



Isolator® Synergy™ Ablation System

*The Only FDA-Approved
Surgical Device to Treat
Atrial Fibrillation During
Heart Surgery*

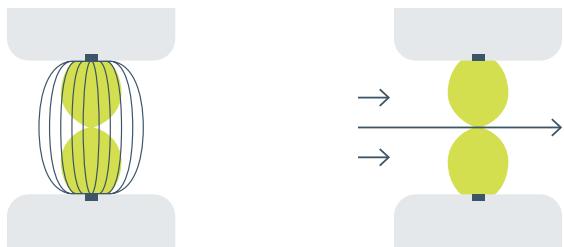
AtriCure

Why the Isolator Synergy Ablation System by AtriCure?

1 / UNIQUE LESION FORMATION

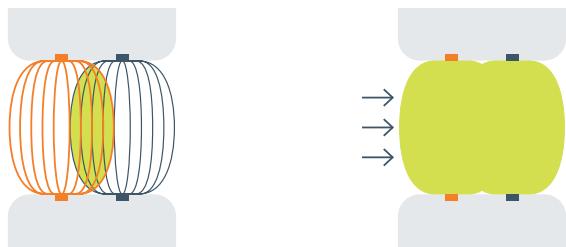
A lesion is only as strong as its weakest link, or gap. Traditional radio frequency creates a lesion from the surface toward the middle, resulting in an hourglass-shaped lesion. AtriCure's Isolator Synergy Bipolar clamp uses dual electrodes with alternating and overlapping fields to form a lesion from the middle to the surface. The result is a more robust and wider column-shaped lesion with transmurality.

FIGURE 1. CONVENTIONAL BIPOLAR



With conventional bipolar (one pair of electrodes), electrical signals can escape through the weakness in the lesion.

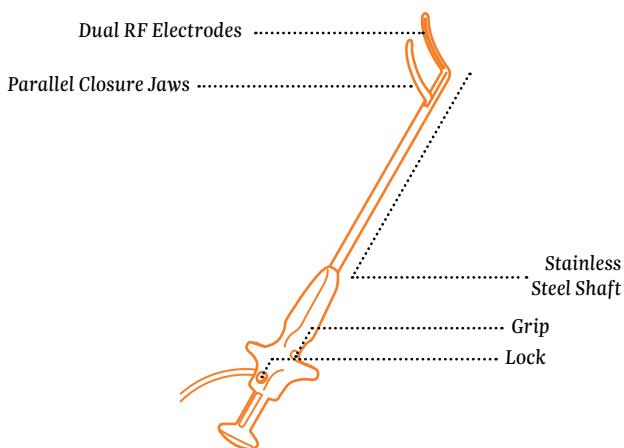
FIGURE 2. ISOLATOR SYNERGY CLAMP



The Synergy clamp uses two pairs of electrodes, creating a more robust lesion.

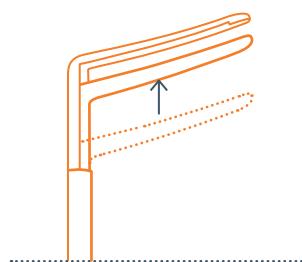
2 / CONSISTENT TISSUE COMPRESSION

FIGURE 3. ISOLATOR SYNERGY ABLATION SYSTEM



Complete and consistent tissue contact leads to even and consistent energy delivery. Too little pressure and contact leads to weak energy delivery and incomplete lesions. Too much pressure and contact leads to overdosing of energy and perforations. Synergy's stainless steel shaft and jaws maintain consistent tissue pressure and precise electrode alignment across the entire length of the jaws. Consistent pressure and precise alignment ensures a column-shaped lesion regardless of where the tissue is positioned within the jaws.

