

OPERATION and MAINTENANCE INSTRUCTION MANUAL

ADU-22 DENTAL CART SYSTEM



 **Aseptic**[®]

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SPECIFICATIONS:

Dimensions:

Tray: 9.8" W x 13" L
(25 cm W x 34 cm L)

Chassis Height: 23.0" min., adjustable to
38.0" max.
(60 cm min., adjustable to
97 cm max.)

Weight: 15 lbs (7 kg)

Air Supply: 60 - 90 PSI, filtered



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To prevent injury to people and damage to property, please heed relevant warnings and remarks. They are marked as follows:

WARNING: Serious injury or death may result if ignored.

CAUTION: Damage to property or the environment may result if ignored.

NOTE: Important additional information and hints.



The compact and economical ADU-22 cart system is an ideal solution as an extra delivery cart or as a backup system. High and low-speed connections accept existing, air-driven handpieces. Casters allow smooth mobility between operatories. An air source is required for operation. Should a compressor be unavailable due to a lack of power, nitrogen tanks may be used to drive the system. Powerful venturi suction effectively removes waste without the need for a central vacuum pump.

Congratulations!

This Aseptico ADU-22 system is engineered to provide many years of reliable service. Please read the instructions provided in this manual to receive the best and longest service from your Aseptico equipment.

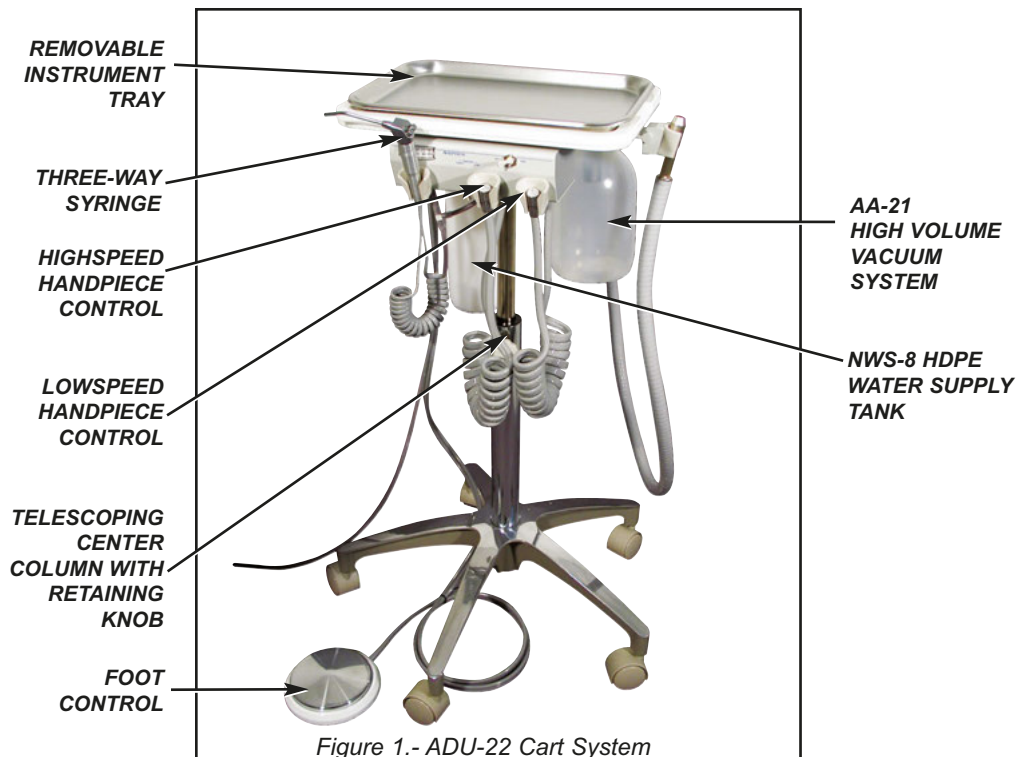
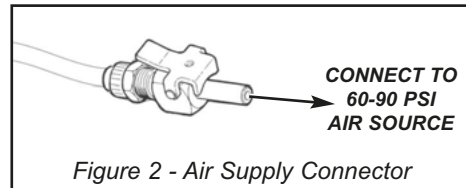
Separate manuals may be provided to cover the operation and maintenance of hand-held pieces or other accessories for your unit.

