

1. PURPOSE

This maintenance guide is for use in ASI Self-Contained delivery systems. Regular maintenance and replacing consumable parts will help keep your system functioning optimally. Refer to ASI’s Parts and Accessories Catalog for Preventative Maintenance Kits and ordering parts.

2. MAINTENANCE PARTS & KITS

The following lists applicable maintenance parts/kits that may be needed; purchase from ASIsupport.com.

- 95-0278 or 95-0278-C4, Keep Clear™ (as needed)
- 95-0320, Replacement Atomizer (as needed)
- 95-0121, Solids Trap Lid and O-Ring (as needed)
- 95-0091L, O-Ring, Solids Trap Lid, Package of 5 (as needed)
- 95-0088, Screen, Solid Trap Large with Lid (as needed)
- 90-2712, Purge Hose Quick Connect Kit (optional)
- 95-0345, Air Regulator with Manual Drain Assembly (optional)
- 95-0400, Replacement Purge Hose Tubing Shurflo Purge Pump (optional)
- 95-0423, Replacement Screen Filter (Qty 4) (Quarterly)

3. GENERAL SAFETY PRECAUTIONS

In addition to observing the normal precautions associated with standard dental practices and procedures, the following additional precautions should be strictly noted and observed during the set-up, operation, and maintenance of this system.



⚠ WARNING

QUALIFIED PERSONNEL ONLY

The product should only be operated by qualified personnel only. The operator bears responsibility for the correct settings and proper use of the system. ASI Dental (ASI) cannot be held liable for any malfunction of this product, or performance failure and/or its designed or desired utility, nor can ASI be held liable for injuries to persons or animals, in any case when the device is misused or not operated, applied or maintained in strict accordance with user/owner instructions set out in the operation manual. In the event of any doubt or question, the user is to contact ASI for clarification or assistance.

Improperly maintained or operated systems or instruments may void the associated warranties.



⚠ WARNING

COMPRESSED AIR

The compressed air system that operates this unit is under pressure. Compressed air can propel dust or loose particles and can cause bodily injury or damage. Always turn the system off and bleed off air pressure before attaching or removing air lines or accessories or servicing this unit. All air lines should be periodically inspected and replaced if worn or damaged.

If an outside compressed air supply is used to power this unit, the air supply must be regulated to 80 psi or below. Excessive air pressure could cause certain components to rupture.



⚠ WARNING

ELECTRICAL VOLTAGE

This system is powered by high voltage electricity. Like any other electrically powered device, if it is not used properly, it can cause electrical shock. Always plug the power cord into an electrical outlet with adequate fuse protection and proper grounding. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. Improper grounding of the unit can result in a risk of electric shock. Always unplug the unit before doing any service or repair to the unit.

**WARNING****PRESENCE OF HEAVY METALS/AMALGAM**

This system may be equipped with optional suction instruments. As part of dental procedures, particles of amalgam may be suctioned into the dental suction handpieces and collected within the system and trap filter.

**WARNING****INFECTIOUS MATERIALS**

Infectious disease workplace safety protocols to safeguard against cross contamination of infectious disease should always be observed. When maintaining the suction system or emptying the contents of the suction waste container, safe precautions and practices including the wearing of face mask, eye protection and gloves are to be followed.

4. END OF DAY MAINTENANCE

4.1. Purging Suction Canister

The solids trap filters debris from the suction system, and remaining liquids are held in the suction canister.

The canister holds up to 2 liters of solution. When the canister is full, an overflow shut-off device will disable the vacuum pump until purged.

i **IMPORTANT: Do not fill the canister to its capacity. The overflow shut-off is meant to prevent overflowing, but is not a fail-safe, and can result in liquid being pulled into the vacuum pump. Be sure to purge the suction canister on a daily basis.**

Step 1 - Turn OFF the vacuum pump.

i **IMPORTANT! Never let the vacuum run while purging.**

Step 2 - Completely unwind the purge hose from the rear of the system; ensure that the hose is not kinked.

Step 3 - Place the hose into a sink or a narrow-mouth receptacle; turn the purge pump ON. Make sure to hold the hose firmly while purging; liquid will be pumped under pulsating pressure.

Step 4 - Continue to pump until liquid stops draining from the hose. Turn OFF the purge pump. For “hands-free” purging, use optional Purge Hose Quick Connect Kit (PN 90-2712, available online at asisupport.com).

Step 5 - Fill a container with a MAXIMUM of 1-liter of water and 2 ounces Keep Clear (cleanser), or use concentrate with an ASI bottle atomizer.

i **IMPORTANT! DO NOT use more than 1 liter; to prevent overflowing canister.**

Step 6 - Verify that the purge pump is OFF; turn the vacuum switch to ON and suction cleanser through the high-volume, micro suction, and saliva ejector handpieces.

Step 7 - Purge evacuation cleanser from canister.

