

OPERATION and MAINTENANCE INSTRUCTION MANUAL

ADU-12DCE Task Force Deluxe Portable Pneumatic Dental System



 **Aseptico**

TABLE OF CONTENTS:

Package Contentsi
Introduction1
Setting Up the Unit1
Operation3
Maintenance5
WarrantyBack Cover

SPECIFICATIONS:

Size:	12.5" x 17.5" x 7.5" (32 cm x 44 cm x 19 cm)
Weight:	31 lbs (14.1 kg)
Power Source:	115 VAC, 60 Hz or 230 VAC, 50 Hz
Current Rating:	6.3A at 115 VAC or 4A at 230 VAC
Fuse:	115V Operation: 6.3A, 125V Medium Time Delay 230V Operation: 4A, 250V Slo- Blo Type
Air Source:	1/2 H.P. Oil-Free Compressor/Vacuum Pump
Water Supply Tank:	1000 mL (1.06 Quart)
Waste Tank:	946 mL (1 Quart)
Vacuum:	1.35 CFM @ 4.0 In. Hg.
Environmental Conditions:	
Intended for indoor use in an office environment of 10°C - 40°C, 10% - 90% humidity, non-condensing.	

PACKAGE CONTENTS

- ADU-12DCE System Case/Control Box
- Highspeed and Lowspeed Handpiece Controls
- TA-90D 3-Way Air/Water Syringe with Tip
- Water Supply Tank (PN 730471)
- 730068-08 Waste Container
- Electric Foot Switch
- Saliva Ejector Vacuum System
- Remote AC Power Cord (PN 840008)
- AA-12CSB Case Stand-Off Bracket
- Two (2) Extra Fuses Each for 115V (PN 830146) & 230V (PN 830147)
- Shoulder Strap
- Manual (PN 420554)



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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.

WARNING:

Device not suitable for use in the presence of flammable gasses or gaseous oxidizers.

WARNING: This device has been tested and found to comply with the emissions requirements of IEC 60601-1-2:2001-09. These requirements provide reasonable protection against harmful electromagnetic interference in a typical medical installation. However, high levels of radio-frequency (RF) emissions from electrical devices, such as cellular phones, may disrupt the performance of this device. To mitigate disruptive electromagnetic interference, position this device away from RF transmitters and other sources of electromagnetic energy.

Available Accessories:

#AA-12CSB
Case Stand-Off
Bracket



#AA-12HVE
HVE Tip Adapter



#AA-26SS
Stainless Steel
Dry Oral Cup



#TA-1
TA-1 Syringe Tip



#AA-12A
Handpiece Holder
Extension Arm



Your new Aseptico ADU-12DCE Task Force Deluxe delivery system is one of the finest portable pneumatic units available to the dental profession. The self-contained ADU-12DCE is designed for portable field use. The system features a three-way air/water syringe, highspeed and lowspeed handpiece controls, and saliva ejector vacuum. A pressurized water tank supplies water for handpiece coolant and syringe. The Task Force Deluxe is powered by a switchable dual voltage oilless air compressor.

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.

SETTING UP THE UNIT:

1. Place the ADU-12DCE Task Force Deluxe in an upright position (the carrying handle at the top) on a flat, stable surface.
2. Unlatch and open the case. Install AA-12CSB Bracket to hold up case lid. (Figure 1)
3. Verify that the voltage selector insert is configured properly by checking the voltage indicator on the voltage selector module (Figure 2). The voltage module is located behind the sliding panel on the rear of the ADU-12DCE (Figure 7, page 2). The voltage selector insert must be installed in the "120" position for 110V-120V 60Hz operation or in the "240" position for 220V-250V 50Hz operation.

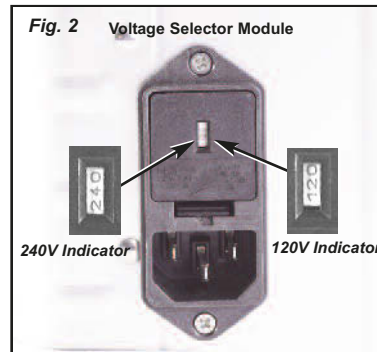


NOTE: Install AA-12CSB Bracket to prevent hoses from coming out of holders

ALIGN THEN SLIDE

WARNING:
ALWAYS DISCONNECT POWER TO THE SYSTEM BEFORE OPENING VOLTAGE SELECTOR MODULE

To switch the voltage configuration, disconnect power cord and insert a small flat screwdriver under the locking tab in the front of module. Gently depress tab until the fuse housing releases (Figure 3, page 2). Carefully remove fuse housing to reveal voltage selector insert (Figure 4). Pull insert out of housing, turn it around and reinsert into housing with proper voltage indicator facing out (See Figure 5, page 2).



