



with Ventilator Attachment

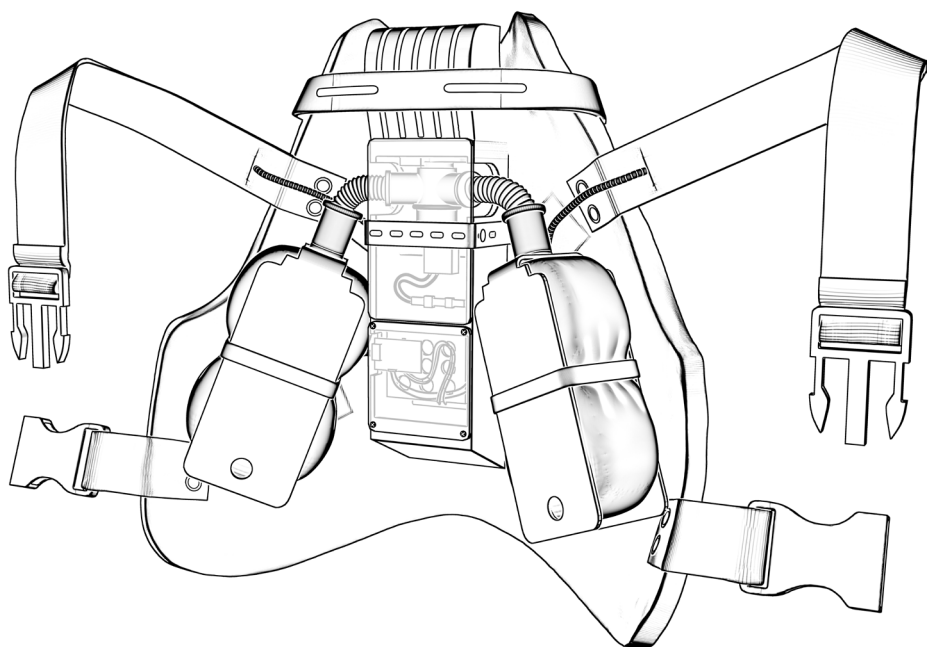
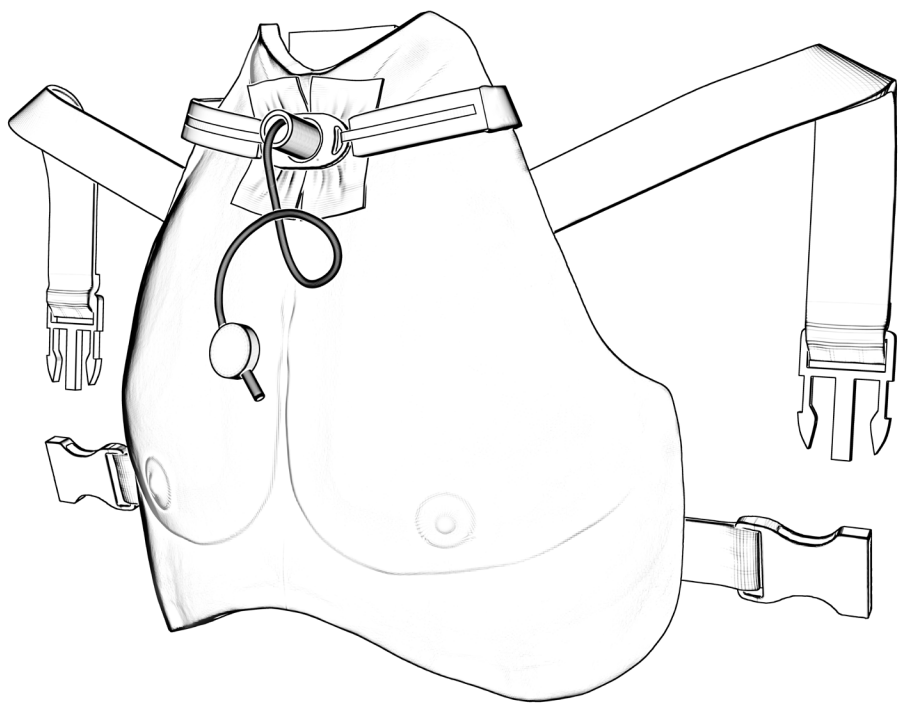
USER MANUAL

Customer Assistance

302-562-2110

Technical Support

302-562-2040



Welcome to your Avtrach!




Lung Sounds*- four lung sound locations on the chestplate can be controlled through the Avkin App

Simulated Mucus- mucus can be inserted directly into the trachea for simulations requiring tracheal suctioning

Sensory Feedback- simulated participants are cued through a light vibration on the shoulder to provide a patient response when (1) deep suctioning (2) faceplate pressure/manipulation. Learners receive real time feedback about their care

Ventilator Capable- hook up any ventilator to the Avtrach and see real ventilator readings

