Solero

Microwave Tissue Ablation System

ABLATION MEASUREMENT GUIDE

angiodynamics

GL/ON/BR/71 REV 06 08/2024

EX VIVO BOVINE LIVER

(diameter Ø x length)

Note: Ex vivo bovine liver- actual clinical results in perfused tissues may differ

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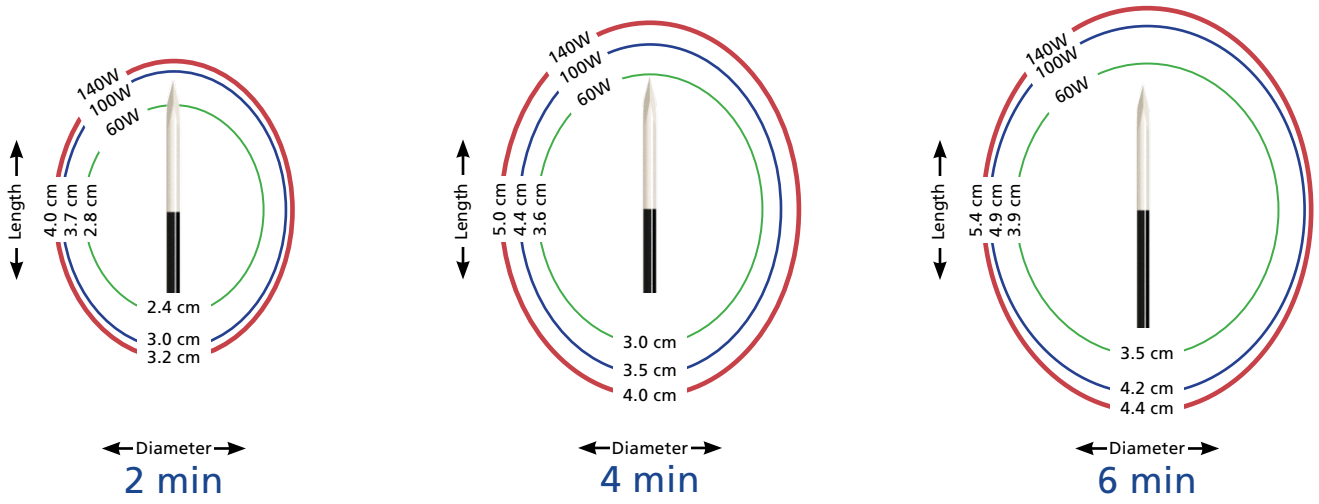
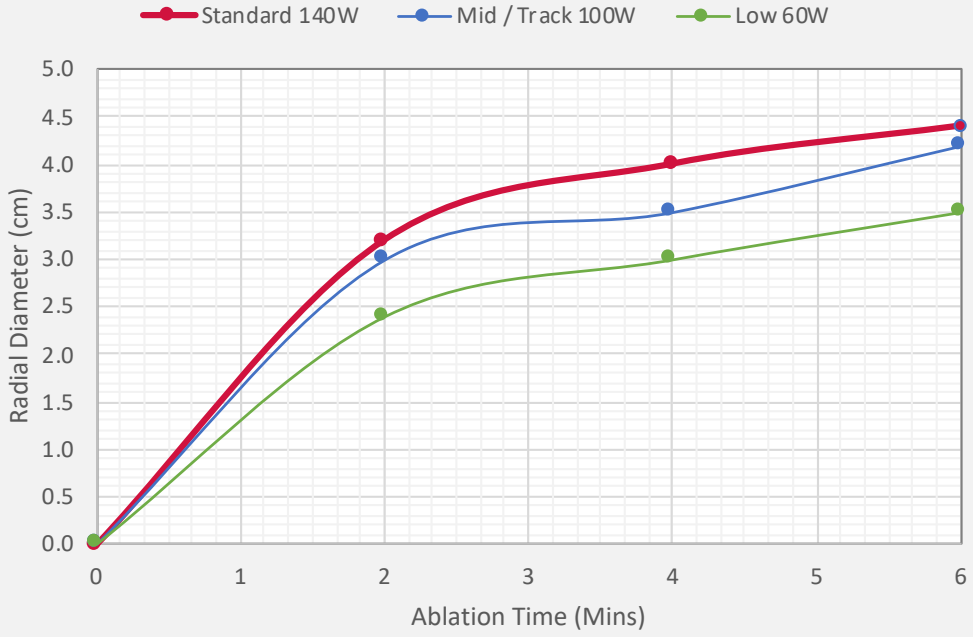


