

INSTRUCTIONS  
FOR USE

# A-dec 551

## ASSISTANT'S INSTRUMENTATION



The A-dec logo, featuring a stylized caduceus symbol above the text "a dec".

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## Regulatory Information and Warranty

For required regulatory information and the A-dec warranty, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) available in the Resource Center at [www.a-dec.com](http://www.a-dec.com).

## Product Service

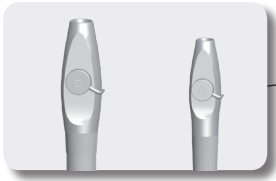
Product service is available through your local authorized A-dec dealer. To locate an authorized dealer, or for additional service information, visit [www.a-dec.com](http://www.a-dec.com) or contact A-dec at 1.800.547.1883 in the USA and Canada or 1.503.538.7478 worldwide.

## Product Models and Versions Covered in This Document

Model	Version	Description
551	A	Assistant's Instrumentation

# Content Map

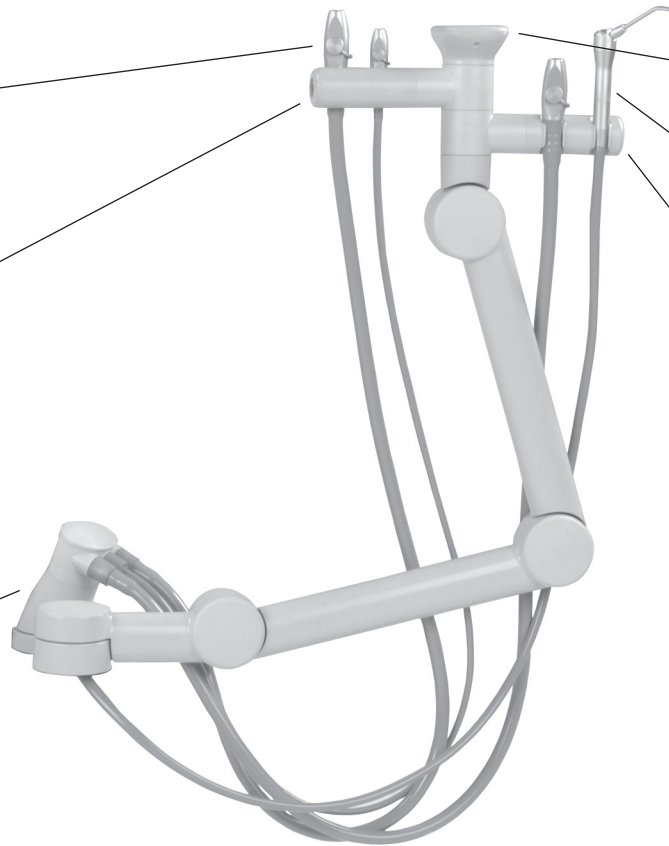
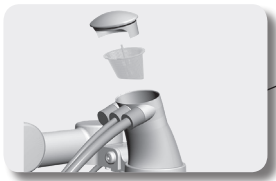
HVE/Saliva Ejector ..3, 7



Holder Adjustment .....4



Solids Collector.....6



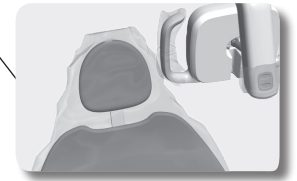
Touchpad .....2



Syringe .....3



Barriers .....5



Operate / Adjust .....	2
Clean / Maintain.....	5
Specifications .....	12

# Operate / Adjust

## Turn On/Turn Off the Air, Water, and Power



### Chairs with Delivery and Support Systems

If you have a chair with an attached system, use the master toggle to turn on the power, water, and air. The master toggle is normally located on the delivery system, but may instead be located on the support center or floor box on chairs without a delivery system.

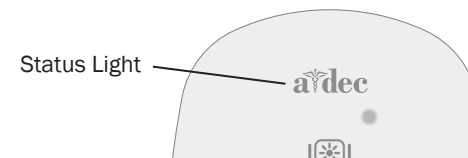
If there is no power to the system, verify that the power button on the chair is pressed in. This button must be on in order for the master toggle to control system power.