** Lung sounds provided by our partners,  **Thinklabs** Digital Stethoscopes and **R.A.L.E.**
Lung Sounds

What's Included

- ✓ Avtrach: wearable technology for use with standardized patients
- ✓ Size 6 “cuffed” Tracheostomy tube (modified for use) with disposable inner cannula
- ✓ Foam trach tie
- ✓ Drain Sponge
- ✓ Simulated Lungs (2)
- ✓ Ventilator Anti-Disconnect device
- ✓ Simulated Mucus- 2 green, 2 yellow, 2 clear syringes (colors may be darker than expected due to high concentration of mucus)
- ✓ Flexible catheter with luer lok end to be attached to luer lok syringe used for insertion of mucus
- ✓ Replacement finger cots for mucus chamber
- ✓ Micro USB charger

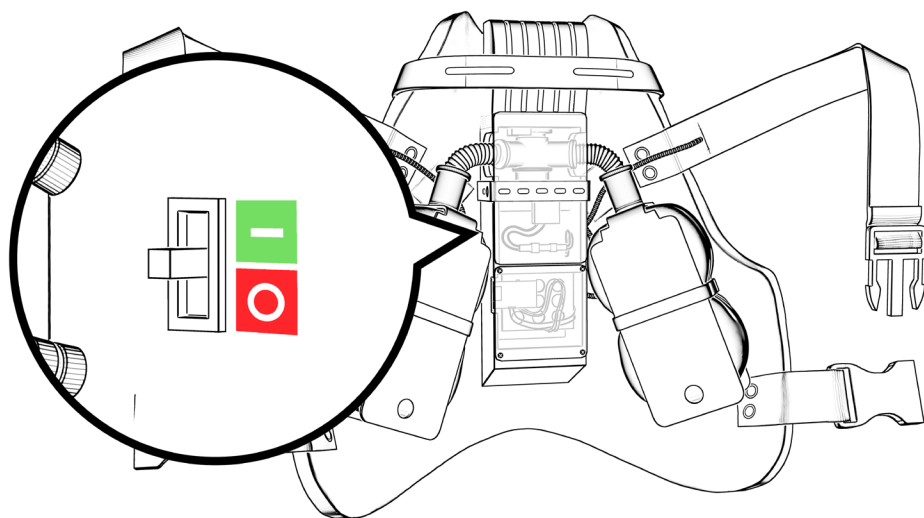
Getting Started

Watch the instructional video on the customer portal and USB.

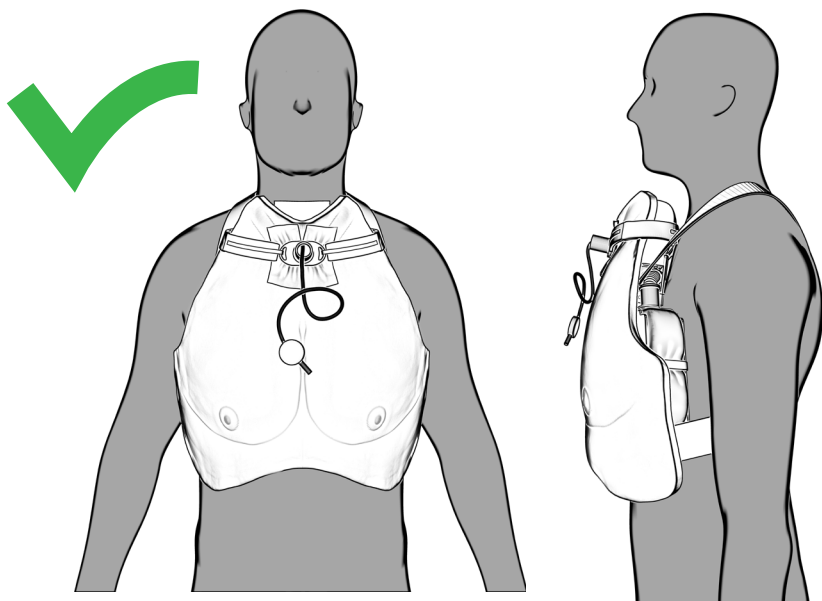
- 1 Download the “Avkin” App on your Apple or Android device.



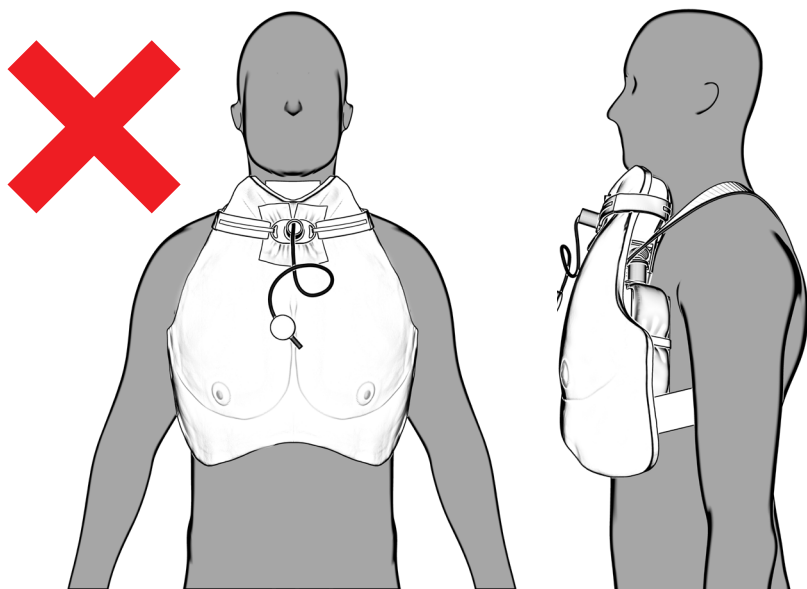
- 2 Turn on the device.