FIGURE 4. PARALLEL CLOSURE JAWS

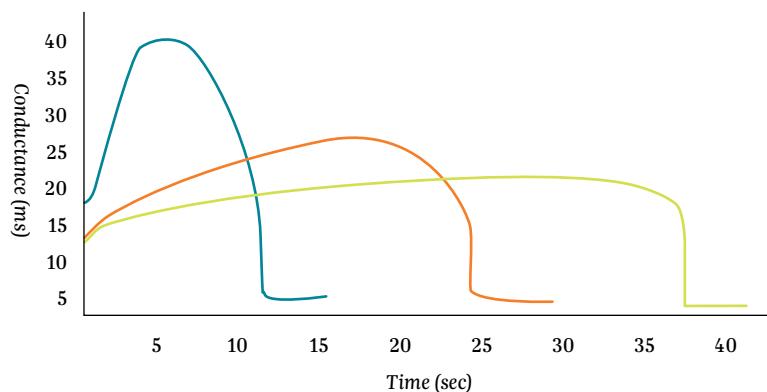


Synergy's stainless steel shaft and jaws maintain consistent tissue pressure and precise electrode alignment across the entire length of the jaws.

3 / EFFICIENT ENERGY DELIVERY

A lesion must be custom made to the tissue. The Synergy Bipolar device uses a dynamic monitoring algorithm that measures the tissues' response to radio frequency delivery 50 times per second. The system responds to specific tissue properties and adjusts the energy output and time accordingly. The result is a custom-made column-shaped lesion specific to a tissue's length, width and composition.

