

Electro-Son Brochure



- Easy to use Touch screen display. Simply select the function and all the parameters adjust automatically. It is ready for operation immediately after instrument connection.
- The advanced touch screen display is a high definition, 65,536 color, 4.3" TFT, and LED backlight.
- Once a preset function is selected, the unit automatically controls power levels within range for that function.
- Several cutting levels, white coagulation, spray coagulation, several blend levels, and fulguration activation for all blend and spray coagulation levels.
- Monopolar and bipolar high frequency generator.
- Unlike monopolar, the bipolar output provides most of its power at lower impedance and power drops sharply as impedance is increased.
- Variable crest factor depending on function.
- The Electro - Son has eight built in presets. Power and blend levels may be adjusted manually.
- Isolated and capacitive coupled design directs current return to the generator significantly reducing risks of alternate site burns.
- Input voltage can be between 90-264 VAC while frequency may be 47-63 Hz; 440 Hz. This unit will operate under variable power conditions while power output is constant.
- High power density, power efficient, over 100 Watt switching power supply delivers ample power.
- Durable, powder coated, solid aluminum chassis.
- Longer operating time thanks to an efficient circuit and a cooling system.
- Single on / off power switch.
- Visual operating alarm with variable volume and on - screen tone control audible indicator.
- Touch screen brightness control.
- Hospital grade power cord.
- Easily removable accessories thanks to quick disconnects for foot switch, power cord, electrosurgery handpiece, indifferent plate, and bipolar handpiece.
- Fast and always ready, just plug in, select the desired function and operate. No warm up time needed.
- Solid-state technology.
- Superior Engler service and warranty.
- Military grade cables.
- Made in the USA.

Electro-Son Specifications

Power: ~140 watts nominal
Duty Cycle: 30 seconds on / 30 seconds off
Crest factor: 1.37 – 10 depending on function
Operating frequency (Hz): .72 - 1.4 MHz auto - tuned
Monopolar voltage Vpk-pk: 300 - 2200
Bipolar voltage Vpk-pk: 150 - 1300
Touch screen display: 65,536 colors, 4.3" TFT, and LED backlight
Functions:
CUT HI: pure cutting, maximum power
CUT MED: pure cutting, medium power
CUT LOW: pure cutting, low power
COAG WHITE: White coagulation, desiccation (very low power, low crest factor, 100% duty cycle)
BLEND 1: least coagulation / most cutting
BLEND 2: more coagulation / medium cutting
BLEND 3: most coagulation / least cutting
COAG SPRAY: Maximum homeostasis (high crest factor, maximum power, minimum duty cycle)
FULGURATION ON (BLEND 1, BLEND 2, BLEND 3, COAG SPRAY): highly damped waveform, The current is spread over the tissue area larger than the tip of electrode.
FULGURATION OFF (BLEND 1, BLEND 2, BLEND 3, COAG SPRAY): simulated spark gap, deeper penetration
Amplitude: 10% to 100% cut Blend Ratio 10% - 100%
10% = Min. cut, max. coagulation. 100% = Pure cut
Pure Cut waveform is continuous, unmodulated, and undamped
Coagulation Spray waveform current is interrupted, modulated, and can be damped
Bipolar
POWER: 1-100, 100% maximum power
BLEND: 10-100 10 = MAXIMUM COAGUALATION. 100 = MAXIMUM CUTTING

Dimensions:
Length: 10" (25.4 cm)
Depth: 6" (15.24cm)
Height: 6" (15.24cm)
Weight: 10 lbs., (4.5 Kg.) Shipping weight, 12 lbs. (5.5 Kg.)

Accessories include Forceps, handpiece, an assortment of tips and indifferent plate

Accessories, colors and other hardware may change without notice.



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