3 Put Avtrach on simulated participant

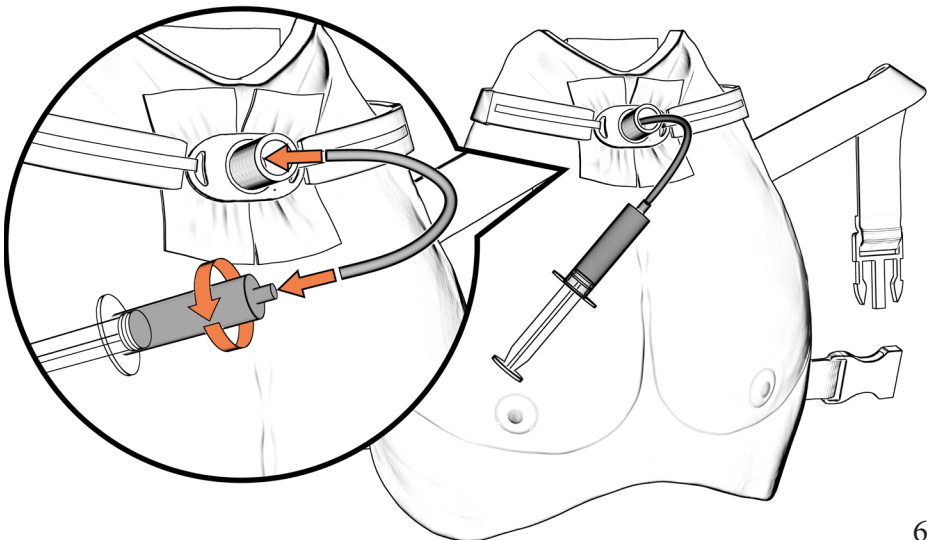


GOOD EXAMPLE - Not too high on chest, when sitting falls back on breastbone

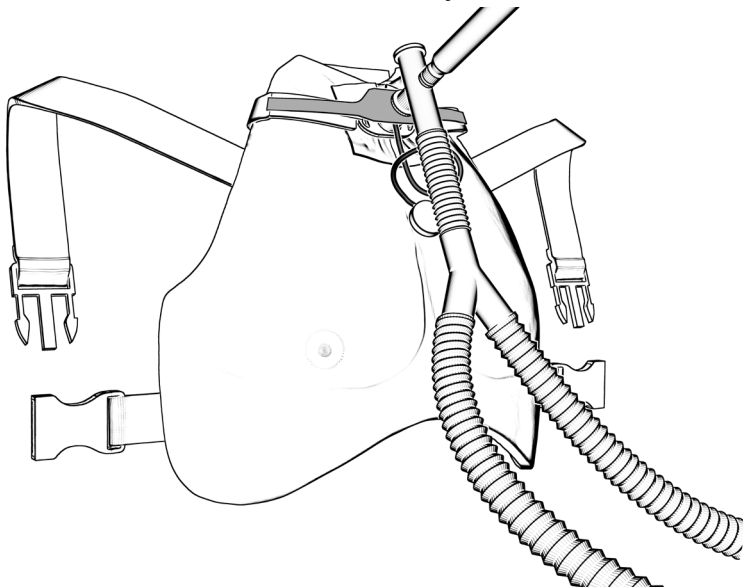


BAD EXAMPLE - Too high on chest, when sitting falls on throat

- 4 Turn on Bluetooth on your apple or android device
- 5 Open the Avkin App, select your Avtrach serial number (located on the chestplate) to connect to your device
- 6 Load the mucus into the device by attaching the mucus tubing to the syringe of mucus. Insert into the tracheostomy until you hit the carina sensor and feel the buzz. Insert 5ml of mucus the first time you fill the mucus chamber for the day, and 2ml of mucus after each simulation.



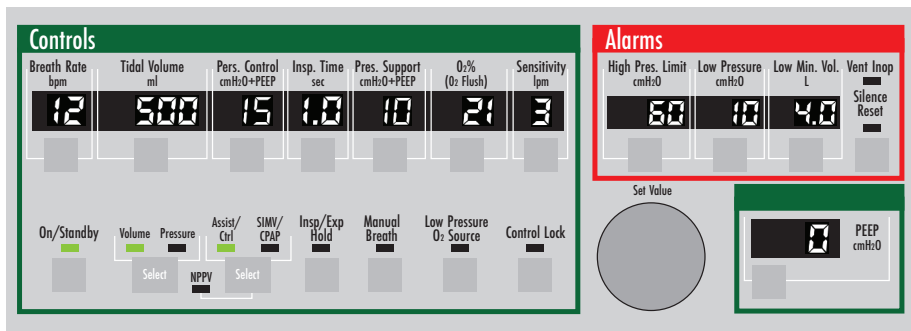
- 7 If using the ventilator, attach the flexible connection tubing to the tracheostomy and attach the ventilator. If not, remove the flexible connection tubing and the anti-disconnect device, then use your Avtrach as normal.



