

CRYOABLATION

Product Catalogue



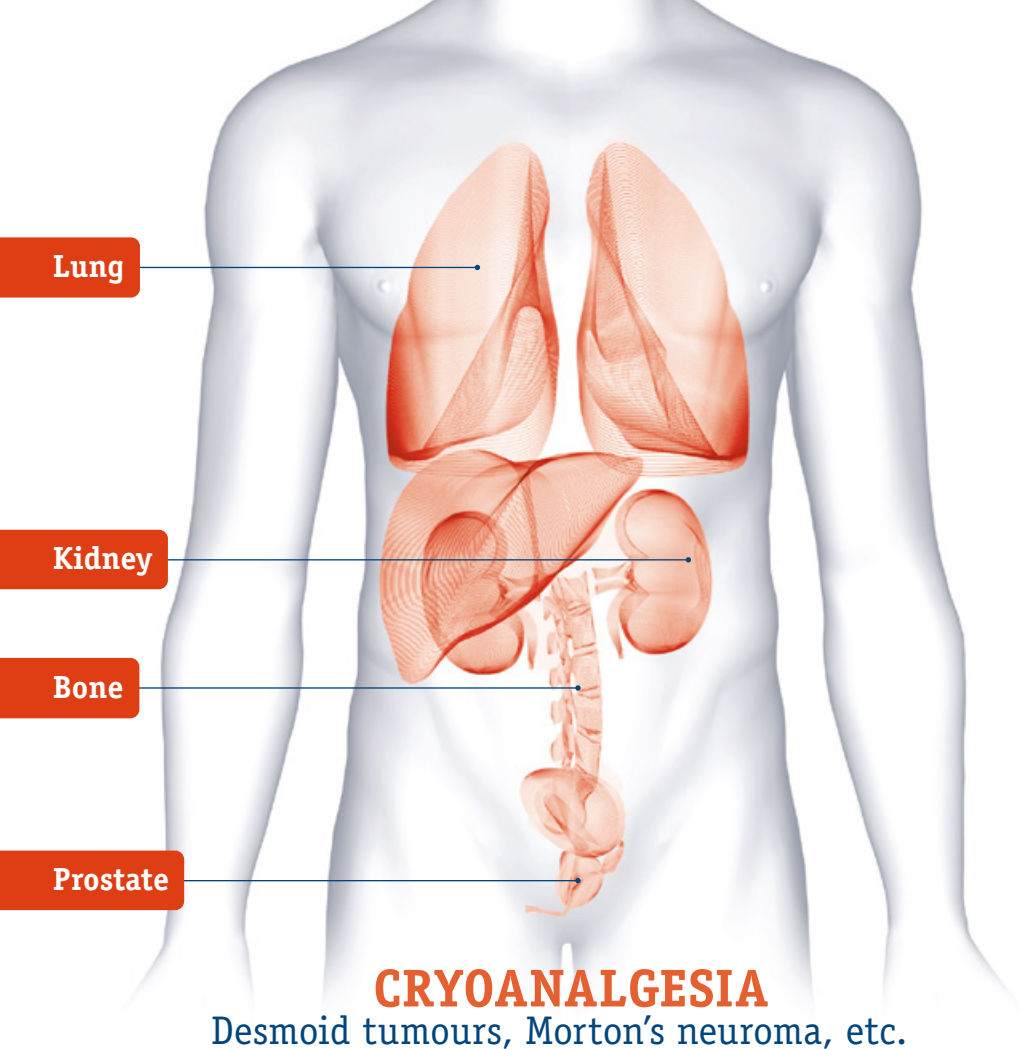
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**Boston
Scientific**
Advancing science for life™

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CRYOABLATION

Building on our commitment to Interventional Oncology, Boston Scientific has added the most advanced cryoablation technology to its portfolio of minimally invasive therapies.