SETTING UP THE UNIT..Cont'd

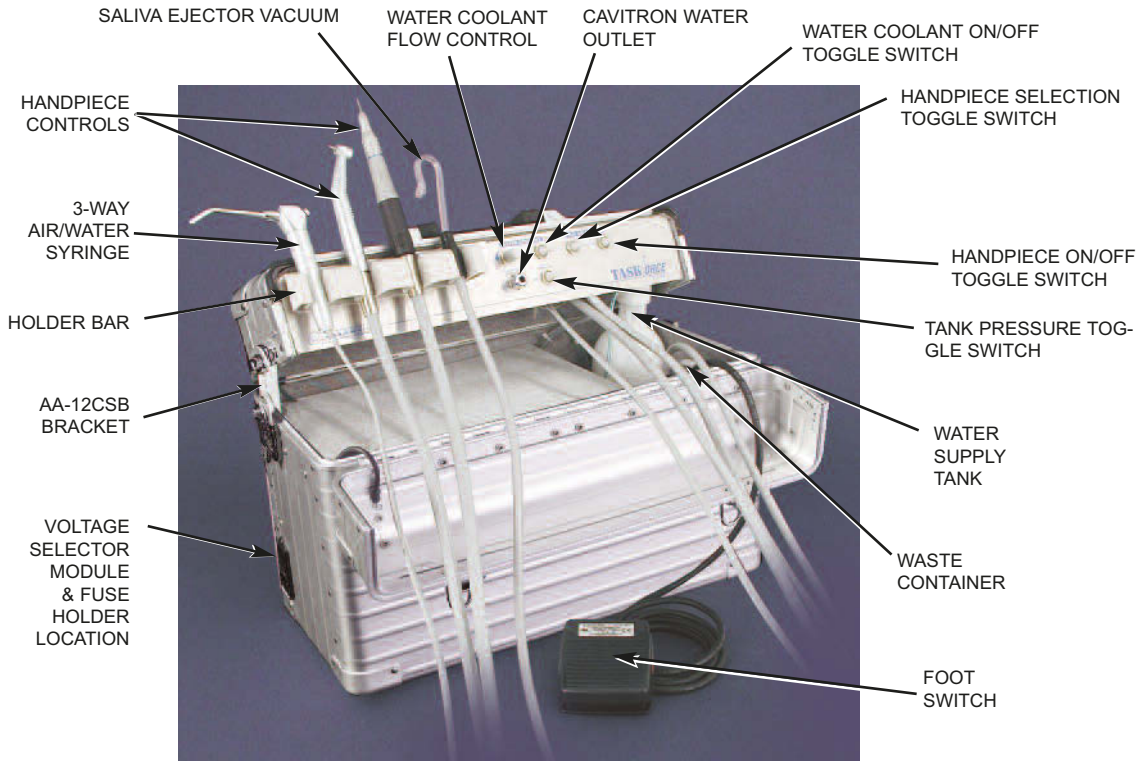
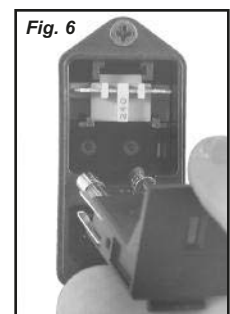
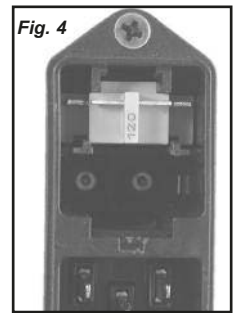
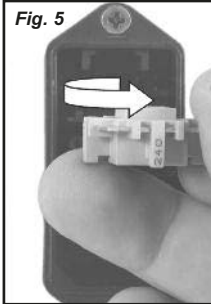
IMPORTANT: For 110V-120V use, check that the fuse in use is a 6.3A medium time delay; for 220V-250V use, check that the fuse is a 4A Slo-Blo type. User may have to change fuses before use.

For 220V-250V use, confirm that the power cord is correct for the country of usage and carries the proper certifications.



