

Isolator® Synergy™ Ablation System



*Synergy Technology
Customized For
Your Approach*

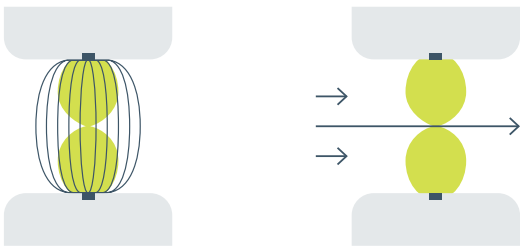
AtriCure

Why the Isolator Synergy Ablation System by AtriCure?

1 / UNIQUE LESION FORMATION

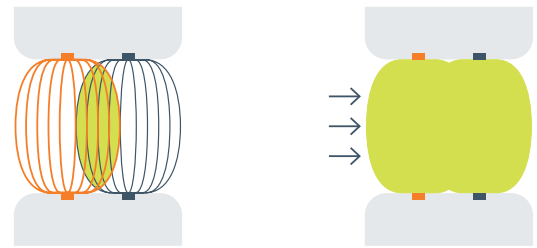
A lesion is only as strong as its weakest link, or gap. Traditional radio frequency creates a lesion from the surface toward the middle, resulting in an hourglass-shaped lesion. AtriCure's Isolator Synergy Bipolar clamp uses dual electrodes with alternating and overlapping fields to form a lesion from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

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

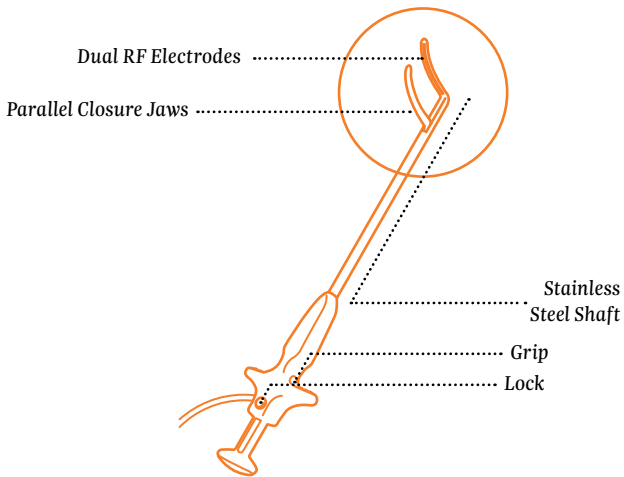


The Synergy clamp uses two pairs of electrodes, creating a more robust lesion.

2 / CONSISTENT TISSUE COMPRESSION

FIGURE 3. ISOLATOR SYNERGY ABLATION SYSTEM

The choice of both right or left curved jaws and easy attach Glidepath™ tape for guided maneuverability in tight cardiac anatomy.

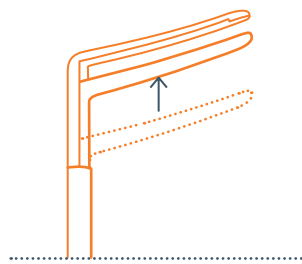


3 / EFFICIENT ENERGY DELIVERY

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.

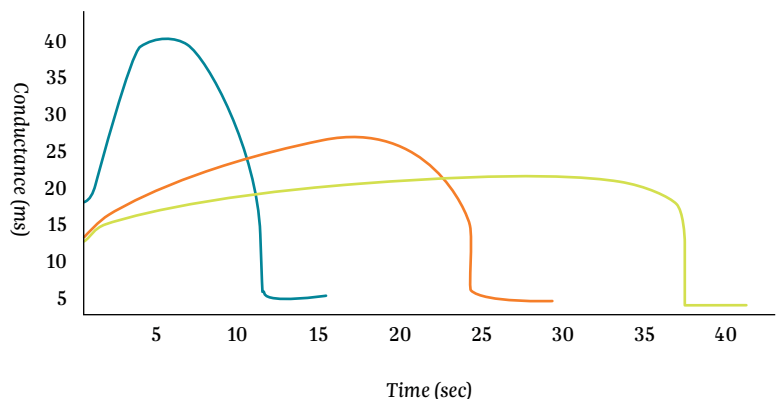
Complete and consistent tissue contact leads to even and consistent energy delivery. Too little pressure and contact leads to weak energy delivery and incomplete lesions. Too much pressure and contact leads to overdosing of energy and perforations. Synergy's stainless steel shaft and jaws maintain consistent 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.