PACKAGE CONTENTS:

- Manual Highspeed Handpiece Control
- Manual Lowspeed Handpiece Control
- TA-90D Three-Way Air/Water Syringe
- AA-21 High Volume Evacuator System
- NWS-8 Water Supply System
- Foot Control
- AA-50 Instrument Tray
- ATC-08 Wheeled Cart w/Telescoping Stand

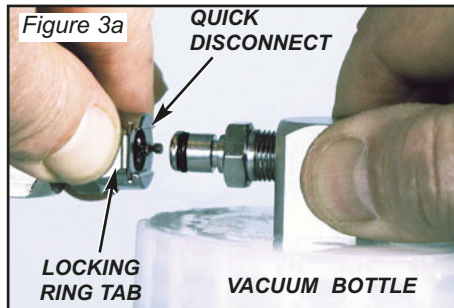
SETTING UP THE SYSTEM:

1. Place the ADU-22 Cart in an upright position on a flat, stable surface. Loosen the center column retaining knob and extend the telescoping upper portion. Tighten the knob at the desired height (Fig. 1).
2. Check to make sure the syringe, highspeed and lowspeed handpieces are hanging in their proper holder. Locate the foot control on the floor (Fig. 1).
3. The ADU-22 unit must be connected to a dry, filtered, 60-90 psi air source. Simply extend the 1/4" grey air supply line exiting from beneath the ADU-22 console and connect the quick-disconnect into the compressed air source (Fig. 2)

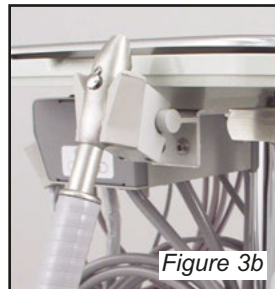


4. Remove the AA-21 high volume vacuum (HVE) system and High-Density Polyethylene (HDPE) water supply tank from packing and install on proper quick disconnects on the console (Fig. 1)

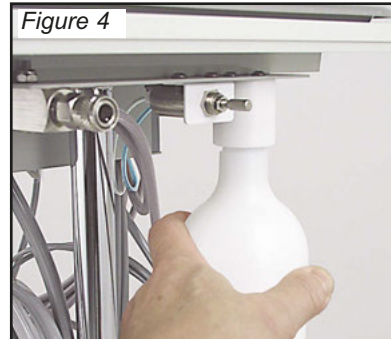
5a. To install the HVE vacuum bottle, press on locking-ring tab (Fig. 3a), push bottle into quick coupler, and release tab.



5b. Hang the vacuum head in the holder at the right-hand side of the chassis (Fig. 3b).



6. To install water supply bottle, thread it into the white plastic fitting at the left rear corner of the chassis (Fig. 4).



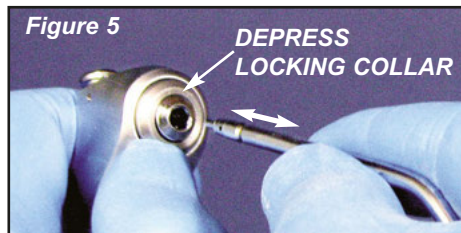
OPERATION FUNCTIONS:

- 1. THREE-WAY AIR/WATER SYRINGE** - Depress the right button for air operation, and the left button for water operation. Depressing both buttons will create a mist. The syringe features quick-change autoclavable tips: To remove a tip, press on the locking collar surrounding the tip socket and pull the used tip straight out of the socket (see Fig.5). To insert a new tip, press locking collar and push tip into socket as far as it will go. Release collar and gently tug on tip before using to ensure that tip is securely locked into socket.

Syringe Tip Sterilization:

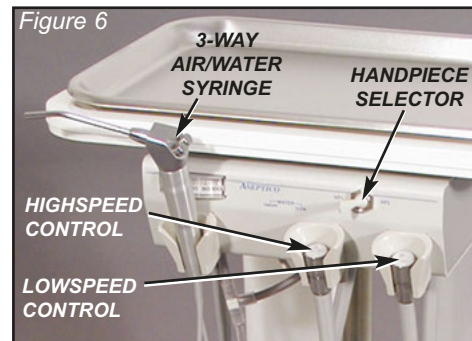
- 1) Remove contaminated syringe tip.
- 2) Remove all visible signs of contamination before autoclaving.
- 3) Autoclave tip at 132° C (270° F) for ten minutes.
- 4) Sterilize between each patient use.

NOTE: Since only the tips can be autoclaved, it is recommended that the air/water syringe be bagged with a disposable, single-use plastic sleeve between each patient use.



