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 Advanced Dental Systems® & Advanced Endodontic Systems®
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Preventive Maintenance Guideline

Self-Contained Systems

TG-PM-0001

Rev C | 05/23/17 | Page 1 of 3

PURPOSE

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.

CONTENTS

| | |
|---|----------|
| END OF THE DAY MAINTENANCE | 2 |
| Purging Suction Canister | 2 |
| Solids Trap Filter..... | 3 |
| Depressurizing and Removing Condensation from Air Tanks | 3 |
| <i>Systems Manufactured after August 2016:</i> | 3 |
| <i>Systems Manufactured July 2016 and earlier:</i> | 3 |

WARNINGS



WARNING! Only qualified personnel should service or repair this device. This device should only be serviced/repaired by a qualified service technician who is proficient in the repair of electro-mechanical dental equipment and who understands the complexities and risks of working within the device and observes proper safety precautions.



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 cart 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.



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Rev C | 05/23/17 | Page 2 of 3



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.

END OF THE DAY MAINTENANCE

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 two (2) liters of solution. When the canister is full, an overflow shut-off device will disable the vacuum pump until purged.

IMPORTANT: Do not fill the canister to its capacity. The overflow shut-off is meant to prevent overfilling, 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.

1. Turn off the vacuum pump.
2. Completely unwind the purge hose from the rear of the system and ensure that the hose is not kinked. Place the hose end into a sink or a narrow mouth receptacle. For “hands-free” purging, purchase the optional Purge Hose Quick Connect Kit (PN 90-2712) and connect the hose to the quick connect.
3. Turn on the purge pump switch. If not using a quick connect, hold the hose firmly while purging; liquid will be pumped under pulsating pressure.
4. Continue to pump until liquid stops draining from the hose.
5. Suction up 2 liters of water mixed with 2 ounces of the KeepClear™ solution (PN 95-0320). More concentrated solution may be used if desired for more effective cleaning. Use warm water to improve cleansing. Suction it up by alternating between the saliva ejector and the high-volume evacuator to clean the insides of both of those tubings. Do not use more than 2 liters to prevent overfilling of the canister.
6. Purge this solution out until empty.
7. Turn off the purge pump switch and rewind the purge hose.
8. After the diluted solution is purged out from Step 2 above, suction up 2 ounces of pure concentrated KeepClear™ solution or place an atomizer cap onto bottle of KeepClear™. Place each suction handpiece over the atomizer port and suction concentrate for a minimum of 30 seconds. This will provide a mixture of air to swirl and coat the inside of the handpiece tubing. Repeat for each suction handpiece.

Leave the concentrate in overnight and during the next day's procedures. During the next day, as patients are seen, the concentrate already in the canister will begin to break down the proteins.



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Rev C | 05/23/17 | Page 3 of 3

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.

1. Turn off the vacuum pump.
2. Remove the lid. (PN 95-0121)
3. Lift out the filter. Dispose of the solids trap filter according to your hazardous waste protocol.
4. Check the O-ring on the lid of the solids trap for cracks or stretching, resulting in loss of suction strength. Replace if necessary. (PN 95-0091L)
5. Replace the filter. (PN 95-0088)
6. Close the lid.

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.

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. Lift the toggle to allow air and moisture to escape. Use a small cup under the port to capture any moisture. Hold the toggle up until there is no longer any moisture coming out of the port.

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.

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.
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.

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