OPERATION and MAINTENANCE INSTRUCTION MANUAL

ADU-10 AseptiMini
Pneumatic Portable Dental System

Aseptico®

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Aseptico

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SPECIFICATIONS:

Size:	11.75” x 14.75” x 13.75” (30 cm x 37 cm x 35 cm)
Weight:	24 lbs (11 kg)
Power Source:	Air Connection

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.

Your new Aseptico ADU-10 AseptiMini delivery system is one of the finest portable pneumatic units available to the dental profession. The ADU-10 is designed for field or operatory use. The system features a three-way air/water syringe, automatic highspeed and lowspeed handpiece controls, and an optional high volume vacuum and saliva ejector vacuum. A pressurized water tank supplies water for handpiece coolant and syringe. The AseptiMini is powered by a single connection to compressed air via the air supply line.

Congratulations

This 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 handpieces or other accessories for your unit.

PACKAGE CONTENTS

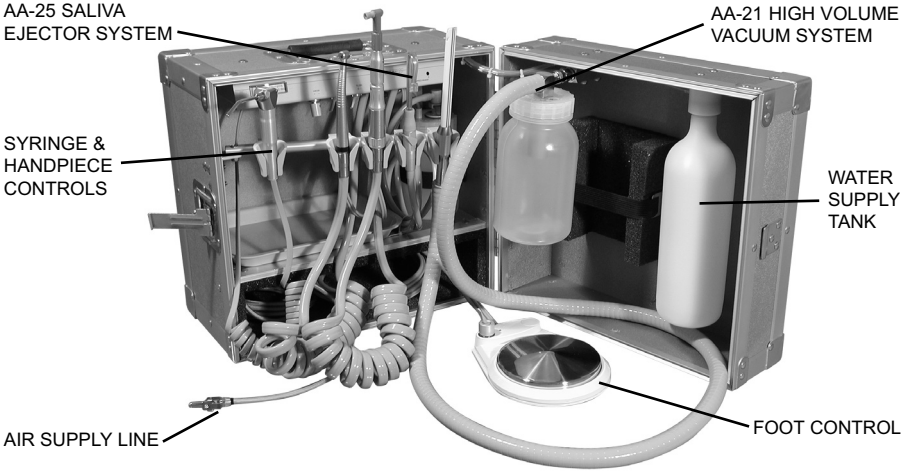
- ADU-10 System Case/Control Box
- Highspeed and Lowspeed Handpiece Controls
- TA-90D 3-Way Air/Water Syringe with Tips
- NWS-8 Water Reservoir
- Accessory Tray
- Wet/Dry Foot Control
- AA-21 High Volume Vacuum (Purchased separately)
- AA-25 Low Volume Vacuum (Purchased separately)

SETTING UP THE UNIT

(Refer to Fig. 1)

1. Place the ADU-10 AseptiMini in an upright position (the carrying handle at the top) on a flat, stable surface.
2. Unlatch and open the case.
3. Remove all protective packing materials such as foam, clear plastic wrap and gray corrugated cover on the foot control toggle switch.
4. Check to make sure the syringe, highspeed and lowspeed handpieces are hanging in their proper holder.
5. Place the foot control on the floor.
6. Remove the white plastic water supply tank and the high volume vacuum system (optional) from behind the storage strap and install on proper quick disconnect, just above each bottle.
7. To install, pull back snap ring, push bottle into quick coupler, and release.
8. Hang the vacuum hoses (optional) in their holders on the holder bar.

Figure 1



OPERATION

TA-90D 3-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 (Fig. 2). 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.

