A Powered Air Purifying Respirator (PAPR) is a respiratory protection device which provides a flow of filtered room air to a headpiece. PAPRs function on a positive pressure principle which prevents potential contaminants from entering the headcover (hood) as long as proper flow is maintained. Although fit-testing is not required, you must be trained prior to the use of a PAPR.

At UVM Medical Center, PAPRs are used primarily by those who are unable to pass a fit-test for an N95 respirator or for those who need have not been fit-tested and need immediate access to a patient on airborne precautions. When properly used, the Sentinel XL PAPR or 3M TR300 or TR600 will protect you from disease causing airborne particulate contaminants. This includes Tuberculosis (TB), Severe Acute Respiratory Syndrome (SARS), and Influenza. It will NOT protect you from gases, chemical vapors, smoke, or low oxygen environments.

When using a PAPR, you should feel the air flowing through the hood. If at any time you hear a beeping sound, or notice a change in airflow, leave the isolation area and re-evaluate the function of the PAPR.

The Powered Air Purifying Respirator (PAPR) kit contains the following items:
1. PAPR body, waist belt, hose, hood (and battery for the 3M)
2. Flow check device
3. Charging device
User directions: Donning (Putting On) a PAPR
https://www.youtube.com/watch?v=WT_IHbEGjJg

Sentinel XL Respirator (see pictures below)

Before using the Sentinel XL respirator, you must:

1. Ensure two HEPA filters (magenta/purple) are attached to the blower unit (one on each side). Remove any filter plugs (tabs) located in the center of each filter.
2. Check flow by placing clear plastic flow meter directly into the airflow exit port on PAPR.
   a. The black ‘torpedo’ float should be at or above the designated mark on the flowmeter.
   b. If the black cone is below the line, DO NOT use the PAPR. Use a different PAPR which does pass the flow check. Contact Health & Safety @ 847-2284 regarding the ineffective unit.
3. Remove flowmeter, put it back into the bag and screw the hose onto PAPR.
4. Place the PAPR around your waist and secure.
5. Bring hose up over your left shoulder. Screw hood onto hose. If you have a new hood, remove the protective film from the inside and outside of face shield.
6. Position hood over head and face. **If you have a full beard, the hood must fitted under your beard resting on the skin of your throat and neck.** Unit will alarm if battery gets low. If you hear the alarm, you have several minutes before the unit will fail. Leave the area and perform proper doffing described on page 6 below.
3M TR-300 or TR-600 Respirator (see pictures below)

Before using the 3M TR-300 or TR-600, you must:

1. Take battery off of the charger by pushing the blue button on side of battery. This will release the battery from the charger.
   a. Check battery power by pushing the led button on the underside of battery. You will see how many ‘energy bars’ are present. No bars = do not use battery and call H&S x72284.
2. Snap the charged battery into place on the bottom of the PAPR body by inserting the end opposite of the blue button first and then snapping it into place. Turn unit ON.
3. Check flow by placing clear plastic flow meter directly into the airflow exit port on PAPR.
   a. For the model 300, the orange float should be at or above the “E” marking on flow meter.
   b. For the model 600, the red float should be at or above the designated mark on the flowmeter. Flow for the model 600 will automatically start on the lowest flow setting. (Push the flow button and hold to increase flow during use [normal, medium and high flow]).
4. Remove flowmeter, put it back into the bag and screw the hose onto PAPR.
5. Place the PAPR around your waist and secure.
6. Bring hose up over your left shoulder. Screw hood onto hose. If you have a new hood, remove the protective film from the inside and outside of face shield.
7. Position hood over head and face. If you have a full beard, the hood must fitted under your beard resting on the skin of your throat and neck. Unit will alarm if battery gets low. The model 600 will also vibrate. You still have at least 5 minutes of full run time if PAPR alarms.
User directions: DOFFING (Taking PAPR OFF)

IT IS THE SOLE RESPONSIBILITY OF THE USER TO DISINFECT THE PAPR AFTER USE TO ENSURE SAFETY

1. Remove gloves used in isolation room. Sanitize hands and put on a new pair of gloves.
2. Remove hood from your head and unscrew the hose from the hood.
   a. Using Oxivir or bleach wipes, completely disinfect exterior of hood.
   b. Using a new wipe, disinfect interior of hood.
   NOTE: Please use a clean, damp cloth to wipe off the clear face-shield portion of the hood inside and out after disinfection to reduce fogging. Set hood aside on clean surface.
3. Remove PAPR from your waist and turn off.
4. Unscrew the hose from the PAPR body.
5. Using a new Oxivir wipe, completely saturate and wipe down hose. Set aside on clean surface.
6. Using a new Oxivir wipe, completely saturate and wipe down the exterior of PAPR body including the battery on the 3M model. Use a new Oxivir or bleach wipe to disinfect the waist band.
7. For the 3M, push the blue button to release battery from PAPR body.
8. Place all disinfected components back into black bag except battery.
   a. Place bag back into clean storage.

Questions contact John Berino x71501
PAPR Parts Ordering Information

New PAPR Hose #130157
New Hood Med/Large (5-pak) #130154
New Flowmeter (TR300) # 130156
New Flowmeter (TR600) # 130155

Call health & safety if a battery needs to be replaced. Departments will be charged for lost batteries (~$250)

If a department wants to provide individual hoods for staff, please write your name on the back of the hood with a marker. End users are responsible for cleaning and storing their own hoods.