- 8 Run your simulation!

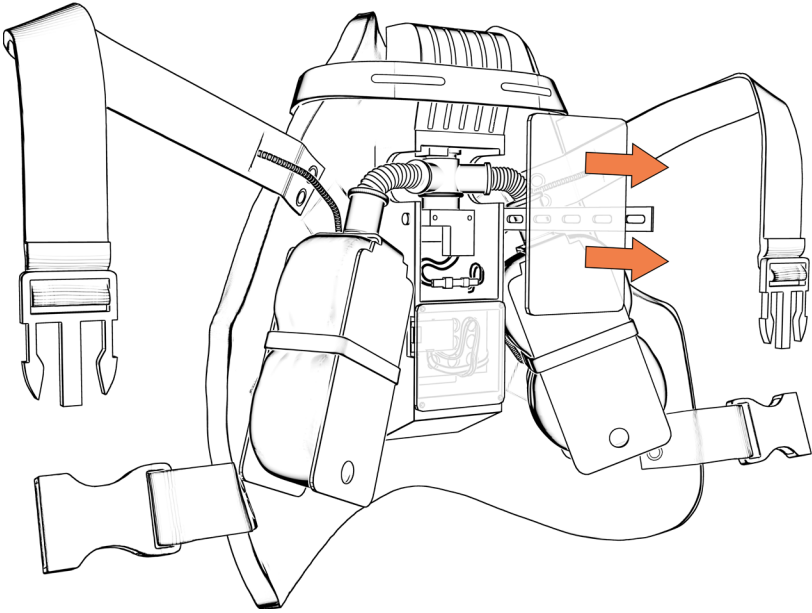
Be sure to test the ventilator for a few minutes before placing on SP or starting simulation to ensure connections are correct and simulated lungs have had time to “warm up”.

*Avtrach has been tested at the following ventilator settings:

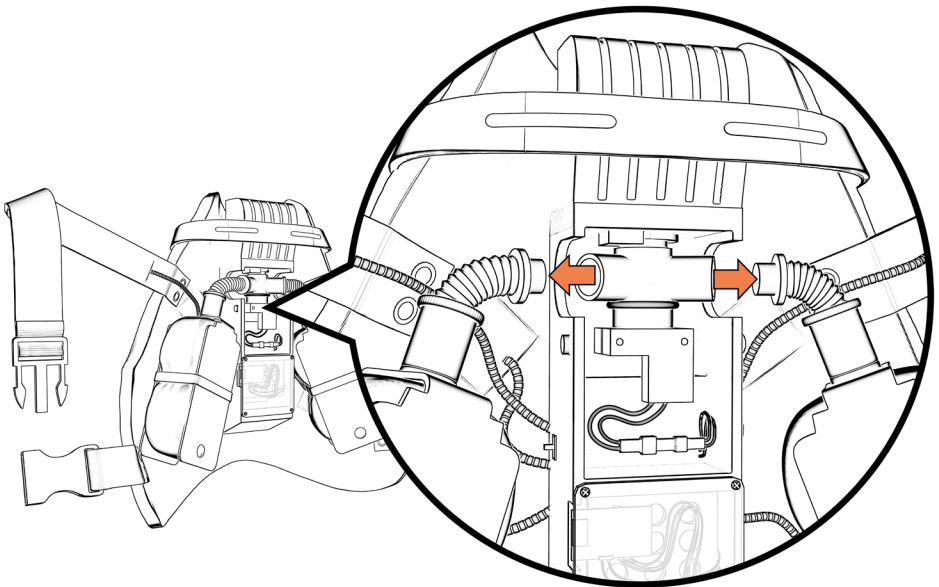


Care and Maintenance To Clean Mucus Chamber

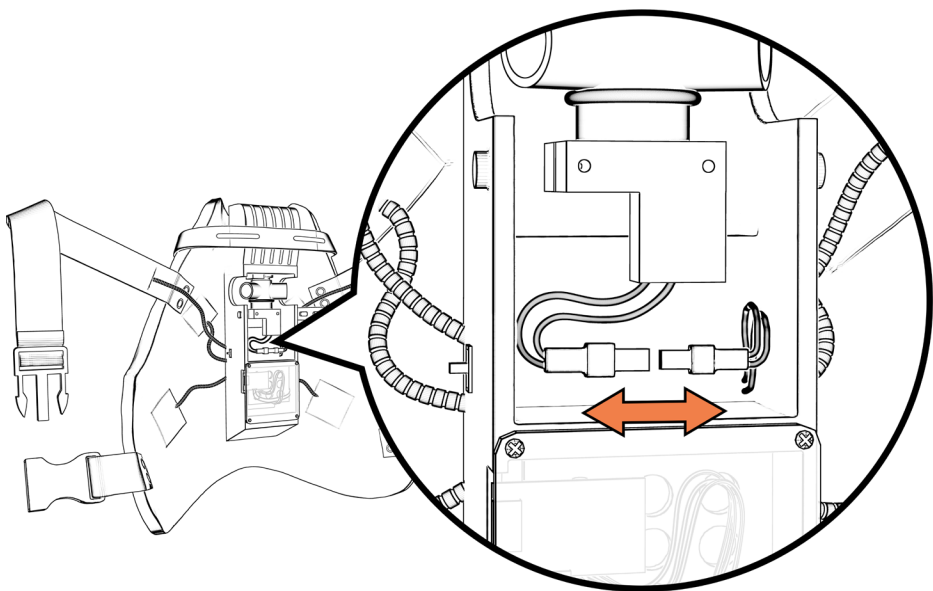
- 1 Turn Avtrach over and remove clear plastic cover from back.



