RF 3000™ Generator

Designed for complete predictable thermal ablation

- **200W capacity** promotes rapid, efficient ablation of large volumes of tissue.
- **Easy-to-read,** back lit displays and audible signal are designed to allow constant assessment of procedure progress.
- Because ablation algorithms and generator inputs are manual, there is **no need for generator software updates** if/when probe algorithms change.

The RF 3000 Generator uses a direct measurement of impedance feedback from the target tissue to monitor the course of tissue ablation

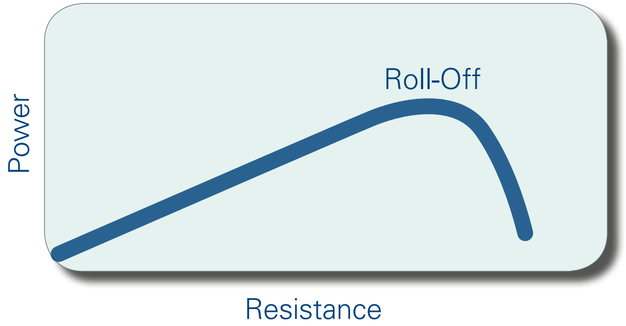
Initial tissue impedance is measured prior to application and is typically within the range of 40 to 80 ohms (Ω), illumination three bars on the front panel of the RF 3000 Generator.

Impedance rise is indicated by an increase in ohms (Ω) and a sequential illumination of the bars on the front panel, signaling cellular destruction and the completion of a thermal lesion.

UPN	Order Number	Description
M001262200	26-220	200W Radiofrequency Generator

The Use of Impedance as a Procedural Endpoint

- **Impedance is a physical phenomenon** that is not dependent upon calculations or measurement systems.
- **Time and or temperature based ablation systems** may not fully account for variability in lesion composition.



- Application of electrical current results in tissue heating above 50°C.
- Proteins denature and tissue desiccates, increasing tissue's impedance *(resistance to conduct electrical current).*
- More power is applied to overcome the rise in electrical resistance.
- Once thermal coagulation and necrosis is achieved, the impedance will rise and a corresponding drop in delivered power results (Roll-Off Indication), indicating the completion of a thermal ablation.

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RADIOFREQUENCY ABLATION

SIMPLICITY AND PREDICTABILITY IN SOFT TISSUE ABLATION

Boston Scientific is the choice for Percutaneous and Open Radiofrequency Ablation

- Utilizes **impedance as a procedural endpoint**. As proteins denature and tissue desiccates, the resistance to the passage of electrical current (impedance) increases.
- Probes **do not require the use of saline or cooling** mechanisms.
- Umbrella shaped tine arrays are designed for **secure anchoring** and intended to provide **accurate and predictable ablation profiles.**

Probe Family

Probe Selection Guide

Procedural Need/Intent	LeVeen™ Needle Electronics	LeVeen SuperSlim™ Electrodes	LeVeen CoAccess™ Electrodes	LeVeen Soloist™ Single Needle Electrodes
Stable probe array anchoring within tissue	✓	✓	✓	
Short, 12 cm cannula length for added CT Gantry Clearance	✓			
Less invasive, small diameter cannula		✓		
Coaxial access cannula for preprocedural planning and compound ablations			✓	
Ability to biopsy through the same introducer cannula			✓	
Single needle electrode for small diameter ablation zones				✓

LeVeen Needle and LeVeen SuperSlim Needle Electrodes

- **Variety of array sizes** (3.0-5.0 cm) **and cannula lengths** (12,15, 25 cm) to provide more flexibility to treat a variety of lesion sizes and depths.
- **Small diameter cannula** intended to minimize invasiveness and bleeding risks (available on LeVeen SuperSlim Needle Electrode).

LeVeen Needle Electrodes

UPN	Order Number	Diameter (cm)	Length (cm)
M001262160	26-216	5.0	15
M001262170	26-217	5.0	25
M001262130	26-213	4.0	15
M001262310	26-231	4.0	25
M001262020	26-202	3.5	12
M001262030	26-303	3.5	15
M001262150	26-215	3.5	25
M001262040	26-204	3.0	12
M001262050	26-205	3.0	15

LeVeen SuperSlim Needle Electrodes

UPN	Order Number	Diameter (cm)	Length (cm)
M001262290	26-229	3.0	25
M001262280	26-228	3.0	15
M001262270	26-227	2.0	25
M001262260	26-226	2.0	15

5.0 cm LeVeen

2.0 cm LeVeen SuperSlim

LeVeen CoAccess Needle Electrodes

- **Coaxial system with insulated introducer set** for pre-procedural lesion mapping and cannula placement prior to ablation(s). Excellent choice for compound ablations.
- **Introducer set and cannula** compatible with most soft-tissue biopsy devices.
- **Umbrella shaped array with sharpened tines** to promote lesion penetration and stable probe positioning.

UPN	Order Number	Diameter (cm)	Length (cm)
M001262220	26-222	3.0	15
M001262230	26-223	3.5	15
M001262240	26-224	4.0	15
M001262250	26-225	CoAccess Introducer	

LeVeen CoAccess Introducer

3.0 cm LeVeen

LeVeen Soloist™ Single Needle Electrode

- **Single needle electrode** for small diameter ablations (approximately 1.5 x 1.0 cm).
- **Trocar tip** to access small and difficult-to-treat lesions.
- **1 cm shaft markings** intended to aid in accuracy of needle placement.

UPN	Order Number	Diameter (cm)	Length (cm)
M001262500	26-250	1.68	18

LeVeen Soloist