- Flexibility of needle options to tailor your treatment
- Precise control allows you to sculpt the optimal ablation zone
- Progressive cryoablation software platforms simplify procedure
- Advanced technology drives innovative capabilities

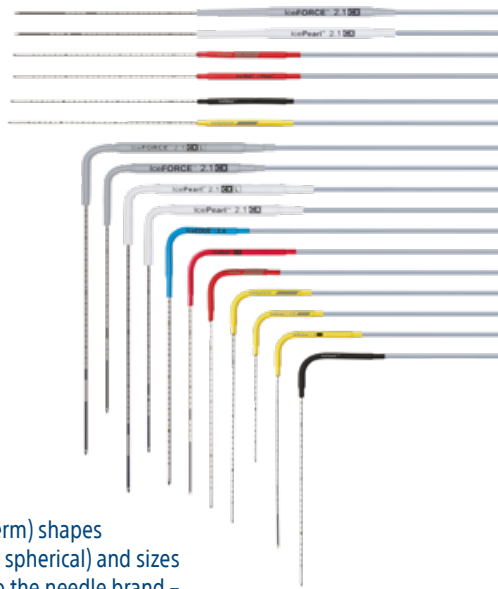
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Boston Scientific Cryoablation Needles

Boston Scientific offers a wide range of precisely engineered Cryoablation needles for CT and MRI Systems.

- Straight or angled 90° configurations in a choice of lengths and diameters
- Three-facet sharp needle tip for easy percutaneous insertion and control
- Accurate shaft distance markers to optimise needle placement
- Lightweight handles to minimise torque on inserted needles, with colour-coding for ease of identification
- Unibody closed-tube design which minimises risk of gas leakage*



Iceball (isotherm) shapes (ellipsoidal or spherical) and sizes are specific to the needle brand – see pages 7 – 9 for more information on isotherm sizing and shapes.