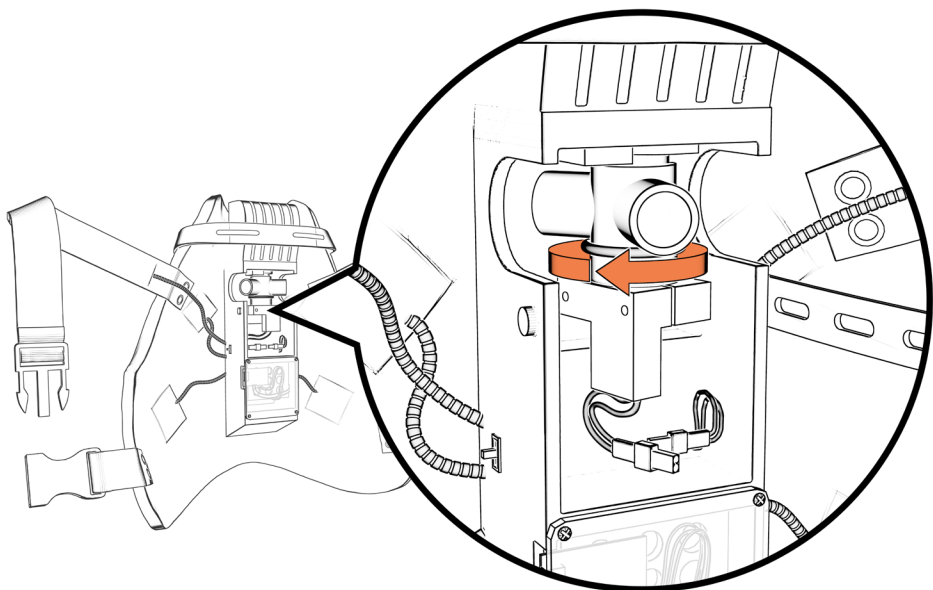
- 2 Disconnect 2 flexible connections from mucus chamber.



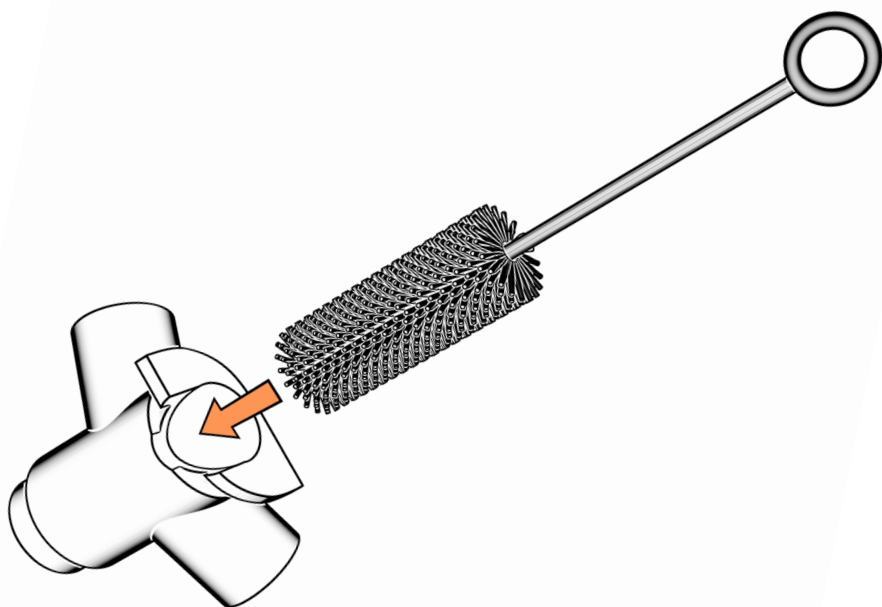
3 Disconnect electrical connection of mucus chamber.



4 Twist out mucus chamber from Avtrach.



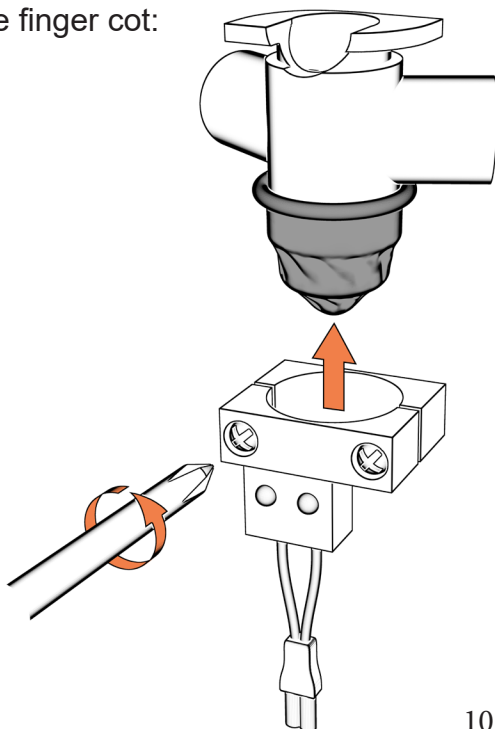
- 5** For daily use, simply rinse with distilled water and scrub out with bristle brush from tracheostomy care kit.



