

AdvErL Evo

Tips and Treatment Settings

Irradiation Target (Indications)		Tip Type	PPS (Hz)	Energy Level Setting (mJ)	Spray Water On/Off
Hard	Healthy Enamel Occlusal Surface	C400F C600F C800F	10	160 - 210	On
			20	160 - 170	On
	Healthy Enamel Cavo Surface		20	90 - 140	On
	Healthy Dentin		10 - 20	70 - 110	On
			25	70 - 80	On
	Caries		10 - 25	50 - 70	On
	Bone		C400F C600F C800F S600T	10 - 20	30 - 100
Perio	Calculus	PS400T(S) PS600T(S) PS800T(S)	20 - 25	30 - 80	On
	Granulation		20	40 - 100	On
			25	40 - 80	On
Soft Tissue	Incision Excision	S600T	20	40 - 100	On
			25	40 - 80	On

Begin treatment on the lowest energy setting and gradually increase to a higher level while monitoring the effectiveness.

WARNING

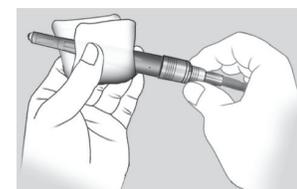
- A direct, reflected or scattered laser beam can cause permanent blindness. All individuals in the laser use area must wear laser safety glasses.
- Use with care. Cooling air from the contact tip can cause subcutaneous emphysema or air embolism.

Please refer to the full operations manual for complete instructions on how to operate and maintain this unit.

Handpiece Attachment, Hanger, Tips & Tip Stand Cleaning/Sterilization

Cleaning of Tips

1. After using a tip, immerse the fiber part of the tip in tap water and emit the laser for 3 to 5 seconds. Use an enzymatic detergent (such as CIDEZYME® by Johnson & Johnson) to clean off blood and other contaminants.
2. Immerse the tip in a chemical disinfectant for the recommended time as described in the manufacturer's instructions. Use one of the disinfectants listed below at the concentration specified for medical instruments cleaning.
 - Chlorhexidine Gluconate (Such as Hibiten®)
 - Ethanol for disinfection (70% to 80% by volume)
 - **Do not use ultrasonic cleaning methods; this could break the tip or cause its connector to fall off.**
 - Contact tips will wear out and must be replaced periodically. Replace damaged tips and those that cannot be adequately cleaned.
3. Wash tips thoroughly with tap water after using the cleaning solution.
4. Wipe the contact tip with cotton. Take care not to pull out the optical fiber.



Cleaning of Handpiece Attachment

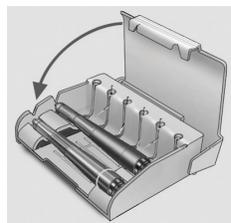
Wipe entire outer surface of handpiece attachment with a soft cloth dampened with ethanol for disinfection (70% to 80% by volume).



Cleaning of Hanger

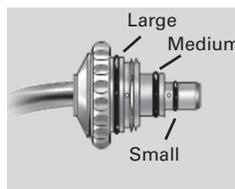
Wipe entire hanger outer surface with a soft cloth dampened with ethanol for disinfection (70% to 80% by volume).

Autoclaving (Sterilization)



1. Put the handpiece attachments, hanger and tips in sterilization pouches or the tip stand for autoclaving.
2. Place them inside the autoclave chamber.
3. Set autoclave cycle to the following parameters:
 - Temperature: 135 °C (275 °F)
 - Time: 10 to 15 minutes
 - **Dry time: 0 min (dry naturally)**
 - **Do not use the drying stage if the autoclave has one. The temperature might be too high.**
4. After the autoclave cycle is complete, let them cool.

Three O-Rings



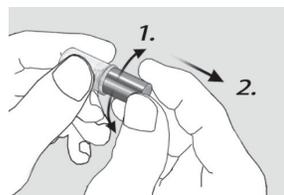
Make sure all 3 o-rings of the tips are intact and are not damaged in any way.

Pay special attention to the smallest o-ring. If this is missing or damaged, water could seep into the handpiece and damage it or cause the laser to lose power. It also might harm the drum lens.

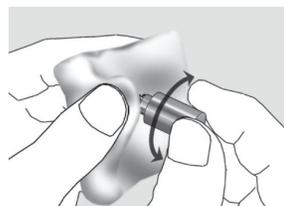
Maintenance

Grease Handpiece End

Grease the handpiece end each day before use.

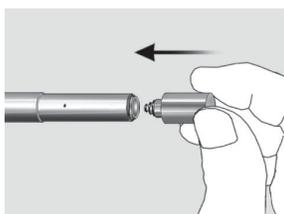


1. Rotate the applicator to apply grease and then remove it from its case.



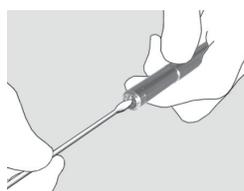
2. Use a piece of gauze to wipe off excess grease.

* Do not wipe off too much grease; leave enough to lubricate the handpiece attachment.



3. Insert the applicator into the handpiece as far as it will go and rotate it; then remove it. When finished, return the applicator back to its case.

Drum Lens Cleaning (Handpiece End)



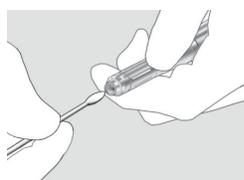
Disconnect the handpiece attachment and clean the lens on the end of the handpiece with the lens cleaner provided.

Dampen the end of the lens cleaner with ethanol for disinfection (70% to 80% by volume) and lightly wipe the lens.

Aiming Beam



Ball Lens Cleaning (R-Attachment)



Clean the ball lens on the end of the R-Attachment after each patient.

Dampen the end of the lens cleaner with ethanol for disinfection (70% to 80% by volume) and lightly wipe the lens.

Spray Water Bag Replacement (Sterile Water for Spray)



Before use, check the level of the water in the spray bag.

If air gets in the lines when the bag is replaced, depress the foot switch halfway down for 90 seconds to activate the water pump only and force the air out.