3M™ Versaflo™ Powered Air-Purifying Respirator (PAPR) Instructions

1. Inspect the PAPR components (motor/blower, breathing tube, battery, filter/filter cover, head gear) to ensure that no parts are missing or damaged.

2. Charge the battery in the battery charger cradle prior to use. Ensure the battery clicks into place. The cradle will indicate the status of the battery charge.

3. If using a filter cover, the size of the filter cover must match the size of the filter/cartridge provided to you for your specific job hazards. Example chemical/HEPA cartridge shown at left (BLACK/PURPLE label) and HEPA filter shown at right (PURPLE label).

4. Insert filter/cartridge into filter cover. Ensure the latching tab snaps into place.

If installed correctly, the filter/cartridge label should appear in the window of the filter cover. HEPA filter shown (PURPLE).

5. If using a filter cover, the size of the filter cover must match the size of the filter/cartridge provided to you for your specific job hazards. Example chemical/HEPA cartridge shown at left (BLACK/PURPLE label) and HEPA filter shown at right (PURPLE label).

6. Place the hinge side of the filter/cartridge into the motor/blower. A distinct click will be heard. Gently pull to ensure a firm connection.

7. Remove the battery pack from the charger cradle by pressing on the blue button.

8. Press the TEST button on the bottom of the battery to confirm sufficient charge.

9. Attach the battery pack into the bottom of the motor/blower. A distinct click will be heard. Gently pull the battery to ensure it is firmly attached.

10. Turn the motor/blower ON. Let the unit run for 1 minute.

11. Insert the air flow indicator into the outlet on the motor/blower. With the air flow indicator in a vertical position, ensure the floating ball is at or above the minimum flow level for your zone on the attached chart.

12. Insert filter/cartridge into filter cover. Ensure the latching tab snaps into place.

For questions regarding PAPR use, contact the Occupational Hygiene & Safety (OHS) Division of the Occupational and Environmental Safety Office (OESO) at 919-684-5996.
Perform a low flow alarm test by blocking air flow with your palm. The motor/blower unit should emit an audible alarm and show a flashing red light in ~30 seconds. If no alarm sounds, remove it from use and have it serviced. If the alarm sounds, proceed with these PAPR instructions.

Attach the breathing tube end (with metal prongs) to the motor/blower unit.

Twist ¼ turn clockwise to lock. Gently pull on the breathing tube to ensure a good connection.

Insert the air flow indicator into the outlet of the breathing tube. With the air flow indicator in a vertical position, ensure the floating ball is at or above the minimum flow level.

If not above the minimum level, re-inspect the breathing tube for blockage or damage. Replace the breathing tube if minimum air flow is not achieved, then re-check air flow. Turn motor/blower unit OFF to continue assembly.

Attach the breathing tube to the hood. Push the end of the breathing tube into the air inlet of the hood. You will hear a click. Gently pull to confirm the breathing tube is secure.

Follow "Donning Loose-Fitting Headgear for PAPRs" on pages 3 & 4 of this document.

Once the PAPR has been donned, fan speed can be adjusted using the blue fan button adjacent to the power button (600 model) or the blue power button (300+ model) (shown in step 10).

Ensure additional PPE is in place before starting work tasks.

Follow "Post PAPR Use Instructions" (page 5) of this document upon completion of work tasks.

For questions regarding PAPR use, contact the Occupational Hygiene & Safety (OHS) Division of the Occupational and Environmental Safety Office (OESO) at 919-684-5996.
**Donning Loose-Fitting Headgear for PAPRs**

There are three general types of loose-fitting headgear for PAPRs:

A) Headcover  
B) Hood with single shroud  
C) Hood with double shroud

Regardless of the PAPR headgear that you use, follow these important steps.

1. **A**  
   - With the breathing tube attached and laying over your shoulder, bring the headcover to your front.

2. **B**  
   - Pull the headcover over your head so the visor is in front of your face.

3. **C**  
   - If the headgear is new, remove the protective film on the visor.

   - If the headgear is equipped with an adjustable plastic suspension, it may be adjusted to achieve a comfortable fit.

4. **C**  
   - Prior to donning the headgear, ensure that the headgear is attached to the motor/blower with the breathing tube, the motor/blower is worn at the back and turned ON.

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6. **A**  
   - If required, perform hand hygiene.

7. **B**  
   - Don any remaining PPE as required by your department.

8. **C**  
   - Air will flow around the face. This is a properly fitting headcover (shown above).

9. **C**  
   - To ensure the best fit, the elastic edge of the headcover should contact your face under the chin, and in front of the ears. The headcover should not cover the ears.

10. **C**  
    - If required, perform hand hygiene. Don any remaining PPE as required by your department.

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This headcover is too small for the user

Properly fitting headgear will be comfortable to wear and protect the user as intended. In these photos, the small circumference of the head suspension does not allow the comfort pad to be worn at the forehead. Additionally, the visor is too close to the face.

For questions regarding PAPR use, contact the Occupational Hygiene & Safety (OHS) Division of the Occupational and Environmental Safety Office (OESO) at 919-684-5996.

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With the breathing tube attached and laying over your shoulder, bring the single shroud hood to your front. Gather the shroud to expose the hood opening.

Pull the hood over your head so the visor is in front of your face. The comfort pad should be worn at the forehead, just above the eyebrows.

The elastic edge of the hood should contact your face under the chin, and in front of the ears. You should feel air flowing around the face.

Adjust the single shroud so that it drapes over the shoulders. The single shroud is designed to lie OUTSIDE the protective garment being worn, NOT INSIDE.

The double shroud hood has an inner soft shroud that goes UNDER the protective garment and an outer shroud that lays OVER the protective garment.

With the breathing tube attached and laying over your shoulder, bring the hood to your front. Gather the shrouds at the back of the hood and under the breathing tube connection to expose the hood opening.

Pull the hood over your head so the visor is in front of your face. The comfort pad should be worn at the forehead, above the eyebrows. The elastic edge should be under the chin, and in front of the ears.

You should feel air flowing around the face.

If required, perform hand hygiene.

Don any remaining PPE as required by your department.
Cleaner/Disinfectant

In general, many commonly used water-based hard-surface cleaners may also be used that will not damage the PAPR system. See Tables A and A2 in the Inspection, Cleaning, and Storage Procedures for 3M™ Versaflo™ PAPR TR-300, TR-300+, and TR-600 for a list of tested cleaners and their effects.

Choose a product from this list to prevent potential damage to the PAPR.

Do not use organic solvents (e.g., toluene, paint thinner) or abrasive cleaners as they may weaken and damage the plastic.

Do not use cleaners that leave a residue.

Do not allow liquid to enter the air inlet port or breathing tube port.

The PAPR assembly should be cleaned regularly. Follow the hygiene practices established for your worksite for the specific contaminants to which the respirator assembly has been exposed.

Clean Storage

Inspect the PAPR for any damage. Store the PAPR components in a designated area that is clean and free from contaminants.

For questions regarding PAPR use, contact the Occupational Hygiene & Safety (OHS) Division of the Occupational and Environmental Safety Office (OESO) at 919-684-5996.