FUSES LOCATED IN VOLTAGE SELECTOR MODULE

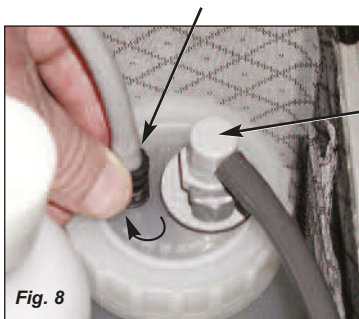
Carefully reinstall fuses into fuse holder and slide holder back into selector module (Figure 6). Apply pressure until locking tab snaps back into position, producing a distinct clicking sound.



SETTING UP THE UNIT..Cont'd

4. Place the syringe, highspeed handpiece and lowspeed handpiece in their proper holders on the holder bar.
5. Place the foot switch on the floor.
6. Remove the cap from the white plastic water supply tank and fill with clean water. Reinstall the cap and place water supply tank into retainer strap inside Task Force Deluxe case.
7. Attach the saliva ejector hose onto the top of the waste container by pushing in and rotating 1/4 turn (*Figure 8*). Verify that the vacuum line and waste container are properly installed. Hang the saliva ejector hose in its holder on the holder bar.

**TO INSTALL SALIVA EJECTOR HOSE,
TURN CONNECTOR 1/4 TURN CLOCKWISE**



**VACUUM LINE
WITH QUICK
DISCONNECT**

OPERATION:

FOOT SWITCH

All Task Force Deluxe system components are activated by the on/off foot switch. The foot switch enables the operation of the handpieces, saliva ejector and the 3-way air/water syringe.

CAUTION:

Releasing and depressing the foot switch within two seconds may cause the compressor/ vacuum pump to stall and blow the fuses when the handpiece on/off toggle switch is in the 'OFF' position. To prevent this, wait two or more seconds after releasing footswitch before depressing it again.

COMPRESSED AIR SUPPLY

The ADU-12DCE contains a 1/2 HP compressor/ vacuum pump that powers all functions. The compressed air supply and vacuum are available only when the foot switch is depressed.

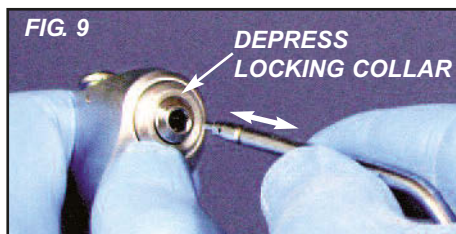
THREE-WAY AIR/WATER SYRINGE

The ADU-12DCE Task Force Deluxe features a TA-90D three-way air/water syringe with 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. 9). 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:

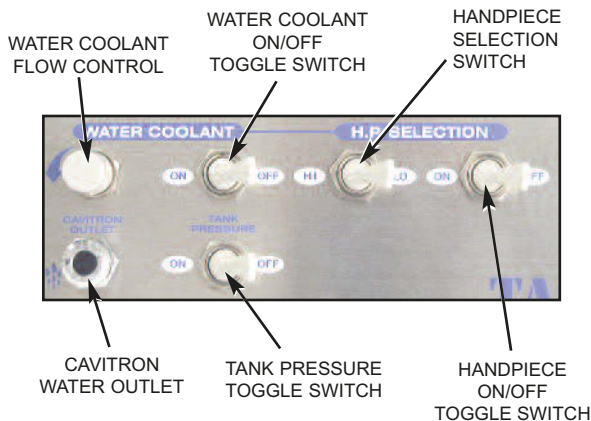
- 1) Remove contaminated syringe tip.
- 2) Remove all visible signs of contamination before autoclaving.
- 3) Autoclave tip at 132° C (270° F) for ten minutes.
- 4) Sterilize between each patient use.

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.



NOTE

Avoid damage to the syringe by removing the tip when closing the ADU-12DCE case for transportation.



HANDPIECE CONTROLS

The Aseptico ADU-12DCE includes a manual handpiece control system. The system includes one highspeed control with water coolant and one lowspeed control. The handpiece selection switch allows the user to select highspeed or lowspeed operation, and the handpiece on/off toggle switch turns the selected handpiece on or off.

TANK PRESSURE TOGGLE SWITCH

Turns the pressure to the water supply tank on or off. Turn switch off before removing water supply tank.

WATER COOLANT ON/OFF TOGGLE SWITCH

Turns water coolant to highspeed handpiece on or off.