Figure 2 - Tip Removal & Installation

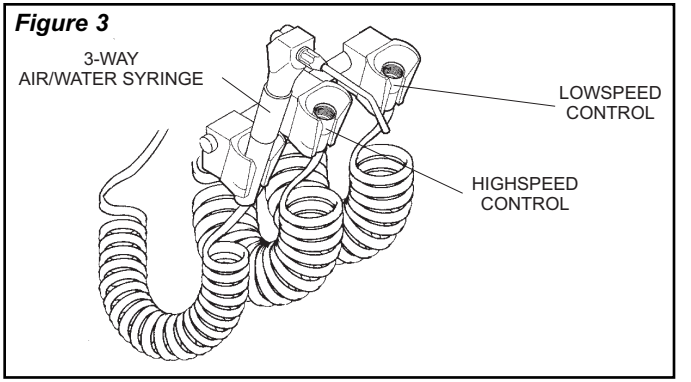
NOTE

Avoid damage to the syringe by removing the tip when closing the ADU-10 case for transportation.

HANDPIECE CONTROLS:

The Aseptico ADU-10 includes one highspeed control with water coolant and one lowspeed control mounted to a swivel holder bar (Fig. 3). These are fully automatic. By placing a handpiece into its proper holder, the pressure is automatically shut off. When a handpiece is removed from it's holder, pressure is automatically opened and ready for use with the foot control.

Figure 3



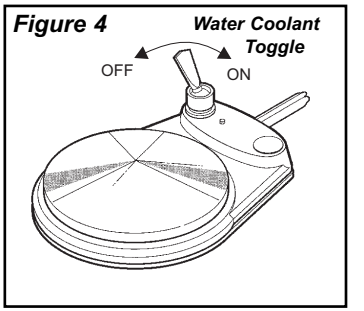
WET/DRY FOOT CONTROL:

The foot control provides variable speed operation to the handpieces and activates water coolant spray to the highspeed handpiece control (Fig. 4).

Remove the foot control from its storage compartment in the case and position it on the floor. For handpiece operation, apply foot pressure to any part of the center disk. The handpiece must be removed from its holder before operation can begin.

To activate the water coolant to the highspeed handpiece control, move the wet/dry toggle switch to the right position. Move the toggle switch to the left position to disable water coolant.

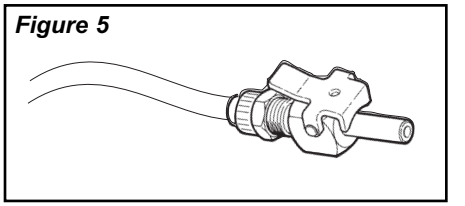
Figure 4



AIR SUPPLY LINE:

To activate the ADU-10 unit, you must connect the air supply line to a dry, filtered, 70-100 psi air source such as the Aseptico AA-74 compressor. Simply remove the 1/4" grey air supply line from the storage compartment in the ADU-10 case and connect the quick disconnect into the compressed air source (Fig. 5).

Figure 5



WATER SUPPLY TANK:

The Aseptico ADU-10 incorporates a self contained pressurized water system. This consists of a 28oz. white plastic tank dispensing water through the 3-way syringe and highspeed handpiece control. The water tank screws in to the ADU-10 case (Fig. 6). Before removing the tank for refilling, it must be depressurized. Disconnect the tank from the air supply allowing pressure to release. To fill the tank, release pressure, then unscrew tank and fill with water. Screw tank back into place. Sterilization of tank is recommended between uses.

PRESSURE GAUGE:

The pressure gauge on the front panel gives you a visual indication of the drive air pressure to handpieces (Fig. 7).

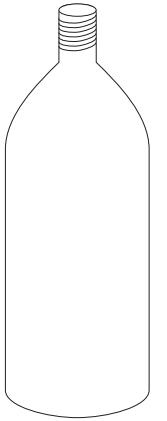
WATER COOLANT FLOW CONTROL:

Adjusts the flow of water coolant to the highspeed handpiece control (Fig. 7).

AIR COOLANT ON/OFF TOGGLE:

Stops the flow of air coolant to the highspeed handpiece control (Fig. 7).