*vs welded tip designs

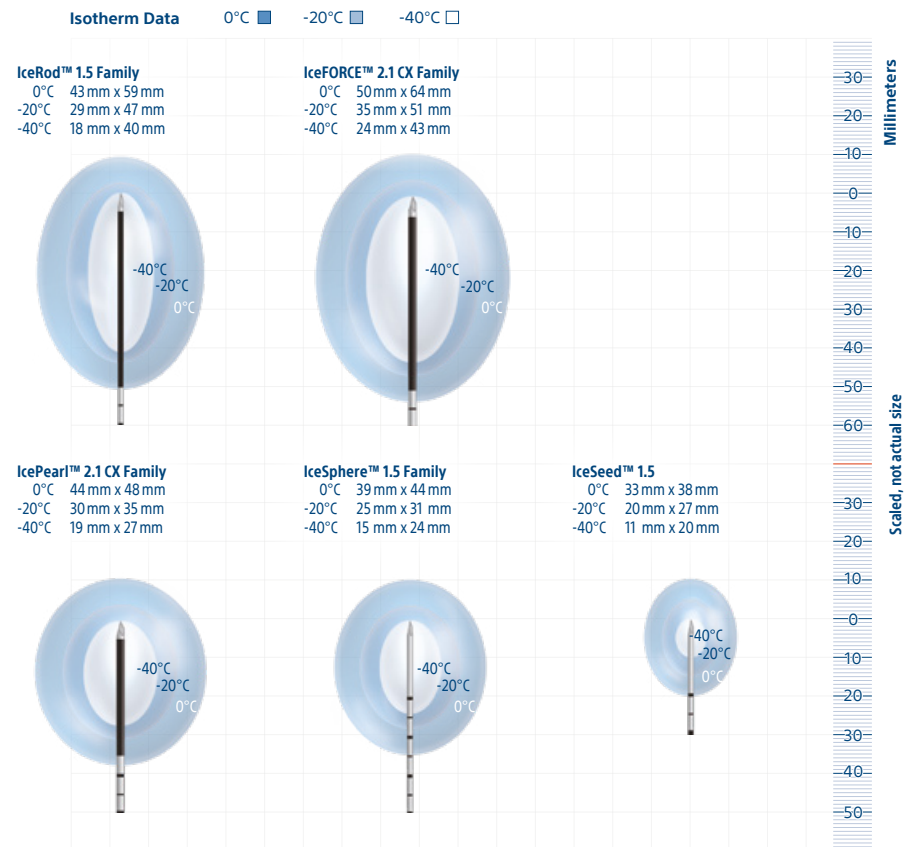
Cryoablation Needle Compatibility

Needle type	Qty	Visual-ICE™	ICEfx™	Visual-ICE™ MRI
Image-Guided CX-1.5*	Straight	90°		
IceRod™ 1.5 CX	•	•	•	
IceSphere™ 1.5 CX	•	•	•	
Image-Guided CX-2.1*	Straight	90°		
IceFORCE™ 2.1 CX	•	•	•	
IceFORCE™ 2.1 CX 2.1 CX L	•	•	•	
IcePearl™ 2.1 CX	•	•	•	
IcePearl™ 2.1 CX L	•	•	•	
Image-Guided CX-2.1*				
IceRod™ 1.5 PLUS	•	•	•	
IceRod™ 1.5	•	•	•	
IceRod™ 1.5 i-Thaw™	•	•	•	
IceSphere™ 1.5	•	•	•	
IceSphere™ 1.5 S		•		
Image-Guided Classic 2.4	Straight	90°		
IceEDGE™ 2.4 90°	•	•		
Image-Guided Classic 2.4	Straight	90°		
IceRod™ 1.5 MRI	•	•		•

* See page 10 for information on CX needle features.

For details of needle compatibility with previous generation cryoablation systems not listed here, please contact your BSC Representative.

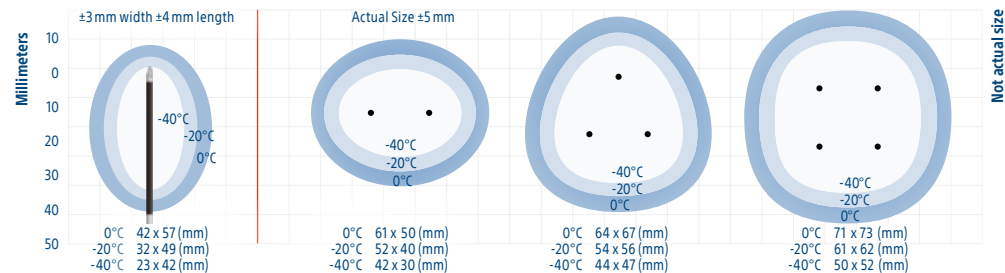
Cryoablation Needle Isotherm Data Room Temperature Gel ±3 mm width, ±4 mm length



Cryoablation Needle Isotherm Data 37°C Gel

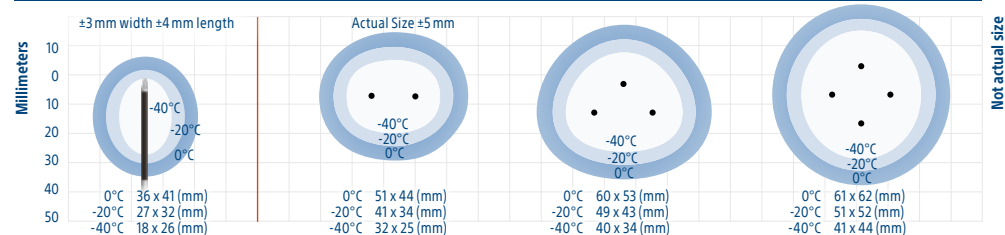
IceFORCE™ 2.1 CX† Family Optimal spacing: 1.5 – 2.0cm
IceFORCE™ 2.1 CX 90° Cryoablation Needle* | IceFORCE™ 2.1 CX L 90°