FIGURE 5.
CONTINUOUS MONITORING = CUSTOMIZED REAL-TIME ABLATIONS

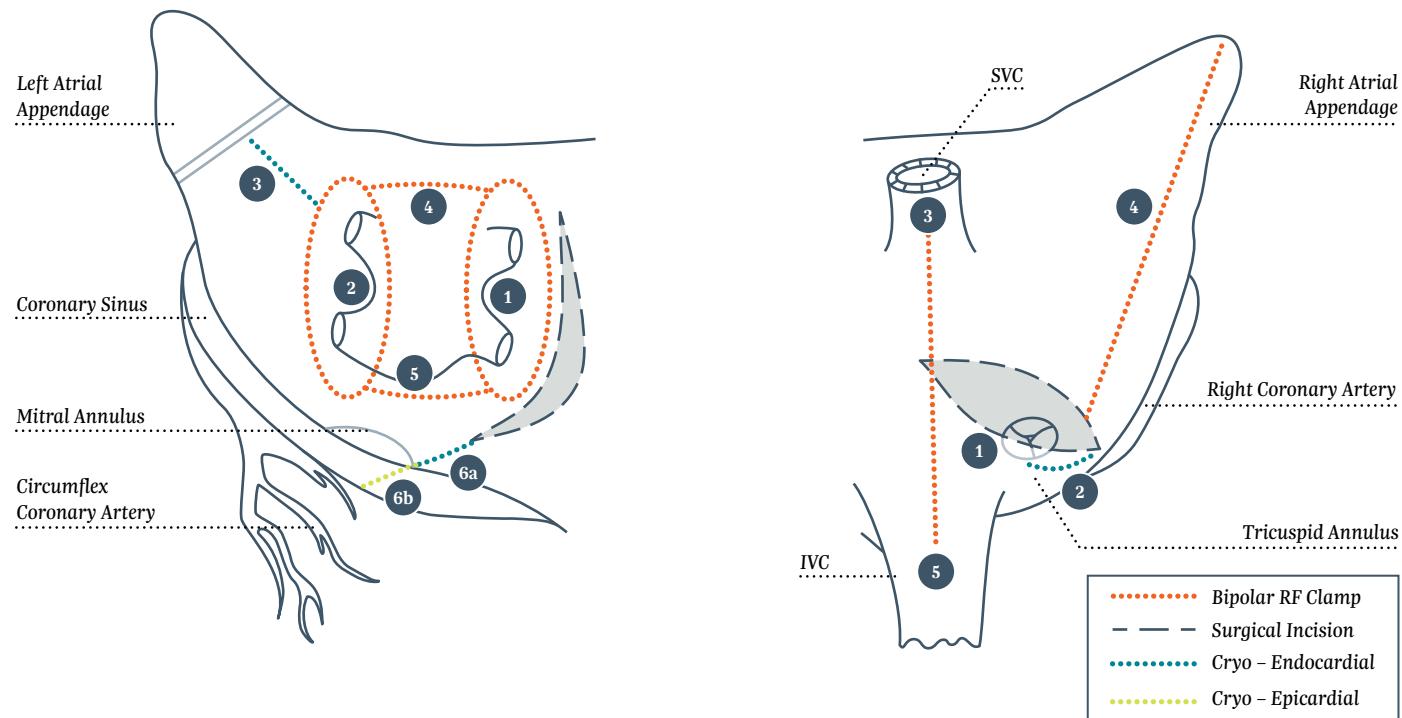


No two ablations are alike. This graph displays different ablation graphs of power and time based on the specific requirements of individual tissue composition and thickness.

Maze IV Lesion Set Checklist

- Proven lesion pattern that provides dependable and predictable outcomes
- Proven ablation technology that provides reproducible robust lesions

FIGURE 6. LESIONS FOR MAZE IV PER ABLATE PROTOCOL¹



MAZE	LESION ORDER	LESION
LEFT ATRIAL LESION SET		
LAL BOX	1	Right antral PV isolation (right PVI)
PVI	2	Left antral PV isolation (left PVI)
	3	Connecting lesion from left atrial appendage to the left superior PVI
		Left atrial appendage exclusion
	4	Superior connecting line (Right PVI to Left PVI, "Roof" line)
	5	Inferior connecting line (Right PVI to Left PVI, "Floor" line)
	6a	Mitral isthmus
	6b	Coronary sinus
RIGHT ATRIAL LESION SET		
	1	Vertical right atriotomy ("T" incision)
	2	Tricuspid annulus (2 o'clock)
	3	SVC
	4	Right atrial appendage
	5	IVC

1. Approved under PMA P100046.

AtriCure Synergy Ablation System

Device	Product Code
Isolator Synergy Clamp (long and short)	OLL2/OSL2
Ablation and Sensing Unit (ASU)	ASU2
AtriCure Switch Matrix	ASB3

Other Devices Use to Complete Maze IV Lesions

Device	Product Code
cryoICE® Cryoablation Probes	CRYO2/CRYO3
Isolator Multifunctional Pen, 19 cm	MAX1

U.S. Indications: The AtriCure Synergy Ablation System is intended to ablate cardiac tissue for the treatment of persistent atrial fibrillation (sustained beyond seven days, or lasting less than seven days but necessitating pharmacologic or electrical cardioversion) or longstanding persistent atrial fibrillation (continuous atrial fibrillation of greater than one year duration) in patients who are undergoing open concomitant coronary artery bypass grafting and/or valve replacement or repair.

AtriCure's cryoICE cryoablation probes when used with the AtriCure cryoICE Box Cryosurgical Module (ACM) are indicated for the cryosurgical treatment of cardiac arrhythmias.

The Isolator Transpolar Pen is a sterile, single use electrosurgery device intended to ablate cardiac tissue during cardiac surgery using radiofrequency (RF) energy when connected directly to the ASU or to the ASU Source Switch in Ablation mode. When the Pen is connected to the ASU Source Switch in Auxiliary mode, it may be used for temporary cardiac sensing, recording, stimulation, and temporary pacing during the evaluation of cardiac arrhythmias.

Please review the Instructions for Use for a complete listing of contraindications, warnings, precautions and potential adverse events prior to using these devices.

Rx Only.

Learn more about the Maze IV procedure with the Isolator Synergy Ablation System.

Visit www.AtriCure.com/Healthcare-Professionals/Education-Training

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