



A~Flexx HVE Manual

Table Of Contents

<i>Unpacking and Installation.....</i>	<i>2</i>
<i>Standard Mounting Options.....</i>	<i>6</i>
<i>How to Use.....</i>	<i>8</i>
<i>Premium Mounting Options</i>	
<i>Clamp Kit.....</i>	<i>10</i>
<i>Pump Kit.....</i>	<i>18</i>
<i>Infinity Hose Installation.....</i>	<i>20</i>
<i>Sterilization & Disinfection.....</i>	<i>21</i>

Unpacking and Installation

- Kit Contents
 - Your kit will arrive preassembled
 - HVE kit
- In an effort to avoid unnecessary waste, our products are shipping with little to no extra packaging. Our products are virtually indestructible, simply uncoil and continue with the installation.



- Straighten the arm with the funnel at one end and the suction cup at the other



- Fully expand the green (or blue) intake nozzle.



- Ensure proper seating of the intake nozzle and the valve on the tube adapter
 - **Please note** only the intake nozzle (funnel) can be autoclaved, **not** the black funnel adapter (the piece between the hose and the funnel).

- Position the valve flush with the clip



- Determine the mounting position of the suction cup on a flat section of the chair back, ensuring that you have positioned the arm with enough length to reach the patient.
- To ensure proper suctioning to the seat back, please thoroughly clean a spot slightly larger than the suction cup with alcohol.
- Rotate the dial on the suction cup clockwise/counterclockwise to ensure it is in the counter-clockwise (open) position.

Sterilization of funnel and hose and Adaptor

The AflexX funnels are silicone, reusable and autoclavable.

The AflexX HVE valve is autoclavable and can be disinfected with the spray wipe spray method.

AflexX recommends specific temperatures to be obtained to ensure microbicidal activity. These temperatures must be maintained for a minimal time to kill microorganisms. For a gravity displacement sterilizer the minimal time is 30 minutes at a temperature of 121°C (250°F) in wrapped sterilization. For a prevacuum sterilizer the minimal time is 4 minutes at a temperature of 132°C (270°F) in wrapped sterilization.

The ARMS, HOSES and ADAPTORS are recommended to be disinfected with the spray wipe spray method they are **NOT TO BE STERILIZED!**

Any CDC recommended disinfectant is acceptable.

Press the suction cup firmly against the chair back, and lock in into place by turning the dial clockwise.



- Grabbing the valve and clip at the same time, move the arm in and out of position a few times to ensure proper adhesion.
- Several factors, such as curvature or texture, may prevent the suction cup from creating proper adhesion. In this case, please use the docking disk to mount the A~flexx Assist Arm. This is common with ADEC chairs.
 - The HVE Kit includes docking disks, see instructions below in the Mounting Options section.
- ****NOTE** - Direct application of the suction cup to the chair back is the preferred method, only use the docking disks if necessary**
- Loss of suction over time is normal, and it is important that you test the A~flexx Assist Arm periodically to ensure it has not come loose

Positioning the arm

- Determine where the suction will be mounted on the back of the chair, paying attention to the position of the arm, which must remain pointing upwards. If you think of the flexible arm as the hand of a clock please ensure the flexible arm is in the positions highlighted. The proper positions are required for optimal performance:



Left Side Operation



Right Side Operation



Standard Mounting Options

- Due to the large variety of chair makes and models, there is no way of knowing ahead of time what mounting option will work best with your chair. Chair back surfaces can be as smooth as glass or textured with a faux grain/orange peel texture.
- Using the suction cup directly on the chair back is always the preferred method; however, this may not work in your application. For this reason we have provided options.
- Depending on when your order was produced, your options may include the following mounting options:
 - For more semi-permanent mounting options
 - The 3M white foam disk



- or chairs that have significant texture (ex: ADEC chairs)
 - Nadco Adhesive
 - the brown paper side is the side the suction cup will mount to

- The white paper side is the adhesive



- **Mounting the 3m Disk (semi-permanent)**

- as with all docking disks, please thoroughly clean the area and do a final wipe with an alcohol swab
- Peel back the protective film and press firmly to the clean area.
- It is very important that you allow the pad to sit overnight before mounting the A~flexX Assist Arm, as the adhesive needs time to cure. Failure to allow this time period to elapse may result in loss of adhesion.