*Track Ablation: Radial width 2.5mm; Length 29mm



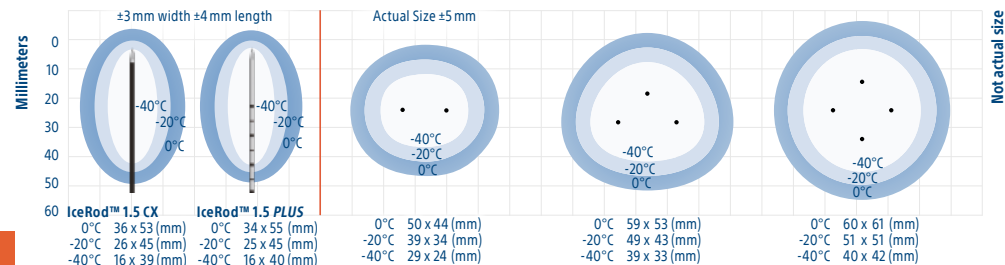
IcePearl™ 2.1 CX† Family Optimal spacing: 1.0–1.5cm
IcePearl™ 2.1 CX 90° Cryoablation Needle* | IcePearl™ 2.1 CX L 90° Cryoablation Needle*

*Track Ablation: Radial width 2.1mm; Length 13mm



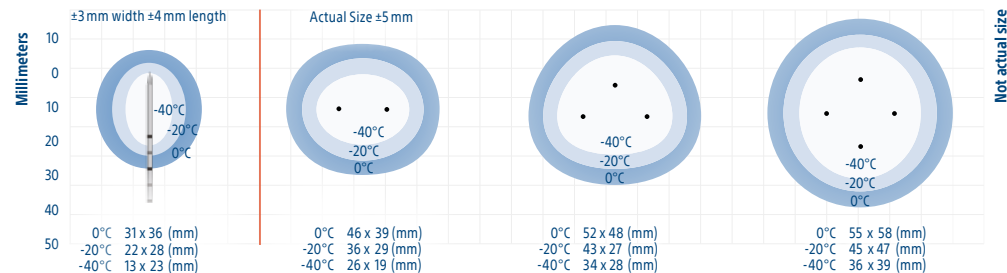
IceRod™ 1.5 Family Optimal spacing: 1.0–1.5cm
IceRod™ 1.5 CX† 90° Cryoablation Needle* | IceRod™ 1.5 PLUS 90° Cryoablation Needle

*Track Ablation: Radial width 2.1mm; Length 13mm

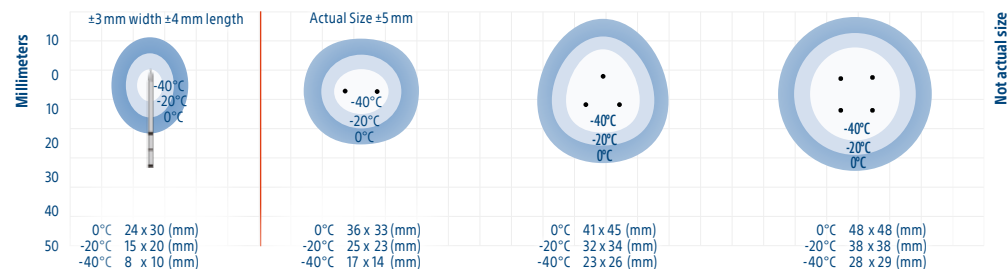


Cryoablation Needle Isotherm Data 37°C Gel cont.

IceSphere™ 1.5 Family Optimal spacing: 1.0 – 1.5cm
IceSphere™ 1.5 90° Cryoablation Needle | IceSphere™ 1.5 S 90° Cryoablation Needle



IceSeed™ 1.5 Optimal spacing: 1.0cm
IceSeed™ 1.5 90° Cryoablation Needle



† See page 10 for information on CX needle features

Image-Guided CX Needles

CX Cryoablation Needles features

- An integral heater to offer
 - Cautery function for track ablation
 - Helium-free thaw options (i-Thaw™ and FastThaw™)
- Non-stick coating on distal shaft for ease of needle manoeuvre and removal

