

Electro-Son Brochure



- Autoclavable handpiece, cord, connector, tips, and forceps.
- 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 saves and 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.
- 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
Engler Engineering reserves the right to select the tips included with the unit.
Accessories, colors and other hardware may change without notice.



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