

SURGITRON® EMC

Radiofrequency Energy Source

The **PRECISION** you require
with the **VERSATILITY** you need



ellman®
Experts in Precision Surgery

Surgitron® FFPF EMC Energy Sources

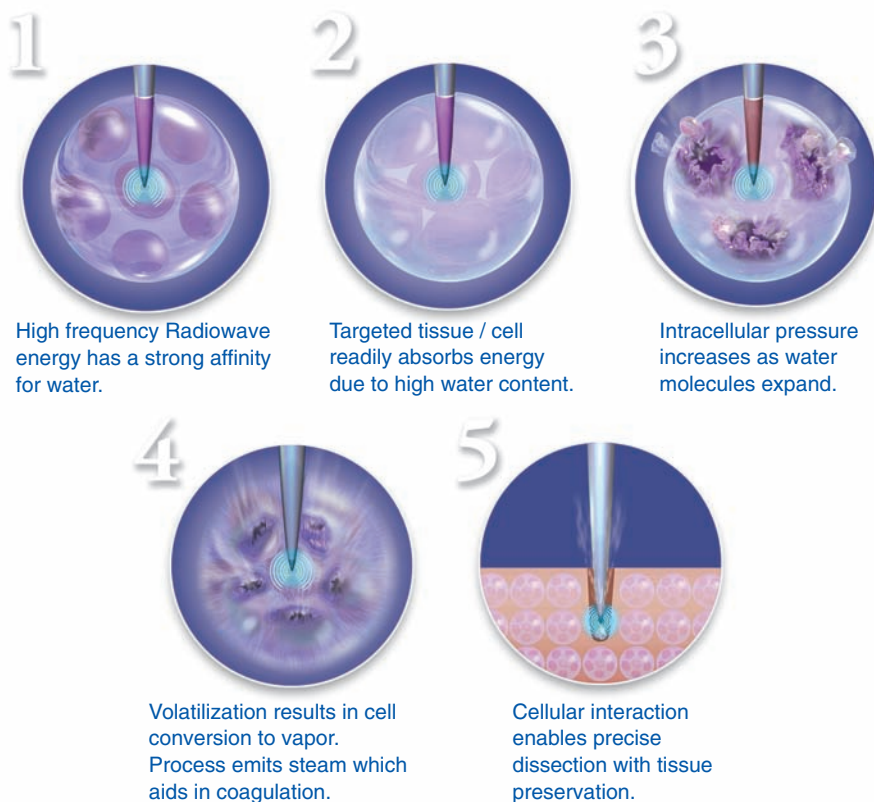
The Surgitron® EMC is a highly dependable energy source that cuts and coagulates soft tissue using high frequency radiowave technology.

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.^{1,2}

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 visualization⁷ 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



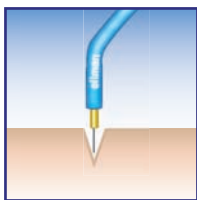
Surgitron® F.F.P.F. EMC
3.8 MHz

Four Distinct Waveforms for Optimum Results

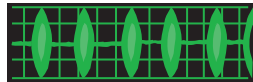
1. Fully Filtered (Cut)



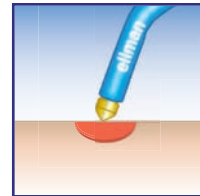
- Micro-smooth cutting
- Negligible lateral heat
- Minimal cellular destruction
- Best cosmetic results. Fastest healing^{4,6}
- Ideal for skin incision and biopsy



3. Partially Rectified (Coag)



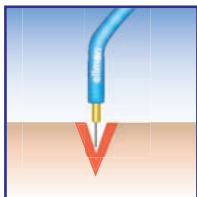
- Coagulation / Shrinkage
- Hemostasis with controlled penetration
- Ideal for cutting with hemostatic control



2. Fully Rectified (Cut/Coag)



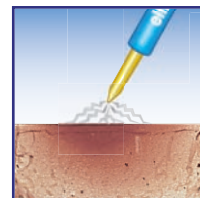
- Cutting with hemostasis
- Ideal for sub-cutaneous tissue dissection and planing. Especially useful in vascular areas while producing minimal amounts of lateral heat and tissue damage



4. Fulguration



- Maximum penetration and hemostasis
- Ideal for intentional tissue destruction



Surgitron® EMC Specifications

Dimensions

Height: 6.25 inches

Width: 8 inches

Depth: 9 inches

Weight: 9.25 lbs

Output frequency

3.8 MHz

Line Voltage

110/120/220/240 volts

Output Power

RMS: 90 Watts

Peak: 140 Watts

Line Frequency

50 - 60 Hz



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.

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