

OPERATION and MAINTENANCE INSTRUCTION MANUAL

AEU-500 Mini-Electric Portable Dental System



 **Asepticco**[®]

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SPECIFICATIONS:

Console Size:	5.5" x 5" x 2.5" (9 cm x 13 cm x 18 cm)
Console Weight:	1.85 lbs (0.84 kg)
Power Source:	110 V or 220 V



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SYMBOL DEFINITIONS:



Type B
Equipment



Type BF
Equipment



Dangerous
Voltage



Attention - Consult
Accompanying
Documents

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 AEU-500 Mini-Electric Portable Dental System is one of the finest motor/handpiece combinations available to the professional. With its speed range of 5,000 to 30,000 RPM and included straight and Doriot latch contra-angle handpieces, the AEU-500 is well suited for many uses including light-duty dental laboratory work and chairside work such as prophylaxis.

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.

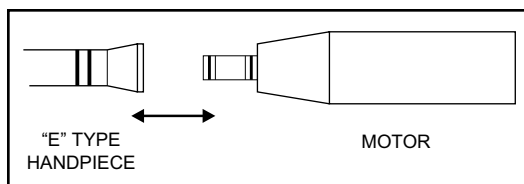
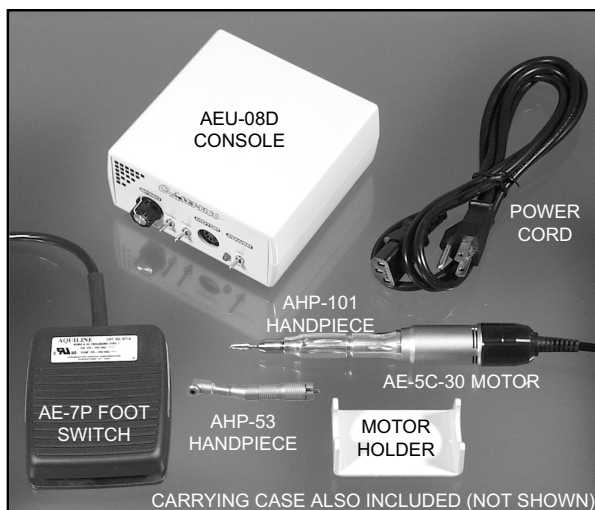
Separate manuals may be provided to cover the operation and maintenance of handpieces or other accessories for your unit.

PACKAGE CONTENTS

- AEU-08D Electric Control Console
- Remote Power Cord
- AE-5C-30 "E" Type Micro Motor
- Autoclavable Motor Holder
- AE-7P On/Off Foot Switch (971-S)
- AHP-101 "E" Type 1:1 Straight Handpiece
- AHP-53 Doriot Latch Contra Angle Handpiece
- Carrying Case

SETTING UP THE UNIT:

1. Remove the Console from the Carrying Case and check that the voltage is proper for the country of use.
Use 110V for 110-120V 60Hz voltages, and 220V for 220-250V 50Hz voltages.
For alternative voltages (220V-250V), confirm that the type of plug cap is correct for the country of usage and carries the proper certification markings.
The correct Power Cord for the specified voltage is shipped with the console.
2. Attach the Power Cord to the back of the Console and plug into a grounded electrical receptacle.
3. Connect the Motor to the Motor Receptacle on the front panel of the Console.
4. Attach the AHP-101 Handpiece or other "E" Type Handpiece to the motor. If using the AHP-53 Doriot Handpiece, attach it to the Doriot Connection on the front of the AHP-101 Handpiece.
5. Insert a bur or bit into the Handpiece Collet as shown in the Handpiece instructions. *Do not operate the unit without a bur or blank installed in the collet.*
6. Attach the included AE-7P On/Off Foot Switch to the connector on the back of the unit marked 'Foot Switch'.