- **Mounting the Permanent Disk**

- If either the 3M or the velcro disk did not work for you, only a more aggressive solution will enable the use of the A~flexX Assist Arm. This is due to the heavily textured surface of some chair backs

- Once again, thoroughly clean the chair back (be sure to remove any residual adhesive if you previously mounted one of the other disks)
- First, peel the brown paper away to reveal the smooth surface for the suction cup to mount to
****NOTE**** it is much easier to do this before you have mounted the disk to the chair.
- Now, peel the white paper off the adhesive side and apply with force to the back of the chair
- It is very important that you allow the pad to sit overnight before mounting the A~flexX Assist Arm, as the adhesive needs time to cure. Failure to allow this time period to elapse may result in loss of adhesion.

How to Use

- Always reposition the arm by grabbing the valve and clip at the same time.



- Place the intake nozzle approximately 3 inches in front of the patient's mouth slightly off center opposite to the side you will be working from. This will allow the intake nozzle to be as close to the patient's mouth as possible while not restricting your access.



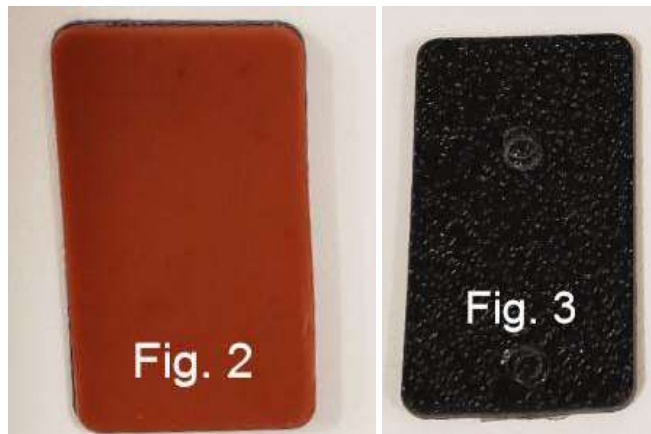
- The funnel's effectiveness is reduced as it is moved further away from the patient's mouth.
- We recommend practicing moving the arm to the working and stowing positions with a coworker prior to using it with a patient to get a feel for the movement and resistance of the arm.

A~flexX Assist Arm Clamp Kit

What's included (Rev 1 Orders through August 2020):



- Clamp (Figure 1)
- 2 set screws (one extra included)



- 1 silicon rubber shim (Figure 2)
- 1 extra plastic shim (Figure 3)
- 1 1/8th Hex Key

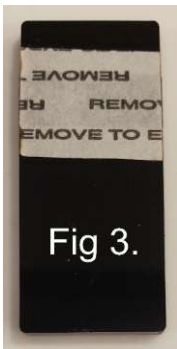
What's included (Rev 1 Orders after September 2020):



- Clamp (Figure 1)
- 2 set screws (one extra included)
 -
- 1 rubber protective strip(Figure 2)