### When to Turn Off the Power

To save energy and reduce the chance of air leaks, press the power button to turn off power at the end of the day and before longer periods of non-use.

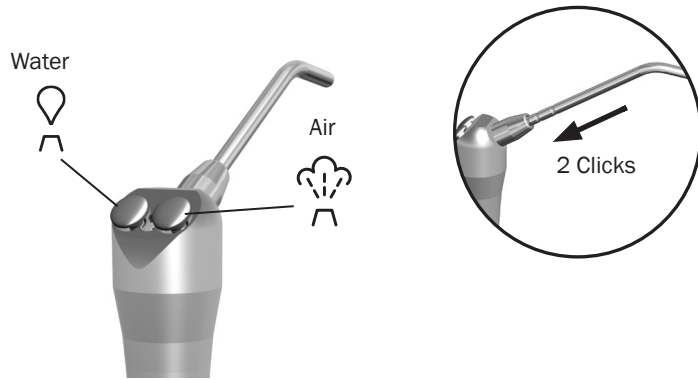
### Touchpads and the Status Light

The A-dec logo on the assistant's touchpad illuminates when the system is on and ready for use. If the status light blinks, it may indicate that something is lodged under the chair. Remove the object to continue chair operation.



**IMPORTANT** Standard touchpad shown. For other touchpads, see your delivery system Instructions for Use.

## Operate the Autoclavable Syringe

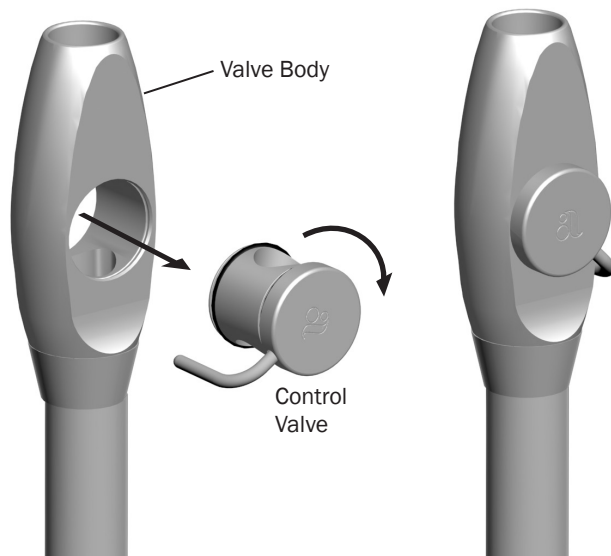


To install the A-dec syringe tip, push the tip in until you feel two clicks. Press both buttons simultaneously for the air/water spray.



**IMPORTANT** For more details on syringe usage and maintenance, see your A-dec syringe Instructions for Use.

## A-dec HVE/Saliva Ejector Left/Right Conversion

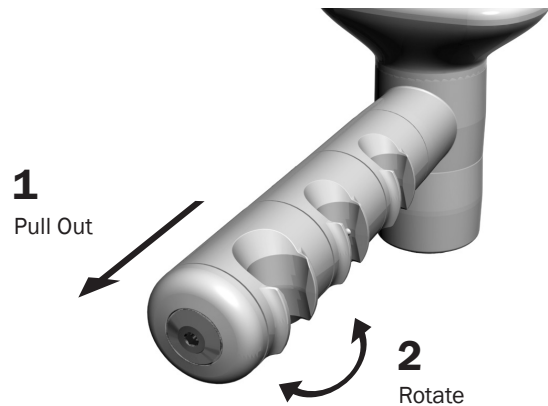


To convert the standard high-volume evacuator (HVE) and saliva ejector for left-handed operation, push the control valve out of the valve body, rotate the control valve 180°, and push it back into place.



**NOTE** Be sure to reinstall the valve on the same side of the valve body. Otherwise, the HVE or saliva ejector will not operate properly.