OPERATION FUNCTIONS:

- 1. Power Switch** - Controls power on/off to console. When the AEU-500 is turned on, the green Power Indicator LED next to the Power Switch will light.
- 2. Speed Control Knob** - Controls the speed of the Motor and Handpiece. Turn the Speed Control Knob clockwise to increase the speed. Turn the Speed Control Knob counterclockwise to decrease the speed. The AEU-500 is capable of a minimum speed of 5,000 RPM and a maximum speed of 30,000 RPM.
- 3. Mode Switch** - Sets the unit to activate from a Foot Switch or from the Power Switch. If using the foot switch, set the mode to 'FOOT'. Set the mode to 'HAND' to activate whenever the power switch is on.
- 4. Rotation Switch** - Selects clockwise or counter-clockwise rotation of the bur. Set the switch to 'Fwd' for normal clockwise operation and to 'Rev' for counterclockwise operation. Do not change rotation while bur is turning.
- 5. Foot Switch** - Controls the on/off activation of the Motor and Handpiece. The AEU-500 is shipped with the AE-7P On/Off Foot Switch. Plug the foot switch into the Foot Switch Receptacle on the back of the Console and select 'Foot' mode for proper operation.

OPERATION:

After the unit has been set up and you have made yourself familiar with the operation functions, you are ready for operation as follows:

1. Turn the Power Switch on the right side of the front panel of the console up to the 'ON' position. The green Power Indicator LED will light.
2. Set the Rotation to 'Forward' or 'Reverse' as desired. Do not change rotation setting while motor is running.
3. Set the Mode to 'Hand' or 'Foot' as configured.

When mode is set to 'Hand', unit will begin operation when power is turned on.
When mode is set to 'Foot', press down on the Foot Switch to begin handpiece operation.

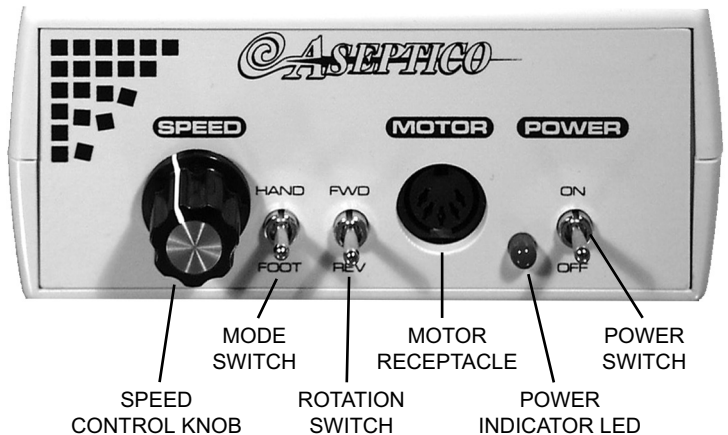
4. Turn the Speed Control Knob until the desired operating speed is reached.



CAUTION

Do not switch the Rotation from Forward to Reverse or from Reverse to Forward while the AEU-500 is operating.
Stop the motor by releasing the foot switch or turn the power to off before switching rotation.

CONSOLE FRONT



CONSOLE BACK



STERILIZATION & MAINTENANCE:

CONSOLE - The exterior of the console may be cleaned by wiping with a soft cloth moistened with mild detergent or disinfecting solution.

HANDPIECES - Thorough cleaning and lubrication of handpieces after each use and before sterilization is very important to ensure proper operation and service life of the handpiece. Follow the instructions provided with the included handpieces for complete maintenance instructions.

MOTORS - The "E" Type brushless motor included with this system is NOT autoclavable.

The included motor/handpiece holding cradle is fully autoclavable.

TROUBLESHOOTING:

Problem:	Correction:
Console LED does not light when turned on:	Check console to power connection. Check that voltage is proper voltage.
Console LED lights when turned on, but handpiece does not turn:	Check motor plug connection. Check foot switch connection. Depress foot switch. Check that an instrument is properly seated in the handpiece and the collet is closed.
Motor slowing down or sluggish:	Dirty, under-lubricated handpiece. Handpiece lubricant is running into motor. After lubricating, set handpiece with head down to let excess lubricant drain out.



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WARRANTY

Aseptico warrants this product against defects in material or workmanship for a period of one year, from date of original invoice. Handpieces are warranted for 90 days under the same conditions. Expendable components such as 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.