







INTUITIVE USER INTERFACE **PROVIDES EASY OPERATION**

LARGE HD TOUCH-SCREEN CONTROLS SYSTEM OPERATION AND DISPLAYS PROCEDURE STATUS

- Buttons provide easy cryoablation control
- Color-coded bars visually display ongoing procedural summary of freeze, thaw and idle segments
- Enlarged, positionable timers allow monitoring of the procedure status from a distance
- Enlarged timers display elapsed cycle time and, when freezing, freeze intensity
- Optional cycle programming offers automation of frequently used freeze-thaw protocols

SYSTEM FEATURES CONTROL ICEBALL SHAPE AND GROWTH

- Adjustable freeze intensity regulates ice growth - Provides control near critical structures
- Stick mode secures a needle during placement of additional needles
- Eight separate system channels allow independent control per channel
- Activation of multiple needles provides opportunities to treat large tumors and to conduct multiple simultaneous treatments
- Different needle types can be combined to create optimal iceball shapes and sizes

SYSTEM SOFTWARE STREAMLINES OPERATION

- Gas Indicators display real-time estimates of remaining gas time to minimize procedure interruption
- Online predictive diagnostics allow advance planning for maintenance
- Remote connectivity provides online software updates and downloads

ORDERING INFORMATION

PART NUMBER	VISUAL ICE [™] MRI SYSTEM & ACCESSORIES	D
H7493961070000	Visual ICE [™] MRI Cryoablation System	A s
H7493970071000	Visual ICE [™] MRI Mobile Connection Panel	A co
H7493969970500	Visual ICE [™] MRI Junction Box Assembly	T\ fi
ASM7005	Visual ICE [™] MRI Junction Box Harness (5 m)	O fil
ASM7010	Visual ICE [™] MRI Junction Box Harness (10 m)	O ai
ASM7015	Visual ICE [™] MRI Junction Box Harness (15 m)	O ai

PART NUMBER	MRI CRYOABLATION KITS	CONFIGURATION	NEEDLE SHAFT LENGTH	ACTIVE THAW
FPRPR3192	IceSeed [™] 1.5 MRI Cryoablation Needle	Straight	17.5 cm	Helium
FPRPR3194	IceSeed [™] 1.5 MRI 90° Cryoablation Needle	90°	17.5 cm	Helium
FPRPR3193	IceRod [™] 1.5 MRI Cryoablation Needle	Straight	17.5 cm	Helium
FPRPR3195	IceRod [™] 1.5 MRI 90° Cryoablation Needle	90°	17.5 cm	Helium

SYSTEM SPECIFICATIONS

OPERATING CONDITIONS

- Relative Humidity (operating conditions): 30% to 75% Temperature: -15 °C to + 50 °C
- Relative Humidity (storage): 10% to 90%

TRANSPORTATION CONDITIONS

- When shipping a system, use the original shipping
- containers to prevent damage during transport If the original shipping containers are not available, the customer takes responsibility to ensure proper transport conditions are satisfied or contacts Galil Customer
- Service to obtain the appropriate shipping container MECHANICAL SPECIFICATIONS: CONSOLE

170 lbs 42 in, monitor down • Height:

- 62 in, monitor up
- Footprint: 22 x 26 in Storage Compartment Weight Capacity: 50 lbs
- Monitor Storage Basin Weight Capacity: 20 lbs
- Closed Monitor Weight Capacity: 20lbs

MECHANICAL SPECIFICATIONS: MOBILE CONNECTION PANEL

- 45 lbs Weight:
- Height: 39 in Footprint: 20 x 18 in

- the Junction Box to allow easy connections
- PENETRATION PANEL Footprint: 8 in x 6 in minimum
- Note: about 12" of clearance is needed from the

for gas, electrical and fiber optics connections EXTERNAL GAS SUPPLY

Argon Cylind Purity Level: 99.998% or higher

- Solid particle size: <5 um • Helium Cylinder:
- Solid particle size: <5 µm
- GAS CYLINDER SPECIFICATIONS

Maximum Pressure: 6000 psi Connector Valve: CGA677

- ACCURACY OF DISPLAYED VALUES
- Supplied Gas Pressure Accuracy: ±50 psi, over range of 1000 psi to 6000 psi
- Built-in Regulator Gas Pressure: ±50 psi, over range of
- 1000 psi to 4000 psi

