

# Isolator® Synergy™ Ablation System



*Synergy Technology  
Customized For  
Your Approach*

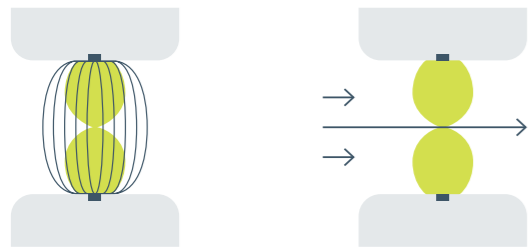
**AtriCure**

# 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 transmural.

FIGURE 1. CONVENTIONAL BIPOLAR

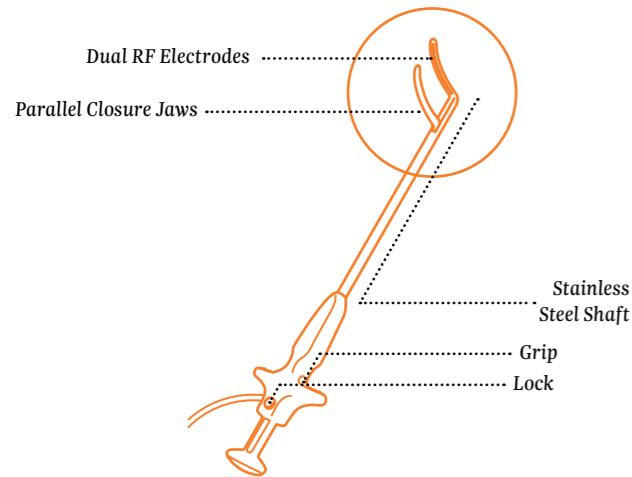


With conventional bipolar (one pair of electrodes), electrical signals can escape through the weakness in the lesion.

## 2 / CONSISTENT TISSUE COMPRESSION

FIGURE 3. ISOLATOR SYNERGY ABLATION SYSTEM

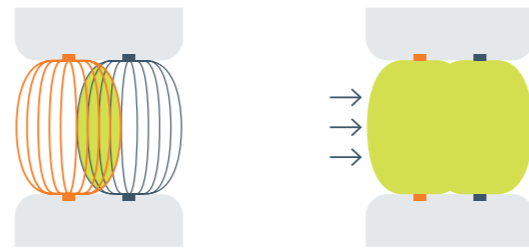
The choice of both right or left curved jaws and easy attach Glidepath™ tape for guided maneuverability in tight cardiac anatomy.



## 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.

FIGURE 2. ISOLATOR SYNERGY CLAMP



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

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

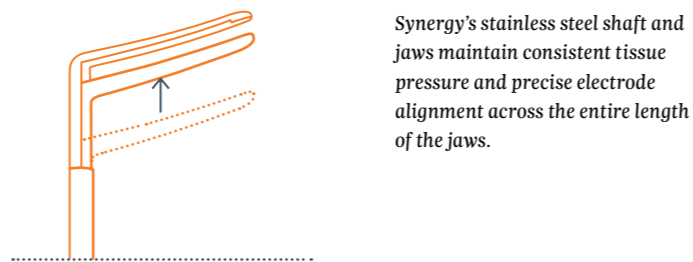
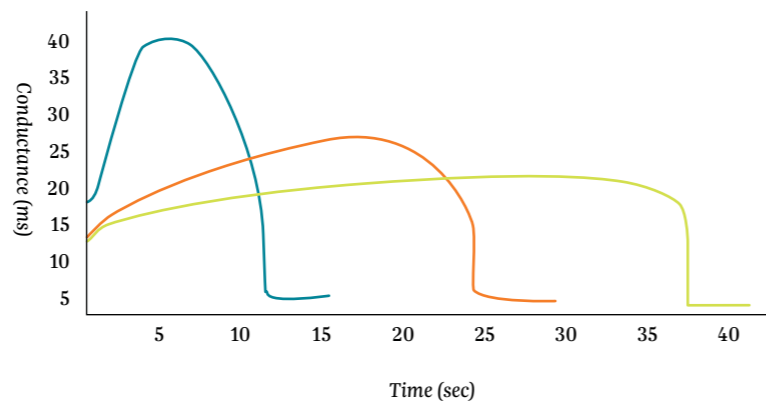