- 2. HANDPIECE SELECTOR** (Fig. 6) - The Aseptico ADU-22 includes a handpiece selector toggle on the front of the console which selects either highspeed (HP1) or lowspeed (HP2) handpiece operation.

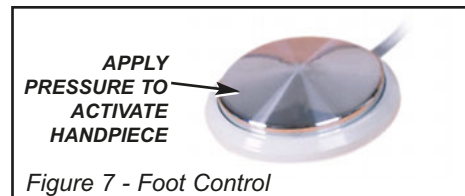
Connect the proper highspeed and lowspeed handpieces to their appropriate connector. Switch the handpiece selector to the desired handpiece. Depress foot control to activate handpiece.



The amount of air pressure supplied to each handpiece may be adjusted by turning the drive air-pressure control screws underneath the console (See page 7).

- 3. FOOT CONTROL** (Fig. 7) - The foot control applies air pressure to the selected handpiece

Position the foot control on the floor. For handpiece operation, apply foot pressure to any part of the center disk.



4. **WATER ON/OFF TOGGLE** (Fig. 8) - Controls the on/off flow of water coolant to the highspeed (HP1) handpiece.

5. **WATER SUPPLY TANK** - The Aseptico ADU-22 incorporates a self contained pressurized water system (Fig. 9). This consists of a 1-liter HDPE tank dispensing water through the 3-way syringe and handpiece control. The water tank is pressurized to a constant 35 pounds per square-inch gauge (PSIG) during use.

Before removing the tank for refilling, it must be depressurized by turning the tank 1/4 turn counterclockwise. The tank is removed by unscrewing it from its mount at the bottom right rear of the chassis After the tank is filled, screw it back onto the mount. Cleaning and sanitization of the tank is recommended between uses.



Figure 9 - Water Tank Removal

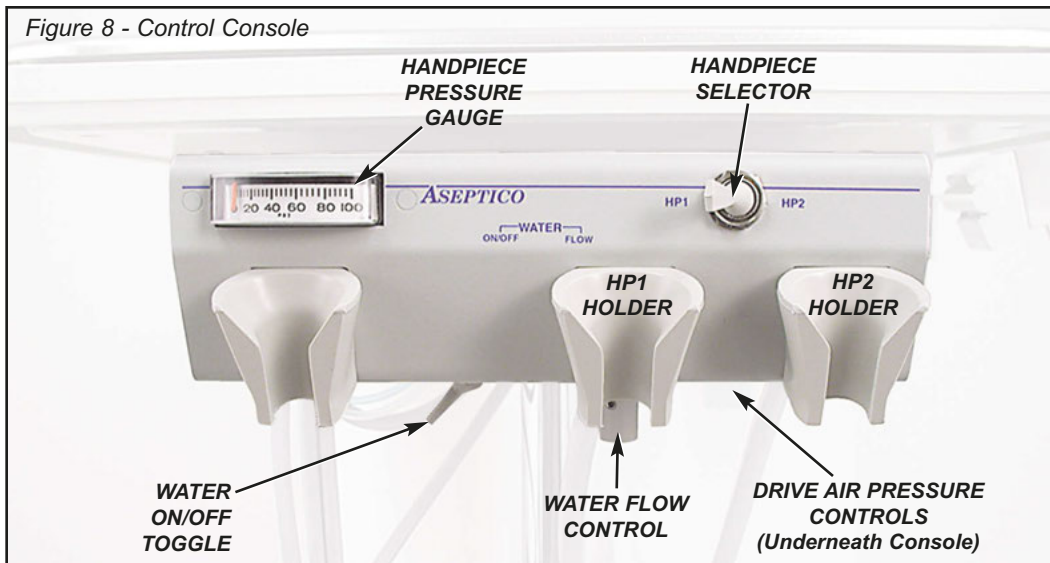


Figure 8 - Control Console

OPERATION FUNCTIONS *Cont'd:*

6. **PRESSURE GAUGE** (Fig. 8) - The pressure gauge on the front of the control console gives you a visual indication of the drive air pressure to the handpiece in use.
7. **WATER COOLANT FLOW CONTROL** (Fig. 8) - Adjusts the flow of water coolant to the highspeed (HP1) handpiece.
8. **AA-21 HIGH VOLUME VACUUM SYSTEM** - The AA-21 Steri-Vac is an air powered, self contained oral evacuator system. It is supplied with a plastic waste container and a single high-velocity hose. (Fig. 10)

To operate, remove the vacuum head from holder and insert a standard oral evacuator tip into end of head extension. Depress the on/off switch on the side of the hose end for vacuum.