Image-Guided CX-1.5		Handle Colour Code	Qty	Angle	Insulated Shaft*
FPRPR3533	IceRod™ 1.5 CX 90° Cryoablation Needle	Red	1	90°	•
FPRPR3573	IceSphere™ 1.5 CX 90° Cryoablation Needle	Yellow	1	90°	•
Image-Guided CX-2.1		Handle Colour Code	Qty	Angle	Insulated Shaft*
FPRPR3602	IceFORCE™ 2.1 CX 90° Cryoablation Needle	Grey	1	90°	•
FPRPR3604	IceFORCE™ 2.1 CX Cryoablation Needle	Grey	1	Straight	•
FPRPR3618	IceFORCE™ 2.1 CX L 90° Cryoablation Needle	Grey	1	90°	•
FPRPR3601	IcePearl™ 2.1 CX 90° Cryoablation Needle	White	1	90°	•
FPRPR3603	IcePearl™ 2.1 CX Cryoablation Needle	White	1	Straight	•
FPRPR3617	IcePearl™ 2.1 CX L 90° Cryoablation Needle	White	1	90°	•

Image-Guided Classic Needles

Image-Guided Classic		Handle Colour Code	Qty	Angle	Insulated Shaft*
FPRPR3508	IceRod™ 1.5 PLUS 90° Cryoablation Needle	Red	1	90°	•
FPRPR3510	IceRod™ 1.5 PLUS Cryoablation Needle	Red	1	Straight	•
FPRPR4009	IceRod™ 1.5 i-Thaw™ Cryoablation Needle	Red	1	Straight	
FPRPR3560	IceSphere™ 1.5 90° Cryoablation Needle	Yellow	1	90°	•
FPRPR3558	IceSphere™ 1.5 Cryoablation Needle	Yellow	1	Straight	•
FPRPR3561	IceSphere™ 1.5 S 90° Cryoablation Needle	Yellow	1	90°	•
FPRPR3202	IceSeed™ 1.5 90° Cryoablation Needle	Black	1	90°	
FPRPR3201	IceSeed™ 1.5 Cryoablation Needle	Black	1	Straight	

Individual MRI Cryoablation Needles

Image-Guided MRI Classic		Handle Colour Code	Qty	Angle	Insulated Shaft*
FPRPR3195	IceRod™ 1.5 MRI 90° Cryoablation Needle	Red	1	90°	
FPRPR3193	IceRod™ 1.5 MRI Cryoablation Needle	Red	1	Straight	
FPRPR3194	IceSeed™ 1.5 MRI 90° Cryoablation Needle	Black	1	90°	
FPRPR3192	IceSeed™ 1.5 MRI Cryoablation Needle	Black	1	Straight	

Prostate Procedure Kits – Visual-ICE™

Boston Scientific Prostate procedure kits streamline the ordering and preparation process for prostate Cryotherapy treatments by combining needles and accessories into a single stock item.

Prostate Procedure Kits	Qty	Description
FPRPR3570 Five IceSphere™ 1.5 Prostate Cryoablation Kit for: Visual-ICE™ System	5	IceSphere™ 1.5mm Cryoablation Needles
	2	Multi-Point Thermal Sensors
	1	Urethral Warming Set, composed of: 1x Urethral warming catheter with tubing #1 & tubing #2 1x Warming tubing #3
	1	Prostate Procedure SmartCard
	1	Prostate ScanCard
FPRPR3571 Five IceRod™ 1.5 i-Thaw™ Prostate Cryoablation Kit for: Visual-ICE™ System	5	IceRod™ i-Thaw™ 1.5mm Cryoablation Needles
	2	Multi-Point Thermal Sensors
	1	Urethral Warming Set, composed of: 1x Urethral warming catheter with tubing #1 & tubing #2 1x Warming tubing #3
	1	Prostate Procedure SmartCard
	1	Prostate ScanCard

* For needles without insulated shaft, additional skin protection should be used.