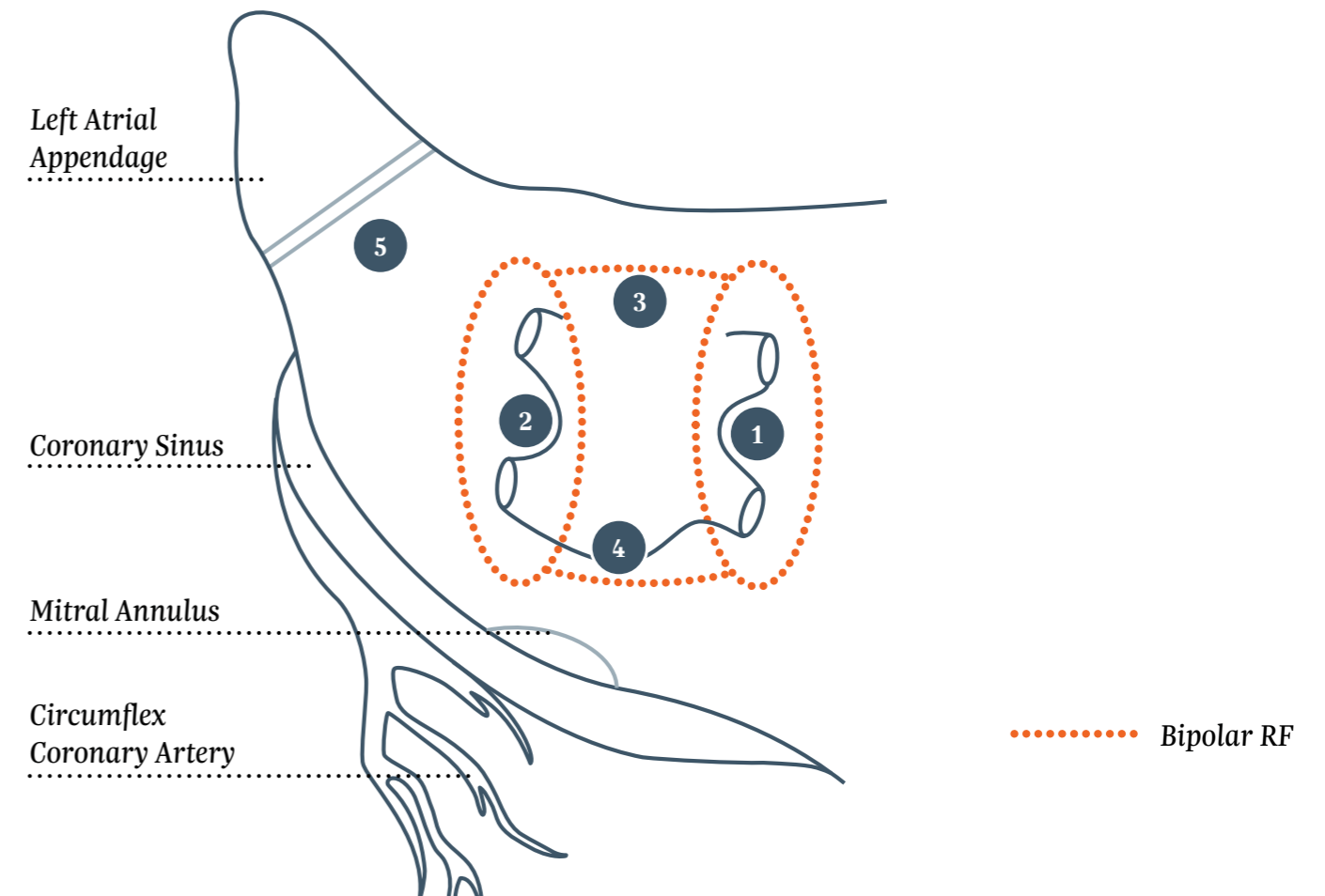
FIGURE 5. CONTINUOUS MONITORING = CUSTOMIZED REAL-TIME ABLATIONS



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 PROTOCOL<sup>1</sup>



| LESION REF.                   | LESION DESCRIPTION                                              |
|-------------------------------|-----------------------------------------------------------------|
| <b>LEFT ATRIAL LESION SET</b> |                                                                 |
| 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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