

4. Place the patient tubing to the appropriate position of patient and start to suck sputum.
5. When the sputum reaches the safe full level of collection bottle (800cc), the suctioning will stop sucking automatically (float shut-off).
6. Switch the power switch to “O” position (off), shut off the suction motor.
7. Remove the sputum from collection bottle after the motor stops turning completely. (Please refer to the section “CLEAN INSTRUCTIONS” on page 9 for the directions of how to clean the collection bottle).
8. Turn on the unit and start to run the suction unit again.

## NOTE

1. If the unit sustains a severe drop, validity of the gauge must be checked. Inspect if the float shut-off is still functioning properly when the liquid in the collection bottle reaches the safe full level.
2. Always transport unit with vacuum adjust knob rotated fully clockwise in case unit is dropped.

## CAUTION

1. When automatic float shut-off is activated, contents of the collection bottles should be emptied. Further suctioning could cause damage to the vacuum pump.
2. Should fluid be aspirated back into the unit, send your suction to an authorized service center for a detailed inspection as the vacuum pump may have been damaged.

# cleaning

## Clean Collection Bottle:

1. Turn off the suction unit and allow vacuum to drop, then disconnect AC power source.
2. With the collection bottle still in the holder, remove the collection bottle lid. The bottle can now be taken out of the holder to be emptied.

## NOTE

Collection bottle should be emptied after each use.

3. Collection bottle should be thoroughly cleaned after each use by one of the following three methods:
  - a. Wash in a hot water/dishwashing detergent solution and rinse with clean, hot tap water. Then wash in one part vinegar to three parts hot water solution. Rinse with hot tap water and air dry.
  - b. Wash with rubbing alcohol and air dry
  - c. Wash with a commercial (bacterial-germicidal) disinfectant, follow disinfectant manufacturer's recommended instructions and dilution rates carefully.

## Clean Suction Unit and Collection Bottle Lid:

1. Disconnect the suction unit from all external power sources.
2. Wipe the suction unit housing and collection bottle lid with a clean cloth and any commercial (bacterial-germicidal) disinfectant.

### CAUTION

Do not submerge in water as this will result in severe damage to the vacuum pump.

## Clean Tubing:

1. Disconnect the tubing from the unit.
2. Tubing should be rinsed thoroughly after every use by running hot tap water through it followed by a solution of one part vinegar to three parts hot water.
3. Rinse with hot tap water and air dry.
4. Keep the outer surface of the tubing clean by wiping with a clean, damp cloth.

### WARNING

The waste in collection bottle may cause respiratory infection which must be handled according to medical waste disposing regulation. Operator must wear gloves and medical class mask before cleaning the collection bottle, tubing and handle the wasting unit and/or accessories.

## MAINTENANCE

Inspect suction tubing and collection bottle for leaks, cracks, etc. before each use.

### DANGER

Electric shock hazard

Do not attempt to open or remove the suction cabinet. If a service is required, return your suction to an authorized service center. Opening or tampering with the unit will void warranty.

## Bacteria Filter Change:

1. Bacteria filter should be replaced as needed. If overflow occurs, change the filter immediately.
2. Remove filter by disconnecting it from tubing connected to pressure adjusting valve and tubing connected to collection bottle lid assembly.
3. Replace with a new Drive bacteria filter and connect to above two tubing. Additional filters can be purchased from an authorized dealer.

## NOTE

Use only Drive filters. Do not substitute any other material for this bacteria filter. Improper substitution may lead to contamination or poor performance;

Fuse Change:

1. Use only the same type of fuse to replace the broken fuse.
2. Fuse specification: Miniature Glass Fuse 5x20mm, Fast Blow (Quick Acting), F2A/250V.

## WARNING

When this unit or accessories reach the end of their useful lives (depends on using conditions), residues in collection bottle, tubing and filter may cause respiratory infection. Dump the wasting collection bottle, tubing and filter into a specific waste bin labeled with medical waste.

# troubleshooting

Your Heavy Duty Suction Pump contains no user-serviceable parts. If you believe your unit is not working properly, **BEFORE YOU RETURN IT TO THE MEDICAL EQUIPMENT PROVIDER WHERE YOU PURCHASED IT**, please take a few moments to check for these possible causes:

## PROBLEM

## ACTION

Unit does not turn on

1. Check power source and connection
2. Ensure that the wall outlet is live
3. Check power cord is not damage

Motor runs, no vacuum

1. Verify tubing connection security
2. Check for leaks or tubing kinks
3. Ensure that float shut-off is not activated
4. Check for bottle leaks and cracks

Low Vacuum

1. Use vacuum adjust knob to increase vacuum level
2. Check system for leaks
3. Rotate vacuum adjust knob counter clockwise and release