Prostate Procedure Kits Visual-ICE™ & ICEfx™

Prostate Procedure Kits	Qty	Description
FPRPR3607 Three IceFORCE™ 2.1 CX Prostate Cryoablation Kit for Visual-ICE™ System & ICEfx™ System	3	IceFORCE™ 2.1mm CX Cryoablation Needles*
	2	Multi-Point Thermal Sensors
	1	Urethral Warming Set, composed of 1x Urethral warming catheter with tubing #1 & tubing #2 1x Warming tubing #3
FPRPR3608 Three IcePearl™ 2.1 CX Prostate Cryoablation Kit for Visual-ICE™ System and ICEfx™ System	3	IcePearl™ 2.1mm CX Cryoablation Needles*
	2	Multi-Point Thermal Sensors
	1	Urethral Warming Set, composed of 1x Urethral warming catheter with tubing #1 & tubing #2 1x Warming tubing #3
FPRPR4518 IceSeed™ Prostate Cryoablation Kit / Precise™ System	14	Fourteen (14) IceSeed 1.5 mm Cryoablation Needles: each needle in an inner film/perforated Tyvek pouch; seven perf pouched needles in a film/ Tyvek pouch; 2 packs of 7 pouched needles Two (2) kit identification labels: stapled to the IFU Notice or the 1.5 Needles IFU
	2	Multi-Point Thermal Sensors: each MTS in an inner film/perforated Tyvek pouch; two perf pouched MTS in an outer film/Tyvek pouch
	1	Urethral Warming Set, composed of: (a) Urethral warming catheter with tubing #1 and tubing #2: catheter within a film/paper pouch; catheter plus tubing 1 and tubing 2 within inner film/paper pouch; all within outer film/paper pouch (b) Warming tubing #3: double pouched in film/paper pouch
	1	Prostate SmartCard: in white labeled envelope MultiLanguage IF13Us included in package (1.5 Cryoablation Needles IFU, Urethral Warming Set IFU, Single-Point and Multi-Point Thermal Sensors IFU)

Prostate Procedure Kits Visual-ICE™ & ICEfx™

Prostate Procedure Kits	Qty	Description
FPRPR3605 IceFORCE™ 2.1 CX Prostate Cryoablation Kit for Visual-ICE™ System and ICEfx™ System*	6	IceFORCE™ 2.1mm CX Cryoablation Needles*
	4	Multi-Point Thermal Sensors*
	1	Urethral Warming Set, composed of 1x Urethral warming catheter with tubing #1 & tubing #2 1x Warming tubing #3
FPRPR3606 IcePearl™ 2.1 CX Prostate Cryoablation Kit for Visual-ICE™ System and ICEfx™ System*	6	IcePearl™ 2.1mm CX Cryoablation Needles*
	4	Multi-Point Thermal Sensors*
	1	Urethral Warming Set, composed of: 1x Urethral warming catheter with tubing #1 & tubing #2 1x Warming tubing #3
FPRPR3572 IceRod™ i-Thaw™ 1.5 Prostate Cryoablation Kit for Visual-ICE™ System and ICEfx™ System*	8	IceRod™ 1.5mm i-Thaw™ Cryoablation Needles
	4	Multi-Point Thermal Sensors*
	1	Urethral Warming Set, composed of 1x Urethral warming catheter with tubing #1 & tubing #2 1x Warming tubing #3

* See page 10 for information on CX needle features.

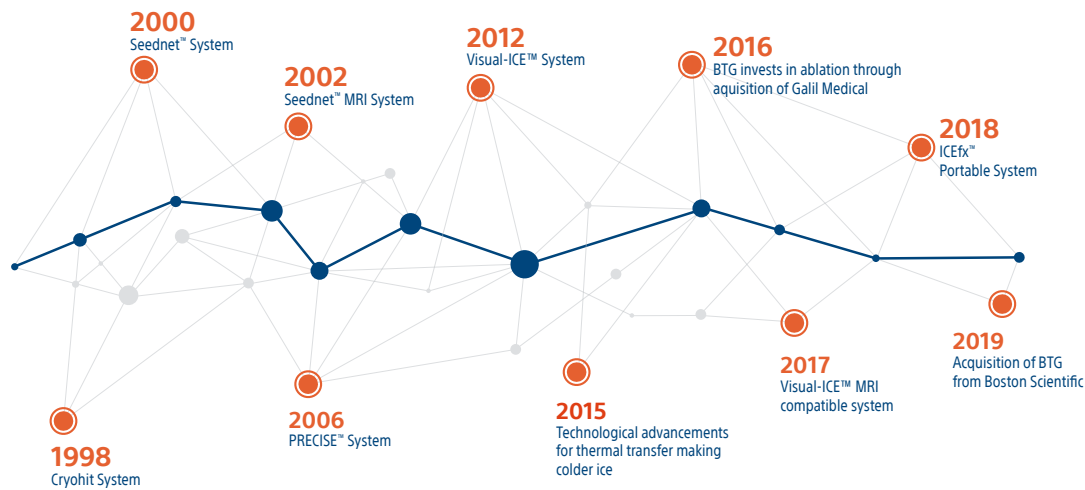
* In local language.

