SURGITRON® EMC

Radiofrequency Energy Source

The PRECISION you require with the VERSATILITY you need





Surgitron® FFPF EMC Energy Sources

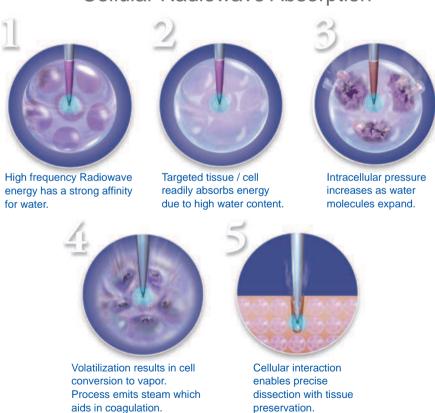
The Surgitron® EMC is a highly dependable energy source that cuts and coagulates soft tissue using high frequency radiowave technology.

The EMC operates at 3.8 MHz, enabling a precise incision with significantly less heat and resultant thermal damage than typically found with conventional electrosurgery. Since tissue stays cooler with ellman[®] Radiosurgery[®], you can feel confident that you are minimizing cellular destruction along the incision path.¹²

In addition to cut mode (fully filtered), the EMC offers three other waveforms providing more hemostatic tissue effects. Cut/Coag mode uses a fully rectified waveform. Coag mode uses a partially rectified waveform. The fourth waveform is fulguration for intentional tissue damage.

How Our Patented Radiowave Technology Works

Cellular Radiowave Absorption



Distinct Benefits for Your Practice and Your Patients

- Precision create precise incisions in a variety of tissue structures³
- Versatility no other energy-based technology has the surgical versatility of ellman^{®2}
- Quick Recovery with less tissue destruction, healing is hastened and your patients can recover quickly⁴
- Decreased Post-Operative Pain radiowave surgery causes less trauma⁵
- Decreased Post-Surgical Edema low temperature equals less tissue destruction⁶
- Less Burning or Charring of Tissue radiowave surgery minimizes burning of tissue, unlike laser or electrosurgery¹
- Less Smoke and Plume Allows better visualization while reducing odor

Features

- Intuitive, user-friendly design
- Cost-effective reusable handpieces
- Convenient reusable antenna plate that does not require skin contact
- Footswitch activated with optional fingerswitch control





Four Distinct Waveforms for Optimum Results

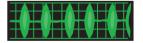
1. Fully Filtered (Cut)



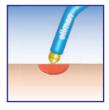
- Micro-smooth cutting
- Negligible lateral heat
- Minimal cellular destruction
- Best cosmetic results. Fastest healing 4.6
- Ideal for skin incision and biopsy



3. Partially Rectified (Coag)



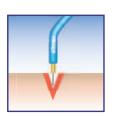
- Coagulation / Shrinkage
- Hemostasis with controlled penetration
- Ideal for cutting with hemostatic control



2. Fully Rectified (Cut/Coag)



- · Cutting with hemostasis
- Ideal for sub-cutaneous tissue dissection and planing. Especially useful in vascular areas while producing minimal amounts of lateral heat and tissue damage



4. Fulguration



- · Maximum penetration and hemostasis
- Ideal for intentional tissue destruction



Surgitron® EMC Specifications

Dimensions Output frequency

Height: 6.25 inches 3.8 MHz

Width: 8 inches

Depth: 9 inches **Line Voltage**

Weight: 9.25 lbs 110/120/220/240 volts

Output Power

Line Frequency RMS: 90 Watts 50 - 60 Hz

Peak: 140 Watts

MiDiBen Medical Distribuidor exclusivo en México (81) 1001 7073 info@midiben.com

Clinical Citations

- 1. Olivar, A.C., et al, Ann Clin Lab Sci. (1999); 29(4): p281-5.
- 2. Data on file.
- 3. Niamtu, J., Chapter 4B, "Radiowave Surgery in Oral and Maxillofacial Surgery", in Bell, W., et al, *Distraction Osteogenesis of the* Facial Skeleton, 2007, p30-37.
- 4. Bridenstine, J.B., Derm Surgery (1998); vol 24, p397-400.
- 5. Ericsson, E., et al, The Laryngoscope (2007); vol 117, p654.
- 6. Aferzon, M, Derm Surgery (2002); vol 28, p735-738.
- 7. Eremia, S.,et al, Dermatol Surg (2001); 27: p1052-1054.



