3 / INNOVATIVE ERGONOMICS

Featuring a retractable handle to expose the active probe length. In addition, its flexible tube set allows for a tight bending radius, and the ergonomic handle can adjust to multiple hand positions.

FIGURE 2. cryoICE PROBE

The cryoICE probe is both retractable and malleable.

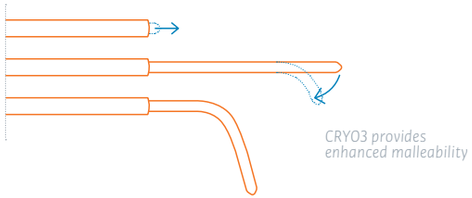


FIGURE 3. cryoICE FLEXIBILITY

The cryoICE flexible tube set allows for a tight bending radius.

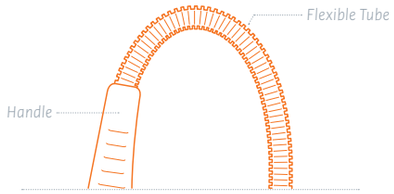
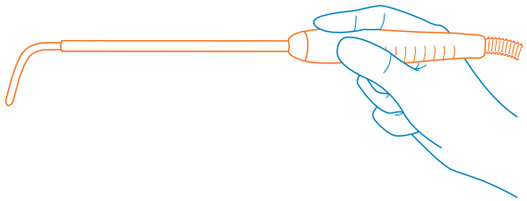


FIGURE 4. cryoICE ERGONOMICS

The cryoICE ergonomic handle can adjust to multiple hand positions.



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This material is intended to provide general information, including opinions and recommendations, contained herein for educational purposes only. Such information is not intended to be a substitute for professional medical advice, diagnosis or treatment. The material is not intended to direct clinical care in any specific circumstance. The judgment regarding a particular clinical procedure or treatment plan must be made by a qualified physician in light of the clinical data presented by the patient and the diagnostic and treatment options available.

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

***US Only:** cryoICE devices, manufactured by AtriCure, are cleared for the treatment of cardiac arrhythmias when used with cryo1 and cryoICE.*

***Europe Only:** cryoICE devices, manufactured by AtriCure, are cleared for the treatment of cardiac arrhythmias.*

***Non-European International:** cryoICE devices, manufactured by AtriCure, are cleared for the treatment of cardiac arrhythmias.*

***Risk and Safety Concerns:** The ACM System requires use of the cryoablation probe. Use of this probe with another manufacturer's system may damage the device and result in patient injury. Do not use the probe to freeze tissue on the beating heart. Use of the probe to freeze tissue on the beating heart may result in severe injury to the patient. Cryo–ablation involving coronary vessels has been associated with subsequent clinically significant arterial stenosis. It is unknown whether cryo–ablation with the probe will have such an effect, but as in all such procedures, care should be taken to minimize unnecessary contact with coronary vessels during cryo–ablation. Do not pull on the probe or console while the malleable tip is frozen to tissue as this could lead to inadvertent tissue damage. Do not use excessive force when using the probe in order to avoid tissue damage. Cardiac surgical procedures may mechanically induce arrhythmias.*

Rx Only.

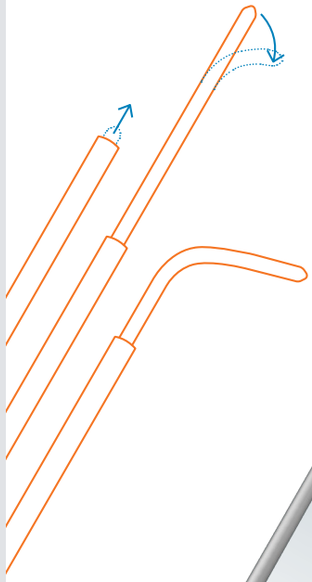
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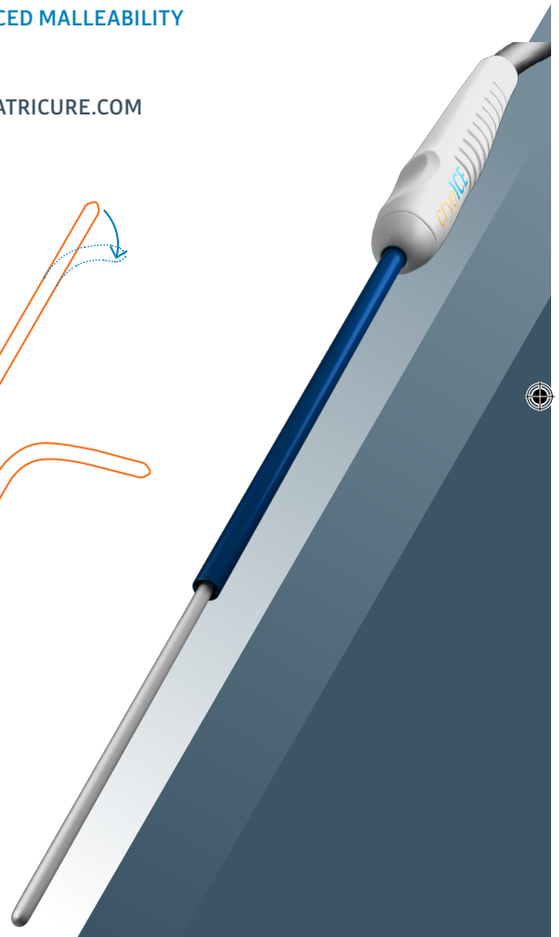
*cryo*ICE