## Position the Handpiece Holders

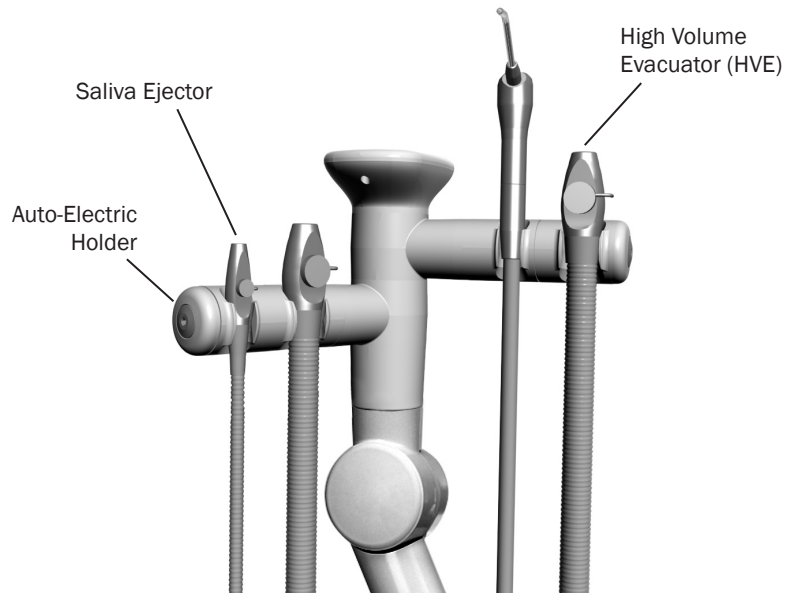


**CAUTION** Twisting the holder without pulling it away from the adjacent one will damage the mechanism.

You can adjust the instrument holders independently or as a set (on the doctor's side and the assistant's side).

1. Pull the holder, or holders, away from the touchpad/handle.
2. Rotate to the desired position and release.

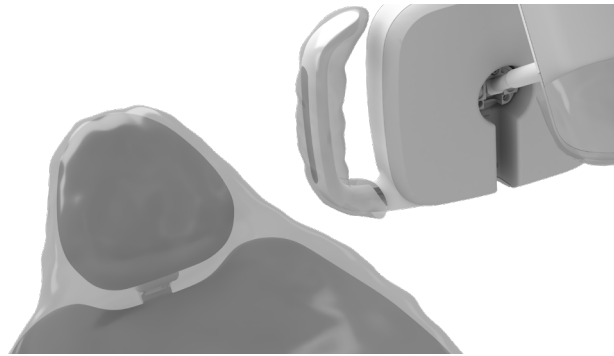
## Auto-Electric Holders



If you have a chair-side vacuum system and auto-electric holders, lift the HVE or saliva ejector from its holder and open the valve to turn on the vacuum. Return the instrument to its holder to turn off the vacuum.

# Clean / Maintain

## Protect with Barriers



**NOTE** For proper use and disposal of barriers, see the barrier manufacturer's Instructions for Use.

A-dec recommends barrier protection for all applicable touch and transfer surfaces. Touch surfaces are areas that come into contact with hands and become potential cross-contamination points during dental procedures. Transfer surfaces are areas that come into contact with instruments and other inanimate objects.

In the USA, barriers must be produced under the Current Good Manufacturing Practice (CGMP) as specified by the U.S. Food and Drug Administration (USFDA). For regions outside the USA, refer to the medical device regulations specific to your location.



**IMPORTANT** For recommendations on cleaning and chemical disinfection of touch and transfer surfaces (where barrier protection is not applicable or when barriers are compromised), please see the *A-dec Equipment Asepsis Guide* (p/n 85.0696.00).

## Waterline Maintenance



A-dec recommends that you perform a shock treatment on the dental unit waterlines before you use the system for the first time.