Waste from the vacuum system will collect in the attached plastic bottle. When the waste container is 3/4 full it should be emptied. After each use, the vacuum system should be cleaned by running clean water or a vacuum system cleanser through the evacuator hose and thoroughly cleaning waste bottle.

CAUTION: Use only NON-foaming cleansers in the vacuum lines.

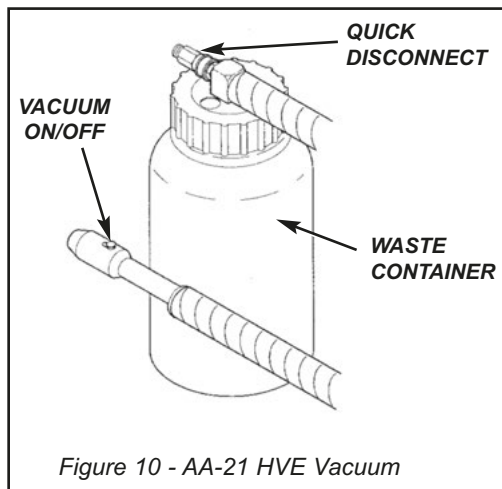
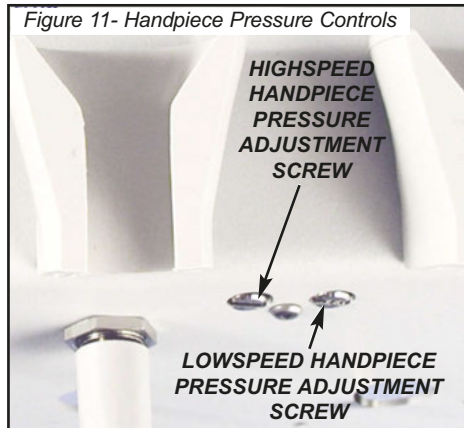


Figure 10 - AA-21 HVE Vacuum

SYSTEM ADJUSTMENTS:

1. HANDPIECE PRESSURE ADJUSTMENT

(Fig. 11) - The amount of air pressure supplied to each handpiece may be adjusted by turning the flow-control screw for that handpiece. The control screws are located underneath the console, next to the HP1 and HP2 handpiece holders.



MAINTENANCE:

Because of its simple design, the Aseptic ADU-22 Cart requires very little maintenance. Any maintenance that is needed can be performed in minutes.

1. **BLEEDING THE SYSTEM** - If the unit will not be used for an extended period of time, or the unit might be subjected to freezing conditions, you should bleed the system.

Simply empty the contents of the water supply tank and install the tank back onto the quick disconnect. Operate the air/water syringe and highspeed handpiece with water coolant 'ON' until just air comes through the water lines. Pack unit and store as normal.

2. **HANDPIECE FLUSH** - Flush the handpieces for about 5 seconds after every patient, and about 20 seconds at the beginning of each day.
3. **GENERAL CLEANING** - The cart exterior is designed to make cleaning and the use of prophylactic barriers as easy as possible. The external surfaces of the cart should be cleaned using a mild solution of liquid detergent and water. Any external surfaces of the unit that are contacted during use should carefully be wiped down with a disinfectant at the beginning of each day and between each patient.

As described in the vacuum section the high volume vacuum system should always be thoroughly cleaned after use.

4. **PACKING THE UNIT FOR TRANSPORTATION** - If the ADU-22 unit is going to be transported, it is recommended that the original or similar packing material be put into place to avoid dents and scratches from parts inside of the box shifting.

WARRANTY:

Aseptico warrants its products against defects in material or workmanship for a period of two (2) years, from date of original invoice. Some handpieces are warranted for one year under the same conditions. Other handpieces and expendable components, such as air turbines and light bulbs, are covered by shorter warranty periods, or have no warranty. Aseptico's sole obligation under product warranty is (at its sole option and discretion) to repair or replace any defective component or product in part or whole. Aseptico shall be the sole arbiter of such action.

In the event of alleged defect under warranty, the purchaser is to notify Aseptico's Customer Service Department promptly. Customer Service will provide instructions, usually directing that the product be returned for service. Shipment to Aseptico and the cost thereof is always the responsibility of the purchaser.

Accidental misuse, inappropriate installation, or failure to perform directed maintenance voids the warranty. Deliberately defacing, modifying, or removing the serial number voids the warranty.

Aseptico does not assume, under this warranty, any risks or liabilities arising from the clinical use of its products, whether or not such use involves coincidental utilization of products manufactured by others.



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