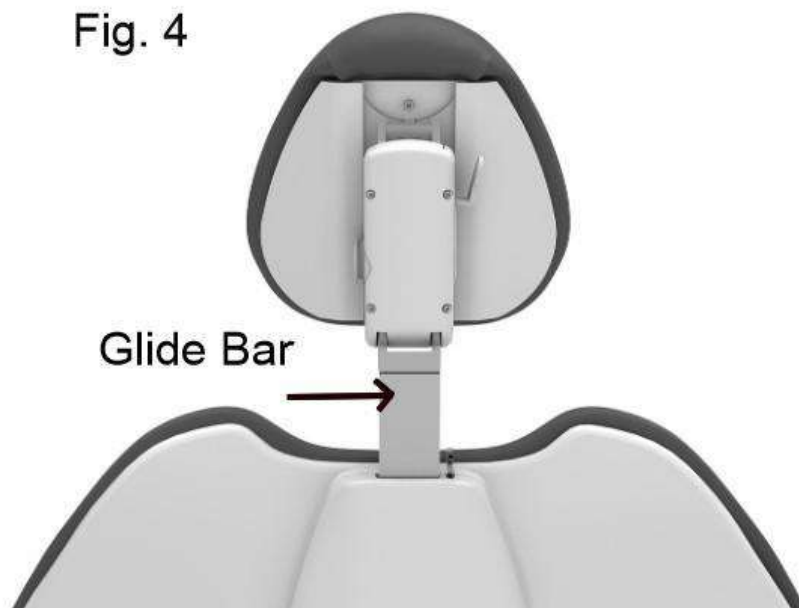
-
- 1 extra plastic shim (Figure 3)



-
- 1 1/8th Hex Key

Directions:

The Clamp is designed to attach to the Glide Bar of your dental chair (see figure 4.)

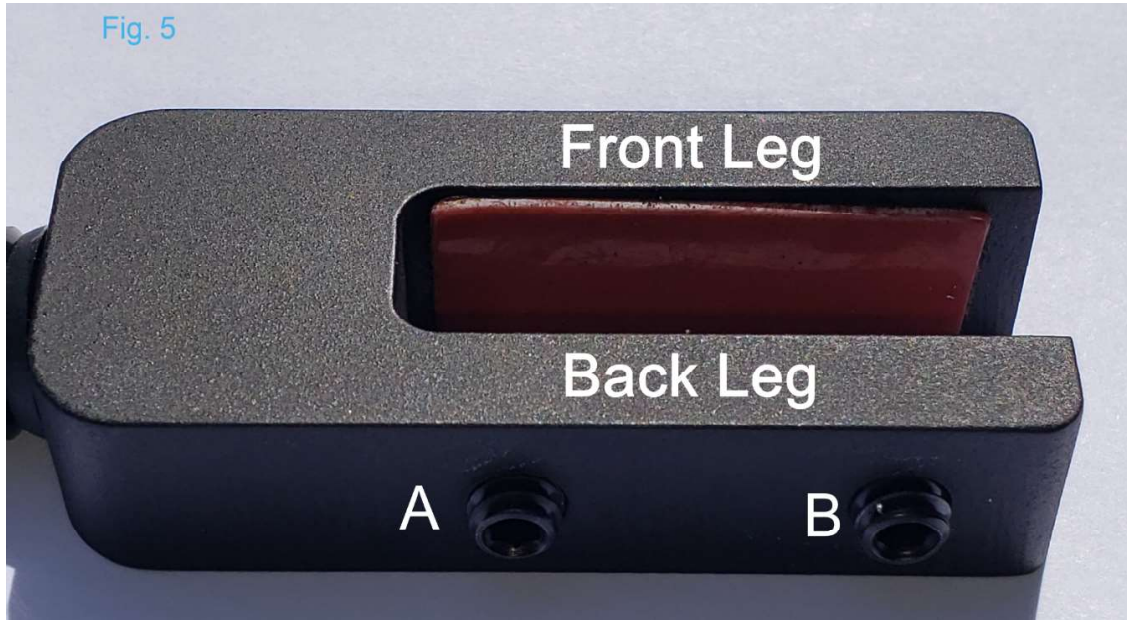


The Clamp system utilizes silicon rubber pads (figure 2) to protect the finish of your chair's Glide Bar. Failure to properly position the rubber shim may result in scratches to your finish.

To minimize any loss of vertical headrest adjustment, please mount the clamp at the highest point possible.