Step 8 - Suction 1 ounce of concentrated ASI's Keep Clear™ into suction system. This will allow the cleanser to begin breaking down biomaterial overnight and during procedures the next day.

i **IMPORTANT! DO NOT USE bleach, mouthwash, or non-approved cleaners.**

4.2. Solids Trap Filter

Check the solids trap filter daily, and replace it if the filter has become clogged. ASI recommends replacing the filter at least once per week to prevent loss of suction strength.

Step 1 - Turn Off the vacuum pump.

Step 2 - Remove the lid. (Replace with PN 95-0121, if needed)

Step 3 - Lift out the filter. Dispose of the solids trap filter according to your hazardous waste protocol.

Step 4 - Check the O-ring on the lid of the solids trap for cracks or stretching, resulting in loss of suction strength. *(Replace with PN 95-0091L, if necessary)*

Step 5 - Replace the filter *(PN 95-0088)*.

Step 6 - Close the lid.

4.3. Depressurizing and Removing Condensation from Air Tanks

Compressing air creates moisture condensation which will store in the air tanks and will build up unless purged.

4.3.1. Systems Manufactured after August 2016

To purge the air and moisture condensation from the system, locate the toggle switch on the right side of the back door. Open the valve to allow air and moisture to escape. Use a small cup under the port to capture any moisture. Keep the valve open until there is no longer any moisture coming out of the port.

4.3.2. Systems Manufactured July 2016 and earlier

An auto drain is provided in the regulator bowl to drain off small amounts of moisture but it requires the air pressure to be relieved at the end of each operating day in order to allow it to operate.

Step 1 - To allow the auto drain to purge, turn off the main power to the cart and then remove the handpiece tubings without handpieces attached and run. This will quickly exhaust the stored air pressure inside the system.

Step 2 - Run the handpiece connections until all air is depleted and allow the system to remain off for at least 15 minutes for the drain to work.

i ***A small amount of water may appear under the cart which is normal and just the condensation from the drain.***

i ***To upgrade the regulator to a manual purge drain, please refer to PN95-0345 on ASIsupport.com***

5. QUARTERLY MAINTENANCE

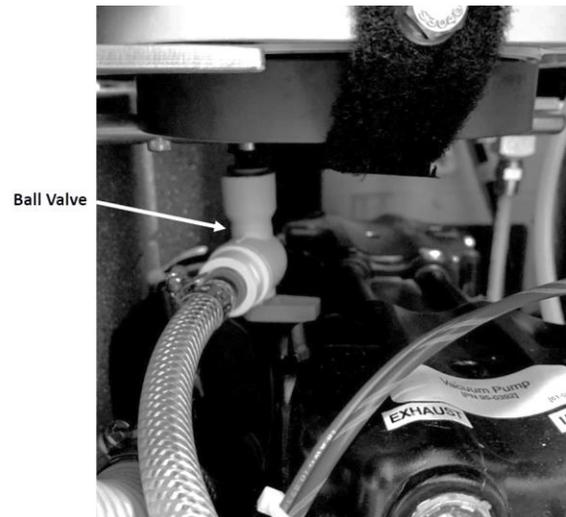
Cleaning or replacing in-line purge filter screen (quarterly)

The internal purge pump system includes an in-line filter that prevents debris from potentially entering the purge pump. This filter should be cleaned or replaced quarterly to avoid clogging.

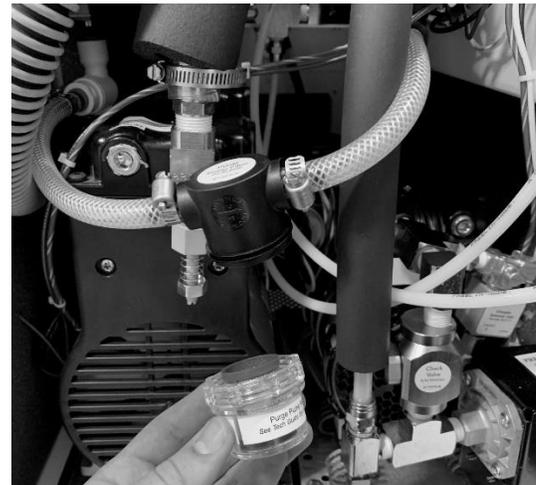
Step 1 - Turn off power and unplug the unit.

Step 2 - Open the back panel of the unit using a flat head screwdriver. There are two quick-turn screws on the back of the unit. Move the suction tube and the electrical cord out of the way of the back door.

Step 3 - Before removing the filter from the housing, locate the ball valve under the sediment bowl and turn it to the off position.



Step 4 - With a basin located below the filter assembly, unscrew the bowl that houses the filter. Let the remaining waste drain from the tubing and housing completely.



Step 5 - If replacing the filter screen, unscrew the bowl that houses the filter screen. Remove the old filter and discard. Replace the filter screen by placing in the bowl assembly, then re-tighten the bowl assembly to the in-line filter.

Step 6 - After the filter has been replaced and the filter bowl has been reinstalled, reopen the ball valve under the sediment bowl to allow for purging.