CRYOABLATION NEEDLES (ICESEED 1.5, ICESPHERE 1.5, ICESPHERE 1.5 CX, ICEROD 1.5, ICEROD 1.5 PLUS, ICEROD 1.5 I-THAW, ICEROD 1.5 CX, ICEPEARL 2.1 CX AND ICEFORCE 2.1 CX) AND ICEFX AND VISUAL ICE CRYOABLATION SYSTEMS

INDICATIONS: The Galil Medical Cryoablation Needles and Systems are intended for cryoablative destruction of tissue during surgical procedures. The Cryoablation Needle used with a Galil Medical Cryoablation System, are indicated for use as a cryosurgical tool in the fields of general surgery, dermatology, neurology (including cryoanalgesia), thoracic surgery (with the exception of cardiac tissue), ENT, gynecology, oncology, proctology, and urology. Galil Medical Cryoablation Systems are designed to destroy tissu including prostate and kidney tissue, liver metastases, tumors and skin lesions) by the application of extremely cold temperatures. A full list of specific indications can be foun in the respective Galil Medical Cryoablation System User Manuals. CONTRAINDICATIONS: There are no known contraindications specific to use of a Galil Medical Cryoablation Needle. POTENTIAL ADVERSE EVENTS: There are no known adverse events related to the specific use of the Cryoablation Needles. There are, however, potential adverse events associated with the use of cryoablation may be organ specific or general and may include, but are not limited to abscess, adjacent organ injury, allergic/anaphylactoid reaction, angina/coronary ischemia, arrhythmia, atelectasis, bladder neck contractur bladder spasms, bleeding/hemorrhage, creation of false urethral passage, creatinine elevation, cystitis, diarrhea, death, delayed/non healing, disseminated intravascula coagulation (DIC), deep vein thrombosis (DVT), ecchymosis, edema/swelling, ejaculatory dysfunction, erectile dysfunction (organic impotence), fever, fistula, genitourinary perforation, glomerular filtration rate elevation, hematoma, hematuria, hypertension, hypothernia, idiosyncratic reaction, ileus, impotence, infection, injection site reaction, myocardial infarction, nausea, neuropathy, obstruction, organ failure, pain, pelvic pain, pelvic vein thrombosis, penile tingling/numbness, perirenal fluid collection, pleural effusion, pneumothorax, probe site paresthesia, prolonged chest tube drainage, prolonged intubation, pulmonary embolism, pulmonary insufficiency failure, rectal pain, renal artery/renal vein injury, renal capsule fracture, renal failure, renal hemorrhage, renal infarct, renal obstruction, renal vein thrombosis, rectourethral fistula, scrotal edema, sepsis, skin burn/frostbite, stricture of the collection system or ureters, stroke, thrombosis/thrombus/embolism, transient ischemic attack, tumor seeding, UPJ obstruction/injury, urethral sloughing, urethral stricture, urinary fistula, urinary frequency/ urgency, urinary incontinence, urinary leak, urinary renal lea urinary retention/oliguria, urinary tract infection, vagal reaction, voiding complication including irritative voiding symptoms, vomiting, wound complication, and wound infection PI-719210-AA

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DESCRIPTION

A cryoablation system with built-in gas pressure regulators; two flexible gas supply lines (one argon, one helium) with pressure gauges; a system cover

A Visual ICE[™] MRI remote Mobile Connection Panel to support MRI needle connections in magnet room; a Mobile Connection Panel cover

wo Visual ICE[™] MRI Junction Box Assemblies containing gas, electrical and iber optic connectors; One Penetration Panel

One Visual-ICE[™] MRI Junction Box Harness (5 m) containing gas, electrical and fiber optic lines and connectors, packed in a protective case

One Visual ICE[™] MRI Junction Box Harness (10 m) containing gas, electrical and fiber optic lines and connectors, packed in a protective case

One Visual ICE[™] MRI Junction Box Harness (15 m) containing gas, electrical and fiber optic lines and connectors, packed in a protective case

MECHANICAL SPECIFICATIONS - JUNCTION BOX

 Wall footprint: 10 in x 5 in, protruding 4" out of the wall • Note: about 24" of clearance is needed from the front of

MECHANICAL SPECIFICATIONS -

front of the Penetration Panel to allow space

Purity Level: 99.995% or higher

Time Intervals: ±5 seconds over any 10 minute interval

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To order product or for more information contact customer service at 1.888.272.1001.