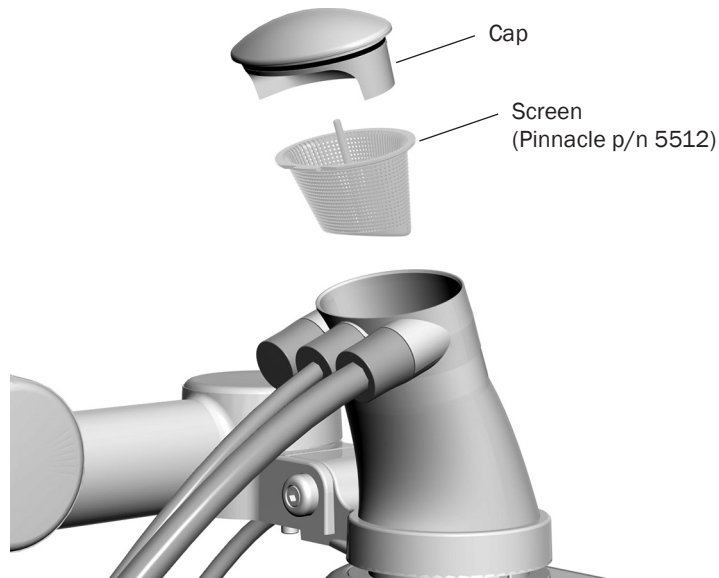
For on-going waterline maintenance, A-dec recommends a three-part protocol: continuous use of A-dec ICX® waterline treatment tablets, regular dental unit water quality monitoring, and shock treatment.



**IMPORTANT** For complete details on how to maintain good water quality in your system, see the Instructions for Use for ICX and your self-contained water bottle:

- A-dec ICX* ..... p/n 86.0613.00
- A-dec Self-Contained Water System* ..... p/n 86.0609.00
- Waterline Maintenance Guide* ..... p/n 85.0983.00

## Maintain Solids Collector



The solids collector helps prevent solids from entering the central vacuum system. To ensure proper suction from the central vacuum and maintain proper treatment room asepsis, discard and replace the solids collector screen at least twice a week.



**TIP** To obtain replacement solids collector screens, contact your authorized A-dec dealer and reference Pinnacle p/n 5512.



**DANGER** Infectious waste may be present. Follow asepsis protocol to prevent cross contamination.

To replace the solids collector screen:

1. Turn off the vacuum or open the HVE control valve.
2. Remove the solids collector cap.



**CAUTION** Do not empty the screen into your cuspidor. Doing so could plug the drain.

3. Remove the solids collector screen and discard according to your local regulations.

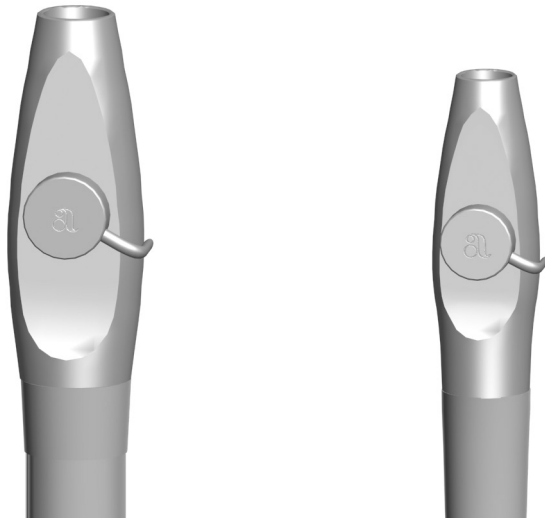


**NOTE** When you replace the solids collector cap, ensure that the keyed cutout faces the tubing (as shown above), or it will cut off the vacuum flow.

4. Insert a new screen in the solids collector and replace the cap.



## A-dec HVE/Saliva Ejector Valve Body Assembly Asepsis



**NOTE** Vacuum lines should be flushed at the end of each day or more frequently according to your clinic's protocols.

If you use barriers to protect the main body of the HVE and saliva ejector, replace the barriers after each patient. Clean and disinfect these instruments at the end of each day or after each patient if the barriers have been compromised. If you do not use barriers, or if you perform oral surgery, always clean and disinfect these instruments after each patient.

### Cleaning and Disinfection

To clean and disinfect the HVE and saliva ejector valve body assembly without disconnecting from the vacuum system:



**CAUTION** Clean the valve body assembly as soon as possible after treating each patient. Do not allow blood and debris to dry on instruments. If you cannot clean it immediately, keep the valve body assembly moist.