DOSIMETRY CURVES



Dosimetry Considerations

Standard power setting of 140W gives highest power density, minimises perfusion effects, heat sink impact and delivers greatest cytotoxic thermal mass

Lower power reduces core temperature and increases susceptibility to heat sinks

Rate of radial development slows with time as volume and surface area of ablation increases

In-vivo performance depends on patient specific factors including target location, perfusion and tissue properties

Ablation zone cool down will take longer than ablation time due to thermal conduction only

Consideration of cooling required for post ablation patient management

Note: Ablation volumes in perfused tissues may differ from static laboratory results

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EX VIVO PORCINE KIDNEY

(diameter Ø x length)

Note: Ex vivo porcine kidney- actual clinical results in perfused tissues may differ

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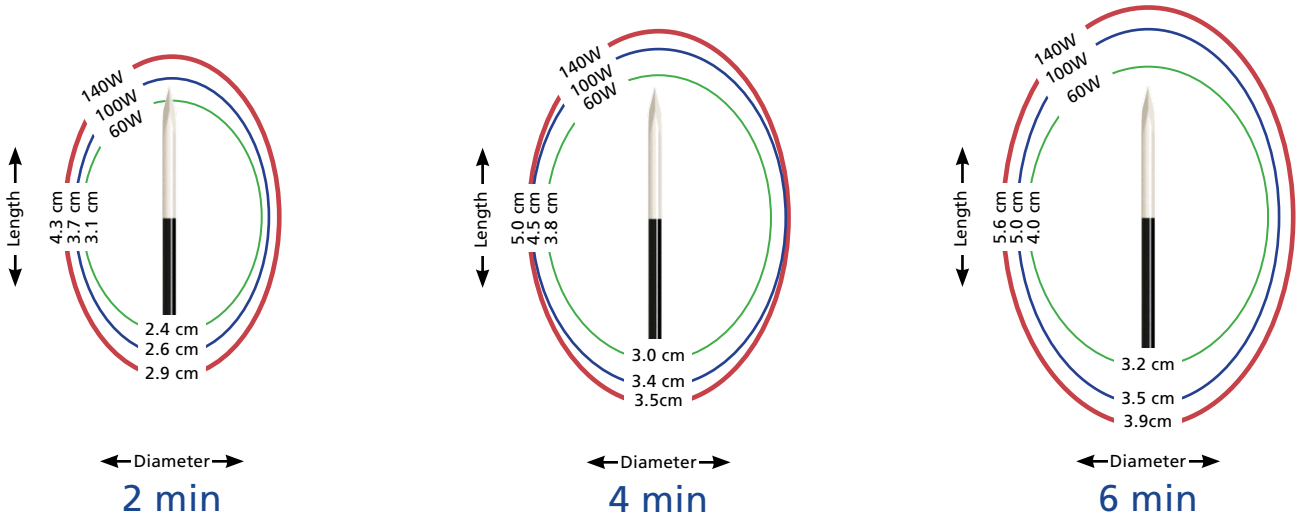
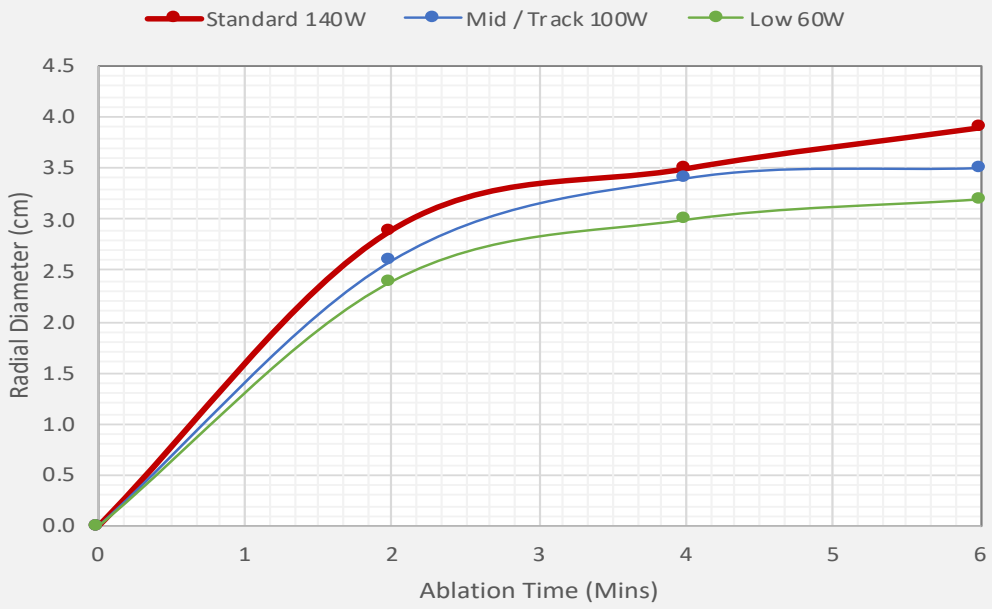