The Additional plastic shim has been provided for Chair Glides that are thinner, helping to take up some of the extra space in order for the screws to apply the proper pressure.

Steps for Installation (Rev. 1)

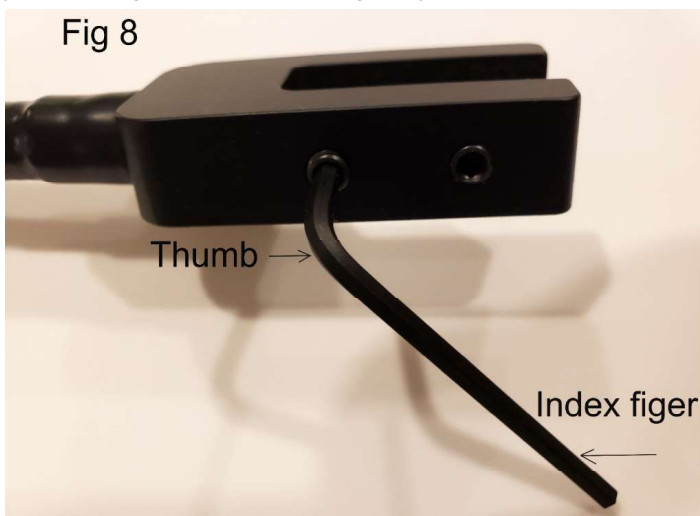


1. Please make sure the Glide Bar is cleaned thoroughly using alcohol. The silicon pads are designed to reduce slippage, and any oils or grease may cause the clamp to slip.
2. Make sure the set screws are flush with the back leg.
3. Taking care, slide the clamp over the Glide Bar.
4. Once in position, insert the red rubber shim (figure 2), with the red side facing the Glide Bar, and the black plastic side facing the back leg (figure 6)





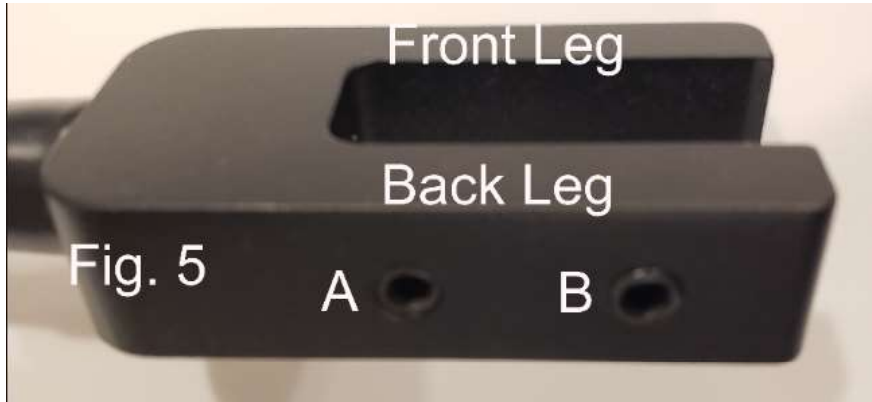
5. Tighten the set screw **A** until it is very tight and then tighten set screw **B**. (Tightening set screw **B** may cause set screw **A** to now need more tightening.) Set Screw **A** is very close to the main body and can withstand a greater degree of tightening.
6. Tighten the screws until the clamp is snug. The aluminum will start to bend with set screw **B** , and if you overtighten the back leg may break.