Cryoablation Systems

For over 20 years, our technology has been at the forefront of innovation in cryoablation.

Boston Scientific's investment in this technology through its acquisition of BTG in 2019 ensures a continued commitment to the highest levels of quality, research and development. We deliver intuitive, easy-to-use systems with unique features that enable you to confidently deliver the highest levels of patient care.

The evolution of cryoablation systems technology



Visual-ICE™ Cryoablation System

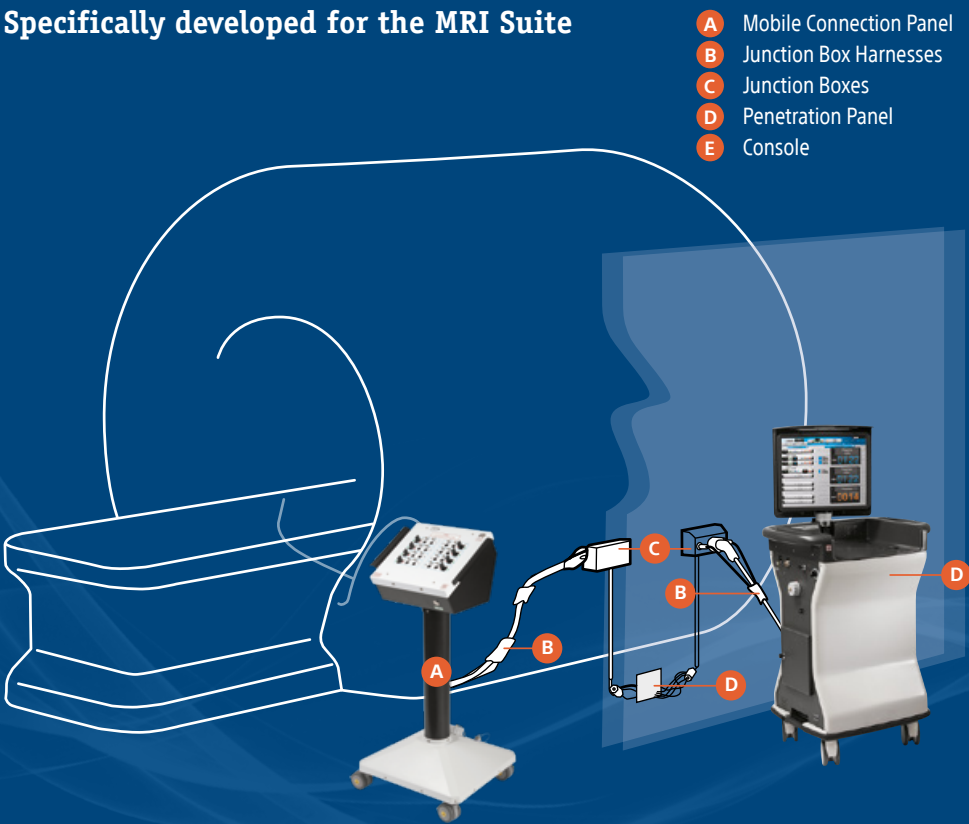
Prostate Procedure Kits	Qty	Description
FPRCH6000 Cryoablation System with built-in gas pressure regulators, customised to local language and electrical requirements	1	Visual-ICE™ Cryoablation System
	1	Flexible argon gas supply line with pressure gauge (5m)
	1	Flexible helium gas supply line with pressure gauge (5m)
	1	Wrench
	1	USB flash drive
	1	Ethernet cable
	1	User Manual*
	1	Quick Reference Guide*
	1	System cover



* In local language.