- 6** Once a semester replace finger cot:

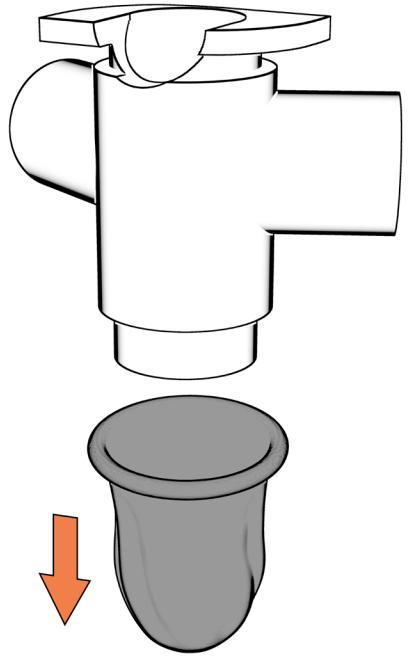
a.

Remove carina sensor clamp from mucus chamber by loosening 2 screws.



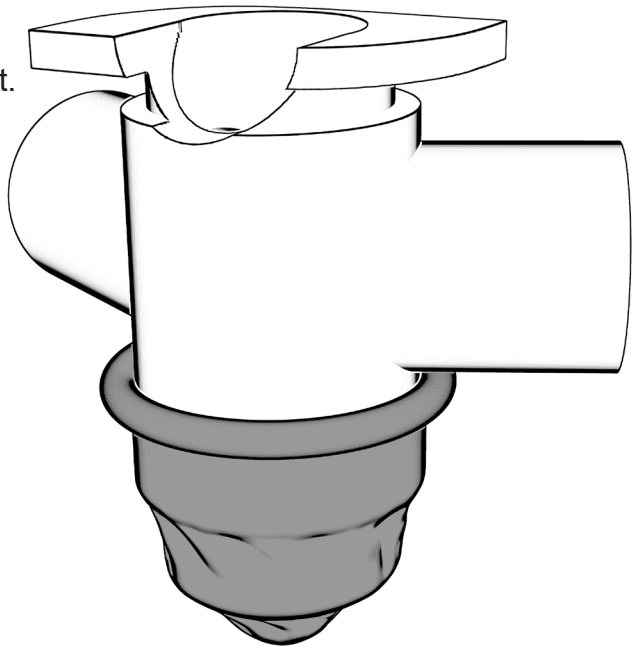
b.

Remove finger cot, use this opportunity to thoroughly rinse the inside of the mucus chamber.



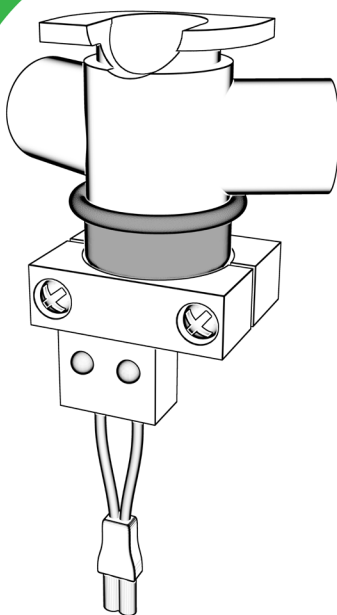
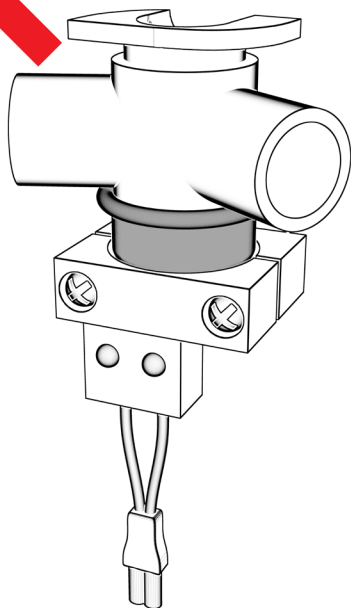
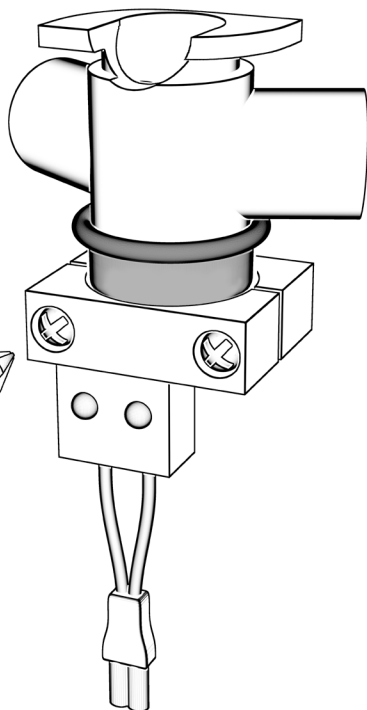
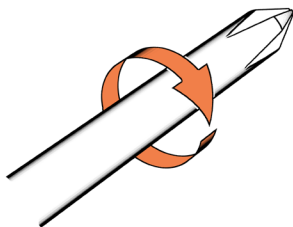
c.