WATER COOLANT FLOW CONTROL

Adjusts the flow of water coolant to the highspeed handpiece control from off to full spray when the water coolant on/off toggle switch is in the "ON" position.

CAVITRON WATER OUTLET

Provides water via standard 1/4" quick disconnect to independent Cavitrion or scaler units requiring a water supply.

PRESSURIZED WATER SUPPLY SYSTEM

The Aseptico ADU-12DCE incorporates a self contained pressurized water system. This consists of a 1000 mL white plastic tank dispensing water through the 3-way syringe and highspeed handpiece control. Before removing the tank for refilling, it must be depressurized. Turn off the tank

pressure toggle switch to release pressure in the water system. Then unscrew the cap from tank and fill tank with water. Screw cap back onto tank. Sterilization of tank is recommended between patient use.



WARNING:

THE WATER SUPPLY TANK IS PRESSURIZED DURING OPERATION. DEPRESSURIZE WATER TANK BY TURNING OFF TANK PRESSURE TOGGLE SWITCH BEFORE REMOVAL.

SALIVA EJECTOR VACUUM SYSTEM

The Saliva Ejector is powered by the compressor/vacuum pump and is a self contained oral evacuation system. It is supplied with a plastic waste container and a saliva ejector hose.

To operate, attach the saliva ejector hose to the top of the waste container and insert a standard saliva ejector tip. To activate the saliva ejector, depress the foot switch.

Waste from the vacuum system will collect in the clear plastic waste container. When the waste container is over 1/2 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 saliva ejector hose and by thoroughly cleaning the waste container. **CAUTION:** Use only NON-foaming cleansers in the vacuum lines. Use a new saliva ejector tip for each patient.

NOTE:

The waste container has a ball float shutoff to prevent accidental overflow. If the waste container becomes full and the ball float activates, the vacuum motor may not restart, and could potentially blow the fuse. Immediately empty waste container to continue operation.

IMPORTANT NOTE:

When running the ADU-12DCE unit at 230VAC 50Hz, expect approximately 17% less vacuum and pressure volume due to the slower turning of the compressor.

MAINTENANCE:

Because of its simple design, the Aseptico ADU-12DCE Task Force Deluxe 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 cap back onto the tank. 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.

HANDPIECE FLUSH

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

GENERAL CLEANING

The external surfaces of the case should be cleaned using a soft cloth moistened with a mild detergent solution. Any external surfaces of the unit that are contacted during use should be wiped down with a soft cloth moistened with a disinfectant at the beginning of each day and between each patient use.

As described in the vacuum section, the saliva ejector vacuum system should be thoroughly cleaned after each use.

WATER LINES

Disinfect the water lines weekly. Prepare a 1:10 bleach solution (1 part household bleach to 10 parts water). Remove water reservoir and discard residual water. Replace empty water supply tank and air purge all waterlines. Fill water supply tank with bleach solution. Run bleach solution through all lines. Allow bleach solution to stand in lines for 10 minutes. Remove water supply tank and discard bleach. **Flush water supply tank and all lines thoroughly with clean water.** Air purge and leave lines dry until next clinical use.

TROUBLESHOOTING:

Problem:	Correction:
Unit will not start	Check console to power connection. Depress foot switch for operation. Check that voltage selector module is set for source voltage. Check fuse. If blown, replace with 6.3A/125V medium time delay fuse for 110V-120V operation, or a 4A/250V slo-blo fuse for 220V-250V operation.
Unit starts but blows fuse	Check that voltage selector module is set for source voltage. Check vacuum waste container. If full, immediately empty to continue operation. Check vacuum hose assembly for blockage. NEVER install a vacuum valve with a shut-off control. Depressurize water supply tank by turning off tank pressure toggle switch. Check that fuse is correct for source voltage.
No water pressure	Check water supply tank for water level and verify that cap is tight. Turn tank pressure toggle switch "ON". Depress foot switch for 5+ sec. to pressurize supply tank. Turn water coolant flow knob counterclockwise to open.
Insufficient vacuum	Check vacuum waste container. If full, immediately empty to continue operation. Check vacuum hose assembly for blockage. NEVER install a vacuum valve with a shut-off control. Check that waste container lid is properly seated and tightly secured.
Insufficient handpiece operation	Check that handpiece ON/OFF toggle is "ON". Check that handpiece "SELECT" toggle is set to desired handpiece. Check that handpiece tubing is untangled and not crimped. Check handpiece connection for missing gasket.

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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