DOSIMETRY CURVES



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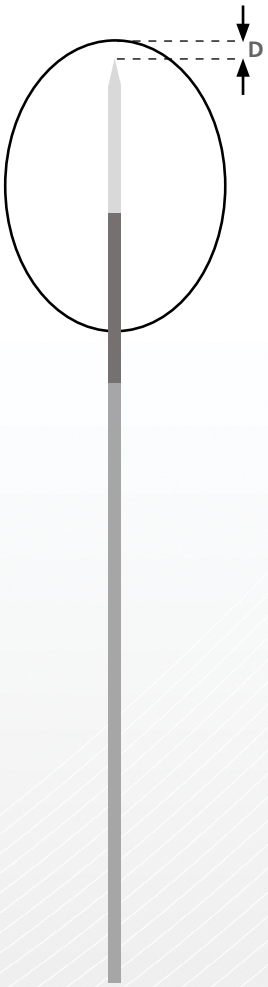
Distance of forward edge of ablation zone from the distal point of the applicator tip in cm (D)

Liver	2 Min	4 Min	6 Min
140 W	0.23	0.73	0.93
100 W	-0.08	0.43	0.68
60 W	-0.37	0.03	0.18

Kidney	2 min	4 min	6 min
140 W	0.38	0.73	1.03
100 W	0.08	0.48	0.73
60 W	-0.22	0.13	0.23

Lung	2 min	4 min	6 min
140 W	-0.17	0.03	0.03
100 W	-0.42	-0.17	-0.17
60 W	-0.82	-0.72	-0.57



EX VIVO PORCINE LUNG

(diameter Ø x length)

Note: Ex vivo porcine lung- actual clinical results in perfused tissues may differ

