

THE BEST CHOICE FOR SOFT  
TISSUE ABLATION THERAPIES  
**RF MEDICAL**

Comprehensive Catalog



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For information regarding products available in specific markets, contact your Regional Manager.  
Not all products are available globally.





# Driven by Innovation

Multi-purpose soft tissue ablation systems with a variety of specialized electrodes.

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## Mission

The world's medical device market is showing remarkable growth, driven by cutting edge minimally-invasive technology. Having the business agility of a venture company, RF Medical maintains a high commitment to R&D and introduces advanced technologies that can lead to market creation. The cornerstone of RF Medical is radiofrequency ablation, which is utilized in a wide range of clinical settings.

Improving the health and safety of patients and their families is our top priority, and we are dedicated to carrying this mission as a leading medical device company through continuous investments in a superior workforce and R&D. Moreover, with relentless endeavors to be at the forefront of the market, we strive to address the most pressing needs of our customers.

To further our dedication on to improving overall healthcare through pioneering medical devices, RF Medical is committed to developing effective, affordable, and less invasive medical devices. It is our pledge to provide the highest quality products and services to current and future customers, and to improve global healthcare.

### Company

# Improved outcomes with RF MEDICAL

Radiofrequency Ablation

Decades of Experience

Available in More Than 60  
Countries Around the World

Focus on R&D

Patient-Oriented

World Class Customer  
Service



## Philosophy

### Focus on R&D

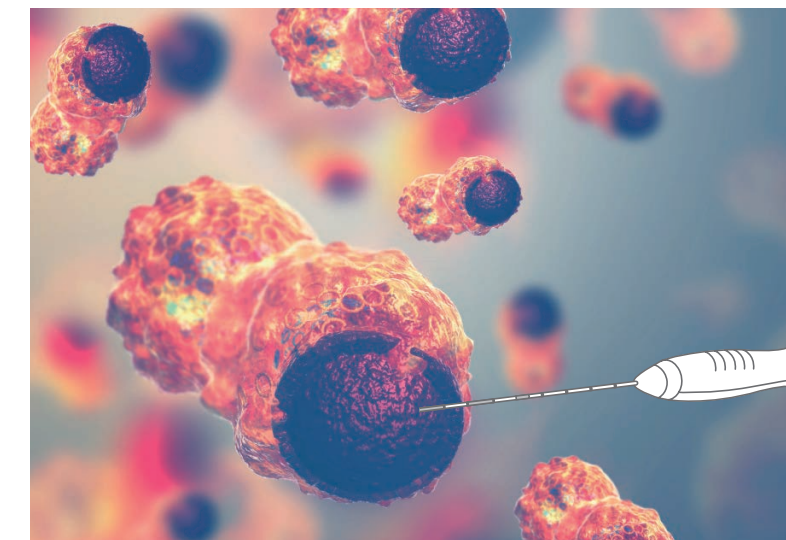
We strive to find better treatment modalities for diseases and invest heavily in research & development to commercialize advanced devices.

### Patient-Oriented

Patients are our top priority. As such, our main goal is to provide the best treatment options with proven technologies for every patient.

### World Class Customer Service

We strive to achieve a high level of customer satisfaction by offering prompt and reliable support to our customers worldwide. With continuous dedication and commitment to providing world class customer support, we welcome any feedback and communications that can lead to opportunities to improve customer experiences.





Awards



Certificate of Designation  
Small Giant  
Company of Korea



Certificate of Hi-Seoul  
Company



K-Inno Medtech by  
the Korean Ministry  
of Health and Welfare



Silver Tower Medal,  
The Order of  
Industrial  
Service Merit

Certificates



U.S. FDA 510(k)



CE 1639



ISO 13485:2016



Korea MFDS



R-GOST



Japan



Taiwan TFDA



Australia TGA



KGMP



Brazil ANVISA



China NMPA



New Zealand



KSA



UAE

Company

Patient-Oriented  
Technology



11  
National registered patents

5  
International registered patents  
(USA, Japan, China, Germany, France, UK, Italy, Spain, etc.)

10  
Patents pending approval

14+  
International registered certificates

U.S. FDA 510(k)  
CE 1639  
ISO 13485  
Korea MFDS  
R-GOST  
Japan  
Taiwan TFDA  
Australia TGA  
KGMP  
Brazil ANVISA  
China NMPA  
New Zealand  
KSA  
UAE  
And more

Intellectual Properties

Korea



Japan



China



Europe



U.S.A







History

2022

- DEC. - Obtained MFDS approval for THYBLATE-V (RFTV)
- SEP. - Obtained FDA 510(k) clearance for Mygen™ M-3004 and a series of electrodes, including MYOBLATE™
- JAN. - Designated as the "K-Inno Medtech" by the Korean Ministry of Health and Welfare
- Obtained NMPA approval from China for BT

2021

- JAN. - Designated as the "Hi-Seoul" company by the city of Seoul and Seoul Business Agency

2020

- JUN. - Designated as the "Global Small Giant" and "Inno-Biz" by the Korean Ministry of SMEs
- JAN. - Acquired the certificate of Kazakhstan MOH

2019

- NOV. - Awarded as a World Class Product of Korea
- MAY. - Established a European branch in Frankfurt, Germany

2018

- NOV. - Obtained FDA approval from the United States

2017

- AUG. - Acquired the certificate of ANVISA from Brazil

2016

- NOV. - Established a European branch in the Netherlands
- OCT. - Acquired CE for Tumescantor™

Company

The way to  
a Healthier World



2015

- MAY. - Registered electrode patent in the United States
- JAN. - Registration of patent for electrode - JE1489197HO

2014

- OCT. - Registration of patent for electrode - JE1449965HO
- JUN. - Appointed as a participant of Active Catheter System development project by The Ministry of Health & Welfare [Main organizer : Asan Medical Center]

2013

- JAN. - Registration of patent for RF electrode - JE1227073HO

2012

- OCT. - Awarded as a Korean World-Class Product Manufacturer from The Ministry of Knowledge Economy
- JUN. - Appointed as a participant of Interventional surgical robot development project by The Ministry of Trade, Industry & Energy [Main organizer : Asan Medical Center]
- JAN. - Registration of patent for RF electrode - JE1108569HO

2011

- AUG. - Acquired the certificate of SFDA from China
- JUN. - Registered electrode patent in China

2010

- MAR. - Acquired the certificate of TFDA in Taiwan

2009

- NOV. - Acquired the certificate of GOST in Russia
- MAY. - Registered electrode patent in Japan

2008

- APR. - Registration of patent for RF electrode - JE0825872HO

2007

- OCT. - Registration of patent for RF electrode - JE0773587HO
- APR. - Certified RF Myolysis as New Medical Technology by The Ministry of Health & Welfare

2006

- DEC. - Registration of patent for RF electrode - JE640283HO
- JUL. - Appointed as a Venture Business by The Small & Medium Business Administration
- JUN. - Established a Research Institute certified by the Korea Industrial Technology Association
- FEB. - Acquired certificate of KGMP from KFDA

2005

- NOV. - Converted into a corporation, RF Medical Co., Ltd.
- SEP. - Acquired the certificates of CE 0120, ISO 9001 and ISO 13485 from SGS United Kingdom Ltd.
- JAN. - Registration of patent for RF electrode - JE466866HO

2004

- AUG. - Registration of the manufacturing facilities
- JUL. - Acquired the certificate of manufacturing and license of items from the KFDA

2003

- DEC. - Established a private firm, RF Medical systems





# Commitment to Quality and Excellence

Advanced Soft Tissue Ablation Systems

## Products

Generators

Electrodes

VeinCLEAR™ System

## What is Radiofrequency Ablation?

Radiofrequency ablation (RFA) is a medical intervention in which part of the electrical conduction system of the tumor or other dysfunctional tissue is ablated using the heat generated from high frequency alternating current (in the range of 350–500kHz). RFA is generally conducted in an outpatient settings, using either local anesthetics or conscious sedation anesthesia.

Compared to low frequency AC or pulses of DC, RF energy offers two important advantages. First, the energy does not directly stimulate the nerves or heart muscle, and therefore can be used without general anesthesia; and second, RF energy delivers targeted and highly precise ablative energy that avoids healthy tissue.

In recent years, documented benefits have led to RFA becoming more broadly adopted. RFA procedures are performed under image guidance (such as X-ray screening, CT scan or ultrasound) by a wide range of clinical specialists.

## Generators

A range of professional series RF Generators to meet the exact needs of physicians

MYGEN™ M-3004



200W Multi-functional generator with various treatment algorithms. Can be used with up to 3 electrodes at once.

\* See pages 12 and 13 for more information

MYGEN™ V-1000



140W Compact generator with various treatment algorithms. Can be used with a single electrode.

\* See page 14 for more information

VeinCLEAR™ V-700



Generator dedicated for endovenous thermal ablation with intuitive UI and usability.

\* See pages 26 and 28 for more information

# MYGEN™ M-3004

200W multi-functional RF ablation system generator



Features

- Supports both monopolar & bipolar needle switching mode
- Compatible with various electrode types
- Various treatment algorithms (modes) available
- 7" LCD touch screen
- Self-test function upon startup
- Dual controlling system, by touch screen monitor & foot switch
- 3 channels of temperature sensing at the same time
- Multilanguage support with audio guidance
- Patient pad monitoring system

Specifications

Protection Class	I
Protection Type	BF
Input Power Voltage	AC 110V, 127V, 220V-240V
Input Power Frequency	50/60Hz
Maximum Input Power	410VA
Output RF Frequency	480kHz
Output RF Power	200W
Measuring Temperature	1°C-200°C
Load Impedance Range	Z=25~1000 Ω at 480 kHz
Alarm Sound	65dB

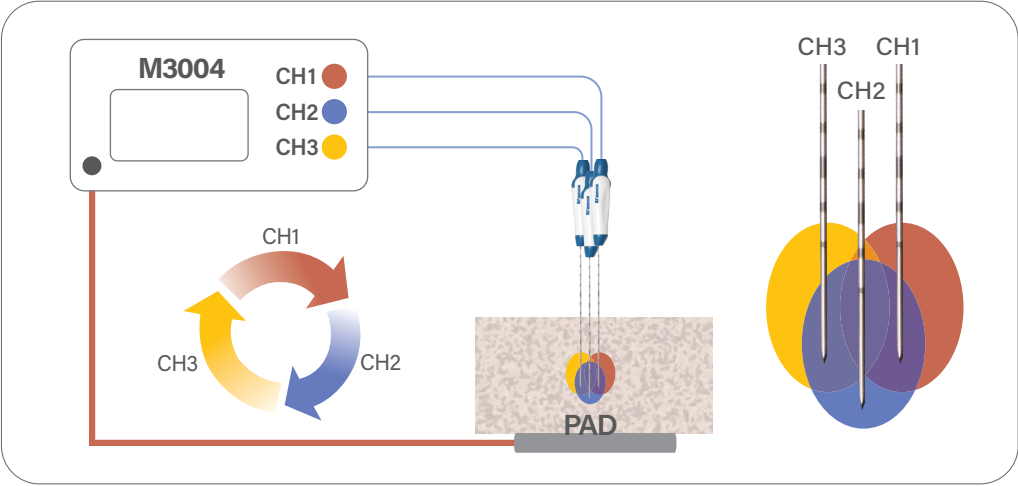
\* Specifications are subject to change without notice.  
\* The Mygen M-3004 is FDA 510(k) cleared.