7. It is difficult to convey how much force you should use to tighten the clamp, but by using just two fingers (thumb and index finger) should allow the clamp to be set very tight without over tightening.
8. Set screw **A** provides most of the clamping force, and set screw **B** keeps the unit from rotating.
9. Once the clamp is firmly attached, further tightening of the screws will not increase the clamping force, and may break the unit.
10. Move the A~flexx arm back and forth a few times to ensure the clamp is secure.
11. NOTE: Always check the to ensure the clamp is secure before using with patients

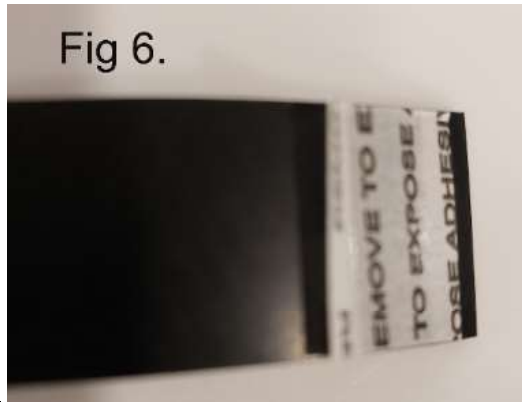
If you have any questions, please feel free to give us a call at 954-306-9603 and press option 1.

Steps for Installation (Rev. 2)



Fig

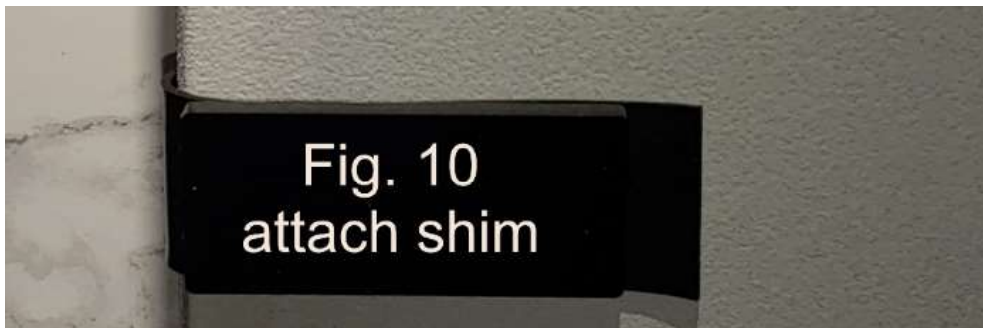
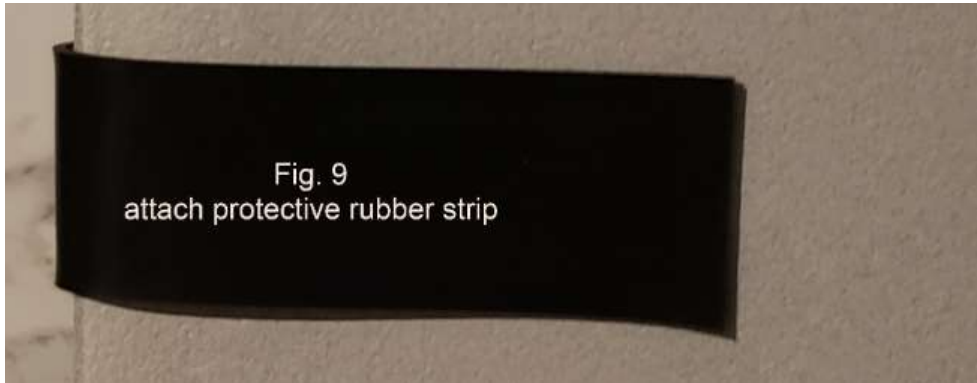
1. Please make sure the Glide Bar is cleaned thoroughly using alcohol. The silicon pads are designed to reduce slippage, and any oils or grease may cause the clamp to slip.
2. Make sure the set screws are flush with the back leg.
3. The double sided sticky tape protective layer is oversized to make removal easy, take care to remove only the protective layer. (shown in figure 6)