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- Input Voltage: 100 to 240 VAC, single phase
- Input Frequency: 50-60 Hz VA Bating: 450 VA
- IP Rating: IP10
- Fuse Rating: T 5.0A Electrical Protection: Class I, Type BE protection
- against shock Signal Input/Output Ports
- one (1) Ethernet port
- one (1) USB 2.0 full-speed port

one (1) Auxiliary Display por

MRI CONDITIONAL SAFETY The Visual-ICE[™] MRI Cryoablation vstem has been tested to be safe for use with 1.5 and 3 Tesla scanners RECOMMENDED SCAN SEQUENCES TO MINIMIZE NEEDLE HEATING Normal Operating Mode SAB of <15 watts per kilogram

Scan duration less than one minute per scar





VISUAL ICE[™] MRI Cryoablation System

INTUITIVE USER INTERFACE

ENHANCED MR VISUALIZATION

CONTROLLED **ABLATION ZONE**





VISUAL ICETM **MRI** Cryoablation System

The Visual ICE MRI Cryoablation System, developed with Galil[™] Technology is the only ablation system that leverages the unique advantages of cryoablation zone visibility with the exquisite image resolution of MR.

SPECIALIZED FOR THE MAGNET ROOM

- The Mobile Connection Panel (MCP) is placed within the MR room, allowing for easy access to both the patient and the needles during a procedure.
- Sixteen needles may be simultaneously connected, allowing a range of cryoablation procedures



MOBILE

CONNECTION PANE

- Each system design accommodates customer and site requirements
- Integrated into MR rooms with minimal installation and minimal downtime

JUNCTION BOXES

PENETRATION

JUNCTION BOX

PANE

- clicked into position

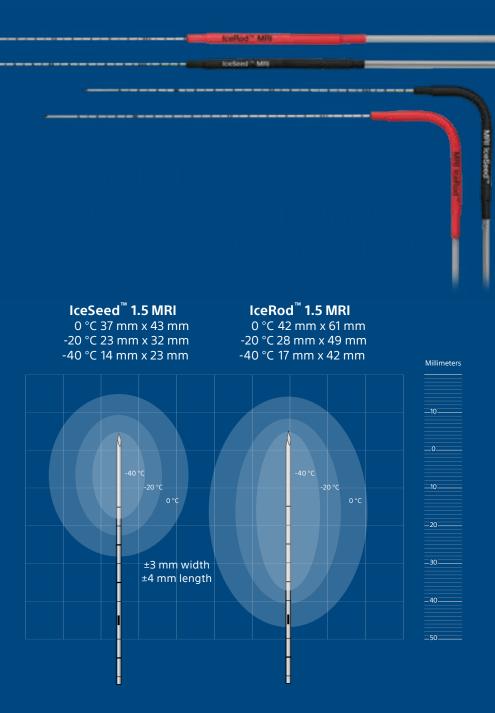
The Visual ICE MRI offers a safe and efficient cryoablation procedure ¹⁻⁴ facilitating precise and effective treatment ^{1,5-7} without the need for surgery or repeated radiation treatments.⁸⁻¹⁰



CONSOLIDATED LINES FACILITATE CONNECTIONS

• The Junction Box Harness organizes gas, fiber optic, and electrical lines into a single cable.

• Connectors are easily aligned and securely



- Isotherm measurements represent iceball size after a 10 minute freeze, 5 minute passive thaw followed by a final 10 minute freeze using a 100% argon flow rate
- Data was collected in the 21° room temperature gel; in-vivo dimensions are typically smaller than the dimensions generated in room temperature laboratory conditions
- 0° ice (the visible edge of the iceball) is not lethal
- An iceball must extend 5-10 mm beyond the tumor margin for appropriate coverage
- Use multiple needles to fully cover a target site and to provide a suitable margin
- Space needles 0.5-1.0 cm; needles spaced too far apart risk areas of non-lethal ice

References:

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