Put on new finger cot.

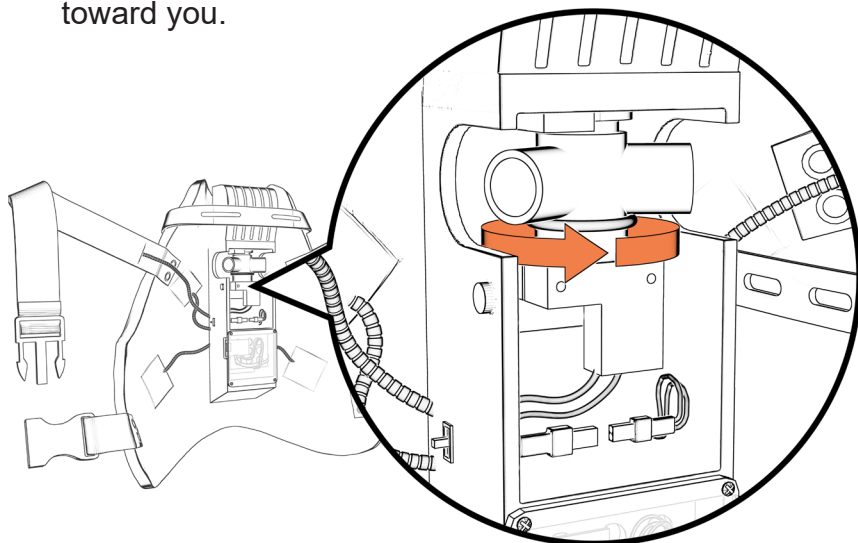


d.

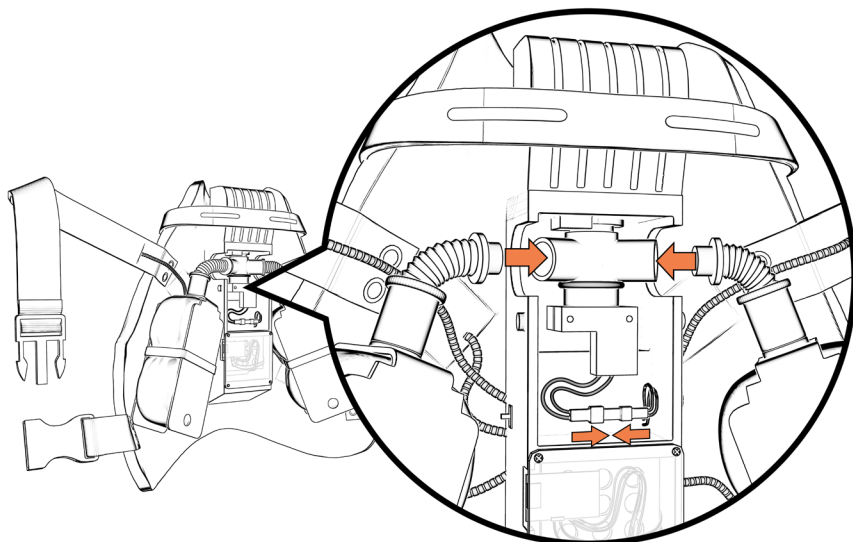
Screw back on carina sensor clamp making sure the sensor component is on the same side of the mucus chamber as the V-shaped extensions.



- 7** Insert mucus chamber back into place on Avtrach. If carina sensor is correctly attached, the v-shaped extensions on the mucus chamber will be pointing down and slightly toward you.



- 8** Connect the lungs back to the mucus chamber and reconnect the electrical connection.