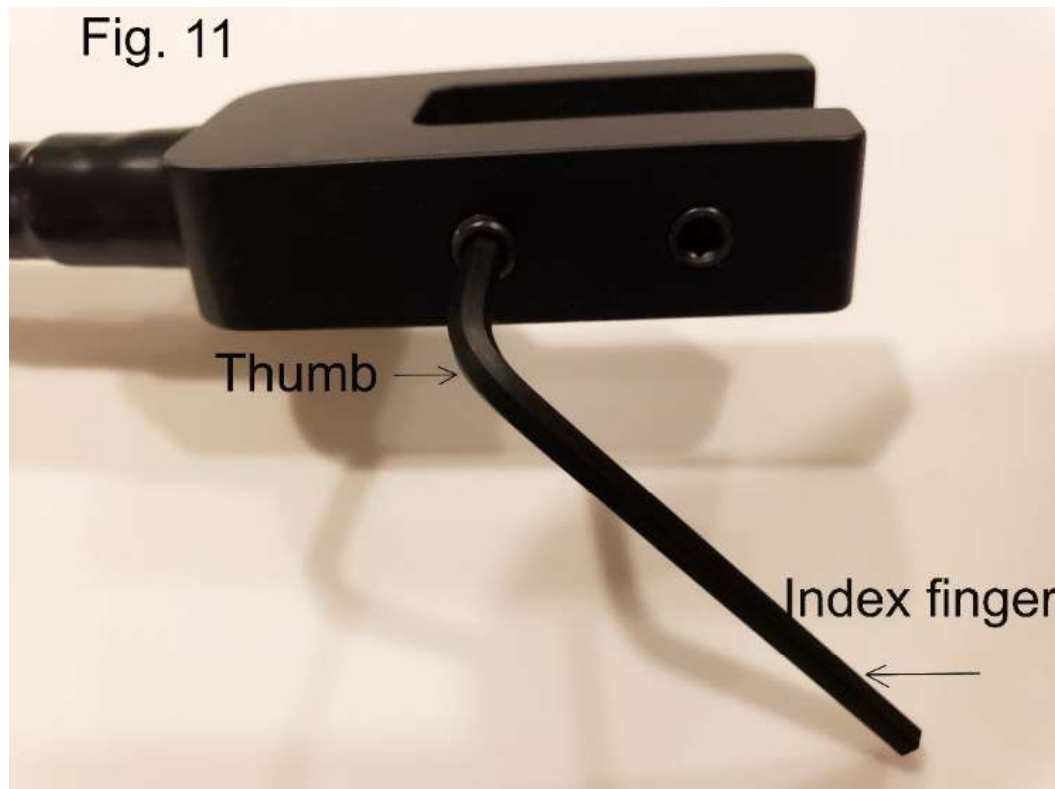
4. The tape on the protective rubber strip and the shim are only there to aid in the installation, eliminating the need to hold the items while trying to tighten the set screws.
5. First expose the tape and attach the protective rubber strip around the glide bar as illustrated in the top down view of Figure 7. (Attempt to have equal lengths and level on each side)



6. In most cases you will need a shim, Fig. 8, which also has a small piece of adhesive to hold it to the protective rubber strip to keep it in place during the rest of the installation.



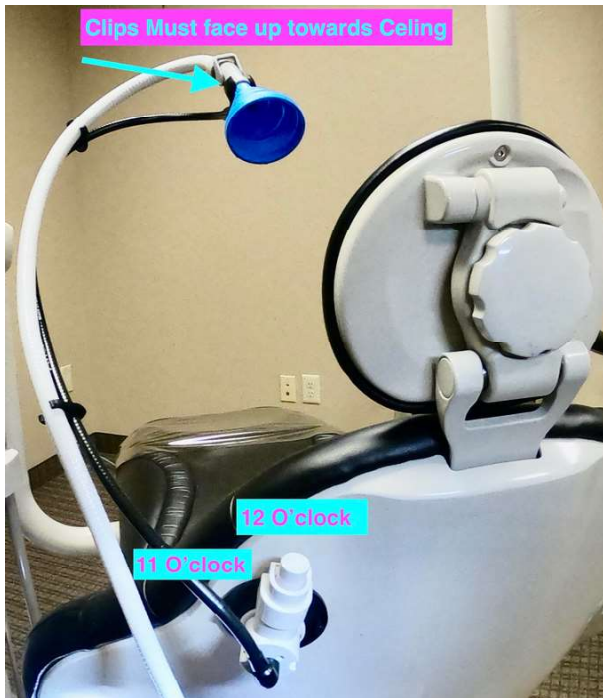
7. Tighten A until it is snug and then do the same to B. Light pressure will keep the shim from rotating as you tighten the set screws.
8. It is difficult to convey in words how much force you should use to tighten the clamp, but by using just two fingers (thumb and index finger) to tighten should allow the clamp to be set very tight without over tightening. (Fig. 11 Below)