## MYGEN™ M-3004 - Needle switching modes

Needle switching enables the electrodes to deliver a combination of monopolar and bipolar RF depending on its application.  
Twins or Triple electrodes can be used instead of 3 single electrodes.

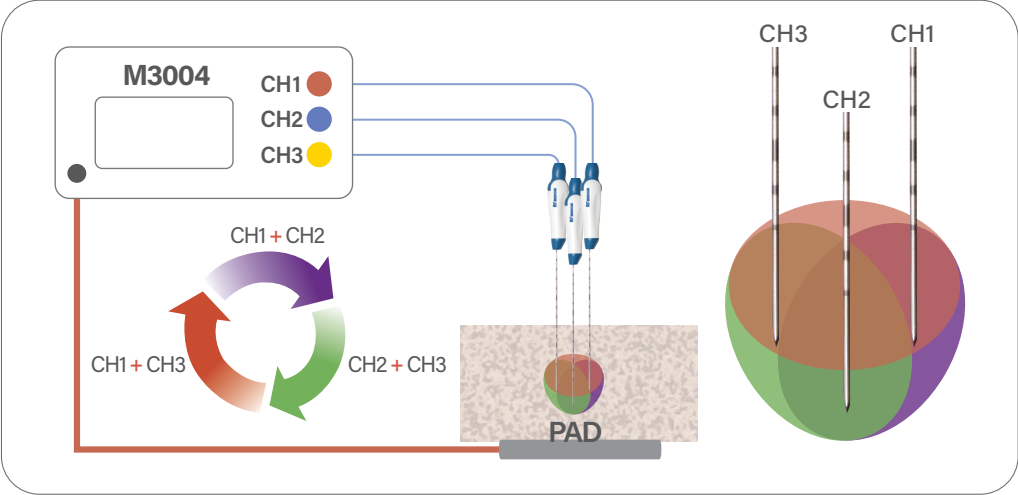
Single monopolar

Connect 3 single electrodes to each channel and all electrodes deliver monopolar RF in turns.



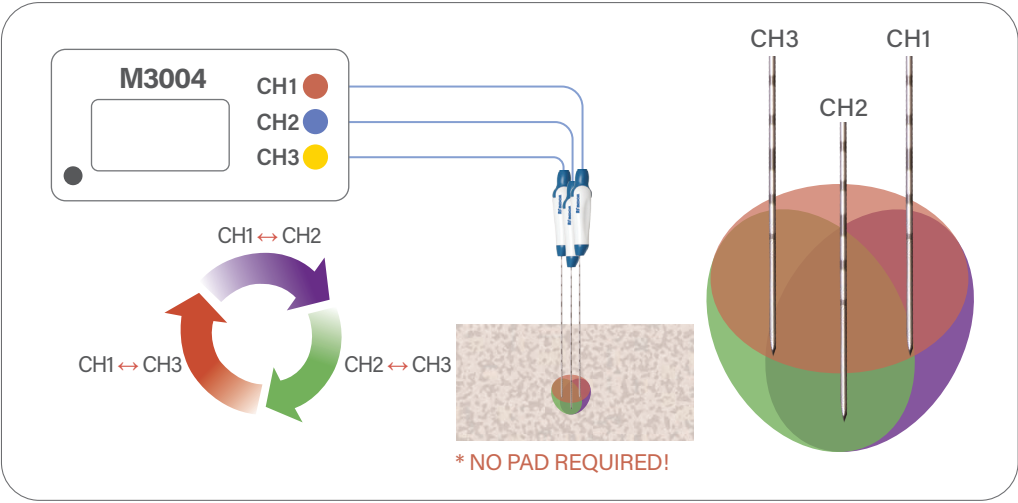
Dual monopolar

Connect 3 single electrodes to each channel and 2 of them deliver simultaneous monopolar RF in turns.



Bipolar

Connect 3 single electrodes to each channel 2 of them deliver bipolar RF in turns.





# MYGEN™ V-1000

140W compact multi-functional RF ablation system generator



### Features

- Compatible with various electrode types
- Various treatment algorithms (modes) available
- 7" LCD touch screen
- Self-test function upon startup
- Multilanguage support with audio guidance
- Patient pad monitoring system
- Dual controlling system, by touch screen monitor & foot switch

### Specifications

Protection Class	I
Protection Type	BF
Input Power Voltage	AC 110V, 127V, 220V-240V
Input Power Frequency	50/60Hz
Maximum Input Power	300VA
Output RF Frequency	480kHz
Output RF Power	140W
Measuring Temperature	1°C-200°C
Load Impedance Range	Z=25~1000 Ω at 480 kHz
Alarm Sound	65dB
Software Type	A, T, & G Type

\* The Mygen V-1000 is FDA 510(k) cleared.

# Electrodes

Industry leading quality and design

RF MEDICAL electrodes are used for an electro-cautery apparatus and the electro-surgical instrument. The electro-surgical generator is intended for monopolar and bipolar coagulation in surgical operations in the following areas;

- ♦ Interventional radiology
- ♦ Oncology
- ♦ Endocrinology
- ♦ General Surgery
- ♦ Radiology
- ♦ Hepatobiliary
- ♦ Head & Neck Surgery
- ♦ Gynecology

### Big-Tip™

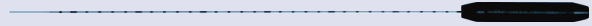


### V-Tip™



### JET-TIP®

Single-Straight Type



Single-Articulating Type



Duo Type



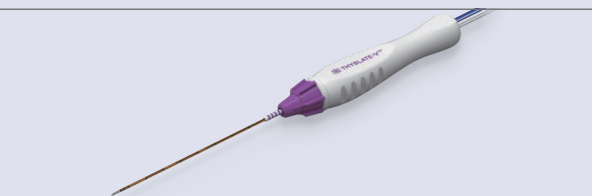
### JET-TIP® Twins & Triple



### THYBLATE™

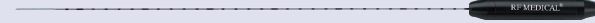


### THYBLATE-V™

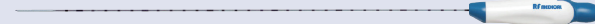


### Big-Tip™ & V-Tip™ (25-35cm Length)

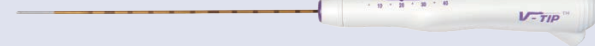
Standard Type



Articulating Type



Adjustable type



### EM-Tip



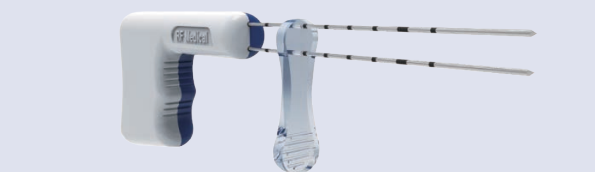
### BMDT



### CysTip™



### DBT



### HemoTip™

Hemostasis



### VeinCLEAR™ Catheter

Endovascular coagulation of blood vessels

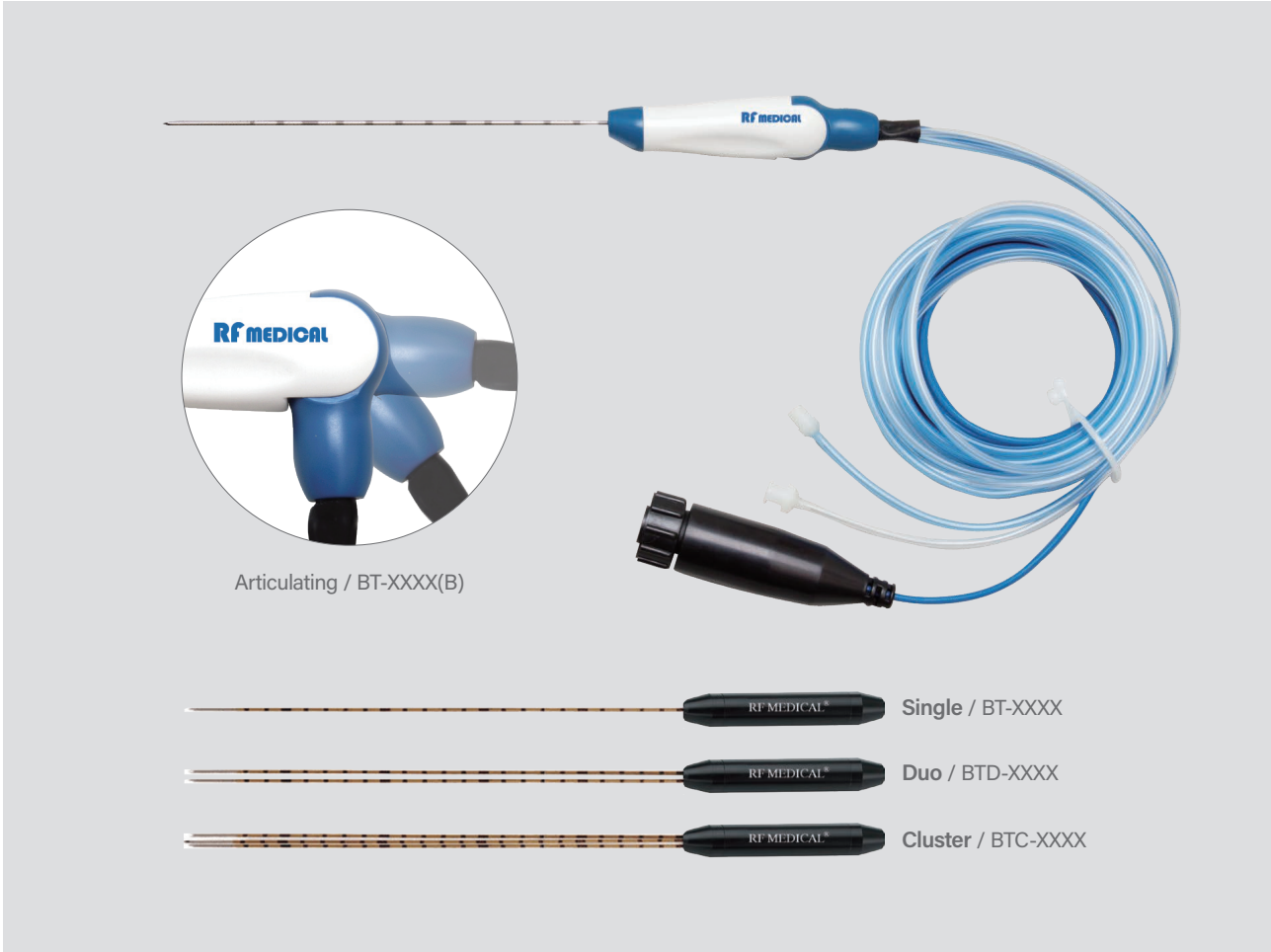


\* The approved product models vary by country. Please consult our local representatives before placing your order as certain models may not be available in your country. Unless otherwise indicated, all Electrodes in the catalog are sterile and specified for single use only.



