NOT adjust PSI settings without first consulting your RN or contacting a Respiratory Therapist through the Therapy Support Customer Service at 1-877-885-4325**

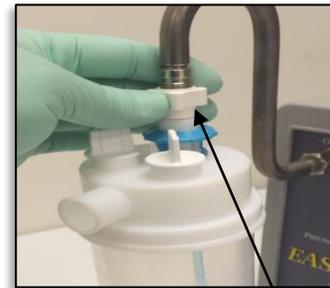


Equipment Setup

1. Place air compressor on a stable surface. Keep it below the level of the patients head to prevent aspiration of any accumulated water in the tubing if the air compressor should tip over.
2. Fill the Nebulizer bottle with distilled water just below the **Maximum Fill Line**. Refill when the water level reaches the **Minimum Fill** line.
Set the Blue Dial to 70% unless otherwise instructed by the RN.
3. Screw the Nebulizer bottle to the Output Arm of the air compressor. Carefully align the bottle to avoid the plastic threads from becoming cross threaded.
4. Connect the Oxygen Enrichment Adapter to the output port on the Nebulizer bottle. *If using oxygen*; uncap the small port on the Enrichment adaptor and attach the oxygen tubing from the Oxygen concentrator, then set the Liter Flow on the concentrator as instructed by your RN.
5. Attach the open end of blue corrugated tubing circuit to the end of the Oxygen Enrichment Adapter, next--hang the water drainage bag at the center of the tubing circuit from the patient's bed at a point below the level of the compressor and the patient.
6. Power on the air compressor. A fine mist should be seen at the mask end of the corrugated tubing. If not, check the tubing for kinks or other obstructions. Now place the mask over the trach site and gently secure in place.



Bottle Setting at 70



Bottle connection



Oxygen Connection

Precautions

- ✓ Always keep the air compressor below the level of the patients head.
- ✓ Use only **Distilled Water** in the nebulizer bottle and DO NOT overfill.
- ✓ Fill the nebulizer bottle to just below the **Maximum Fill Line**; overfilling will cause water to overflow into the tubing.
- ✓ When filling the nebulizer bottle, properly align the lid to avoid cross threading; improper placement of the lid will cause the nebulizer to malfunction.
- ✓ Never place medication in the nebulizer jar.
- ✓ Place the water drainage bag at the lowest point between the nebulizer and the patient so it prevents excess water from reaching the patient.
- ✓ A fine mist should always be seen at the mask end of the corrugated tubing when the compressor is running; if no mist is seen, check the tubing for kinks or other obstructions & check the water level in the nebulizer bottle.
- ✓ Check the filters on the back of the air compressor; there should be unobstructed air flow and filters should be clean and firmly in place.

Do not attempt to repair any equipment. Contact Therapy Support's 24 hour Customer Service if you experience any problems or have any questions; 1-877-885-4325