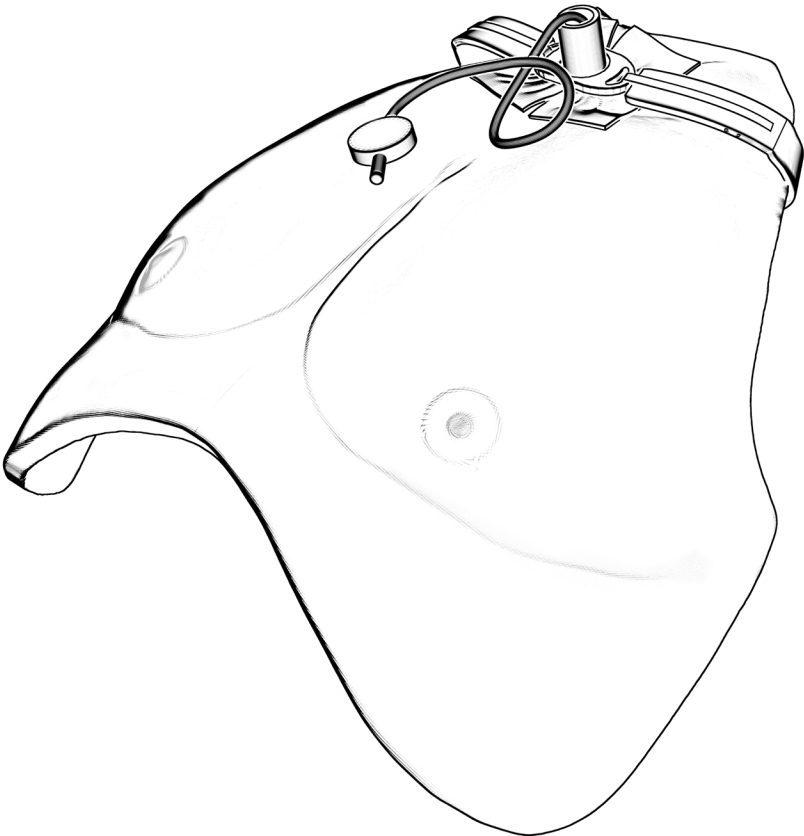


- 9** When putting the tracheostomy back into the Avtrach, insert a suction catheter and make sure you set off the carina sensor to make sure everything is in place correctly.

To Clean Exterior

- 1** Use a damp lint-free cloth to clean off the silicone chest. Once dry, dust with baby powder or corn starch to remove tackiness. Add cocoa powder to the corn starch if you have a dark skin tone Avtrach.
- 2** Wipe down black plastic backing with slightly moist disinfectant wipes

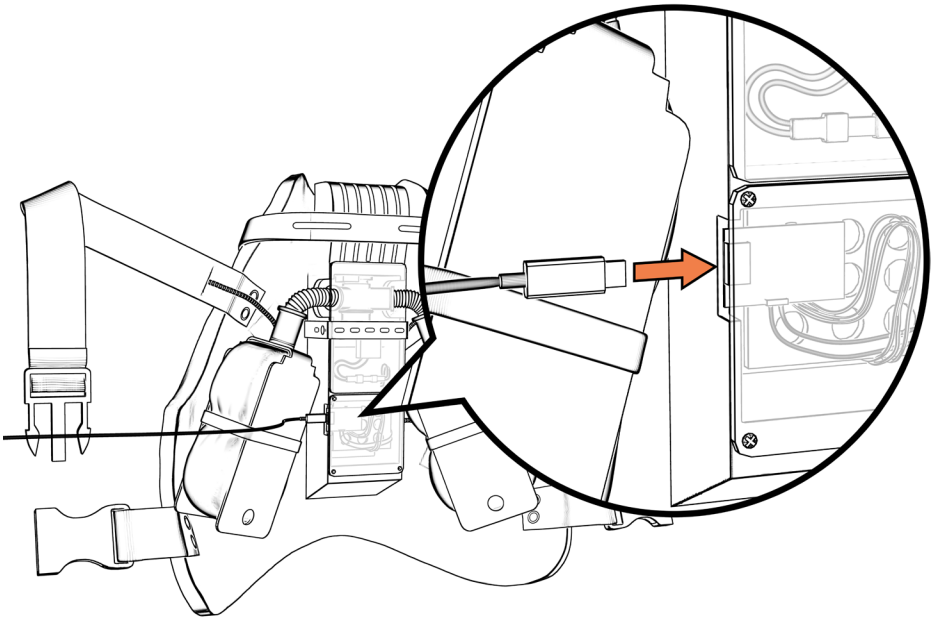
STORE WITH CHEST FACE UP AT ALL TIMES



Charging

When the light on the back of Avtrach turns red, the device needs to be charged. The Avtrach battery lasts up to 2 full simulation days (16 hours total). The battery requires up to 8 hours to fully charge.

Plug the charger provided in the back of the Avtrach (pictured below).



The light will turn yellow when charging and green when charge is complete.

Avtrach™ is provided by:



www.avkin.com

Battery Life

To provide you with the most accurate data on use when charging of your products we have tested the battery life of each product. We recommend charging your products for at least 8 hours before use to ensure you are able to use products full battery life. Products should be charged every 3 months to maintain battery life.

Avtrach - 6 1/2 hours | Avline - 6 1/2 hours | Avstick - 7 1/2 hours
Avtone - 9 hours | Avcath - 9 hours

*the numbers posted are how long the battery will last if the product is in full use

[Need More Assistance?](#)

(302) 562 - 2040

support@avkin.com



Cleaning Your Devices

All Avkin products are designed to be easy to clean and maintain.

How Do I Clean My Devices?

- > 60% or more alcohol based hand sanitizer
- > Silicone can be wiped down with Sanicloth wipes or hand sanitizer

After Cleaning

- > For light and mid skin tone devices
 - > Dust baby powder or corn starch on the silicone
- > For dark skin tone devices
 - > Dust baby powder or corn starch mixed with no sugar coco powder on the silicone

What Not to Use

- > Do NOT get electronic components wet

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