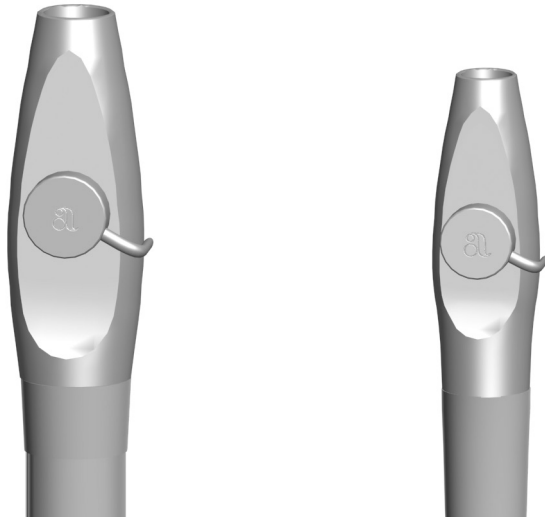
**NOTE** Use an intermediate-level EPA-registered hospital-grade disinfectant containing a tuberculocidal claim with one of the following compositions: high-dilution water-based phenolic formulation or quaternary ammonium compound with less than 25% isopropanol.



**NOTE** If using a spray solution, spray on a soft, low-lint wipe to apply solution to the valve body assembly.

1. Remove the vacuum tip from the HVE or saliva ejector valve body assembly. Discard disposable vacuum tips.

## HVE/Saliva Ejector Valve Body Assembly Asepsis *(continued)*



2. Clean the valve body assembly to remove visible soil using a disinfectant wipe or spray solution. Keep the valve body assembly wet according to the manufacturer's recommended contact time. Repeat, if necessary, until the valve body assembly is visibly clean.
3. Disinfect the valve body assembly using a new disinfectant wipe or spray solution. Keep the valve body assembly wet according to the manufacturer's recommended contact time.
4. Allow the valve body assembly to air dry.
5. Operate the HVE and the saliva ejector valves several times to verify that they rotate smoothly.



**NOTE** A-dec valve body assemblies are heat tolerant for sterilization. Users may sterilize at their discretion.

### Routine Maintenance and Sterilization

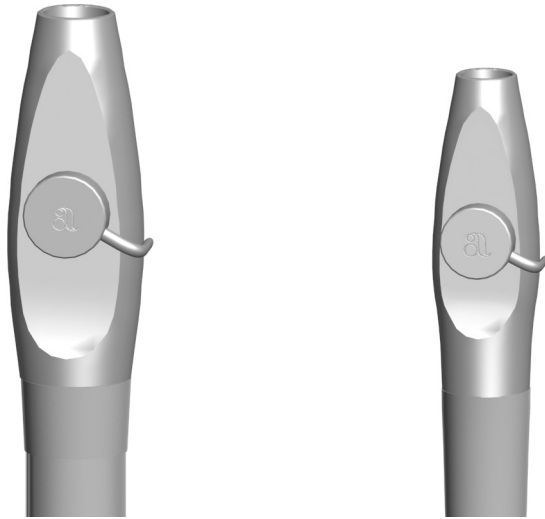
To routinely maintain and sterilize the HVE and saliva ejector when disconnected from the vacuum system (frequency determined by the user):



**CAUTION** Clean the valve body assembly as soon as possible after treating each patient. Do not allow blood and debris to dry on instruments. If you cannot clean it immediately, keep the valve body assembly moist.

1. Remove the valve body assembly from the vacuum line by pulling it away from the tubing at the tailpiece.
2. Disassemble the valve body by pushing the control valve out of the valve body.
3. Clean soiled valve body components using a soft, low-lint wipe.