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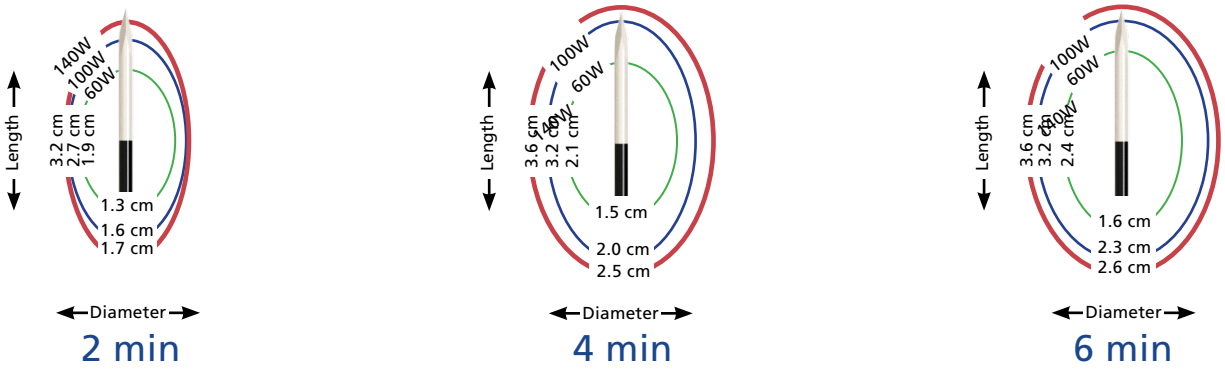

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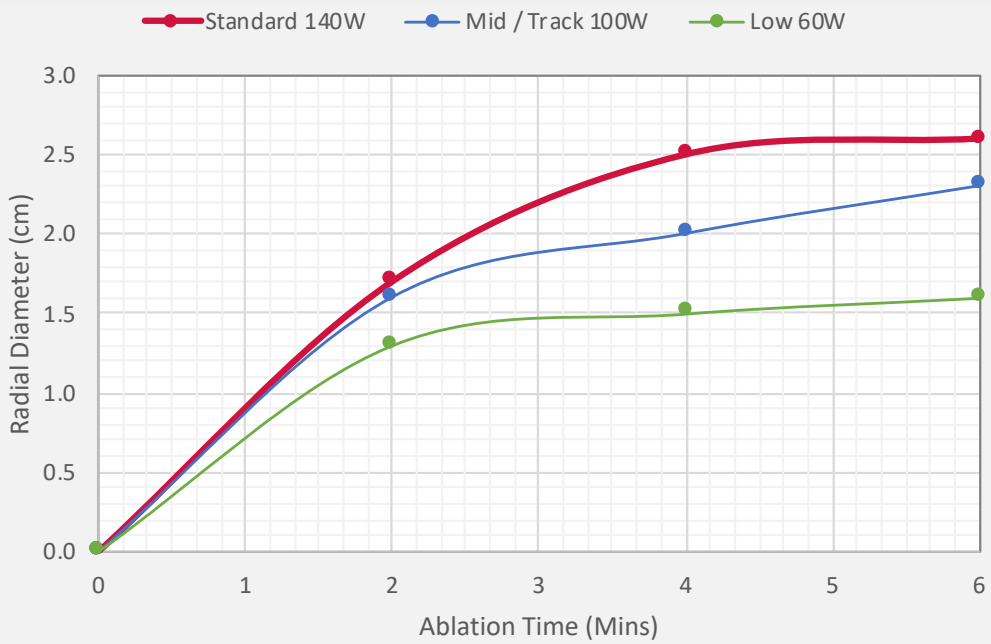

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Consult your AngioDynamics representative for country specific product availability.

Indication for Use:
US: The Solero Microwave Tissue Ablation (MTA) System and accessories are indicated for the ablation of soft tissue during open procedures. The Solero MTA System is not intended for cardiac use.

CE: The Solero Microwave Tissue Ablation (MTA) System and Accessories are indicated for the ablation of soft tissue* during open, laparoscopic, or percutaneous procedures. The Solero MTA System is not intended for cardiac use.

*Note Canada Only: Throughout this document any reference to “soft tissue” means the following tissue types: Liver, Kidney, and Lung (early stage non-small cell lung cancer (NSCLC) and inoperable pulmonary malignancies).

Contraindications: The applicators are contraindicated in patients with heart pacemakers and other electronic device implants.

Refer to Directions for Use and/or User Manual provided with the product for complete Instructions, Warnings, Precautions, Possible Adverse Effects and Contraindications prior to use of the product.

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician.

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International > Haaksbergweg 75 (Margriettoren), 1101 BR, Amsterdam Z-O > The Netherlands >
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www.angiodynamics.com

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