

INTRODUCING THE DIAMONDTEMP™ ABLATION SYSTEM WITH REALTEMP™



REAL-TIME, TEMPERATURE- CONTROLLED ABLATION

DiamondTemp™ Ablation System

The DiamondTemp Ablation System is the only real-time, low-flow, open-irrigated, temperature-controlled RF catheter that creates safe and effective cardiac lesions via quick conduction of thermal energy enabled by industrial diamonds.

The DiamondTemp Ablation Catheter™:

- Is intuitive and easy to use¹
- Has a 7.5 Fr, saline-irrigated, 4.1 mm tip
- Includes customized offerings:
 - Small and large curve configurations
 - Unidirectional and bidirectional models



1 REAL-TIME TEMPERATURE SENSING

- Six thermocouples directly measure tissue surface temperature every 20 milliseconds to enable constant feedback.
- The catheter and the RF generator are engaged in a continuous biofeedback loop, enabling the generator to modulate power to deliver RF energy to achieve optimal therapeutic temperature in real time.



- Use temperature control to power therapeutic temperature for ablation in real time.²

2 EXCLUSIVE DIAMOND- ENABLED TIP COOLING

- 7.5 Fr ablation catheter tip includes industrial-grade diamonds, enabling rapid cooling due to their high thermal diffusivity property.



- Create transmural lesions and visualize clear, high-quality EGMs with a low-flow irrigation rate.³

3 LOCALIZED HIGH- RESOLUTION EGM

- 4.1 mm catheter tip segment consists of a dual composite tip electrode, 2 ring electrodes, and 6 irrigation ports.
- Split-tip electrode is electrically isolated to allow for clear, high-resolution EGM sensing.



- Align the center of ablation with the center of mapping with a close bipolar catheter tip configuration.⁴

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References

¹ Medtronic data on file.

² Iwasawa J, Koruth JS, Petru J, et al. Temperature-Controlled Radiofrequency Ablation for Pulmonary Vein Isolation in Patients With Atrial Fibrillation. *J Am Coll Cardiol*. August 1, 2017;70(5):542-553.

³ Neuzil et al. First-in-Man FASTR-AF Study: Novel Temperature-Controlled FAST Ablation System to Rapidly Create Lesions for the Treatment of Persistent and Paroxysmal Atrial Fibrillation. Presented at HRS 2019; San Diego, CA.

⁴ Medtronic data on file. Engineering Concept Summary Report TR 00317, Rev. A.

Brief Statement

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative or consult the Medtronic website at www.medtronic.com.

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