FIGURE 5. CONTINUOUS MONITORING = CUSTOMIZED REAL-TIME ABLATIONS

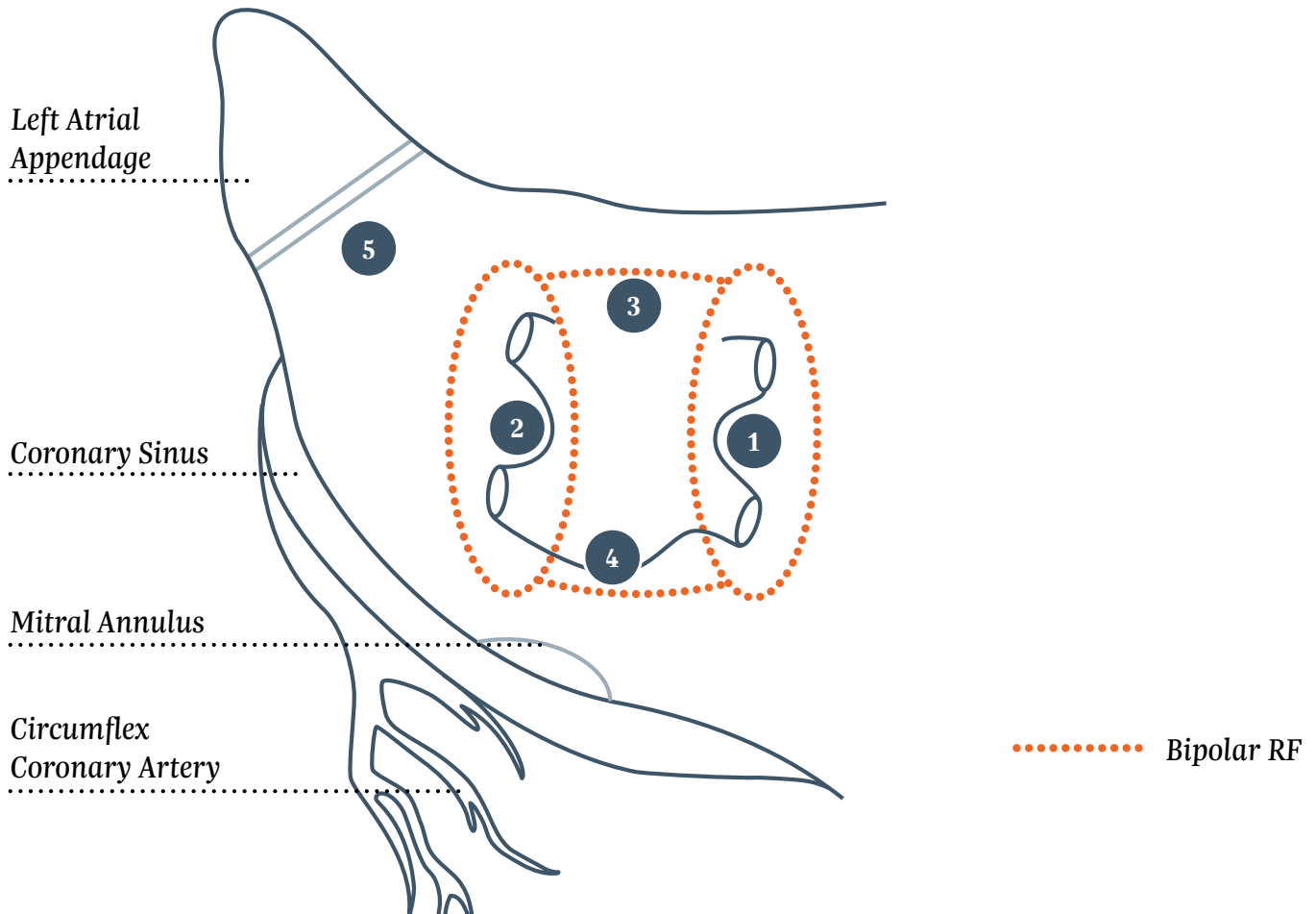


No two ablations are alike. This graph displays different ablation graphs of power and time based on the specific requirements of individual tissue composition and thickness.

Hybrid Total Thoracoscopic Ablation

EPICARDIAL ABLATION LESION SET

FIGURE 6. ACCORDING TO CEASE-AF STUDY PROTOCOL¹



LESION REF.	LESION DESCRIPTION
LEFT ATRIAL LESION SET	
1	Right antral PV isolation (right PVI)
2	Left antral PV isolation (left PVI)
3	Superior connecting lesion (Right PVI to Left PVI, "Roof" line)
4	Inferior connecting line (Right PVI to Left PVI, "Floor" line)
5	Left Atrial Appendage exclusion

1. Nicolas Doll, et al. Efficacy and safety of hybrid epicardial and endocardial ablation versus endocardial ablation in patients with persistent and longstanding persistent atrial fibrillation: a randomised, controlled trial, *eClinicalMedicine*, Volume 61, 2023, 102052, ISSN 2589-5370, <https://doi.org/10.1016/j.eclinm.2023.102052>.

AtriCure Synergy Ablation System	
Device	Product Code
Isolator Synergy Clamp - Left Curve*	EML2
Isolator Synergy Clamp - Right Curve*	EMR2
Ablation and Sensing Unit (ASU)	ASU2
AtriCure Switch Matrix	ASB3

*Glidepath Tape included

Other Devices Use to Complete Total Thoracoscopic Ablation	
Device	Product Code
CodeCoolrail Linear Pen	MCR1
Isolator Multifunctional Long Pen	MAX5
Lumitip Dissector	MID1
Glidepath Dissector	GDP1

AtriCure Left Atrial Appendage Exclusion Devices		
Device		Product Code
AtriClip PRO2	35 mm	PRO235
	40 mm	PRO240
	45 mm	PRO245
	50 mm	PRO250

The AtriCure Bipolar (Transpolar) System is indicated for ablation and coagulation of soft tissue in general, ENT, thoracic, urological, gynecological surgical procedures and ablation of cardiac tissue during surgery including pulmonary vein isolation and atrial connecting lesions for the Maze procedure for the treatment of cardiac arrhythmias, including atrial fibrillation.

The Coolrail® linear pen is a sterile, single use electrosurgery device intended to ablate cardiac tissue using radiofrequency (RF) energy.

The Isolator™ 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 ASB3 in Ablation mode. The Isolator™ pen may be used for temporary cardiac pacing, sensing, recording, and stimulation during the evaluation of cardiac arrhythmias during surgery when connected to a temporary external cardiac pacemaker or recording device.

The AtriCure Dissector is intended to dissect cardiac tissue during cardiothoracic surgical procedures using AtriCure instrumentation.

The AtriClip™ LAA Exclusion System is indicated for the occlusion of the heart's left atrial appendage.

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

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