



Western Surgical®

Electro Skin Cautery

USER MANUAL



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Electro Skin Cautery USER MANUAL

ELECTRO CAUTERY GENERATOR



STANDARD ACCESSORIES WITH ELECTRO
CAUTERY UNIT.



* Carrying Warranty at Rajkot only on site warranty not provided free of cost.

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(A)

Electro skin cautery unit.

The Technique of electro-skin cautery unit Involves the passage of high frequency waves through the Electrodes which of different types for different application. It cuts, coagulates or Remove the tissue soft tissue resistance to these electro-skin cautery unit, causes the cellular water in soft tissue to heat, which produces steam and results in cellular molecular dissolution of individual tissue cells. The electro-skin cautery unit waves are focused on the tissue by means of hand pencil (Monopolar) with Electrode connected for cutting of soft tissue. The patient plate is positioned behind the tissue in contact with patient's skin, this operations activated by foot switch, for controlled output as per surgeons need for depth cut is possible by Intensity control. There is one Mode from (0 to 8) in the electro-skin cautery unit to control the intensity through intensity knob (high OR low).

electro-skin cautery unit in general practice has many advantages over conventional surgical techniques particularly in dermatology, plastic surgeries, Eyelid surgery E.N.T & Dental for Fast operating time, quick healing less tissue damage, no charring and less post operative discomfort have been observed and its wider use in hospital practice is recommended from electro-skin cautery unit is different electro-surgery Machine, e.g. (Surgical Diathermy). The electrical energy is converted in electro-skin cautery unit and this waves of high frequency does the cutting very fine. The process involves control the high frequency waves.

The electrodes used in Radiofrequency surgery or also different from conventional diathermy, in this fine needle (or) wire loop Electrodes held by surgeon. The electro energy passed between this cautery electrode and patient plate. The power is concentrated at the needle end or wire loop electrode resulting in release of energy, produces steam within the cells thus vaporizing them and dividing the tissue.

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APPLICATION

- TO REMOVE SKIN TAGS, WARTS, CORNS
- HAIR RESTORING SURGERY
- FOREHEAD LIFT
- ABLATION OF KELOIDES
- PALATOPLASTY
- KEROTOSIS
- BLEPHARE PLASTY
- RITODOPLASTY
- LEASON REMOVAL
- TUMOTTRS
- RHINEPLIYMA
- EPILATION
- NIPPLE REDUCTION
- FACE LIFTS
- MAMOPLASTY
- EPISTAXIS
- AUGMENTATION
- DEVELOPMENT OF SKIN FLAPS
- TONGUE LESION REMOVAL
- ABDOMINOPLASTY
- BIOPSIES
- DERMATOLOGY TREATMENTS.
- COSMOLOGY TREATMENTS.
- COLLAGEN REMODELING.
- SKIN TREATMENTS.
- ABLATION & NON ABLATION.
- BEAUTY TREATMENTS.
- PLASTIC SURGERY.

Specification :-

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Power input 230 volts +/- 5%
Power consumption 50watts
Frequency 50 +/-5%
Maximum output 50watts.

Advantages:-

- Reduced Stress
- Reduced operating time
- Pressure less cutting
- No lateral heat
- Microphone incisions
- More range of procedure
- Minimum blood loss & pain
- Minimum heat with no charring resulting in least tissue damage.
- Local anesthesia is not required on the surface of skin or in superficial procedure.
- Pin point cutting capability.
- Shook proof.

Operating details

- Plug in the mains cord in the electric main board
- Check that the intensity knob is on " 0"
- Plug in the accessories like active handle cable in HIGH OR LOW function given in the unit, according to the requirement.
- Insert the patient plate single pin in bipolar out put terminal any of the one.
- Don't insert the patient plate cable in low if you are using high, you need to insert the patient plate only in either one of the bipolar out put terminal.
- ON the switch which is given behind the unit.
- Now you can operate the machine with the help of foot switch pressing.
- For bipolar you need to insert the both bipolar pins in the bipolar function out put terminal and can operate.

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The large surface area electrodes are used where the increased output is needed where as small surface area electrodes are used for less output
Insufficient setting (or) low output causes dragging (Increased heat & increased bleeding).

Operate from lower level and slowly increase the intensity to the required level. However after doing some cases, the surgeons can decide the correct intensity of output level by trial and error method only.

Wet the surface of the warts by saline water or any clean water as this will give comfort to the patient and also help to execute the incision & excision prickly because moisturized wet surface will conduct electrodes quickly.

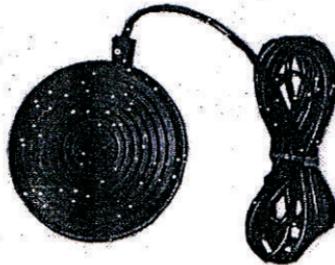
Please note:-

After every application please note that the electrode tip will become carbonized. This carbon deposit must be removed immediately before next attempt otherwise; carbon deposits will reduce the output.

Cleaning of electrodes

A simple method of steam cleaning of electrodes is by turning up the power, holding a folded wet gauzed swab on one hand, and lightly drawing across the electrode between the wet gauges while activating the unit. Spark & steam occurs which effectively clean the electrodes. The active point of the electrode is self sterilizing in use & hence the tissue cut will be sterilized when the electrode is applied. This is the big advantage over scalpel blades.

Foot switch



Do not press the foot switch continuously, allow at least a few seconds. Gap after the procedure. Allow 3 seconds interval while doing repeat cut.

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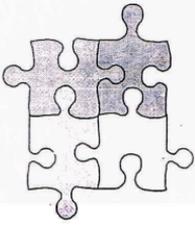


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2. INSTALLATION

2.1 Unpacking and Handlings

Carefully unpack the package and remove Electro skin cautery unit. From its packing material observes for the mechanical damage. Return the instrument if any mechanical defect is observed. Check the unit Performa to ensure receiving of all accessories.

