Ordering information

Cardioblate® 68000 Generator
CATALOG CODE **68000**
1 Each Reusable

Cardioblate® Gemini™-s /Cardioblate® MAPS Kit
CATALOG CODE: **SGEMPACK**
1 Each Single Use

Cardioblate® MAPS Device
CATALOG CODE **49205**
1 Each Single Use

Detect® Surgical Pacing and Mapping Tool
CATALOG CODE **10650**
5 Each Single Use

Cardioblate® Gemini™-s Surgical Ablation Device
CATALOG CODE: **49260**
1 Each Single Use

Cardioblate® Gemini™-x Surgical Ablation Device
CATALOG CODE: **49261**
1 Each Single Use

Cardioblate® Gemini™-x Navigator™ Kit
CATALOG CODE: **GEMNAV**
1 Each Single Use

Cardioblate® Gemini™-x/ Navigator™/ Cardioblate® MAPS Kit
CATALOG CODE **XGEMPACK**
1 Each Single Use

Cardioblate® Navigator™ Tissue Dissector
CATALOG CODE **68015**
1 Each Single Use

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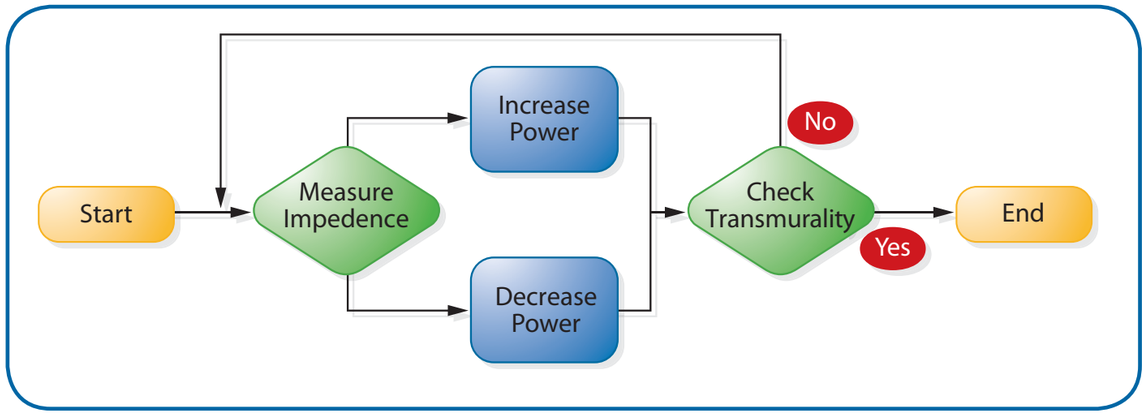
Medtronic

Cardioblate® 68000 Generator

SURGICAL ABLATION SYSTEM

Innovating for life.



Customized Energy Delivery

- The bipolar algorithm incorporates a power titration methodology that allows the generator to customize energy delivery based on tissue requirements.
- Closed-loop feedback enables both increases and decreases in power depending upon the changes in the tissue impedance characteristics.

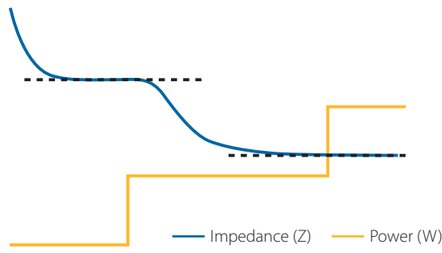
Dose-Response System

- The generator's dose-response system monitors the tissue's impedance and adjusts the amount of energy delivered to create transmural lesions and to not over- or under-ablate.
- Tissue impedance is assessed when energy delivery begins. This tissue impedance is measured millions of times per second throughout the ablation.

Both the power titration and saline irrigation provided by the Cardioblate® Surgical Ablation System reduce overheating at the tissue surface, allowing the energy to penetrate deeper into the tissue to ensure a full-thickness lesion.

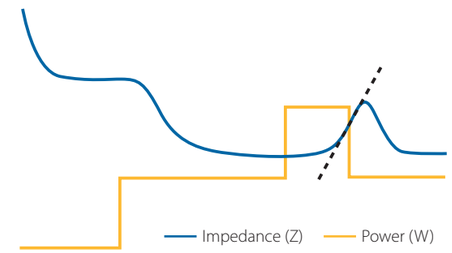
The following examples detail how the generator's algorithm works in a dose-response fashion. Each ablation will be unique depending on the tissue's requirements.

Dose-Response / Plateau



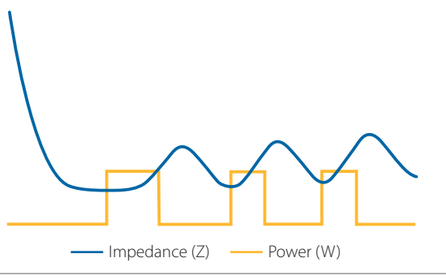
In this example, tissue impedance drops as the tissue heats and cells die (as the intracellular fluid moves into the extracellular space). At an impedance plateau, the generator increases power and looks for further changes in impedance. If no further change in impedance is seen, the generator holds power until transmurality is declared.

Dose-Response / Rise



This example demonstrates that as tissue impedance rises, power is decreased. At the beginning of the ablation, impedance drops as the tissue heats and cells die. Power is increased at the impedance plateau, and the generator looks for further changes in impedance. Because an impedance rise is detected, the generator decreases power to prevent an impedance rise and potential over-ablation.

Dose-Response / Oscillation



In this situation, the generator adjusts the power based on the increases and decreases in tissue impedance. The magnitude of the power decrease is related to the magnitude of the impedance rise. The algorithm is customizing the power delivery to ensure transmurality is reached.

When impedance criteria are met, the Cardioblate® 68000 Generator alerts the surgeon that a transmural lesion has been created.

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Cardioblate® 68000 Generator
For a list of Indications, Contraindications, Warnings, Precautions and Adverse Events, please refer to the Instructions for Use provided with the product or contact your local Medtronic representative.