## HVE/Saliva Ejector Valve Body Assembly Asepsis *(continued)*



4. Prepare a warm (32-43°C [90-110°F]) detergent solution (neutral pH enzymatic detergent or alkaline non-enzymatic detergent), according to the manufacturer's recommended instructions.
5. Soak soiled valve body components in the prepared detergent solution for at least one minute.
6. Remove and inspect O-rings. Discard and replace, if damaged.
7. Use a soft, nylon-bristle brush, or equivalent, to scrub the:
  - Exposed surfaces of the valve body components and O-rings, while submerged, for a minimum of 30 seconds or until all visible soil has been removed.
  - Interior lumen of the valve body at least three times (in and out), clearing any visible soil from brush bristles.
8. Rinse the cleaned valve body components under flowing, warm (32-43°C [90-110°F]) potable water for a minimum of 30 seconds.
9. Allow valve body components to air dry.
10. Sterilize the valve body components according to the following:
  - Dynamic air-removal sterilizers: 4 minutes at 132-135°C (270-275°F)
  - Gravity-displacement sterilizers: 30 minutes at 121-123°C (250-254°F)
11. Allow the load to dry for 30 minutes before removing it from the sterilizer. Ensure the valve body components are completely dry before proceeding.



**CAUTION** Use only silicone lubricant when lubricating the black O-rings in A-dec instruments. Petroleum-based products will cause permanent damage to the O-rings.

12. Prior to use, lubricate O-rings with A-dec silicone lubricant, and reassemble the valve body assembly.

## HVE/Saliva Ejector Valve Body Assembly Asepsis *(continued)*

13. Reinstall the valve body assembly on the tubing tailpiece.
14. Operate the HVE and the saliva ejector control valves several times to verify that they rotate smoothly.

## HVE/Saliva Ejector Tips



**NOTE** Select tips that are compatible with your HVE and saliva ejector openings. See “A-dec HVE/Saliva Ejector Tip Connections” on page 12 for specifications.

### Disposable Tips

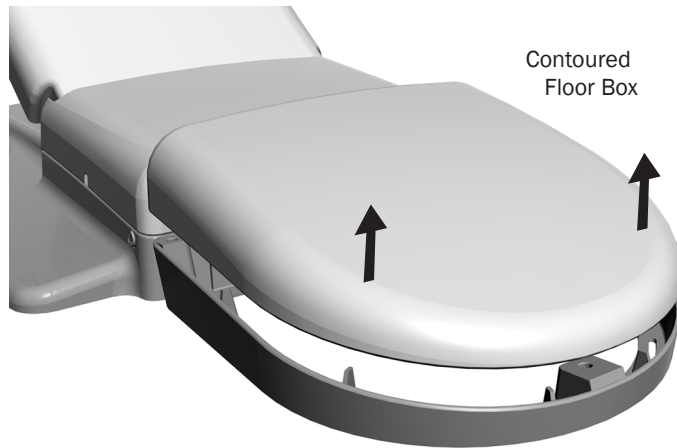


**CAUTION** Disposable HVE and saliva ejector tips are not sterilizable and should not be reused.



Replace disposable HVE and saliva ejector tips after each use.

## Access the Utilities



**CAUTION** When you remove or replace the cover, take care not to damage any wiring or tubing. Verify that the cover is secure after you replace it.

The system utilities are located in the contoured floor box under your chair and typically include the electrical outlet, as well as the system hookups for air, water, and vacuum. To access, lift the cover up and off the floor box frame. For maintenance, contact your local authorized A-dec dealer.

# Specifications

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## A-dec HVE/Saliva Ejector Tip Connections

Standard 11 mm HVE:	0.438" (11.1 mm) diameter opening <i>(for standard HVE tips)</i>
Large bore 15 mm HVE:	0.594" (15.1 mm) diameter opening <i>(for large bore HVE tips)</i>
Standard 6 mm SE:	0.257" (6.5 mm) diameter opening <i>(for standard SE tips)</i>

## Solids Collector Screen/Filter

Maximum mesh opening size: 0.047" (1.194 mm)  $\cong$  1200  $\mu$ m



**IMPORTANT** For electrical specifications, identification of symbols, and other regulatory requirements, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) available in the Resource Center at [www.a-dec.com](http://www.a-dec.com).

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**NOTE** Specifications are subject to change without notice. Requirements may vary depending on your location. For more information, contact your authorized A-dec dealer.

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