Cryoablation System

SAME SUPERIOR SCIENCE
ENHANCED MALLEABILITY

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AtriCure / Your Partner in Afib Solutions

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Why the cryoICE® Cryoablation Probe by AtriCure?

1 / FAST PERFORMING

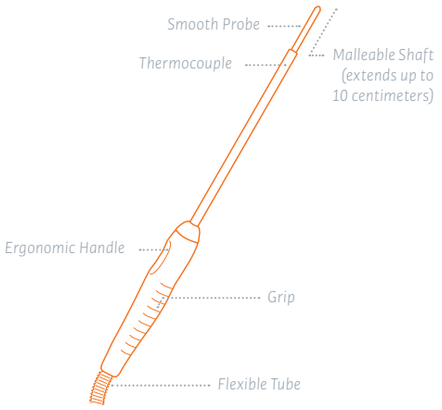
cryoICE is quick to achieve lethal temperatures and maintains that temperature along the probe length more consistently. The probe/tissue surface temperature is actively measured through a Thermocouple feature.

2 / SUPERIOR SCIENCE

cryoICE has superior work capacity.

FEATURES	
Gas	Nitrous Oxide has a higher heat absorption capacity than Argon.[1]
Probe Material	12x higher thermal conductivity than competitor's.[2]
Probe Surface	Smooth probe vs. corrugated reduces gaps where ice formation hinders thermal conductivity.

FIGURE 1. cryoICE CRYOABLATION PROBE



cryoICE Active Release

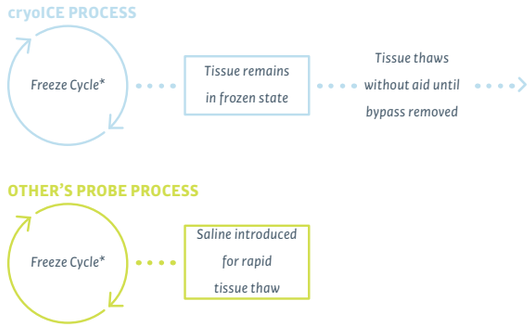
The device's Active Release feature allows the probe to be removed from the tissue surface while keeping it in a frozen state.

"Slow thawing of the frozen tissue is a prime destructive factor and is a more important mechanism of cell death in cryosurgery than is rapid cooling. The rate of thawing should be as slow as practical, and is best done by allowing the tissues to thaw with no assistance by heating. Rapid thawing increases the chance of cell survival, which has long been known in the treatment of frostbite."[3]

— JOHN G. BAUST, PHD

FIGURE 6. FREEZING WITH cryoICE VERSUS OTHER'S PROBE

cryoICE Active Release allows tissue to remain frozen after the probe is removed, and then to thaw without aid.



*Freeze cycle varies depending on clinical application.

(1) Lemmon, E.W. "REFPROP, Reference Thermodynamic and Transport Properties." NIST Standard Reference Database 23, Version 8.0. NIST, 2007. Print.

(2) CRC Handbook of Chemistry and Physics, David R. Lide, Ed. 79th Edition, CRC Press, Boca Raton, FL, 1998.

(3) Baust, J. G. and Gage, A. A. (2005), The molecular basis of cryosurgery. BJU International, 95: 1187–1191. doi: 10.1111/j.1464-410X.2005.05502.x

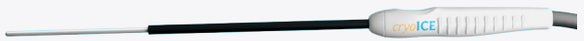
Products

cryoICE MALLEABLE CRYOABLATION PROBES

10 cm freeze length
Product Code: CRYO3
- 25% less bend force needed to shape versus CRYO2



10 cm freeze length
Product Code: CRYO2



cryoICE BOX - V6

Product Code: ACM1 (US)
Product Code: ACM2 (International)

