

# INSTALLATION & MAINTENANCE OF THE ASDEX™ AS-9 "11 (#AL-10)

## General Information

The amalgam separation system consists of a collection separation filter, manifold assembly, mounting bracket and hardware. One ASDEX™ collection separation filter per chair must be installed. Installation of this system may vary according to the dental operatory configuration and function. The separator operates under vacuum and is to be installed in-line on the central vacuum line. The manifold has pipe-thread fittings, but may be connected via flexible vacuum line if fitted with barb connectors.

## **Typical Chairside Installation:**

### **Step 1**

Select the best location for mounting the manifold/filter assembly. The separator can be mounted anywhere provided it is mounted vertically and with sufficient clearance beneath to facilitate removal and replacement of the spent separator filter. To maintain good vacuum levels, installations should be as simple as possible, avoiding 90° turns and excess adapter hose lengths. Lastly, the installation location should be somewhere easily accessed for maintenance.

### **Step 2**

Locate the vacuum line as it exits the junction box of the dental chair. This line generally leads into the floor or wall where it connects to the central vacuum line.

Separate the vacuum hose before it enters the wall or floors, keeping in mind the best location for final installation. Observing the flow direction arrow on the manifold, connect the outlet side of the manifold to the line leading into the floor or wall and to the main vacuum line/central vacuum system.

### **Step 3**

Observing the flow direction arrow on the manifold, connect the other side of the hose, leading ultimately to the dental suction mouthpiece, to the inlet side of the manifold.

Note: Some installations may require short lengths of flexible vacuum hose and/or a hose coupler to adapt the dental vacuum line to the barbed hose fitting on the manifold assembly.

### **Step 4**

The manifold assembly is shipped with a tie-wrap in place around its body to keep the stainless steel filter-retaining bracket in place. Cut the tie wrap & discard. Take the ASDEX™ collection separation filter and remove the polypropylene inlet and outlet screw-on closure caps. Retain caps in a safe and accessible place- they are essential to the proper disposal of the filled separation filter.

Loosen the retaining knob on the top of the manifold by turning counter-clockwise. Align the inlet and outlet ports on the ASDEX™ collection separation filter on the manifold. Swing the filter-retaining bracket out of the way and insert the ASDEX™ collection separation filter into the manifold.

Next, swing the filter-retaining bracket into place under the lip on the end of the end cap of the ASDEX™ collection separation filter, and tighten the retaining knob down snugly.

## **Typical Chairside Maintenance: Amalgam Separation System**

### General

Maintenance of the ASDEX™ collection separation filter is limited to disinfection, replacement and disposal as follows:

### Sterilization

Before disposing of an ASDEX™ collection separation filter, it must be properly disinfected as follows:

Prepare 750 ml solution of liquid disinfectant, and place into a suitable wide-mouthed container. Close the dental flow control valve on the vacuum valve (HVE). Insert the tip of the valve into the solution. Slowly open the flow control valve on the mouthpiece sufficiently such as to drain the container over approximately 60 seconds. Close the mouthpiece and allow the system to stand for the required time to accomplish disinfection.

## **Replacement**

The design of the filter will cause the vacuum flow to deplete as the separator filling proceeds. When the flow depletes to an ineffective level, this indicates it is time to replace the ASDEX™ separator element. This is self-limiting fail-safe technology, so no amalgam can be passed to the drain. This also safeguards the central vacuum from exposure and damage caused by the amalgam fragments and debris.

To replace the ASDEX™ filter, simply loosen the knob on the retaining bracket and pull the filter assembly down away from the bracket. Screw the caps saved from installation onto the inlet and outlet ports of the filter assembly. The filter is now ready for disposal according to your local regulations.

To install the new filter element, see installation above.

## **Disposal**

American Dental Accessories, Inc. makes no accommodation for disposal of full Asdex™ filters. We recommend you contact your normal hazardous-waste hauler to see if they can properly recycle spent cartridges. Additionally, we do offer a mail-away product for disposal: <http://www.amerdental.com/catalogsearch/result/?q=al-04>