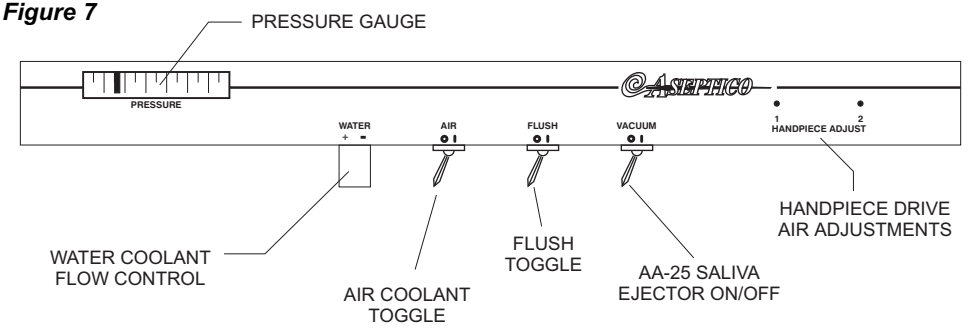
Figure 6



⚠ CAUTION

Water Supply Tank is pressurized during operation. Depressurize water bottle by loosening 1/2 turn before removing.

Figure 7



FLUSH TOGGLE:

The flush toggle allows you to quickly and completely flush your handpieces, washing away contaminants which may have accumulated in the handpiece and tubing. You should flush the handpieces for about 5 seconds after every patient, and about 20 seconds at the beginning of each day to reduce overnight bacterial accumulation which may have occurred.

To flush your handpieces remove them from their holder, directing the spray away from you and into a basin, then flip the flush toggle (Fig. 7) and hold the desired number of seconds. Release the flush the flush toggle.

OPTIONAL AA-21 HIGH VOLUME VACUUM SYSTEM:

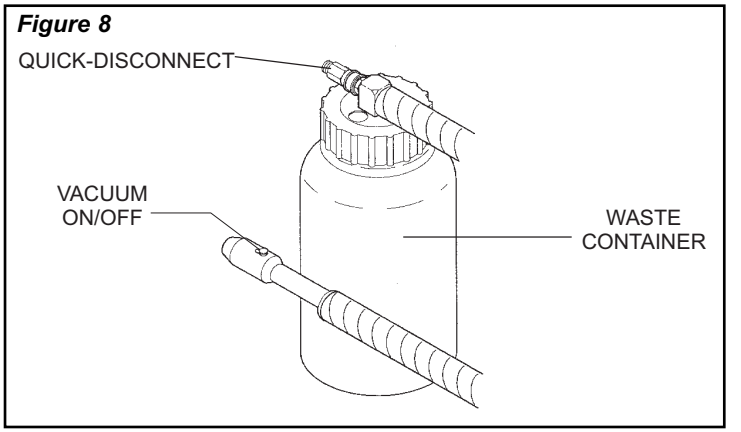
The AA-21 Steri-Vac is an air powered, self contained oral evacuator system. It is supplied with a plastic waste container and a single high velocity hose (Fig. 8).

Remove the vacuum bottle and hose assembly from behind the storage strap and install into the quick disconnect above it.

To operate, remove the vacuum hose from holder and insert a standard oral evacuator tip. 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. A small and large capacity waste container are provided and are interchangeable.

Figure 8



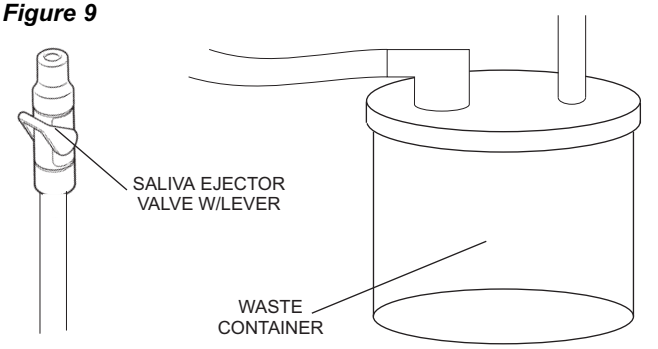
OPTIONAL AA-25 SALIVA EJECTOR VACUUM SYSTEM:

The AA-25 Saliva Ejector is an air powered, self contained oral evacuation system. It is supplied with a plastic waste container and a single low velocity hose (Fig. 9).