# Big-Tip™

Internally cooled electrode in a variety of types



Articulating / BT-XXXX(B)

Single / BT-XXXX

Duo / BTD-XXXX

Cluster / BTC-XXXX

## Specifications

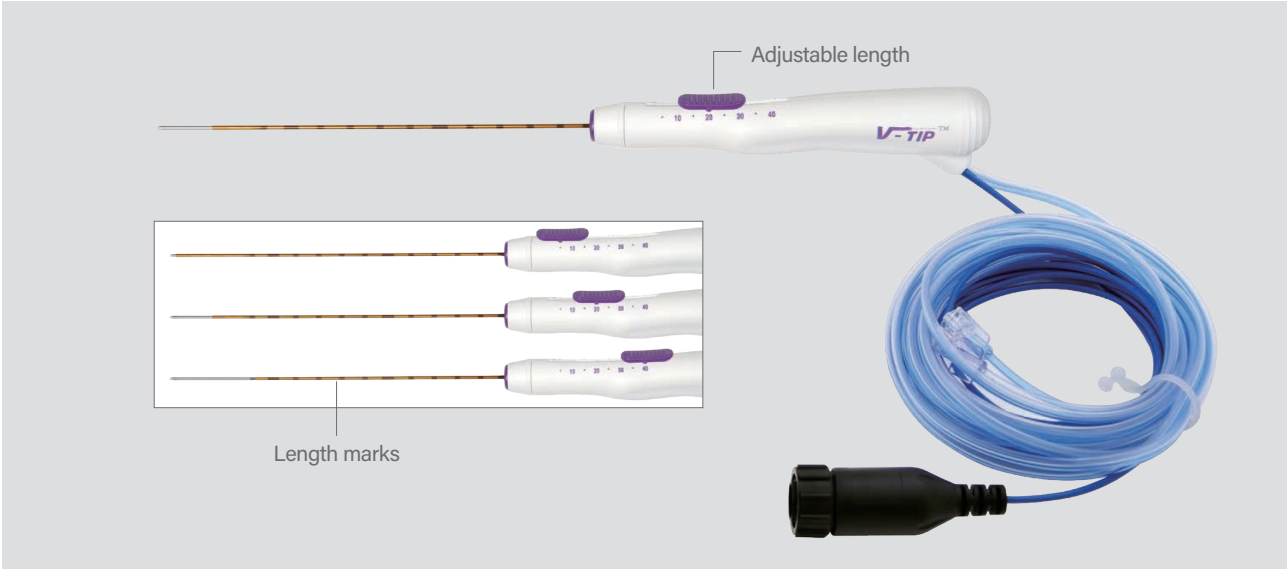
Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
BT 1005~1040(B)	Ø1.5mm	10cm	0.5~4.0cm (5mm Intervals)	Single Cooled Tip	MYGEN M-3004 & V-1000
BT 1505~1540(B)	Ø1.5mm	15cm			
BT 2005~2040(B)	Ø1.5mm	20cm			
BT 2505~2540(B)	Ø1.5mm	25cm			
BTW 1505~1540(B)	Ø1.8mm	15cm			
BTW 2005~2040(B)	Ø1.8mm	20cm			
BTD 1505~1540	Ø1.5mm	15cm		Duo Cooled Tip	
BTD 2005~2040	Ø1.5mm	20cm			
BTWD 1505~1540	Ø1.8mm	15cm			
BTWD 2005~2040	Ø1.8mm	20cm			
BTC 1505~1540	Ø1.5mm	15cm			
BTC 2005~2040	Ø1.5mm	20cm			

\* Big-Tip is available in two different types of handle. Standard type(BT 1005, BT 1020, ...) and Articulating type(BT 1005B, BT 1020B, ...)

# V-Tip™ (Variable Exposure Length Tip)

Internally cooled and exposure tip length adjustable electrode

Adjustable length of a tip reduces the need to carry a wide range of electrodes in inventory. Provides convenience when treating different size of lesions.



Adjustable length

Length marks

## Features

- The internal cooling system prevents contiguous tissue from charring.
- The exposure tip length is adjustable from 0.5cm to 4.0cm, which makes it possible to treat various lesions in different sizes with just one electrode.
- There are length marks in centimeters on the body of the electrode, which helps the operator to identify how deep the electrode is inserted.
- Real-time temperature monitoring is possible through the connected RF generator.

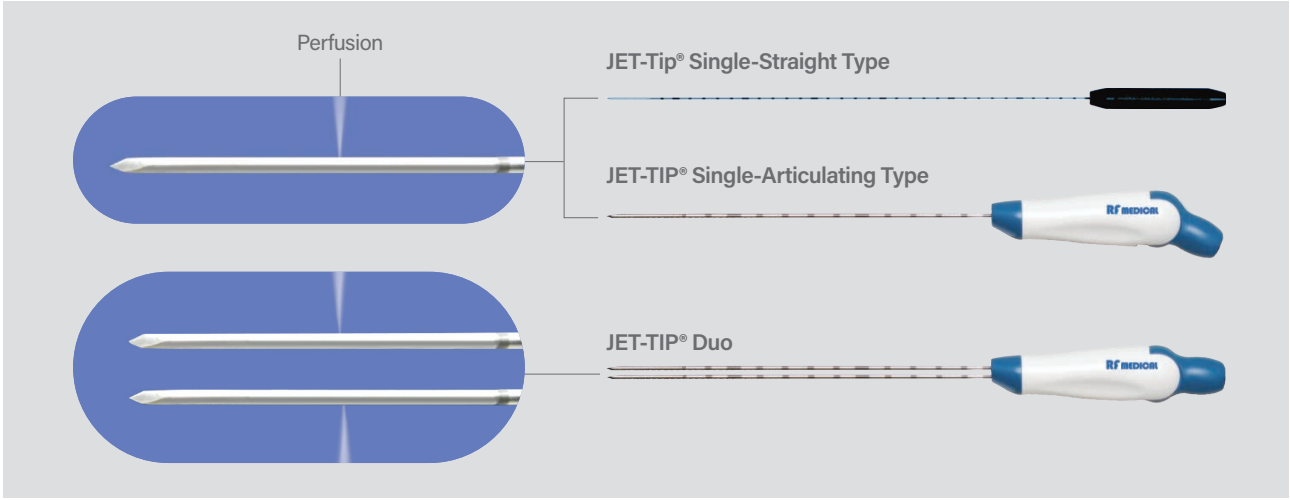
## Specifications

Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
VCT 10XXB	Ø1.5mm	10cm	0.5~4.0cm (5mm Intervals)	Cooled Tip with Variable Exposure Length	MYGEN M-3004 & V-1000
VCT 12XXB	Ø1.5mm	12cm			
VCT 15XXB	Ø1.5mm	15cm			
VCT 20XXB	Ø1.5mm	20cm			
VCT 25XXB	Ø1.5mm	25cm			
VCT 30XXB	Ø1.5mm	30cm			
VCT 35XXB	Ø1.5mm	35cm			
VCTM 10XXB	Ø1.65mm	10cm			
VCTM 15XXB	Ø1.65mm	15cm			
VCTM 20XXB	Ø1.65mm	20cm			
VCTM 25XXB	Ø1.65mm	25cm			
VCTM 30XXB	Ø1.65mm	30cm			
VCTM 35XXB	Ø1.65mm	35cm			
VCTW 10XXB	Ø1.8mm	10cm			
VCTW 15XXB	Ø1.8mm	15cm			
VCTW 20XXB	Ø1.8mm	20cm			
VCTW 25XXB	Ø1.8mm	25cm			
VCTW 30XXB	Ø1.8mm	30cm			
VCTW 35XXB	Ø1.8mm	35cm			

# JET-TIP® (Cooled Wet Tip)

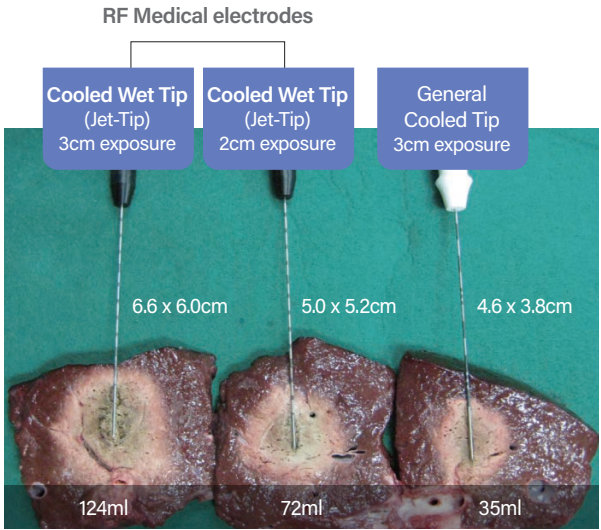
PATENTED

Internally cooled & perfused type of electrode



## Features

- Perfused saline hinders contiguous tissue from charring and causes more ionic agitation, which aids the heat energy to travel further and leads to larger and more round ablation than the regular internally cooled electrode.<sup>1-4</sup>
- Various exposure tip lengths are available for various lesion sizes.
- Echogenic depth marks assist with proper electrode placement under ultrasound.
- The articulating Electrode handle adjusts up to ninety degrees, which allows the electrodes to safely fit within the CT gantry.