Accessories

1. Monopolar Footswitch
2. Silicon patient plate
3. cable Cord for patient plate
4. Monopolar chuck handles with cable cord and jack pin.
5. Set of Reusable Electrode straight cutting Knife, Needle, Ball, band cutting Knife
6. Bipolar Forceps with cord.

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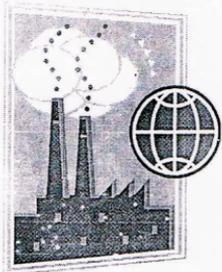


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ENVIRONMENTAL REQUIREMENTS

> Operating room should have adequate number of air conditioning unit to ensure proper low temperature and humidity depending upon surgical specialties.

> If A/C units are not working, air-circulating fans should be directed towards surgical diathermy unit to dissipate the generating heat.

> Use only electrically conductive jelly specifically recommended for radio frequency applications. (550K c/s suitable for other diagnostic applications.)

> Use and avoid spilling of proper solution over and near by the patient plate.

> Check cable connection of silicon plate with unit every day. Loose connections if any should be tightened immediately.

> Refer to safety tips and preventive maintenance notes, enclosed in manual.

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ELECTRO SURGICAL SAFETY TIPS



1. Know which Electro Surgical Unit will be used and how to use it. Consult the instruction Manual.
2. Have all equipment and accessories available and use only accessories designed and approved for the unit.
3. Replace all broken, bent, excessively scratched or otherwise damaged return electrodes.
4. Avoid the use of flammable anesthetics. (A warning to this effect should be evident on the Electro Surgical Unit cover).
5. Replace non-insulated instruments with updated equipment.
6. Check the line cord and plug on the Electro Surgical Unit extension cords should not be used.
7. Do not use any power or accessory cord that is broken, cracked, frayed or taped.
8. Use a conductive gel specifically designed for electro surgery.
9. Have backup equipment available.
10. Always place the return electrode on the patient as close to the electro surgical site as possible. Avoid fatty, bony, hairy, heavily areas and bony protuberances.
11. Avoid placing the return electrode where fluids may pool.
12. Do not slide the return electrode under the patient. The patient should be lifted and placed on the return electrode.
13. If the patient has a pacemaker, the return electrode should be as far from it as possible.

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Before use

Before use, all accessories should be carefully checked for visible signs of damage and defects. All accessories must be subjected to regular technical checks, just as for main equipment. Defective and damaged accessories must, without fail, be taken out of service. The safety aspects of combining electrosurgical equipment and accessories from different manufacturers must be

checked before use by someone competent to do so (e.g. manufacturer, test department). A certificate must be issued. Suitable and tested accessories for a electrosurgical instrument are usually listed in the operating instructions for the equipment or in an accessory data specification applicable to the system.

During Use

1. Use the lowest possible power setting to achieve the desired surgical effect. The need for abnormally high settings indicates something is wrong.
2. Position cords so that they present no tripping hazard. Do not wheel equipment over electrical cords.
3. When active accessory is not in use, remove it from the surgical field and contact with the patient. (With most of today's generators, all outputs are "hot" when one is activated.)
4. Do not coil up active or patient cables - this will increase R.F leakage current and present a potential danger to the patient.
5. Do not spark the active electrode to ground to confirm operation of the unit. This may damage the unit or introduce a patient hazard.
6. Do not active the electro surgical unit for long lengths of time.
7. Avoid "buzzing" forceps and creating a metal-to-metal arc. Touch the forceps with the electrodes and then activate the generator. (This will eliminate the majority of "jolts" to the surgeon.
8. Keep active electrodes clean. Escher build-up will increase resistance, reduce performance and require higher power settings.
9. Do not submerse the active accessory in liquids. This may cause the accessory to activate.

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After use

1. Turn the unit off.
2. Turn all dials to 0.
3. Disconnect all cords by grasping the plug, not the cord, disconnect the power supply cord first.
4. Coil electrical cord when sorting; don't bend or kink them.
5. Do not reuse disposable accessory.
6. Routinely replace all "permanent" cable at appropriate intervals - every three four months, depending upon usage rate.
7. Wash all reusable accessories with the damp cloth. Do not immerse or soak.
8. E.T.O. sterilized accessories if possible this will prolong their life.

Preventive maintenance

• **Generators**

1. Do not use the top of the generator as a table. Fluids can enter the generator.
2. Keep the generator and foot switch clean. Use a damp cloth and mild detergent. Do not use solvents.
3. Coil the power cord when not in use.
4. Unplugged the power cord by grasping the plug, not the cord.
5. Have a qualified Biomedical Engineer inspect the unit at least every six month.
6. If an Electrosurgical unit is dropped, it should not be used until inspected by Biomedical Engineer.

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TROUBLESHOOTING

Introduction

DANGER: UNDER NO CIRCUMSTANCES SHOULD THE CASE OF THE **electro surgical unit** OPENED EXCEPT BY QUALIFIED SERVICE PERSONEL.

THERE IS POTENTIALLY HARMFUL VOLTAGE

INSIDE THE CASE.

NO USER SERVICEBLE PARTS INSIDE THE CASE.

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Date of Installation	Installed By
Model No.	Serial No.
Warranty Period	
Name of Doctor & Address :	

Customer Sign. With Stamps

**Marketed By: Western Surgical
Sign. With Stamps**

No Claim Warranty :

1) Any Defect Throughtout Power Supply

2) Any Physical Damage

3) Under Warranty Standby Unit Not Provide

4) Under Warranty When Company Send Parts or Machine we Imidiat send to Buyer.

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OUR OTHER PRODUCTS RANGE



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