To operate, remove the saliva ejector valve from holder and insert a standard saliva ejector tip. Turn the vacuum toggle switch on. The vacuum may be adjusted by moving lever valve on the saliva ejector tip. The lever valve assembly snaps apart at the swivel and may be autoclaved.

Waste from the vacuum system will collect in the attached plastic bottle. When the waste container is 3/4 full, it must be emptied to prevent a back-up in the system. After each use, the vacuum system should be cleaned by running clean water or vacuum system cleanser through the evacuator hose and thoroughly cleaning the waste bottle. Also, remove rubber tip and clean or replace the plastic screen.

Figure 9



ADJUSTMENTS

HANDPIECE DRIVE AIR ADJUSTMENT:

The handpiece drive air pressure must be adjusted to meet the handpiece manufacturer's specifications. For most highspeed handpieces, the maximum drive pressure is 32 PSI, and 45 PSI for most lowspeed handpieces.

Locate the drive pressure adjustment controls labeled '1' and '2' on the front panel (Fig. 7). Control '1' adjusts the highspeed handpiece control, and control '2' adjusts the lowspeed handpiece. Install and run a highspeed or lowspeed handpiece. While watching the pressure gauge, turn the handpiece drive air pressure control with a small screwdriver until the handpiece runs at the specified maximum pressure when the foot control is fully depressed. Clockwise decreases pressure and counterclockwise increases pressure.

WATER COOLANT FLOW ADJUSTMENT:

The water coolant to the highspeed handpiece control can be varied from a fine fog spray to a heavy stream.

Install and run a highspeed handpiece at a midrange speed. Make sure the wet/dry toggle is in the 'on' position on the foot control. Turn the water coolant flow control located on the front panel clockwise until it seats softly. Begin turning counterclockwise until a fine mist is visible. This will provide excellent cooling while bur is cutting.

MASTER PRESSURE REGULATOR VALVES:

These adjustment valves are preset for normal operating pressures and should not require any further adjustment. These valves are located on the left panel of the delivery head as you face the unit. If for some reason they need further adjustment, you can adjust as follows:

MASTER AIR LINE PRESSURE VALVE:

The regulator valve toward the back of the delivery head controls the line pressure from the compressed air source to the unit. Turning the valve stem clockwise will increase this pressure and counterclockwise will decrease pressure.

MASTER WATER PRESSURE VALVE:

The regulator valve toward the front of the delivery head controls the air input pressure in the water tank. Turning the valve stem clockwise will increase water pressure and counter-clockwise will decrease pressure. Do not over-pressurize the water tank.

MAINTENANCE

Because of its simple design, the Aseptico ADU-10 AseptiMini requires very little maintenance. Any maintenance that is needed can be performed in minutes.

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 only air comes through the water lines. Pack unit and store as normal.

HANDPIECE FLUSH:

Flush the handpieces for about 5 seconds after every patient, and about 20 seconds at the beginning of each day. Refer to page 4.

GENERAL CLEANING:

The external surfaces of the case 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 optional high and low volume vacuum systems should always be thoroughly cleaned after use.

PACKING THE UNIT FOR TRANSPORTATION:

If the ADU-10 unit is going to be shipped abroad, it is recommended that the original or similar packing material be put into place to avoid dents and scratches from parts inside of the case shifting.

WARRANTY

Aseptico warrants these products against defects in material or workmanship for a period of one (1) year, 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.

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.

NOTE: In the interest of serving our customers more efficiently, customers receiving service on non-warranted repairs are expected to accept charges that are less than $250.00 without further notification.

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