Visual-ICE™ MRI Cryoablation System

Specifically developed for the MRI Suite



Visual-ICE™ MRI System	Qty	Description
FPRCH7000 Visual-ICE™ MRI Cryoablation Console, customised to local language and electrical requirements	1	Visual-ICE™ MRI Cryoablation Console with built-in gas pressure regulators
	1	Flexible argon gas supply line with pressure gauge (5 m)
	1	Flexible helium gas supply line with pressure gauge (5 m)
	1	User Manual*
	1	Quick Reference Guide*
	1	Console cover
FPRCH7100 Visual-ICE™ MRI Mobile Connection Panel	1	Visual-ICE™ MRI remote Mobile Connection Panel to support MRI needle connections in magnet room
	1	Mobile Connection Panel cover
FPRCH7050 Visual-ICE™ MRI Junction Box Assembly	2	Visual-ICE™ MRI Junction Box Assemblies containing gas, electrical and fiber optic connectors
	1	Penetration Panel

* In local language.

ICEfx™ Cryoablation System



ICEfx™ Cryoablation System

ICEfx Console	Qty	Description
FPRCH8000 ICEfx Portable Cryoablation Console with touch-screen interface customised to local language and electrical requirements	1	ICEfx portable Cryoablation Console
	1	High-pressure argon supply line with attached pressure gauge (5 m or 8 m lengths available – please specify required length when ordering)
	1	USB flash drive
	1	Ethernet cable (3 m)
	1	Wrench
	1	User Manual*
	1	Quick Reference Guide*
FPRCH8010 Cart only	1	Cart for ICEfx provides storage for up to four cryoablation needleboxes with hook for accessory bag

* In local language.

System Accessories Visual-ICE™ & ICEfx™

EZ Connect2™ Gas Lines	Qty	Description
FPRCH4005 EZ CONNECT2 Dual Cylinder Adapter Set 5 m (bar)	1	5 m Teflon™ lined high-pressure gas supply line connected to a four-way adapter with an argon pressure gauge (bar) with blue rubber sleeve
	1	1.22 m Teflon™ lined high-pressure gas supply line with quick connect fittings
FPRCH4008 EZ CONNECT2 Dual Cylinder Adapter Set 8 m (bar)	1	8 m Teflon™ lined high-pressure gas supply line connected to a four-way adapter with an argon pressure gauge (bar) with blue rubber sleeve
	1	1.22 m Teflon™ lined high-pressure gas supply line with quick connect fittings
FPRCH6133 Argon Auxiliary Line, 1.22m	1	1.22 m Argon auxiliary Teflon™ lined high-pressure gas supply line

Miscellaneous	Qty	Description
FPRCH6117 Labels & Pen	10	Sterile white 1.5" x 0.5" labels
	1	Sterile pen
FPRCH6110 USB Flash Drive	1	
FPRCH6112 Nylon Chassis Cover	1	

Argon Supply Lines	Qty	Description
FPRCH6128 Argon Supply Line 5m (bar)	1	5 m Teflon™ lined high-pressure gas supply line with an attached argon pressure gauge (bar) with blue rubber sleeve
FPRCH6138 Argon Supply Line 8m (bar)	1	8 m Teflon™ lined high-pressure gas supply line with an attached argon pressure gauge (bar) with blue rubber sleeve

Thermal Sensors	Qty	Description
FPRPR4010 Multi-Point 1.5 Thermal Sensor™	1	1.5 mm Multi-Point Thermal Sensor

System Accessories Visual-ICE™

Helium Supply Lines	Qty	Description
FPRCH6130 Helium Supply Line 5 m (bar)	1	5 m Teflon™ lined high-pressure gas supply line with an attached helium pressure gauge (bar) with red rubber sleeve
FPRCH6140 Helium Supply Line 8 m (bar)	1	8 m Teflon™ lined high-pressure gas supply line with an attached helium pressure gauge (bar) with red rubber sleeve