Tested on the same bovine liver

## Specifications

Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
CWTN 1505~1540(B)	Ø1.5mm	15cm	0.5~4.0cm (5mm Intervals)	Single Cooled Wet Tip	MYGEN M-3004 & V-1000
CWTN 2005~2040(B)	Ø1.5mm	20cm			
CWTN 2505~2540(B)	Ø1.5mm	25cm			
CWTN 1505Q~1540Q(B)	Ø1.8mm	15cm			
CWTN 2005Q~2040Q(B)	Ø1.8mm	20cm			
CWTN 2505Q~2540Q(B)	Ø1.8mm	25cm		Duo Cooled Wet Tip	
CWTND 1505~1540	Ø1.5mm	15cm			
CWTND 2005~2040	Ø1.5mm	20cm			
CWTND 1505Q~1540Q	Ø1.8mm	15cm			
CWTND 2005Q~2040Q	Ø1.8mm	20cm			
CWTNC 1505~1540	Ø1.5mm	15cm	Cluster Cooled Wet Tip		
CWTNC 2005~2040	Ø1.5mm	20cm			

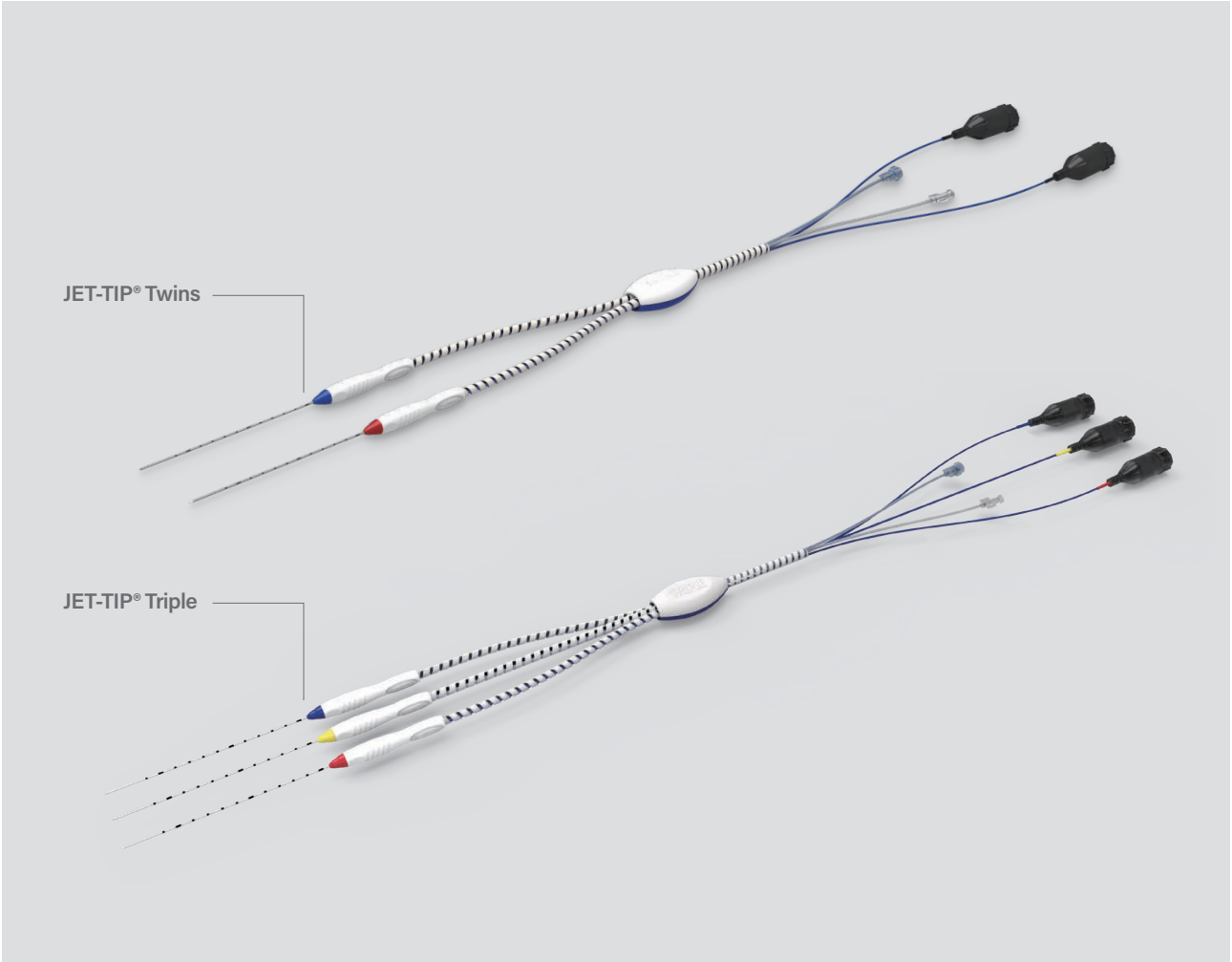
## References

1. Percutaneous radiofrequency ablation using internally cooled wet electrodes for treatment of colorectal liver metastases. Clin Radiol. 2012 Feb;67(2):122-7. Epub 2011 Sep 8.
2. Percutaneous radiofrequency ablation using internally cooled wet electrodes for the treatment of hepatocellular carcinoma. AJR Am J Roentgenol. 2012 Feb;198(2):471-6.
3. Percutaneous Radiofrequency Ablation with Internally Cooled versus Internally Cooled Wet Electrodes for Small Subphrenic Hepatocellular Carcinomas. J Vasc Interv Radiol. 2013 Mar;24(3):351-6. Epub 2013 Feb 4.
4. Switching bipolar hepatic radiofrequency ablation using internally cooled wet electrodes: comparison with consecutive monopolar and switching monopolar modes. Br J Radiol. 2015;88:20140468.

# JET-TIP® Twins & Triple

PATENTED

Needle Switching electrodes with saline perfusion



## Features

- Independent temperature sensor and RF cable for each needle.
- United cooling system tubes.
- Larger ablation zone than single electrode by sequential ablation by needle switching

## Specifications

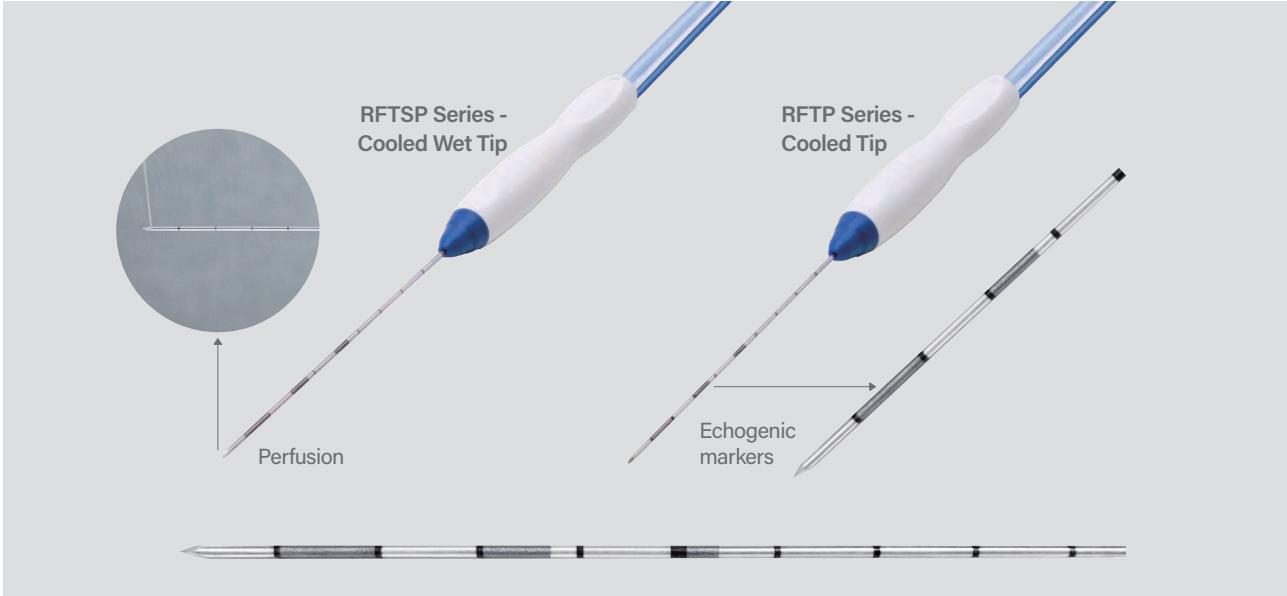
Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
CWTN-T1505~1540	Ø1.5mm	15cm	0.5~4.0cm (5mm Intervals)	Jet-Tip® Twins	MYGEN M-3004
CWTN-T2005~2040	Ø1.5mm	20cm			
CWTN-T1505Q~1540Q	Ø1.8mm	15cm			
CWTN-T2005Q~2040Q	Ø1.8mm	20cm			
CWTN-TRI1505~1540	Ø1.5mm	15cm		Jet-Tip® Triple	
CWTN-TRI2005~2040	Ø1.5mm	20cm			
CWTN-TRI1505Q~1540Q	Ø1.8mm	15cm			
CWTN-TRI2005Q~2040Q	Ø1.8mm	20cm			



# THYBLATE™

PATENTED

Scalpel sharp needles are internally-cooled, and are available with or without saline perfusion



Features

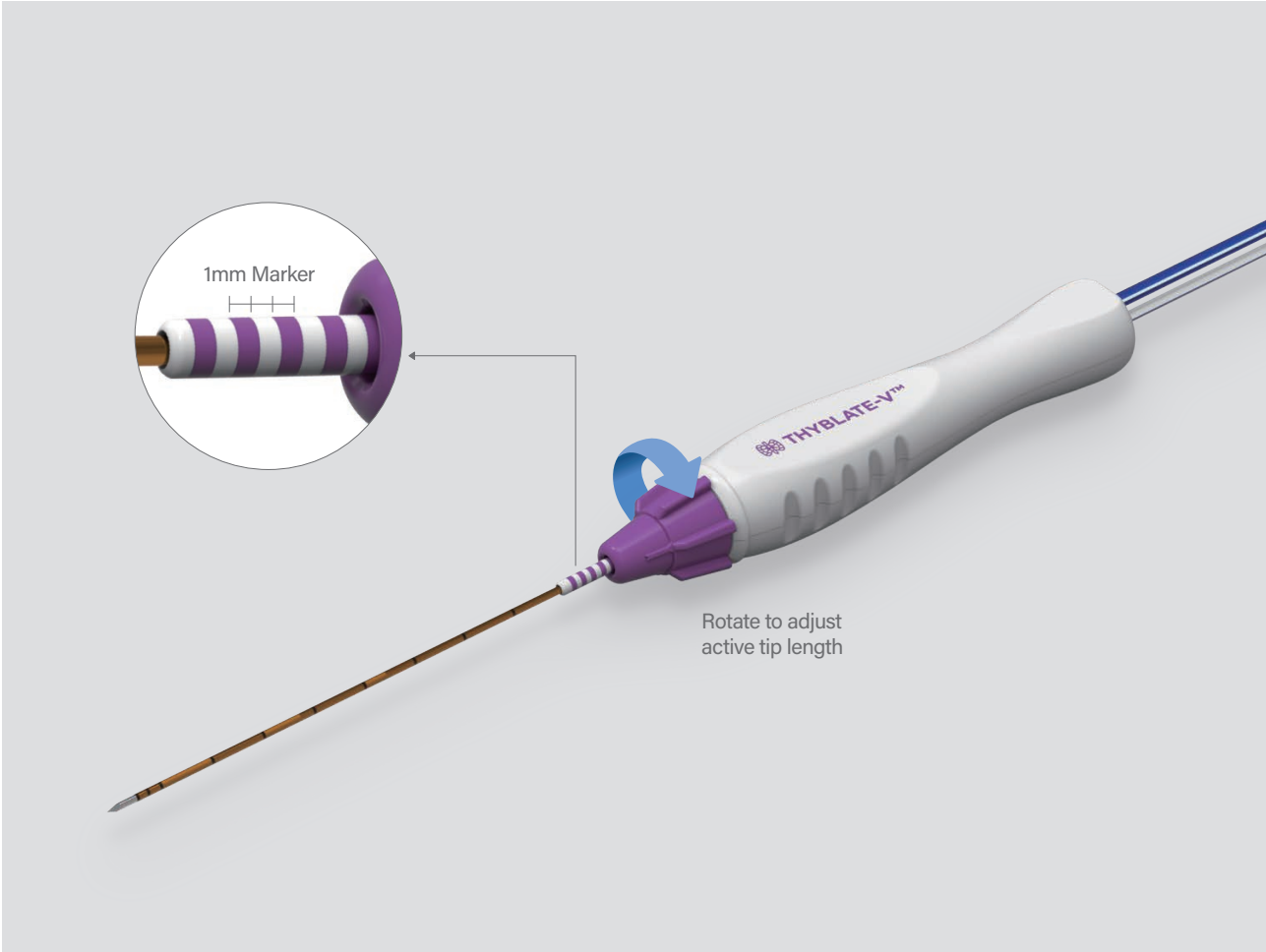
- 2 Types, Cooled Tip and Cooled Wet Tip
  - Ultra thin needles: available in both 18G and 19G
  - Short, ergonomic needles: in 7cm & 10cm (2.7 inch & 4 inch)
  - Wide variety of exposure tip lengths: available in 3\*, 4, 5, 10, 15, 20mm
  - Echogenic markers on the 2nd, 4th, and 6th centimeter provide enhanced ultrasound visibility
- \* 3mm active tip is the smallest exposure tip size available in the market.
- \* THYBLATE™ electrode series are FDA 510(K) cleared.

Specifications

Product Code	Diameter	Length	Exposure Length	Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
<a href="#">RFTP 0703LN</a>	Ø1.0mm	7cm	0.3cm	<a href="#">RFTP 0703N</a>	Ø1.2mm	7cm	0.3cm	Cooled Tip	MYGEN M-3004 & V-1000
<a href="#">RFTP 0704LN</a>	Ø1.0mm	7cm	0.4cm	<a href="#">RFTP 0704N</a>	Ø1.2mm	7cm	0.4cm		
<a href="#">RFTP 0705LN</a>	Ø1.0mm	7cm	0.5cm	<a href="#">RFTP 0705N</a>	Ø1.2mm	7cm	0.5cm		
<a href="#">RFTP 0707LN</a>	Ø1.0mm	7cm	0.7cm	<a href="#">RFTP 0707N</a>	Ø1.2mm	7cm	0.7cm		
<a href="#">RFTP 0710LN</a>	Ø1.0mm	7cm	1.0cm	<a href="#">RFTP 0710N</a>	Ø1.2mm	7cm	1.0cm		
<a href="#">RFTP 0715LN</a>	Ø1.0mm	7cm	1.5cm	<a href="#">RFTP 0715N</a>	Ø1.2mm	7cm	1.5cm		
<a href="#">RFTP 1003LN</a>	Ø1.0mm	10cm	0.3cm	<a href="#">RFTP 1003N</a>	Ø1.2mm	10cm	0.3cm		
<a href="#">RFTP 1004LN</a>	Ø1.0mm	10cm	0.4cm	<a href="#">RFTP 1004N</a>	Ø1.2mm	10cm	0.4cm		
<a href="#">RFTP 1005LN</a>	Ø1.0mm	10cm	0.5cm	<a href="#">RFTP 1005N</a>	Ø1.2mm	10cm	0.5cm		
<a href="#">RFTP 1007LN</a>	Ø1.0mm	10cm	0.7cm	<a href="#">RFTP 1007N</a>	Ø1.2mm	10cm	0.7cm		
<a href="#">RFTP 1010LN</a>	Ø1.0mm	10cm	1.0cm	<a href="#">RFTP 1010N</a>	Ø1.2mm	10cm	1.0cm		
<a href="#">RFTP 1015LN</a>	Ø1.0mm	10cm	1.5cm	<a href="#">RFTP 1015N</a>	Ø1.2mm	10cm	1.5cm		
<a href="#">RFTSP 0703LN</a>	Ø1.0mm	7cm	0.3cm	<a href="#">RFTSP 0703N</a>	Ø1.2mm	7cm	0.3cm	Cooled Wet Tip	
<a href="#">RFTSP 0704LN</a>	Ø1.0mm	7cm	0.4cm	<a href="#">RFTSP 0704N</a>	Ø1.2mm	7cm	0.4cm		
<a href="#">RFTSP 0705LN</a>	Ø1.0mm	7cm	0.5cm	<a href="#">RFTSP 0705N</a>	Ø1.2mm	7cm	0.5cm		
<a href="#">RFTSP 0707LN</a>	Ø1.0mm	7cm	0.7cm	<a href="#">RFTSP 0707N</a>	Ø1.2mm	7cm	0.7cm		
<a href="#">RFTSP 0710LN</a>	Ø1.0mm	7cm	1.0cm	<a href="#">RFTSP 0710N</a>	Ø1.2mm	7cm	1.0cm		
<a href="#">RFTSP 0715LN</a>	Ø1.0mm	7cm	1.5cm	<a href="#">RFTSP 0715N</a>	Ø1.2mm	7cm	1.5cm		

# THYBLATE-V™

Adjustable active tip length



Features

- Can treat multiple sizes of nodules at once
  - More precise ablation with 1mm markers & Better margin control possible
  - Starting exposure-tip length is 3.8mm\*
  - Can adjust the exposure-tip length by 1mm
  - 2 types available - Cooled tip & Cooled wet tip
- \* 3.8mm is the shortest exposure-tip size among adjustable electrodes in the market.

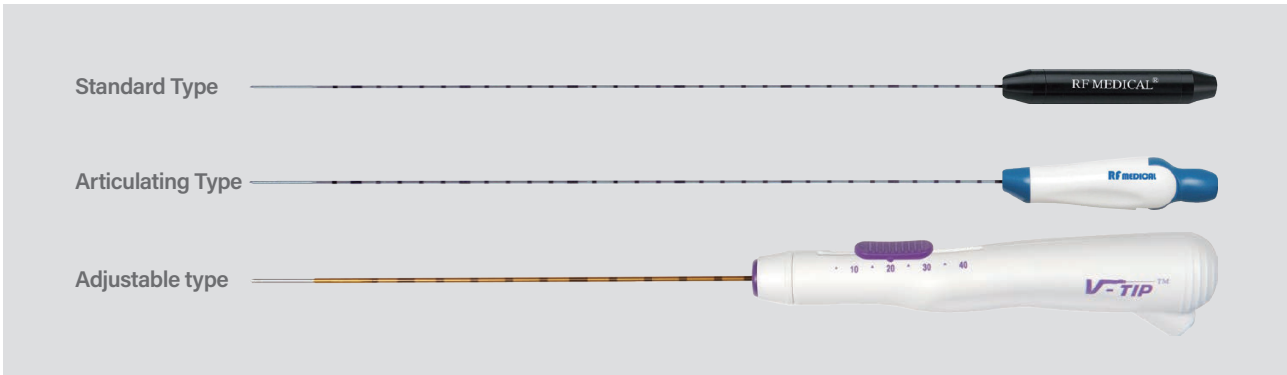
Specifications

Product Code	Diameter	Length	Exposure Length	Type
RFTV-07XXV	Ø1.2mm	7cm	3.8-13.8mm	Cooled Type
RFTV-10XXV		10cm		
RFTVS-07XXV		7cm		Cooled-Wet Type
RFTVS-10XXV		10cm		

\* THYBLATE-V electrodes are currently available for sale in Korea only.

# Big-Tip™ & V-Tip™ (25-35cm Length)

Ideal electrode length for use in percutaneous, intraoperative, and laparoscopic approaches



## Features

- The internal cooling system prevents contiguous tissue from charring

## Specifications

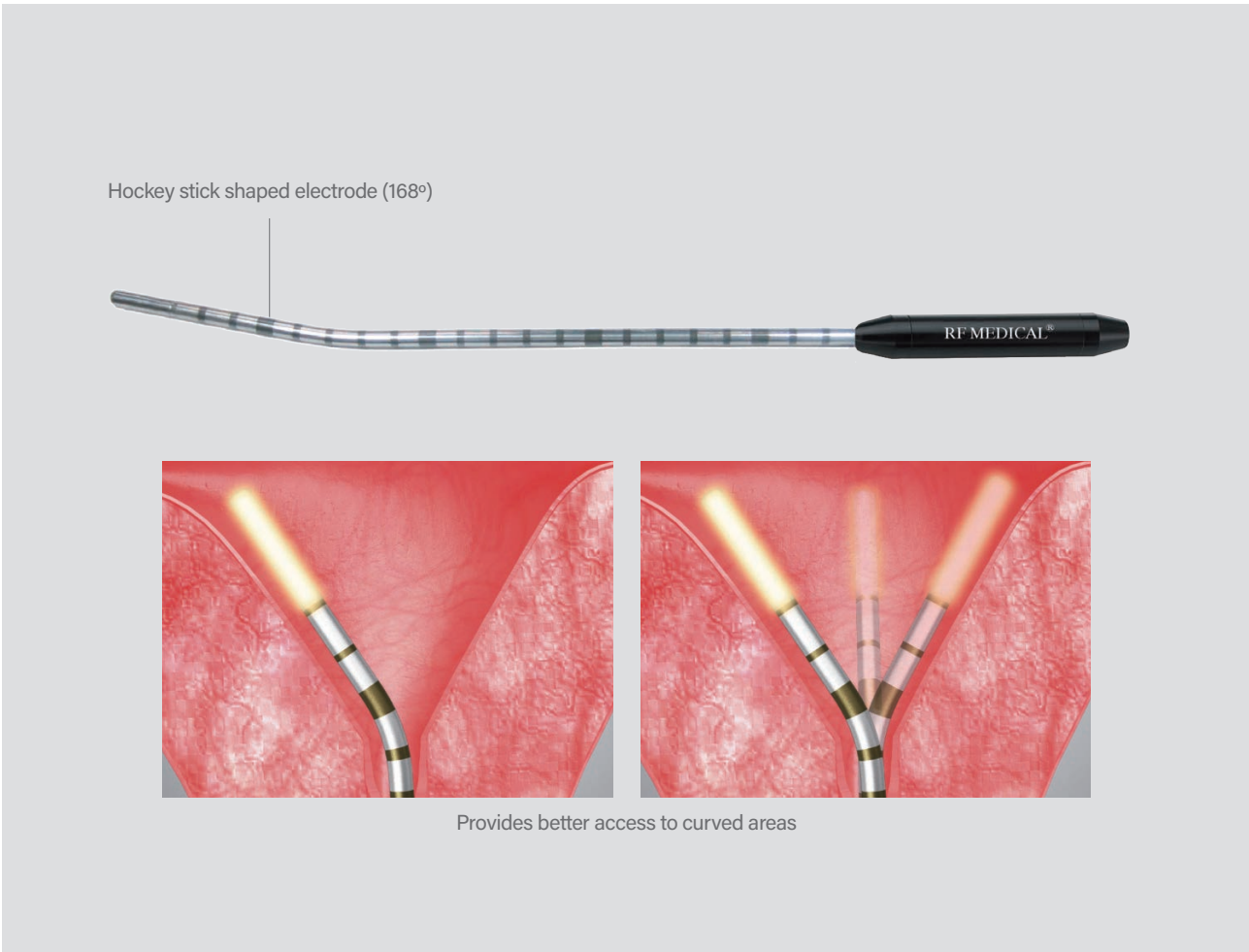
Product Code	Diameter	Length	Exposure Length	Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
BTM 2505R(B)	Ø1.5mm	25cm	0.5cm	BTM 2505Q(B)	Ø1.65mm	25cm	0.5cm	Cooled Tip	MYGEN M-3004 & V-1000
BTM 2510R(B)	Ø1.5mm	25cm	1.0cm	BTM 2510Q(B)	Ø1.65mm	25cm	1.0cm		
BTM 2515R(B)	Ø1.5mm	25cm	1.5cm	BTM 2515Q(B)	Ø1.65mm	25cm	1.5cm		
BTM 2520R(B)	Ø1.5mm	25cm	2.0cm	BTM 2520Q(B)	Ø1.65mm	25cm	2.0cm		
BTM 2525R(B)	Ø1.5mm	25cm	2.5cm	BTM 2525Q(B)	Ø1.65mm	25cm	2.5cm		
BTM 2530R(B)	Ø1.5mm	25cm	3.0cm	BTM 2530Q(B)	Ø1.65mm	25cm	3.0cm		
BTM 2535R(B)	Ø1.5mm	25cm	3.5cm	BTM 2535Q(B)	Ø1.65mm	25cm	3.5cm		
BTM 2540R(B)	Ø1.5mm	25cm	4.0cm	BTM 2540Q(B)	Ø1.65mm	25cm	4.0cm		
BTM 3005R(B)	Ø1.5mm	30cm	0.5cm	BTM 3005Q(B)	Ø1.65mm	30cm	0.5cm		
BTM 3010R(B)	Ø1.5mm	30cm	1.0cm	BTM 3010Q(B)	Ø1.65mm	30cm	1.0cm		
BTM 3015R(B)	Ø1.5mm	30cm	1.5cm	BTM 3015Q(B)	Ø1.65mm	30cm	1.5cm		
BTM 3020R(B)	Ø1.5mm	30cm	2.0cm	BTM 3020Q(B)	Ø1.65mm	30cm	2.0cm		
BTM 3025R(B)	Ø1.5mm	30cm	2.5cm	BTM 3025Q(B)	Ø1.65mm	30cm	2.5cm		
BTM 3030R(B)	Ø1.5mm	30cm	3.0cm	BTM 3030Q(B)	Ø1.65mm	30cm	3.0cm		
BTM 3035R(B)	Ø1.5mm	30cm	3.5cm	BTM 3035Q(B)	Ø1.65mm	30cm	3.5cm		
BTM 3040R(B)	Ø1.5mm	30cm	4.0cm	BTM 3040Q(B)	Ø1.65mm	30cm	4.0cm		
BTM 3505R(B)	Ø1.5mm	35cm	0.5cm	BTM 3505Q(B)	Ø1.65mm	35cm	0.5cm		
BTM 3510R(B)	Ø1.5mm	35cm	1.0cm	BTM 3510Q(B)	Ø1.65mm	35cm	1.0cm		
BTM 3515R(B)	Ø1.5mm	35cm	1.5cm	BTM 3515Q(B)	Ø1.65mm	35cm	1.5cm		
BTM 3520R(B)	Ø1.5mm	35cm	2.0cm	BTM 3520Q(B)	Ø1.65mm	35cm	2.0cm		
BTM 3525R(B)	Ø1.5mm	35cm	2.5cm	BTM 3525Q(B)	Ø1.65mm	35cm	2.5cm		
BTM 3530R(B)	Ø1.5mm	35cm	3.0cm	BTM 3530Q(B)	Ø1.65mm	35cm	3.0cm		
BTM 3535R(B)	Ø1.5mm	35cm	3.5cm	BTM 3535Q(B)	Ø1.65mm	35cm	3.5cm		
BTM 3540R(B)	Ø1.5mm	35cm	4.0cm	BTM 3540Q(B)	Ø1.65mm	35cm	4.0cm		
VCT 25XXB	Ø1.5mm	25cm	0.5cm~4cm	VCTM 25XXB	Ø1.65mm	25cm	0.5cm~4cm	Variable Exposure Cooled Tip	
VCT 30XXB	Ø1.5mm	30cm	0.5cm~4cm	VCTM 30XXB	Ø1.65mm	30cm	0.5cm~4cm		
VCT 35XXB	Ø1.5mm	35cm	0.5cm~4cm	VCTM 35XXB	Ø1.65mm	35cm	0.5cm~4cm		

\* Big-tip for Myoma has two types of handle. Standard type (BTM 2030Q, BTM 2510Q, ... and Bendable type (BTM 2030QB, BTM 2510QB, ...)  
\* Most popular commercial codes are shaded in blue in the table.

# EM-Tip

PATENTED

Hockey Stick shaped electrode



## Features

- In conjunction with the MYGEN™ Generators, the electrode delivers energy by a temperature-controlled algorithm.
- Hockey Stick shaped electrode aids in controlling the ablation zone.

## Specifications

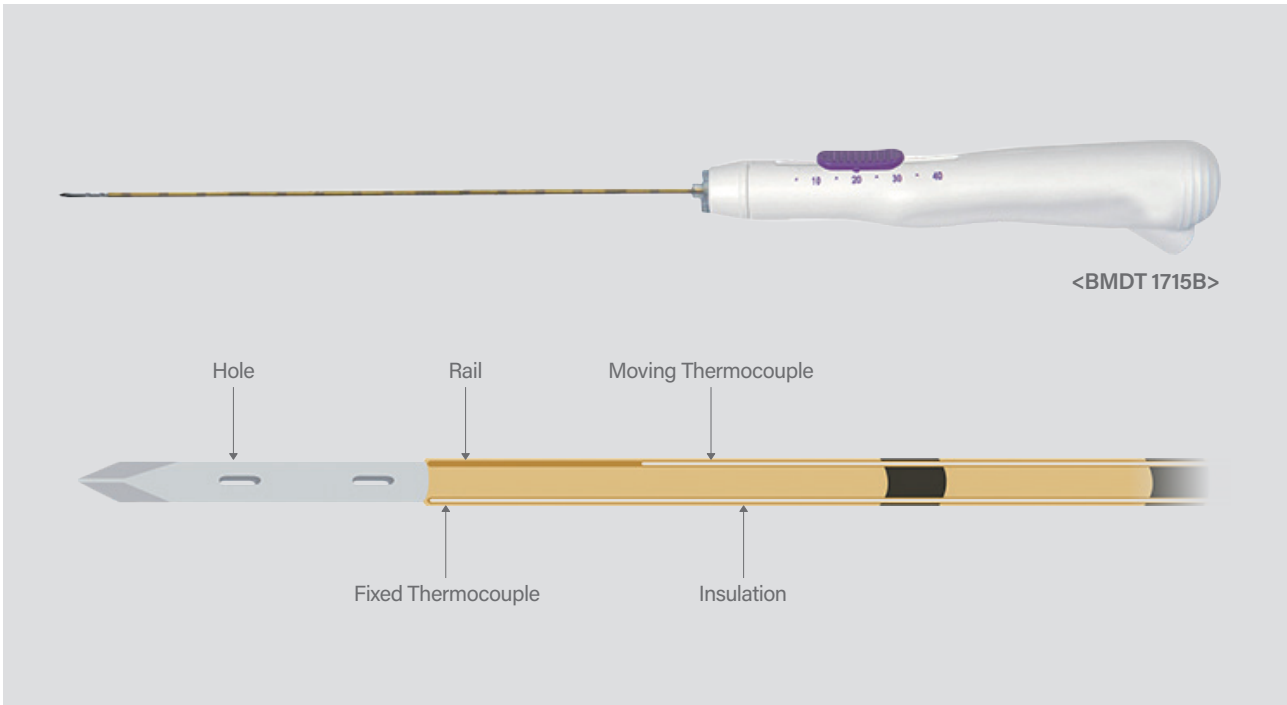
Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
EMT 2305Q	Ø 5.0mm	23cm	0.5cm	Temperature-Controlled Non-Cooled Tip	MYGEN M-3004 & V-1000
EMT 2310Q	Ø 5.0mm	23cm	1.0cm		
EMT 2315Q	Ø 5.0mm	23cm	1.5cm		
EMT 2320Q	Ø 5.0mm	23cm	2.0cm		
EMT 2325Q	Ø 5.0mm	23cm	2.5cm		
EMT 2330Q	Ø 5.0mm	23cm	3.0cm		
EMT 2335Q	Ø 5.0mm	23cm	3.5cm		
EMT 2340Q	Ø 5.0mm	23cm	4.0cm		



# BMDT

PATENTED

Dual temperature sensors on the surface of the electrode



## Features

- In order to accurately measure the temperature of the lesion, the electrode has no internal cooling system.
- Dual temperature sensors
  - Fixed temperature sensor can monitor the temperature of the lesion tissue.
  - Movable temperature sensor can monitor the change in temperature of the neighboring structures in real time.
- Temperature control is possible through the connected generator.
- Can be used under C.T. guidance or C-Arm guidance.

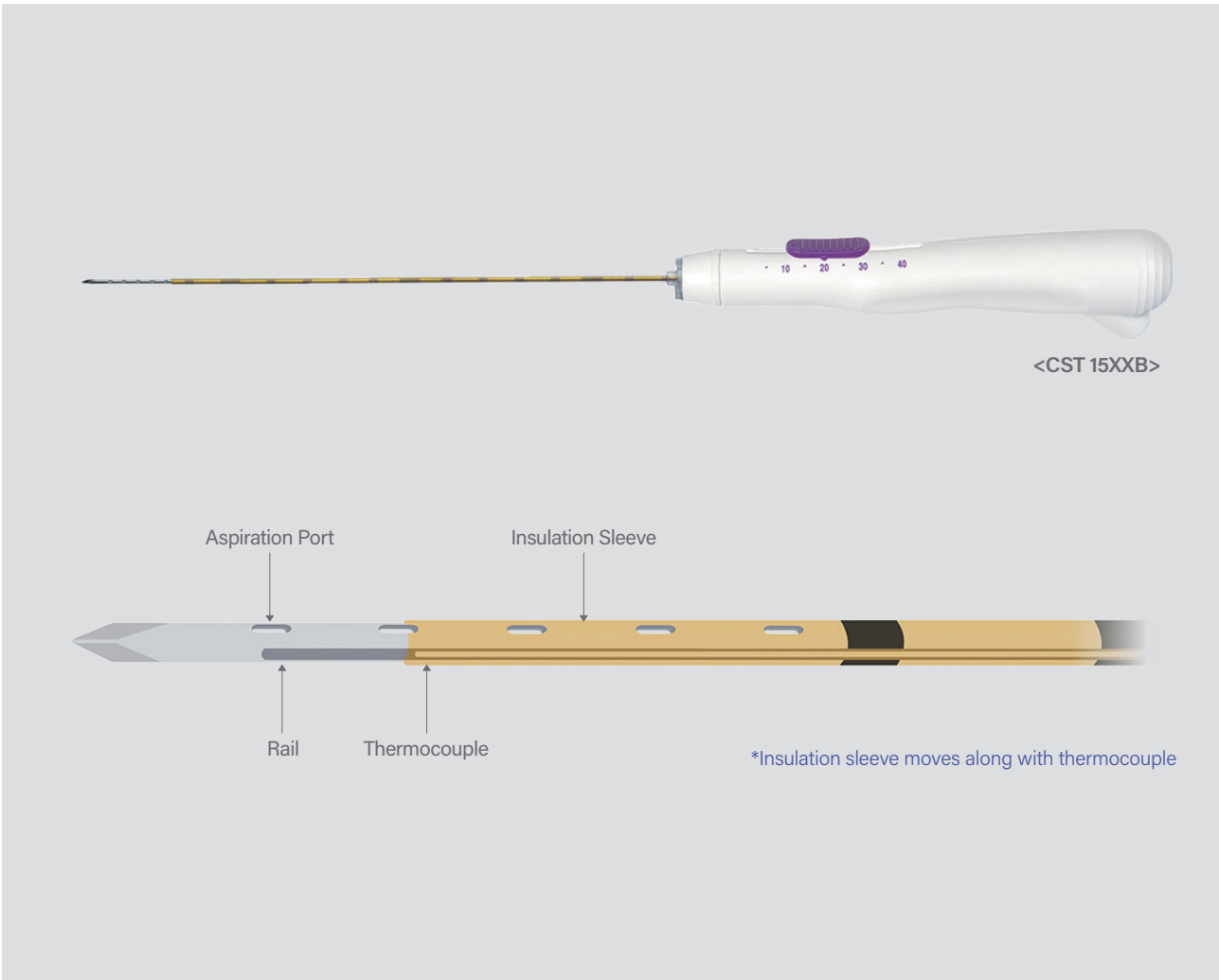
## Specifications

Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
BMDT 1310B	Ø 1.5mm	13cm	1.0cm	Temperature-Controlled Non-Cooled Tip	MYGEN M-3004
BMDT 1315B	Ø 1.5mm	13.5cm	1.5cm		
BMDT 1420B	Ø 1.5mm	14cm	2.0cm		
BMDT 1425B	Ø 1.5mm	14.5cm	2.5cm		
BMDT 1530B	Ø 1.5mm	15cm	3.0cm		
BMDT 1610B	Ø 1.5mm	16.5cm	1.0cm		
BMDT 1715B	Ø 1.5mm	17cm	1.5cm		
BMDT 1720B	Ø 1.5mm	17.5cm	2.0cm		
BMDT 1825B	Ø 1.5mm	18cm	2.5cm		
BMDT 1830B	Ø 1.5mm	18.5cm	3.0cm		

# CysTip™

PATENTED

Electrode with aspiration port and temperature sensor



## Features

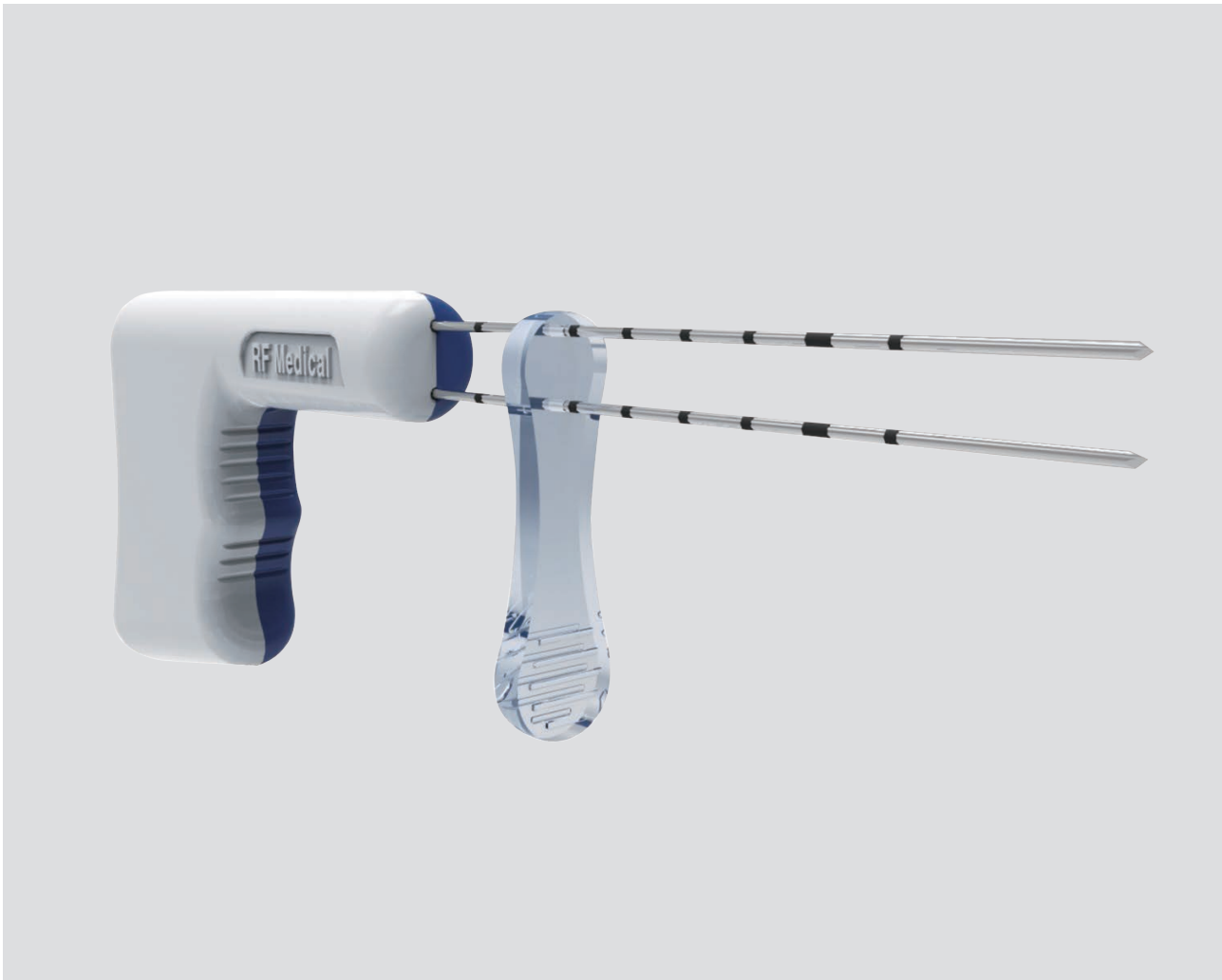
- Can measure the temperature in real-time by moving the temperature sensor.
- Can aspirate liquids through the ports on the needle.
- Applicable for various size of lesions by adjusting the exposure tip length.

## Specifications

Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
CST 10XXB	Ø1.5mm	10cm	0.5cm~4.0cm	Variable Exposure along with moving thermocouple	MYGEN M-3004 & V-1000
CST 15XXB	Ø1.5mm	15cm	0.5cm~4.0cm		
CST 20XXB	Ø1.5mm	20cm	0.5cm~4.0cm		
CST 25XXB	Ø1.5mm	25cm	0.5cm~4.0cm		
CST 30XXB	Ø1.5mm	30cm	0.5cm~4.0cm		
CST 35XXB	Ø1.5mm	35cm	0.5cm~4.0cm		

# DBT

Duo bipolar electrode, two needles in one electrode



## Features

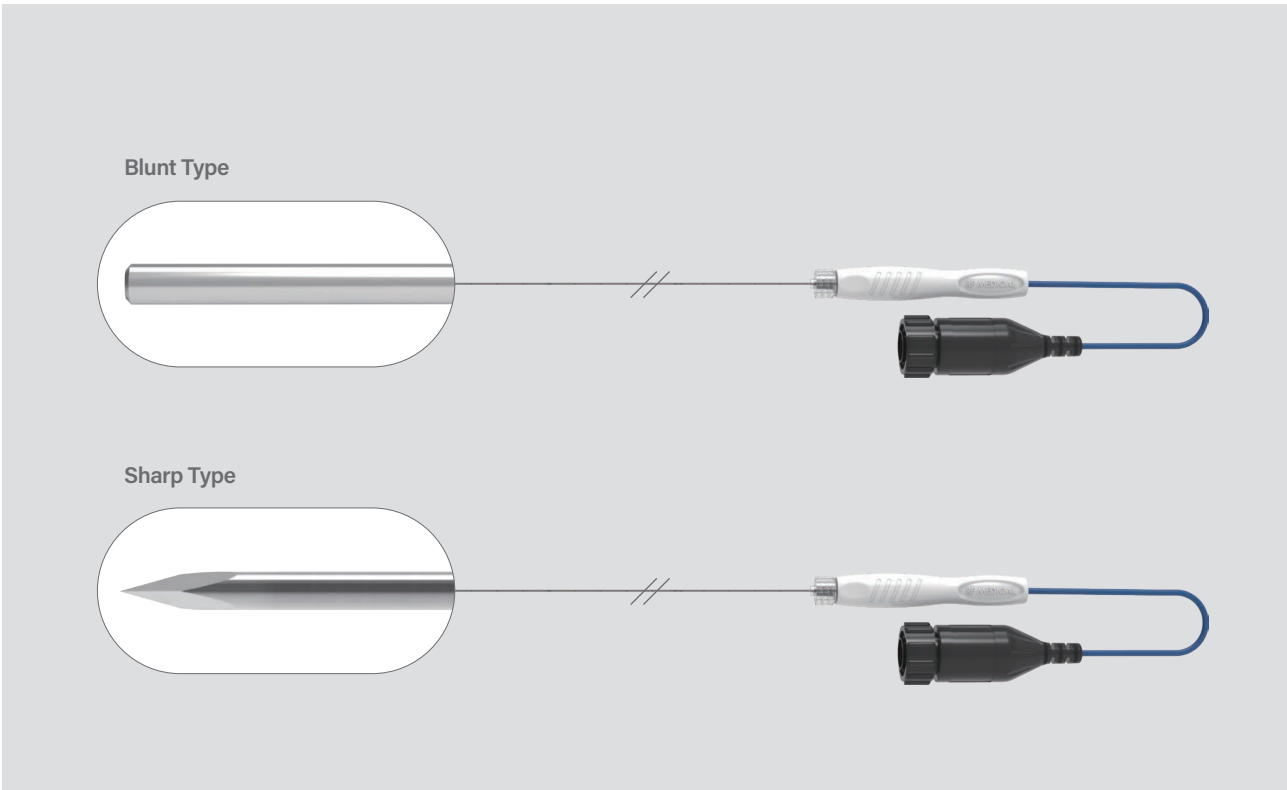
- Designed for bipolar RF ► predictable ablation area
- Handle ► Larger handle causes less fatigue for users when ablating several times in one procedure

## Specifications

Product Code	Diameter	Length	Exposure Length	Type	Compatible Generator
DBT 1205	Ø1.5mm	12cm	0.5cm	Dual Tip, Bipolar	MYGEN M-3004 & V-1000
DBT 1210	Ø1.5mm	12cm	1.0cm		
DBT 1220	Ø1.5mm	12cm	1.5cm		
DBT 1225	Ø1.5mm	12cm	2.0cm		
DBT 1230	Ø1.5mm	12cm	2.5cm		
DBT 1235	Ø1.5mm	12cm	3.0cm		
DBT 1240	Ø1.5mm	12cm	4.0cm		

# HemoTip™

Designed for hemostasis or ablation of relatively small tumors



## Features

- Available in a variety of models to ensure diversity in choice.
  - with or without a temperature sensor
  - with a blunt or sharp point
- Real time temperature monitoring is possible through the connected generator.

## Specifications

Blunt Type			
Product Code	Diameter	Length	Exposure
S1615-20G-IB (M)	0.8Ø	160mm	15mm
S2215-20G-IB (M)		220mm	
S1615-18G-IB (M)	1.1Ø	160mm	
S2215-18G-IB (M)		220mm	
S1615-16G-IB (M)	1.5Ø	160mm	
S2215-16G-IB (M)		220mm	
S1015-14G-IB (M)	2.0Ø	100mm	
S1615-14G-IB (M)		160mm	

Sharp Type			
Product Code	Diameter	Length	Exposure
S1615-20G-IS (M)	0.8Ø	160mm	15mm
S2215-20G-IS (M)		220mm	
S1015-18G-IS (M)	1.1Ø	100mm	
S1615-18G-IS (M)		160mm	
S2215-18G-IS (M)	1.5Ø	220mm	
S1615-16G-IS (M)		160mm	
S2215-16G-IS (M)	2.0Ø	220mm	
S1015-14G-IS (M)		100mm	
S1615-14G-IS (M)		160mm	

\* "M" stands for temperature sensor. Be sure to remove an "M" to order it without a temperature sensor.





# VeinCLEAR™ System

## Endovenous Radiofrequency Ablation System

Endovenous RF ablation system consists of RF generator, endovenous catheter, and optional tumescator.

# VeinCLEAR™ V-700

Endovenous thermal ablation dedicated generator with intuitive UI and usability



## Features

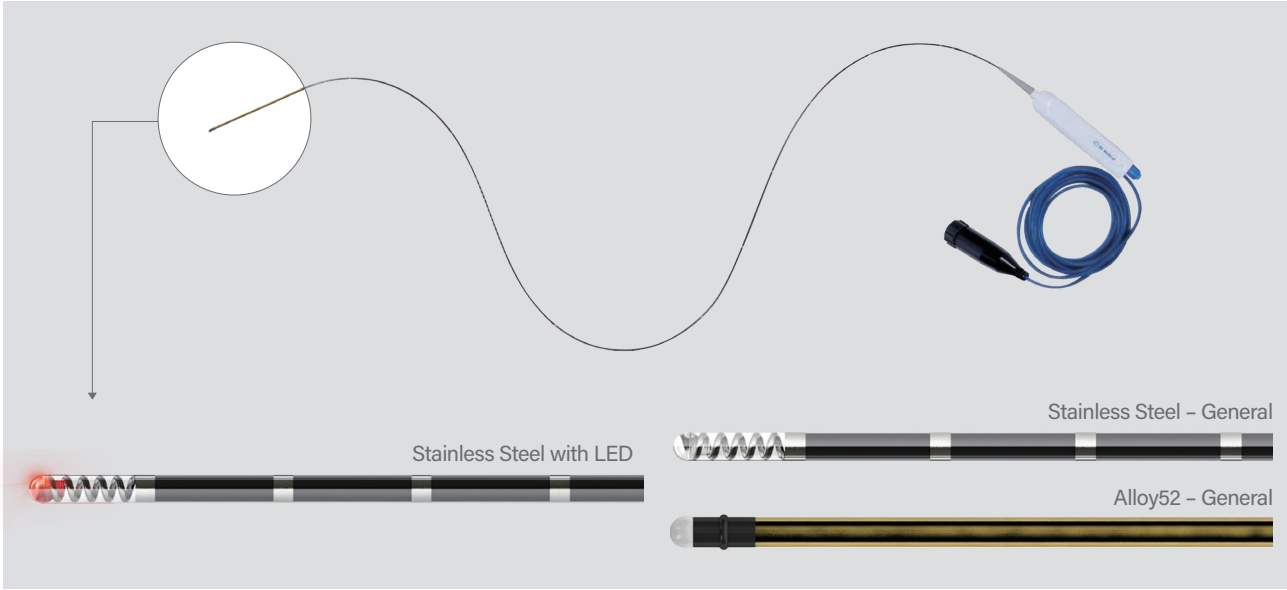
- 7" LCD touch screen
- Compatible with all VeinCLEAR™ catheters
- Automatic self-test system upon startup
- Temperature-controlled algorithm available
- Multi-language support with audio guidance
- Manual options for temperature and ablation cycle time

## Specifications

Protection Class	I
Protection Type	BF
Input Power Voltage	100-240V(AC)
Input Power Frequency	50/60 Hz
Maximum Input Power	150 VA
Measuring Temperature	0°C - 200°C
Alarm Sound	More than 65dB

# VeinCLEAR™ Catheter

Catheters dedicated for endovenous thermal ablation



### Features

- 5Fr and 7Fr catheters
- Heating element length from 1cm to 7cm
- Available in Alloy52, Stainless Steel, and LED options

### Specifications

\* LED light on tip of catheter

Product Code	Compatible Introducer	Heating Element	Total Length	Heating Element Length	Compatible Guidewire	Compatible Generator		
VVT-70FS	5Fr	Stainless Steel	70cm	7cm	N/A	VeinCLEAR V-700		
VVT-100FS			100cm					
VVT-70FG	7Fr		70cm				0.025"	VeinCLEAR V-700, MYGEN M-3004 and V-1000
VVT-100FG			100cm					
VVT-70FGL*			70cm					
VVT-100FGL*			100cm					
VVT-4510		Alloy52	45cm	1cm				
VVT-4515				1.5cm				
VVT-4520				2cm				
VVT-4530				3cm				
VVT-60			60cm	7cm				
VVT-7020			70cm	2cm				
VVT-7030	3cm							
VVT-70	7cm							
VVT-90	90cm		7cm					
VVT-100	100cm		7cm					

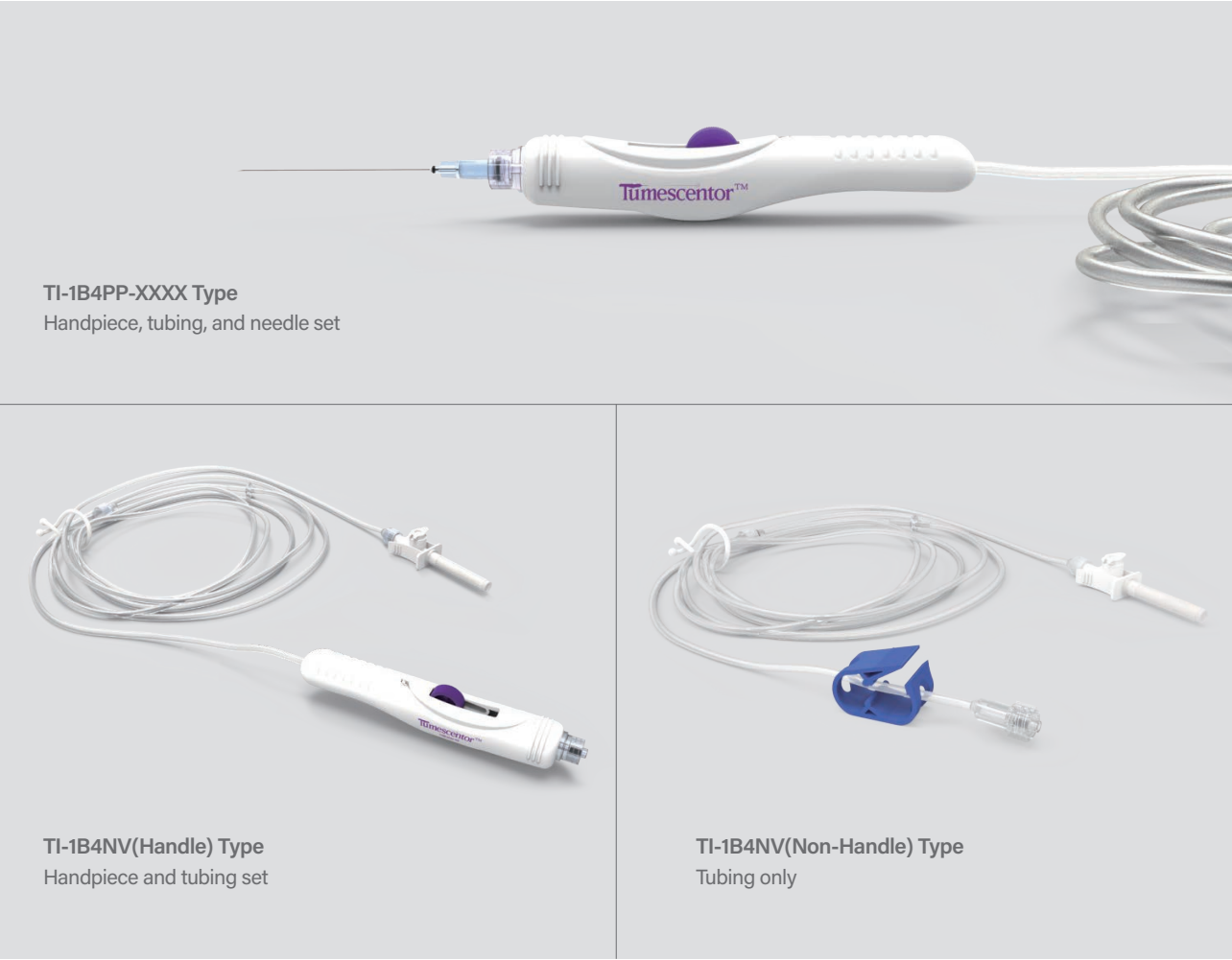
### Compatibility of catheters with generators

		V-700	V-1000	M-3004
Stainless Steel Catheter	with LED	✓	X	X
	General	✓	X	X
Alloy Catheter	General	✓	✓	✓

# Tumescentor™

Tumescent infiltration handpieces

Tumescent infiltration kit for injecting tumescent fluid for local anesthesia in order for pain control, tissue protection (skin, nerves, and muscles) around the veins, and increase the cauterization efficacy by compressing the vessels.



### Features

- Tumescentor™ items are compatible with
  - RF Medical RFP-300 pump (handpiece option only)
  - Nouvag pump (simple tubing & handpiece option)

### Specifications

Product Code	Compatible pump	Type	Injection Needle	Tube Length
TI-1B4PP-2380	RF Medical RFP-300	Handpiece	23G x 80 mm	3m
TI-1BNV-3MH	Nouvag Series DP-30	Handpiece	N/A	3m
TI-1BNV-4MH				4m
TI-1BNV-3M		Simple Tubing		3m
TI-1BNV-4M				4m