9. Set screw **A** provides most of the clamping force, and set screw **B** keeps the unit from rotating.
10. Once the clamp is firmly attached, further tightening of the screws will not increase the clamping force, and may break the unit. Tightening B will bend the aluminum out a bit as the aluminum flexes.
11. Move the A~flexx arm back and forth a few times to ensure the clamp is secure.
12. NOTE: Always check the to ensure the clamp is secure before using with patients

If you have any questions, please feel free to give us a call at 954-306-9603 and press option 1.

A~flexX HVE Assist Arm Pump Kit



NOTE The Pump Kit includes an industrial strength pump activated suction cup. Instructions for this version will only differ from the stock HVE Kit instructions in the installation and operation of the suction cup itself.

- Please thoroughly clean the area the suction cup will be attached to with alcohol. Oils and residues on the chair back surface may cause the pump to lose suction and/or slip its position.
- Determine where the suction will be mounted on the back of the chair, paying attention to the position of the arm, which must remain pointing upwards. If you think of the flexible arm as the hand of a clock please ensure the flexible arm is in the positions highlighted The proper positions are required for optimal performance:



Left Side Operation



Right Side Operation

- The industrial suction cup uses a small pump to maximize the suction power, and includes a red ring to assist in both installation and maintenance.
 - Firmly attach the suction cup to your desired location, making sure the arm is in the proper upright position (~ 12 O'clock).

- Pump the suction cup until you see the red line disappear. Once the red line is completely gone, an additional 3-6 pumps will secure the suction cup for maximum performance.



- *****NOTE***** - The red line is a warning that the pump is beginning to lose suction. Immediately pump the unit 3-6 pumps after the red line is no longer visible.
- *****NOTE***** - Always check the mounting system at the beginning of the day and between patients.

Infinity Hose Installation

- **Removal of existing hose**

- Turn the vacuum system completely off.
- Follow the existing HVE hose to the canister (where the trap resides)
- Remove the old hose with a twisting motion
- If the hose will not twist off, it may be necessary to cut the end of the old hose. Please use caution and always cut away from your body.

- **Installing the new Infinity Hose**

- Place the infinity hose onto the same nozzle from which you remove the old hose
- With a twisting motion, slide the new hose on to the canister
- In some cases, a lubricant (such as soapy water) will be required in order to get the hose fully seated
- Turn The vacuum System back on

- **Please Note** - The length of hose was carefully designed to maximize existing vacuum systems. Using adapters to lengthen the hose may result in reduced vacuum.

Sterilization and Disinfection

The following products may be **autoclaved** or **disinfected**:

- Funnels
- Autoclavable Funnel Adapter

The following products may only be **disinfected**:

- The A~flexX Assist Arm
- Hose Clips
- The Infinity Hose
- Funnel Adapters

Autoclave Instructions:

- No chemical autoclaves
- Steam times and temperatures for wrapped sterilization
 - Gravity Displacement Sterilizer - **121°C/250°F** for a minimum of 30 min
 - Prevacuum Sterilizer - **132°C/270°F** for a minimum 4 min

Disinfection Instructions:

- Use any EPA Regulated high level disinfection solution
- Use the spray-wipe-spray method
- For a list of EPA approved Solutions and Methods: