# ENERGY PRODUCT CATALOGUE

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**Valleylab™ Energy stands for confidence**

Medtronic
Further, Together

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**The Medtronic Energy division, a world leader in radiofrequency (RF) energy-based systems, is committed to providing you with a complete line of products that contribute to the safest possible surgical environment.**

**We manufacture a full range of RF energy products – electrosurgical and tissue fusion generators, pencils, patient return electrodes and an entire line of accessories. Our fully integrated systems set the industry standard in patient care and purchasing efficiency.**

### Abbreviation legend

ASP = Aspiration holes

B = Safety Sleeve™

DA = Needle electrode

DB = 15 ft cord

FR = French

H = Holster

R = Retractable

S = Smoke attachment

# Generators

## VLFT10GEN — 1 EACH

### Valleylab™ FT10 Energy Platform

**The Valleylab™ FT10 energy platform not only drives our full portfolio of energy-based devices, it makes them better than ever. The Valleylab™ FT10 energy platform delivers precise amounts of energy.**

- Improved and enhanced LigaSure™ vessel sealing performance*
- TissueFect™ tissue sensing technology has improved on the Valleylab™ FT10 energy platform with closed-loop control at 434,000 data points per second, which is over a 100x more than the ForceTriad™ energy platform.[5] This creates a more consistent tissue effect
- Automatic instrument recognition
- Utilizes most current and all new LigaSure™ instruments
- Single, simplified touch screen
- Exclusive Valleylab™ exchange software update system
- Unique Valleylab™ mode
- Adaptive REM™ system
- Automatic power settings require minimal setup and minimize need for further handling during surgery
- Bipolar cable compensation reads cable length and width
  for consistent electrosurgical output
- Autobipolar capability
- Soft coag settings
- Weight (kg): 10,1
  Width (cm): 36,8
  Height (cm): 17,8
  Depth (cm): 46,2

** As compared to the ForceTriad™ energy platform*

## VLFX8GEN — 1 EACH

### Valleylab™ FX8 Energy Platform

**The newest addition to Valleylab™ energy is made to enhance the performance of your electrosurgical handpieces.[1,2,†] The Valleylab™ FX8 energy platform is driven by our intelligent tissue-sensing technology. As you use your energy-powered tools, it reads tissue composition to monitor and adjust to impedance.[3,4]**

- TissueFect™ sensing technology monitors changes in tissue impedance 434,000 times a second
- Automatic instrument recognition
- Single, simplified touch screen
- Exclusive Valleylab™ exchange software update system
- Unique Valleylab™ mode
- Adaptive REM™ system
- Automatic power settings require minimal setup and minimize need for further handling during surgery
- Bipolar cable compensation reads cable length and width for consistent electrosurgical output
- Autobipolar capability
- Soft coag settings
- Weight (kg): 8,8
  Width (cm): 33,5
  Height (cm): 14,6
  Depth (cm): 43,6

† Compared to the ForceTriad™ energy platform

1. Based on internal test report #RE00005401, Product validation of Valleylab™ FT10 energy platform surgeon and nurse evaluation in simulated use: 32 surgeons interviewed. January 27 to 30, 2015 and Feb. 24 to 27, 2015.
2. Based on internal report #RE00105221, Comparison testing of the Valleylab™ FT10 and ForceTriad™ generators. The Valleylab™ FT10 energy platform has identical power curves and equivalent power delivery for shared modes to the Valleylab™ FX8 energy platform. July 2017.
3. Valleylab™ FX8 energy platform part #PT00053621 [user guide]. Boulder, CO: Medtronic. June 2017.
4. Based on report #RE00034263 Rev F, Product requirements document for project Kirin. July 2017.
5. Based on the Valleylab™ FT10 Service Manual: part number 1079477, REV 01/2015.

# Generators

**VLLS10GEN** 1 EACH

## Valleylab™ LS10 Vessel Sealing Generator

**A simple, portable, 'plug and play' generator, designed to give you control, confidence and consistency in the OR.**

- Single power on/off button
- Single instrument plug in port, compatible with all LigaSure™ devices
- Weighs only 5,5 kg for ease of transportation
- Automatic instrument recognition
- Seals vessels up to and including 7 mm in size, lymphatics and tissue bundles when used with a proper LigaSure™ instrument
- Produces minimal sticking, charring and thermal spread to adjacent tissue when used with a proper LigaSure™ instrument
- 95% certainty that the seals will withstand minimum 3x normal systolic blood pressure when used with a LigaSure™ instrument
- RFID (radio frequency identification) technology for automatic software upgrades[2]
- Depth (cm): 46,2
- Improved and enhanced LigaSure™ vessel sealing performance*
- TissueFect™ sensing technology monitors changes in tissue impedance 434,000 times a second

**As compared to the ForceTriad™ energy platform*

## TissueFect™ Tissue Sensing Technology

The smart TissueFect™ tissue sensing technology in our Valleylab™ LS10 Generator and FT10 energy platform improves the speed and maintains consistency of hand--held devices by reading tissue composition in real time. So you can move through procedures more efficiently, for a better experience.

In the case of the Valleylab™ FT10 and FX8 energy platforms, TissueFect™ technology examines device performance 434,000 times per second, monitoring tissue impedance and allowing effective and efficient energy delivery.This technology is only available on Valleylab™ generators and drives all electrosurgical and advanced bipolar functions.

## Valleylab™ Exchange Software Update System

The Valleylab™ exchange software update system enables you to perform a first-time setup or update software on Medtronic energy-based devices. This ensures that your surgeons and staff have access to the latest performance features as new features and energy delivery profiles become available for your electrosurgical generator. The Valleylab™ exchange software update system is available for the ForceTriad™, Valleylab™ FT10 and FX8 energy platforms, and the Valleylab™ LS10 generator.

## Valleylab™ Mode

Valleylab™ mode provides a unique combination of monopolar hemostasis and dissection.

## Power Efficiency Rating (PER)

Measure of the ability of an electrosurgical generator to accurately deliver the selected power into a wide range of impedances.

## Adaptive REM™ System

Adaptive REM™ combines the feedback circuitry of hardware monitoring with an advanced software--controlled adaptation feature. The adaptive system still maintains the 5-135 ohms limits, but also creates a window of acceptable impedances based on contact conditions of the individual patient.

# Software Applications for ForceTriad™ Energy Platform

## Bipolar Resection

The Bipolar Resection Activation Kit enables activation of the bipolar-resection application on a single ForceTriad™ energy platform with software version 3.30 or greater.

The application is intended for use in the following procedures in a saline environment: Transurethral Resection of the Prostate (TURP), Transurethral Resection of the Bladder (TURB) and hysteroscopic resection.

**FTBRKIT** 1 EACH

### Bipolar Resection Activation Kit for the ForceTriad™ Energy Platform

- Telephone and email contact information for EbD Technical support – to be contacted for activation of this Software application
- RS232 Cable for connecting the ForceTriad™ energy platform to the biomed PC (for Valleylab™ exchange)
- License Key Code to be provided to tech support
- CD-Rom with user guides
- Three labels to be applied to the ForceTriad™ energy platform after activation of the software application

**FT6009** 1 EACH

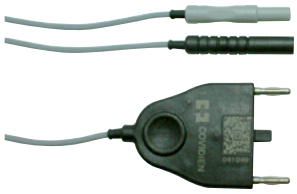
### Bipolar Resection Footswitch

- Activates the bipolar resection – resection in Saline
- 4,6 m cord
- To be used with the ForceTriad™ energy platform

**FT0021S** 1 EACH

### Storz™* Bipolar Resection Cord

- To be used with Storz™* bipolar resectoscopes
- To be used with the ForceTriad™ energy platform
- Reusable
- 4,6 m cord



**FT0022W** 1 EACH

### Wolf Bipolar Resection Cord

- To be used with Wolf bipolar resectoscopes
- To be used with the ForceTriad™ energy platform
- Reusable
- 4,6 m cord

# Software Applications for ForceTriad™ Energy Platform

## STORZBRSET 1 EACH

### Starter Kit for use with Storz™* Resectoscopes

**Contains:**

- FTBRKIT Activation Kit Bipolar Resection 1 each
- FT6009 Bipolar Resection Footswitch 1 each
- FT0021S Bipolar Resection Cord Storz™ 1 each

## WOLFBRSET 1 EACH

### Starter Kit for use with Wolf Resectoscopes

**Contains:**

- FTBRKIT Activation Kit Bipolar Resection 1 each
- FT6009 Bipolar Resection Footswitch 1 each
- FT0022W Bipolar Resection Cord Wolf 1 each
- Remote access panel assembly (panel with 2 screws)

### The Remote Control Application

The Remote Control Application is add-on software that enables communication between a ForceTriad™ energy platform and a third-party remote-control system.

Once the application has been activated, an energy platform can be integrated into a system of multiple hardware components operated from a central location.

Remote-control systems are used in integrated operating rooms to control medical devices and various audio, video, and communication devices from a central communication console.

This application needs Software Version 3.4 or higher.

## FTRCKIT 1 EACH

### Activation Kit Remote Control for the ForceTriad™ Energy Platform

- CD with the User's Guide Supplement - remote control application
- License Key (provided on the inner box label and internal packaging)
- RS-232 cable
- Remote access panel assembly (panel with 2 screws)

# Hardware Accessories
## Footswitches

**FT6003** 1 EACH

### ForceTriad™ Energy Platform Three-Pedal Footswitch

**Compatible with ForceTriad™ energy platform only**

- Enables foot activation of Cut, Valleylab™ mode and Coag
- Activate Valleylab™ mode and Force TriVerse™ electrosurgical device
- Enables foot activation of Cut and Coag on standard electrosurgical pencils
- 4,6 m (15 ft) cord

**FT6009** 1 EACH

### Bipolar Resection Footswitch

**Compatible with the Valleylab™ FT10 and ForceTriad™ Energy platforms**

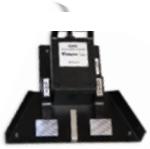
- Activates the bipolar resection – resection in saline
- 4,6 m (15 ft) cord

**E6008B** 1 EACH

### Monopolar Footswitch

**Compatible with SurgiStat™ II, Valleylab™ FT10 and all Force™ Series generators**

- 4,6 m (15 ft) cord



**E6008** 1 EACH

### Monopolar Footswitch

**Compatible with SurgiStat™ II, Valleylab™ FT10 and all Force™ Series generators**

- 4,6 m (15 ft) cord

*All footswitches are water resistant*

**E6009** 1 EACH

### Standard Bipolar Footswitch

**Compatible with Valleylab™ FT10 and FX8 energy platforms and all Force™ Series generators**

- 4,6 m (15 ft) cord

**LS0300 (PURPLE)** 1 EACH

### LigaSure™ Single Pedal Footswitch

- 4,6 m (15 ft) cord

**LF0500 (ORANGE)** 1 EACH

### LigaSure™ Single Pedal Footswitch

**Compatible with ForceTriad™ energy platform only**

- 4,6 m (15 ft) cord

**E6019** 1 EACH

### Dome Bipolar Footswitch

**Compatible with Valleylab™ and FT10 and all Force™ Series generators**

- 4,6 m (15 ft) cord

**E6009B** 1 EACH

### Standard Bipolar Footswitch (version B)

**Compatible with Valleylab™ FT10 and all Force™ Series generators**

- 4,6 m (15 ft) cord

# Hardware Accessories
## Carts and Stand

**VLFTCRT** 1 EACH

### Valleylab™ FT10 Cart

**The Valleylab™ FT10 cart is compatible with the Valleylab™ FT10 and FX8 energy platforms and the LS10 generator**

- Cord management system
- One storage drawer
- Rust resistant
- Conductive casters (2 locking, 2 non-locking)
- Multiple shelves

# Hardware Accessories
## Carts and Accessories

**UC8009** 1 EACH

### Universal Mounting Cart

- Rust resistant
- Conductive casters (2 locking, 2 non-locking)
- Supplied with cord management kit

**UC8010** 1 EACH

### Universal Mounting Cart Overshelf

**Compatible with UC8009 universal cart**

**Ideal for a second electrosurgical generator, LigaSure™ vessel sealing system, RapidVac™ smoke evacuation system or Force Argon II™ system**

- Supports 75 lbs centered on shelf
- Supplied with cord management kit

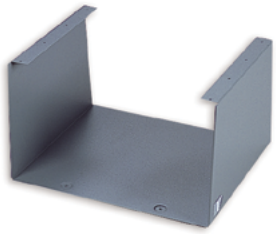
**UC8012** 1 EACH

### Universal Mounting Cart Drawer

**Compatible with UC8009 universal cart**

**Not compatible with UC8013 suspended shelf**

**Ideal for storing user's manual or extra supplies**



**UC8013** 1 EACH

### Universal Mounting Cart Suspended Shelf

**Compatible with UC8009 universal cart**

**Not compatible with UC8012 drawer**

**Ideal for the RapidVac™ or OptiMumm™ smoke evacuation system or other smoke evacuation systems**

- Supports 75 lbs

**UC8011** 1 EACH

### Universal Mounting Cart Cord Management Kit

**Compatible with UC8009 universal cart**

- Two brackets

**UC8015** 1 EACH

### Universal Mounting Cart Argon Gas Tank Kit

**Compatible with UC8009 universal cart**

- Holds 2 G-size 42 cubic ft tankss

# LigaSure™ Tissue Fusion Instruments, Sterile, Single Use

**LF1823** 6 UNITS/CASE

## LigaSure™ Blunt Tip Open Sealer/Divider 5 mm, nano-coated – 23 cm

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- HMDSO nano-coated nonstick jaws
- Sealer/divider
- 5 mm diameter; 23 cm (9 in.) length
- 180 degree shaft rotation
- Blunt jaw, double-action with contoured tips design
- Textured jaw with ceramic stops
- Hand switching or foot switching

**LF1837** 6 UNITS/CASE

## LigaSure™ Blunt Tip Laparoscopic Sealer/Divider 5 mm, nano-coated – 37 cm

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- HMDSO nano-coated nonstick jaws
- Sealer/divider
- 5 mm diameter; 37 cm (14,6 in.) length
- 180 degree shaft rotation
- Blunt jaw, double-action with contoured tips design
- Textured jaw with ceramic stops
- Hand switching or foot switching

**LF1844** 6 UNITS/CASE

## LigaSure™ Blunt Tip Laparoscopic Sealer/Divider 5 mm, nano-coated – 44 cm

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- HMDSO nano-coated nonstick jaws
- Sealer/divider
- 5 mm diameter; 44 cm (17,3 in.) length
- 180 degree shaft rotation
- Blunt jaw, double-action with contoured tips design
- Textured jaw with ceramic stops
- Hand switching or foot switching

**LF1923** 6 UNITS/CASE

## LigaSure™ Maryland Jaw Open Sealer/Divider 5 mm, nano-coated – 23 cm

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- HMDSO nano-coated nonstick jaws
- Sealer/divider
- 5 mm diameter; 23 cm (9 in.)length
- 350 degree shaft rotation
- Maryland jaws, single-action with contoured tips design
- Textured jaw with ceramic stops
- One step sealing & foot switching

**LF1937** 6 UNITS/CASE

## LigaSure™ Maryland Jaw Laparoscopic Sealer/Divider 5 mm, nano-coated – 37 cm

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- HMDSO nano-coated nonstick jaws
- Sealer/divider
- 5 mm diameter; 37 cm (14,6 in.) length
- 350 degree shaft rotation
- Maryland jaws, single-action with contoured tips design
- Textured jaw with ceramic stops
- One step sealing & foot switching

**LF1944** 6 UNITS/CASE

## LigaSure™ Maryland Jaw Laparoscopic Sealer/Divider 5 mm, nano-coated – 44 cm

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- HMDSO nano-coated nonstick jaws
- Sealer/divider
- 5 mm diameter; 44 cm (17,3 in.) length
- 350 degree shaft rotation
- Maryland jaws, single-action with contoured tips design
- Textured jaw with ceramic stops
- One step sealing & foot switching

*All single use instruments and electrodes have a coded connector for instrument recognition*

# LigaSure™ Tissue Fusion Instruments, Sterile, Single Use

**LS1020** 6 UNITS/CASE

## LigaSure Atlas™ 20 cm Hand Switching Instrument

**Compatible with ForceTriad™, Valleylab™ FT10, Valleylab™ LS10 generators and the LigaSure™-8 vessel sealing system**

- Sealer/divider
- 10 mm diameter; 20 cm (7,9 in.) length
- 359 degree shaft rotation
- Straight, blunt jaw
- Hand switching or foot switching

**LS1520** 6 UNITS/CASE

## LigaSure™ V 20 cm Instrument

**Compatible with ForceTriad™ energy platform and LigaSure™-8 vessel sealing system**

- Sealer/divider
- 5 mm diameter; 20 cm (7,9 in.) length
- 159 degree shaft rotation
- Dolphin-nose jaw design
- Hand switching or foot switching

**LS1037** 6 UNITS/CASE

## LigaSure Atlas™ Hand Switching Laparoscopic Instrument

**Compatible with ForceTriad™, Valleylab™ FT10, Valleylab™ LS10 generators and the LigaSure™-8 vessel sealing system**

- Sealer/divider
- 10 mm diameter; 37 cm (14,6 in.) length
- 359 degree shaft rotation
- Straight, blunt jaw
- Hand switching or foot switching

**LS1500** 6 UNITS/CASE

## LigaSure™ V Laparoscopic Instrument

**Compatible with ForceTriad™ energy platform and LigaSure™-8 vessel sealing system**

- Sealer/divider
- 5 mm diameter; 37 cm (14,6 in.) length
- 159 degree shaft rotation
- Dolphin-nose jaw design
- Hand switching or foot switching

*All single use instruments and electrodes have a coded connector for instrument recognition*

# LigaSure™ Tissue Fusion Instruments, Sterile, Single Use

**LF5637** 6 UNITS/CASE

## LigaSure™ 37 cm Retractable L-Hook Laparoscopic Device

**Compatible with ForceTriad™ and Valleylab™ FT10 generators**

- Sealer/divider
- 5 mm diameter; 37 cm (14,6 in.) length
- 315 degree shaft rotation
- Maryland-style jaws
- Retractable monopolar L-hook
- Hand switching

**LF5644** 6 UNITS/CASE

## LigaSure™ 44 cm Retractable L-Hook Laparoscopic Device

**Compatible with ForceTriad™ and Valleylab™ FT10 generators**

- Sealer/divider
- 5 mm diameter; 44 cm (17,3 in.) length
- 315 degree shaft rotation
- Maryland-style jaws
- Retractable monopolar L-hook
- Hand switching

**LF1930T** 6 UNITS/CASE

## LigaSure™ Maryland Jaw Thoracic Laparoscopic Sealer/Divider 5 mm, nano -coated – 30 cm

**Compatible with Valleylab™ FT10 generator version 1.1 or higher version**

- HMDSO nano -coated nonstick jaws
- Sealer/divider
- 5 mm diameter; 30cm length
- 350 degree shaft rotation
- Maryland jaws, single-action with contoured tips design · Textured jaw with ceramic stops
- One step sealing & foot switching

# LigaSure™ Tissue Fusion Instruments, Sterile, Single Use
For Open Procedures

**LF4418** 6 UNITS/CASE

## LigaSure™ Impact Instrument, nano-coated

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- HMDSO nano-coated nonstick jaws
- Sealer/divider
- Rectangular shaft; 18 cm (7,1 in.) length
- 180 degree shaft rotation
- 14 degree curved jaw
- Hand switching or foot switching

**LF2019** 6 UNITS/CASE

## LigaSure™ Exact Dissector, nano-coated

**Compatible with Valleylab™ FT10 energy platform and Vallelyab™ LS10 vessel sealing generator**

- HMDSO nano-coated nonstick jaws
- Sealer/divider
- 21 cm instrument length
- Fine tapered jaws
- Hand or foot activation

**LF1212** 6 UNITS/CASE

## LigaSure™ Small Jaw Instrument

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- 16,5 mm electrode length
- 18,8 cm instrument length
- 28-degree curved jaw
- Contoured tips for blunt dissection
- Sealer/divider
- Hand or foot activation

*All single use instruments and electrodes have a coded connector for instrument recognition*

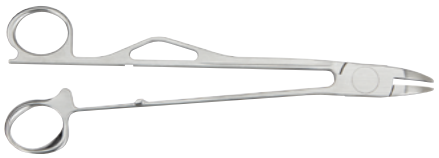
# LigaSure™ Tissue Fusion Instruments
## For Open Procedures

**LF3225** 3 UNITS/CASE

### LigaSure™ Curved Jaw Open Sealer/Divider Electrode Instrument

**Compatible with ForceTriad™ energy platform, Valleylab™ LS10 vessel sealing generator, Valleylab™ FT10 energy platform**

- Sealer/divider for open procedures Hand or foot switch activated
- 25 mm electrode length
- 25 cm instrument length
- 34 degree curved jaw
- Contoured tips for blunt dissection



**LF3225C** 1 UNITS/CASE

### LigaSure™ Curved Jaw Open Sealer/Divider Clamp Instrument

**Requires LF3225 electrode**

**Electrode is compatible with ForceTriad™ energy platform, Valleylab™ LS10 vessel sealing generator, Valleylab™ FT10 energy platform**

- Non-sterile, reusable
- 25 cm length
- 34 degree curved jaw
- Requires LS3225 electrode

*All single use instruments and electrodes have a coded connector for instrument recognition*

# Sonicision™ Curved Jaw Cordless Ultrasonic Dissection System

**Cordless ultrasonic vessel sealing and dissection — now with a tapered, curved jaw and streamlined cleaning and sterilization.[1] These dissectors are designed for single use.**

**SCDA13** 6 UNITS/CASE

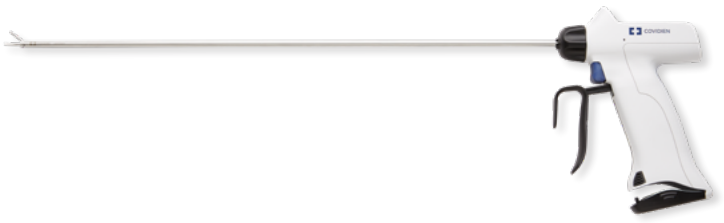
**Sonicision™ 13 cm Curved Jaw Cordless Ultrasonic Dissector**

**SCDA39** 6 UNITS/CASE

**Sonicision™ 39 cm Curved Jaw Cordless Ultrasonic Dissector**

**SCDA26** 6 UNITS/CASE

**Sonicision™ 26 cm Curved Jaw Cordless Ultrasonic Dissector**



**SCDA48** 6 UNITS/CASE

**Sonicision™ 48 cm Curved Jaw Cordless Ultrasonic Dissector**

# Sonicision™ Curved Jaw Cordless Ultrasonic Dissection System

**SCBA** 1 EACH

### Sonicision™ Reusable Battery Pack

- It can be reused 200×

**CBCA** 1 EACH

### Sonicision™ Battery Charger

**SCGAA** 1 EACH

### Sonicision™ Reusable Generator

- It can be reused 150×
- Autowashable and autoclavable

**SCSTA** 1 EACH

### Sonicision™ Reusable Sterilization Tray

- It can be reused 150×
- Autowashable and autoclavable

**SCBIGA** 2 UNITS/CASE

### Sonicision™ Reusable Battery Insertion Guide

- It can be reused 150×
- Autowashable and autoclavable

# BiZact™ Tonsillectomy Device

**BZ4212** 6 UNITS/CASE

## BiZact™ Tonsillectomy Device

**Compatible with ForceTriad™, Valleylab™ FT10 and Valleylab™ LS10 generators**

- Sealer/divider
- For vessels and lymphatics up to 3 mm
- 12 cm shaft
- Curved jaws
- Contoured tips for blunt dissection
- Hand switching

# Valleylab™ Mode Products, Sterile, Single Use

## Valleylab™ Mode

**FT3000** 25 UNITS/CASE

### Force TriVerse™ Electrosurgical Device

**Compatible with the Valleylab™ FT10, FX8 and ForceTriad™ Energy platforms**

- Allows access to Valleylab™ mode
- EDGE™ coated hex-locking blade electrode
- Cut, Coag and Valleylab™ mode
- Accepts all standard 2,4 mm (3/32 in.) shaft electrodes.
- Holster
- 3 m (10 ft) cord
- Sterile-field power control
- Instrument recognition cord connector

**FT3000DB** 25 UNITS/CASE

### Force TriVerse™ Electrosurgical Device

**Compatible with the Valleylab™ FT10, FX8 and ForceTriad™ Energy platforms**

- Allows access to Valleylab™ mode
- EDGE™ coated hex-locking blade electrode
- Cut, Coag and Valleylab™ mode
- Accepts all standard 2,4 mm (3/32 in.) shaft electrodes.
- Holster
- 4,6 m (15 ft) cord
- Sterile-field power control
- Instrument recognition cord connector

**FT0510** 25 UNITS/CASE

### Foot Switching Monopolar Cord Valleylab™ Mode

**Compatible with the ForceTriad™ Energy platform**

- Connects any surgical instrument with a 4 mm connector to the ForceTriad™ energy platform
- Delivers Valleylab™ mode
- Works with EndoShears, EndoDissectors, Roticulators, reusable lap handles
- 3 m (10 ft)

# Electrosurgical Pencils, Sterile, Single Use
## With EDGE™ Coated Electrode

**E2350H** 50 UNITS/CASE

### Rocker Switch Pencil

- EDGE™ coated hex-locking blade electrode
- Holster
- 3 m (10 ft) cord

**E2450H** 50 UNITS/CASE

### Button Switch Pencil

- EDGE™ coated hex-locking blade electrode
- Holster
- 3 m (10 ft) cord

**E2350H-DB** 50 UNITS/CASE

### Rocker Switch Pencil

- EDGE™ coated hex-locking blade electrode
- Holster
- 4,6 m (15 ft) cord

**E2450HS** 50 UNITS/CASE

### Button Switch Pencil

- EDGE™ coated hex-locking blade electrode
- AccuVac™ smoke evacuation attachment
- Holster
- 3 m (10 ft) cord

**E2350HS** 25 UNITS/CASE

### Rocker Switch Pencil

- EDGE™ coated hex-locking blade electrode
- AccuVac™ smoke evacuation attachment
- Holster
- 3 m (10 ft) cord

**E2250H** 50 UNITS/CASE

### Foot Switching Pencil

**Not compatible with Safety Sleeve™ electrodes or AccuVac™ smoke evacuation attachment**

**Requires E0502-1 monopolar adapter**

- EDGE™ coated hex-locking blade electrode
- Holster
- 3 m (10 ft) cord

*Accepts all standard 2,4 mm (3/32 in.) shaft electrodes.* *See Quick Reference Index on page 68*

# Electrosurgical Pencils, Sterile, Single Use
## With Stainless Steel Electrode

**E2515** 50 UNITS/CASE

### Rocker Switch Pencil

- Stainless steel hex-locking blade electrode
- 3 m (10 ft) cord

**E2516** 50 UNITS/CASE

### Button Switch Pencil

- Stainless steel hex-locking blade electrode
- 3 m (10 ft) cord

**E2515H** 50 UNITS/CASE

### Rocker Switch Pencil

- Stainless steel hex-locking blade electrode
- Holster
- 3 m (10 ft) cord

**E2516H** 50 UNITS/CASE

### Button Switch Pencil

- Stainless steel hex-locking blade electrode
- Holster
- 3 m (10 ft) cord

**E2515H-DA** 50 UNITS/CASE

### Rocker Switch Pencil

- Stainless steel needle electrode
- Holster
- 3 m (10 ft) cord

**E2516H-DA** 50 UNITS/CASE

### Button Switch Pencil

- Stainless steel needle electrode
- Holster
- 3 m (10 ft) cord

**E2515HDB** 50 UNITS/CASE

### Rocker Switch Pencil

- Stainless steel hex-locking blade electrode
- Holster
- 4,6 m (15 ft) cord

*Accepts all standard 2,4 mm (3/32 in.) shaft electrodes.* *See Quick Reference Index on page 68*

# Electrosurgical Pencils, Sterile, Single Use
## With Stainless Steel Electrode

**E2515HS** 25 UNITS/CASE

### Rocker Switch Pencil

- Stainless steel hex-locking blade electrode
- AccuVac™ smoke evacuation attachment
- Holster
- 3 m (10 ft) cord
- 3/8" × 1' tubing with 3/8" tubing connector

**E2504** 50 UNITS/CASE

### Foot Switching Pencil

**Not compatible with Safety Sleeve™ electrodes or AccuVac™ smoke evacuation attachment**

**Requires E0502-1 monopolar adapter**

- Stainless steel hex-locking blade electrode
- 3 m (10 ft) cord

**E2516HS** 25 UNITS/CASE

### Button Switch Pencil

- Stainless steel hex-locking blade electrode
- AccuVac™ smoke evacuation attachment
- Holster
- 3 m (10 ft) cord

**E2504H** 50 UNITS/CASE

### Foot Switching Pencil

**Not compatible with Safety Sleeve™ electrodes or AccuVac™ smoke evacuation attachment**

**Requires E0502-1 monopolar adapter**

- Stainless steel hex-locking blade electrode
- Holster
- 3 m (10 ft) cord

*See Quick Reference Index on page 68*

**VL2610** 50 UNITS/CASE

### Button Switch Pencil

- Stainless steel blade electrode
- Holster
- 3 m (10 ft) cord
- 3 pin connection

**VL2610DB** 50 UNITS/CASE

### Button Switch Pencil

- Stainless steel blade electrode
- Holster
- 4,50 m (15 ft) cord
- 3 pin connection

**VL2610E** 50 UNITS/CASE

### Button Switch Pencil

- Stainless steel blade electrode
- Holster
- 4,50 m (15 ft)
- For Erbe ACC/ICC generators

**VL2615** 50 UNITS/CASE

### Button Switch Pencil

- Ceramic coated blade electrode
- Holster
- 3 m (10 ft) cord
- 3 pin connection

**VL2615DB** 50 UNITS/CASE

### Button Switch Pencil

- Ceramic coated blade electrode
- Holster
- 4,50 m (15 ft) cord
- 3 pin connection

**VL2615E** 50 UNITS/CASE

### Button Switch Pencil

- Ceramic coated blade electrode
- Holster
- 4,50 m (15 ft)
- 1 pin connection

# Electrosurgical Pencils, Sterile, Single Use
## With Arthroscopic Electrode

**E2510H** 10 UNITS/CASE

### Rocker Switch Pencil

- Insulated
- Arthroscopic right-angle hook electrode
- Stainless steel
- Total length: 21,6 cm (8,5 in)
- Active length: 0,19 cm (0,075 in)
- Holster
- 3 m (10 ft) cord

*Accepts all standard 2,4 mm (3/32 in.) shaft electrodes.* *See Quick Reference Index on page 68*

# Electrosurgical Pencil and Accessories

**E2100** 10 UNITS/CASE

## Rocker Switch Pencil, Reusable

**Accepts all standard 2,4 mm (3/32 in.) shaft electrodes**

- Reusable stainless steel blade electrode
- Non-sterile
- 4,6 m (15 ft) silicone cord
- 50 uses
- Steam or EtO sterilizable
- 3 pin connector (Valleylab generators)

**E2100E** 10 UNITS/CASE

## Rocker Switch Pencil, Reusable

**Accepts all standard 2,4 mm (3/32 in.) shaft electrodes**

- Reusable stainless steel blade electrode
- Non-sterile
- 4,6 m (15 ft) silicone cord
- 50 uses
- Steam or EtO sterilizable
- For Erbe ACC/ICC generator

**E2400** 50 UNITS/CASE

## Electrosurgery Accessory Holster

- Sterile, single use

**E2401** 100 UNITS/CASE

## LectroBrasive™ Tip Cleaner

**For use with stainless steel electrodes**

- Sterile, single use
- 5,08 cm × 5,08 cm (2 in. × 2 in.)
- Adhesive backing
- X-ray detectable

*See Quick Reference Index on page 68*

# Suction Coagulators, Sterile, Single Use

**8 Fr** ○

**E2608-6** 25 UNITS/CASE

### Hand Switching Suction Coagulator

- 8 Fr (2,7 mm; 0,105 in. diameter)
- 15,24 cm (6 in.) shaft length

**10 Fr** ○

**E2505-10FR** 25 UNITS/CASE

### Foot Switching Suction Coagulator

**Requires E0502-1 monopolar adapter**

- 10 Fr (3,3 mm; 0,131 in. diameter)
- 15,24 cm (6 in.) shaft length

**12 Fr** ○

**E3305** 25 UNITS/CASE

### Foot Switching Suction Coagulator

**Requires E0502-1 monopolar adapter**

- 12 Fr (4 mm inner diameter)
- 6 inch shaft length
- Extra insulation layers
- Hand and foot switching

**10 Fr** ○

**E3310** 25 UNITS/CASE

### Foot Switching Suction Coagulator

**Requires E0502-1 monopolar adapter**

- 10 Fr (3,3 mm inner diameter)
- 6 inch shaft length
- Extra insulation layers
- Hand and foot switching

# Electrosurgical Electrodes, Sterile, Single Use
## EDGE™ Coated Electrodes

### Coated Electrode Technology...

Coated electrodes provide a wide range of benefits to the surgeon, including improved surgical performance and easier cleaning as compared to traditional stainless steel electrodes. There are several types of coated electrodes, all of which perform differently during surgical procedures.

EDGE™ coated electrodes are manufactured using high-quality surgical steel and a durable, proprietary, elastomeric polymer coating. EDGE™ electrodes provide a more consistent surgical effect with lower power settings.

### Easy to Clean

Saves you time. With Valleylab's proprietary coating, no scraping is required. Just wipe clean with a wet sponge and continue.

### Durable and Bendable

Without compromising the integrity of the coating. EDGE™ coated electrodes are bendable up to 45 degrees without the coating degradation or flaking that can occur with PTFE electrodes.

### Improved Safety

With the NEW Safety Sleeve™ insulated electrodes. These electrodes provide an increased level of safety especially in procedures when the pencil tip can come in contact with unintended target tissue. There is no need to insulate these electrodes with rubber catheters or electrode tip protectors.

### Choice of Styles

EDGE™ coated electrodes are available in a wide variety of styles, including blades, needles, three electrode lengths, and insulated electrodes for increased safety when used in close proximity to non-targeted tissue.

EDGE™ electrodes are available in your choice of rocker or button switch pencil for greater convenience and cost savings.

### ... To save surgeons and hospitals both time and money.

**E1450G** 50 UNITS/CASE

**EDGE™ Coated Blade Electrode**

- Total length: 7,62 cm (3 in.)
- Active length: 2,8 cm (1,1 in.)

**E1450X** 50 UNITS/CASE

**EDGE™ Coated Blade Electrode**

- Hex locking
- Total length: 6,35 cm (2,5 in.)
- Active length: 2,8 cm (1,1 in.)

**E1450-4** 50 UNITS/CASE

**EDGE™ Coated Blade Extended Electrode**

- Total length: 10,16 cm (4 in.)
- Active length: 2,54 cm (1 in.)



**E1450-6** 50 UNITS/CASE

**EDGE™ Coated Blade Extended Electrode**

- Total length: 16,51 cm (6,5 in.)
- Active length: 2,54 cm (1 in.)

**E1475X** 50 UNITS/CASE

**EDGE™ Coated Blade Extended Electrode**

**For use when AccuVac™ smoke evacuation attachment is used**

- Hex-locking
- Total length: 6,99 cm (2,75 in.)
- Active length: 2,8 cm (1,1 in.)

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Electrodes, Sterile, Single Use
## EDGE™ Coated Electrodes

**E1452** 50 UNITS/CASE

### EDGE™ Coated Needle Electrode

- Total length: 7,2 cm (2,84 in.)
- Active length: 2,8 cm (1,1 in.)
- Tip radius: 0,864 mm (0,034 in.)



**E1452-6** 50 UNITS/CASE

### EDGE™ Coated Needle Extended Electrode

- Total length: 16,51 cm (6,5 in.)
- Active length: 2,54 cm (1 in.)
- Tip radius: 0,864 mm (0,034 in.)

**E1455** 50 UNITS/CASE

### EDGE™ Coated Blade Electrode

- Insulated
- Hex locking
- Total length: 6,99 cm (2,75 in.)
- Active length: 5,1 mm (0,2 in.)

**E1455-4** 50 UNITS/CASE

### EDGE™ Coated Blade Extended Electrode

- Insulated
- Total length: 10,16 cm (4 in.)
- Active length: 5,1 mm (0,2 in.)

**E1455-6** 50 UNITS/CASE

### EDGE™ Coated Blade Extended Electrode

- Insulated
- Total length: 16,51 cm (6,5 in.)
- Active length: 5,1 mm (0,2 in.)

**E1455B** 25 UNITS/CASE

### EDGE™ Coated Blade Electrode

**Not compatible with foot switching pencils or AccuVac™ smoke evacuation attachment**

- Insulated
- Safety Sleeve™
- Total length: 6,99 cm (2,75 in.)
- Active length: 5,1 mm (0,2 in.)

**E1455B-4** 25 UNITS/CASE

### EDGE™ Coated Blade Extended Electrode

**Not compatible with foot switching pencils or AccuVac™ smoke evacuation attachment**

- Insulated
- Safety Sleeve™
- Total length: 10,16 cm (4 in.)
- Active length: 5,1 mm (0,2 in.)

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Electrodes, Sterile, Single Use
## EDGE™ Coated Electrodes

**E1465** 50 UNITS/CASE

### EDGE™ Coated Needle Electrode

- Insulated
- Total length: 7,2 cm (2,84 in.)
- Active length: 5,1 mm (0,2 in.)
- Tip radius: 0,787 mm (0,031 in.)

**E1465-4** 50 UNITS/CASE

### EDGE™ Coated Needle Extended Electrode

- Insulated
- Total length: 10,16 cm (4 in.)
- Active length: 5,1 mm (0,2 in.)
- Tip radius: 0,787 mm (0,031 in.)

**E1465-6** 50 UNITS/CASE

### EDGE™ Coated Needle Extended Electrode

- Insulated
- Total length: 16,51 cm (6,5 in.)
- Active length: 5,1 mm (0,2 in.)
- Tip radius: 0,787 mm (0,031 in.)

**E1465B** 25 UNITS/CASE

### EDGE™ Coated Needle Electrode

**Not compatible with foot switching pencils or AccuVac™ smoke evacuation attachment**

- Insulated
- Safety Sleeve™
- Total length: 7,21 cm (2,84 in.)
- Active length: 5,1 mm (0,2 in.)
- Tip radius: 0,787 mm (0,031 in.)

**E1465B-4** 25 UNITS/CASE

### EDGE™ Coated Needle Extended Electrode

**Not compatible with foot switching pencils or AccuVac™ smoke evacuation attachment**

- Insulated
- Safety Sleeve™
- Total length: 10,16 cm (4 in.)
- Active length: 5,1 mm (0,2 in.)
- Tip radius: 0,787 mm (0,031 in.)

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Electrodes, Sterile, Single Use

## Tungsten Microsurgical Needle Electrodes

**E1650** 10 UNITS/CASE

### Straight Microsurgical Needle

- Insulated
- Total length: 4,2 cm (1,65 in.)
- Exposed length: 2 cm (0,8 in.)
- Active length: 3,0 mm (0,120 in.)
- Tip radius: 0,06 mm (0,0023 in.)

**E1651** 10 UNITS/CASE

### Straight Microsurgical Needle

- Insulated
- Total length: 5,4 cm (2,13 in.)
- Exposed length: 3 cm (1,2 in.)
- Active length: 3,0 mm (0,120 in.)
- Tip radius: 0,06 mm (0,0023 in.)

**E1652** 10 UNITS/CASE

### Microsurgical Needle

- Insulated
- Total length: 5,4 cm (2,13 in.)
- Exposed length: 3 cm (1,2 in.)
- Active length: 3,0 mm (0,120 in.)
- Tip radius: 0,06 mm (0,0023 in.)
- 45 degree angle, 3,0 mm (0,120 in.) from tip

**E1653** 10 UNITS/CASE

### Microsurgical Needle

- Insulated
- Total length: 5,4 cm (2,13 in.)
- Exposed length: 3 cm (1,2 in.)
- Active length: 3,0 mm (0,120 in.)
- Tip radius: 0,06 mm (0,0023 in.)
- 45 degree angle, 1 cm (0,4 in.) from tip

**E1654B** 10 UNITS/CASE

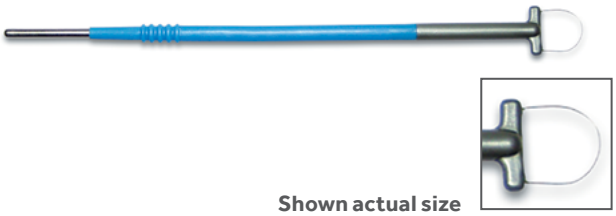
### Microsurgical Needle With Safety Sleeve™

**Not compatible with foot switching pencils or AccuVac™ smoke evacuation attachment**

- Insulated
- Safety Sleeve™
- Total length: 10,16 cm (4 in.)
- Exposed length: 9 cm (3,5 in.)
- Active length: 3,0 mm (0,120 in.)
- Tip radius: 0,06 mm (0,0023 in.)

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Electrodes, Sterile, Single Use
## LLETZ Electrodes

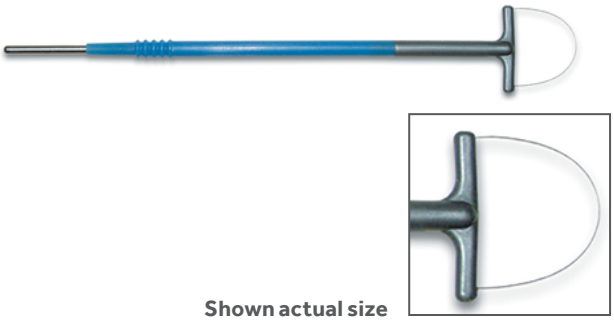


Shown actual size

**E1559** 10 UNITS/CASE

### Tungsten Loop

- 10 mm × 10 mm
- 13 cm (5 in.) shaft length

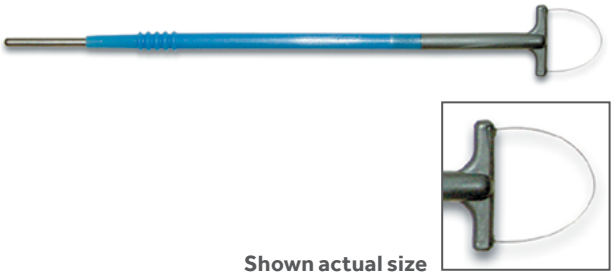


Shown actual size

**E1561** 10 UNITS/CASE

### Tungsten Loop

- 20 mm × 12 mm
- 13 cm (5 in.) shaft length

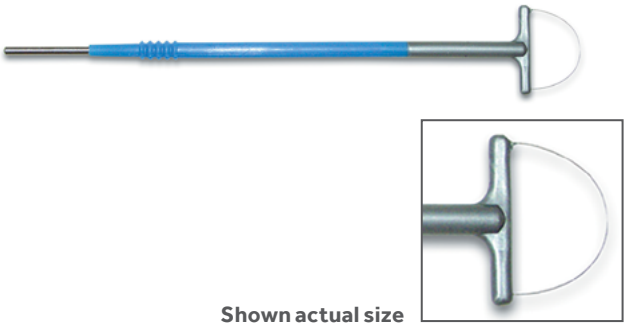


Shown actual size

**E1560** 10 UNITS/CASE

### Tungsten Loop

- 10 mm × 20 mm
- 13 cm (5 in.) shaft length



Shown actual size

**E1562** 10 UNITS/CASE

### Tungsten Loop

- 20 mm × 15 mm
- 13 cm (5 in.) shaft length

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Electrodes, Sterile, Single Use
## LLETZ Electrodes

Shown actual size

**E1563** 10 UNITS/CASE

### Stainless Steel Ball

- 3 mm diameter
- 13 cm (5 in.) shaft length

Shown actual size

**E1565** 10 UNITS/CASE

### Tungsten Square Loop

- 5 mm × 5 mm
- 13 cm (5 in.) shaft length

Shown actual size

**E1564** 10 UNITS/CASE

### Stainless Steel Ball

- 5 mm diameter
- 13 cm (5 in.) shaft length

Shown actual size

**E1567** 10 UNITS/CASE

### Tungsten Square Loop

- 10 mm × 8 mm
- 13 cm (5 in.) shaft length

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Electrodes, Sterile, Single Use
## Stainless Steel Electrodes

**E1550** 150 UNITS/CASE

### Stainless Steel Ball Electrode

- Total length: 5,33 cm (2,1 in.)
- Active length: 1 cm (0,4 in.)
- Diameter: 5 mm (3/16 in.)

**E1551G** 150 UNITS/CASE

### Stainless Steel Blade Electrode

- Total length: 6,2 cm (2,44 in.)
- Active length: 2,8 cm (1,1 in.)

**E1551X** 150 UNITS/CASE

### Stainless Steel Blade Electrode

- Hex locking
- Total length: 6,2 cm (2,44 in.)
- Active length: 2,54 cm (1 in.)



**E1551-6** 50 UNITS/CASE

### Stainless Steel Extended Blade Electrode

- Total length: 16,51 cm (6,5 in.)
- Active length: 2,54 cm (1 in.)

**E1552** 150 UNITS/CASE

### Stainless Steel Needle Electrode

- Total length: 7,2 cm (2,84 in.)
- Active length: 2,8 cm (1,1 in.)
- Tip radius: 0,762 mm (0,030 in.)



**E1552-6** 50 UNITS/CASE

### Stainless Steel Extended Needle Electrode

- Total length: 16,51 cm (6,5 in.)
- Active length: 2,54 cm (1 in.)
- Tip radius: 0,762 mm (0,030 in.)

**E2401** 100 UNITS/CASE

### LectroBrasive™ Tip Cleaner

**For use with stainless steel electrodes**

- Sterile, single use
- 5,08 cm × 5,08 cm (2 in. × 2 in.)
- Adhesive backing
- X-ray detectable

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# CleanCoat™ Laparoscopic Electrodes, Sterile, Single Use
## Solid Laparoscopic Electrodes

**E3770-36C** 10 UNITS/CASE

### CleanCoat™ Laparoscopic Straight Spatula Electrode 36 cm, coated

- Fits 5 mm cannulas
- Total length: 36 cm (14 in.)

**E3771-36C** 10 UNITS/CASE

### CleanCoat™ Laparoscopic Curved Spatula Electrode 36 cm, coated

- Fits 5 mm cannulas
- Total length: 36 cm (14 in.)

**E3771-45C** 10 UNITS/CASE

### CleanCoat™ Laparoscopic Curved Spatula Electrode 45 cm, coated

- Fits 5 mm cannulas
- Total length: 45 cm (17,7 in.)

**E3772-36C** 10 UNITS/CASE

### CleanCoat™ Laparoscopic Wire J-Hook Electrode 36 cm, coated

- Fits 5 mm cannulas
- Total length: 36 cm (14 in.)

**E3773-36C** 10 UNITS/CASE

### CleanCoat™ Laparoscopic Wire L-Hook Electrode 36 cm, coated

- Fits 5 mm cannulas
- Total length: 36 cm (14 in.)

**E3773-45C** 10 UNITS/CASE

### CleanCoat™ Laparoscopic Wire L-Hook Electrode 45 cm, coated

- Fits 5 mm cannulas
- Total length: 45 cm (17,7 in.)

**E3774-36C** 10 UNITS/CASE

### CleanCoat™ Laparoscopic Flat L-Hook Electrode 36 cm, coated

- Fits 5 mm cannulas
- Total length: 36 cm (14 in.)

**E3774-45C** 10 UNITS/CASE

### CleanCoat™ Laparoscopic Flat L-Hook Electrode 45 cm, coated

- Fits 5 mm cannulas
- Total length: 45 cm (17,7 in.)

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils, including E2515, E2516, FT3000, FT3000DB*

# Electrosurgical Electrodes, Sterile, Single Use
## Arthroscopic Electrodes

**E1510** 10 UNITS/CASE

### Arthroscopic Right-Angle Hook Electrode

**Not compatible with foot switching pencils**

- Insulated
- Stainless steel
- Total length: 21,6 cm (8,5 in.)
- Active length: 0,19 cm (0,075 in.)

**E1512** 10 UNITS/CASE

### Arthroscopic Angled Blade Electrode

**Not compatible with foot switching pencils**

- Insulated
- Stainless steel
- Total length: 21,6 cm (8,5 in.)
- Active length: 0,19 cm (0,075 in.)

**E1511** 10 UNITS/CASE

### Arthroscopic 45-Degree Angle Hook Electrode

**Not compatible with foot switching pencils**

- Insulated
- Stainless steel
- Total length: 21,6 cm (8,5 in.)
- Active length: 0,19 cm (0,075 in.)

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Electrodes, Non-Sterile, Reusable
## Stainless Steel Electrodes

**Steam/EtO sterilizable**

**E1000** 1 EACH

### Stainless Steel Ball Electrode

- Total length: 5,33 cm (2,1 in.)
- Active length: 1 cm (0,4 in.)
- Diameter: 3,2 mm (1/8 in.)

**E1005** 1 EACH

### Tungsten Wire Loop Electrode

- Total length: 5 cm (2 in.)
- Active length: 0,95 cm (0,38 in.)
- Diameter: 9,5 mm (3/8 in.)

**E1002** 1 EACH

### Stainless Steel Ball Electrode

- Total length: 5,1 cm (2 in.)
- Active length: 5,6 mm (0,22 in.)
- Diameter: 5,6 mm (7/32 in.)

**E1020** 1 EACH

### Stainless Steel Blade Electrode

- Hex locking
- Total length: 7 cm (2,75 in.)
- Active length: 2,8 cm (1,1 in.)

**E1003** 1 EACH

### Stainless Steel Fine-Needle Electrode

- Total length: 6,6 cm (2,6 in.)
- Active length: 2,54 cm (1 in.)
- Tip radius: 0,51 mm (1/64 in.)

**Only sold in selected countries**

**303-2** 5 UNITS/CASE

### Reger™* Needle Electrode; 20 × Ø 0,7 mm

- Connector pen: 2,4 mm
- Mechanical properties: to cut tissue
- Electrical properties: according to IEC 60601-1, IEC 60601-2-2
- Reprocessing: 300 times autoclavable at 134 °C; holding time 10 min
- Material: 1.4305, polyamide
- Color: black

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Accessories, Non-Sterile, Reusable
## Electrode Extensions

**Steam/EtO sterilizable.**

Only sold in selected countries

**361-0** 5 UNITS/CASE

### Tungsten Loop Electrode

- Loop diameter: 25 mm
- Shaft length: 110 mm

Only sold in selected countries

**361-1** 5 UNITS/CASE

### Tungsten Loop Electrode

- Loop diameter: 30 mm
- Shaft length: 110 mm

**E1502** 1 EACH

### Straight Electrode Extension

**Compatible with standard 2,4 mm (3/32in.) shaft electrodes**

- Total length: 13 cm (5,1 in.)
- Extension length: 10,2 cm (4 in.)



**E1504** 1 EACH

### Straight Electrode Extension

**Compatible with standard 2,4 mm (3/32in.) shaft electrodes**

- Fits 5 mm cannulas
- Total length: 34,3 cm (13,5 in.)
- Extension length: 31,5 cm (12,4 in.)

Only sold in selected countries

**301-5** 5 UNITS/CASE

### Reger™* Angled Blade Electrode

- 20 × 2,5 mm
- 45° angled connector: 2,4 mm
- Autoclavable at 134 °C
- Material: 1.4305, polyamide
- Color: black

Only sold in selected countries

**374-3** 1 EACH

### Reger™* Electrode Adapter

- 2,4 mm to 4 mm
- Autoclavable at 134 °C
- Color: black

Only sold in selected countries

**374-5** 1 EACH

### Reger™* Electrode Extension

**For use with 2,4 mm electrodes and pencils**

- Length: 90 mm
- Autoclavable at 134 °C
- Color: black

Only sold in selected countries

**374-6** 1 EACH

### Reger™* Electrode Extension

**For use with 2,4 mm electrodes and pencils**

- Length: 140 mm
- Autoclavable at 134 °C
- Color: black

*Standard 2,4 mm (3/32 in.) shaft is designed to fit most electrosurgical pencils*

# Electrosurgical Accessories, Sterile, Single Use
## Tip Cleaner, Holster

**E2401** 100 UNITS/CASE

### LectroBrasive™ Tip Cleaner

**For use with stainless steel electrodes**

- Sterile, single use
- 5,08 cm × 5,08 cm (2 in. × 2 in.)
- Adhesive backing
- X-ray detectable

**E2400** 50 UNITS/CASE

### Electrosurgery Accessory Holster

- Sterile, single use

# Patient Return Electrodes, Non-Sterile, Single Use
Corded

**E7507** 50 UNITS/CASE

### Adult REM PolyHesive™ II Patient Return Electrode

**For use with RECQM generators**

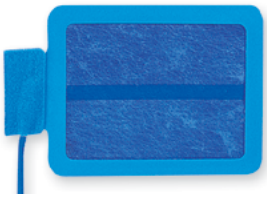
- For patients > 30 lbs (> 13,6 kg)
- 2,7 m (9 ft) cord

**E7507-DB** 50 UNITS/CASE

### Adult REM PolyHesive™ II Patient Return Electrode

**For use with RECQM generators**

- For patients > 30 lbs (> 13,6 kg)
- 4,6 m (15 ft) cord

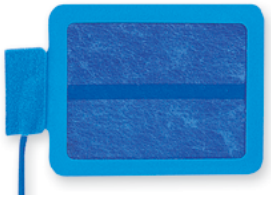


**E7510-25** 25 UNITS/CASE

### Infant REM PolyHesive™ II Patient Return Electrode

**For use with RECQM generators**

- For patients 6 – 30 lbs (2,72 – 13,6 kg)
- 2,7 m (9 ft) cord



**E7510-25DB** 25 UNITS/CASE

### Infant REM PolyHesive™ II Patient Return Electrode

**For use with RECQM generators**

- For patients 6-30 lbs (2,72 – 13,6 kg)
- 4,6 m (15 ft) cord

**E7512** 12 UNITS/CASE

### Neonatal REM PolyHesive™ II Patient Return Electrode

**For use with RECQM generators**

- For patients 1 – 6 lbs (0,45 kg – 2,72 kg)
- 2,7 m (9 ft) cord

*RECQM = Return Electrode Contact Quality Monitoring*

# Patient Return Electrodes, Non-Sterile, Single Use
## Non-Corded

**E7509** 50 UNITS/CASE, 5 per package
10 resealable packages per case

### Adult REM PolyHesive™ II Patient Return Electrode

**Requires E0560 reusable cord/clamp**

**For use with RECQM generators**

- For patients > 30 lbs (> 13,6 kg)

**E7509-B** 600 UNITS/CASE
50 per package, 12 resealable packages

### Adult REM PolyHesive™ II Patient Return Electrode

**Requires E0560 reusable cord/clamp**

**For use with RECQM generators**

- For patients > 30 lbs (> 13,6 kg)

**HRA6** 50 UNITS/CASE, 10 units per pouch

### Valleylab™ Universal Patient Return Electrode

- Removable sticker for health record
- Waterproof and resistant to liquids
- No specific orientation needed
- ProRe™ Hydrogel

*B = Bulk*

# Patient Return Electrode Cord

**E0560** 1 EACH

## Patient Return Electrode Cord/Clamp, Reusable

**Compatible with with RECQM generators**

**For use with E7508, E7509 and E7509-B patient return electrodes**

- REM™ pin connector
- 4,6 m (15 ft) cord

**E0560E** 1 EACH

## Patient Return Electrode Cord/Clamp

**For use with E7509 and E7509-B patient return electrodes and ERBE generators**

- 4,6 m (15 ft) cord

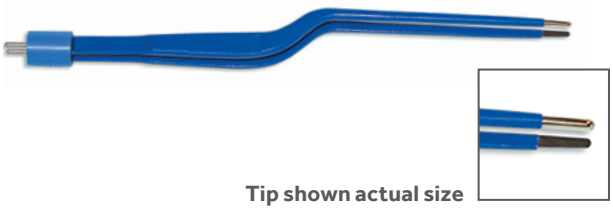
# Foot Switching Bipolar Forceps, Non-Sterile, Reusable

**Steam/EtO sterilizable**
**Only sold in selected countries**

**E4051-CT** 1 EACH

### Scoville-Greenwood Bayonet Forceps†

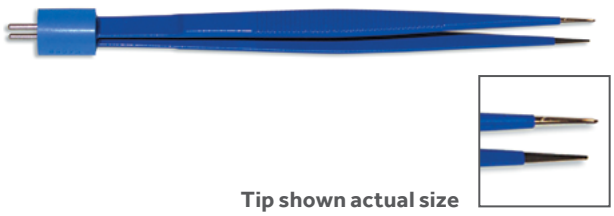
- Insulated
- Smooth tips
- Total length: 19,7 cm (7,75 in.)
- Tip: 1,5 mm




**E4054-CT** 1 EACH

### Cushing Bayonet Forceps†

- Insulated
- Smooth tips
- Total length: 19,1 cm (7,5 in.)
- Tip: 2,0 mm




**E4052-CT** 1 EACH

### Cushing Forceps†

- Insulated
- Smooth tips
- Total length: 15,2 cm (6 in.)
- Tip: 0,7 mm

**E4055-CT** 1 EACH

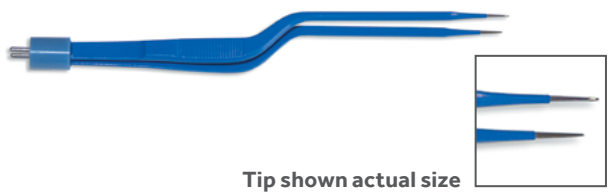
### Jewelers Forceps, Straight Tip†

- Insulated
- Smooth tips
- Total length: 10,2 cm (4 in.)
- Tip: 0,4 mm

**E4053-CT** 1 EACH

### Cushing Forceps†

- Insulated
- Smooth tips
- Total length: 17,8 cm (7 in.)
- Tip: 1,5 mm




**E4057-CT** 1 EACH

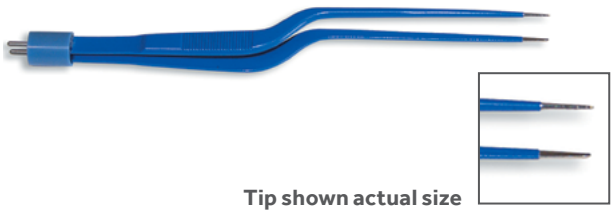
### Gerald Bayonet Forceps†

- Insulated
- Smooth tips
- Total length: 19,1 cm (7,5 in.)
- Tip: 0,7 mm

*† Requires E0512 single use cords or QI2401 or E0020V reusable cords*

# Foot Switching Bipolar Forceps, Non-Sterile, Reusable

**Steam/EtO sterilizable**
**Only sold in selected countries**



Tip shown actual size

**E4058-CT** 1 EACH

## Cushing Bayonet Forceps

- Insulated
- Smooth tips
- Total length: 19,1 cm (7,5 in.)
- Tip: 0,7 mm

Tip shown actual size

**E4059-CT** 1 EACH

## Hardy Bayonet Forceps with Stops*

- Insulated
- Smooth tips
- Total length: 20,9 cm (8,25 in.)
- Tip: 0,5 mm

Tip shown actual size

**E4060-CT** 1 EACH

## Semkin Forceps with Stops*

- Insulated
- Smooth tips
- Total length: 14 cm (5,5 in.)
- Tip: 0,5 mm

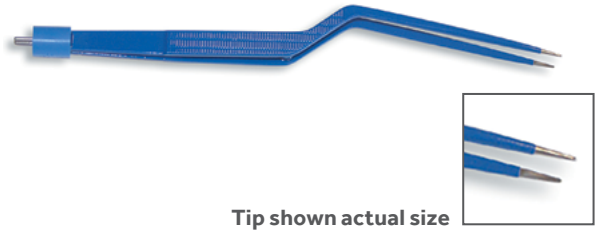
** Stops prevent scissoring of the tip*

Tip shown actual size

**E4062-CT** 1 EACH

## Curved Iris Forceps

- Insulated
- Smooth tips
- Total length: 8,9 cm (3,5 in.)
- Tip: 0,5 mm



Tip shown actual size

**E4073-CT** 1 EACH

## Titanium Bayonet Forceps

- Insulated
- Smooth tips
- Total length: 22,2 cm (8,75 in.)
- Tip: 1,0 mm

# Bipolar Coagulation Scissors, Non-Sterile, Reusable

Medtronic bipolar coagulation scissors are available with three different jaw designs and can be used with common bipolar cables (European flat connector).

**Only sold in selected countries**

## MEDTRONIC REUSABLE BIPOLAR COAGULATION SCISSORS 1 EACH

### Standard Blade

**E97015BPS – 180 mm**

**E97016BPS – 210 mm**

**E97017BPS – 230 mm**

**E97013BPS – 280 mm**

- Can be used with standard bipolar forceps cords (e.g. E360131L, E360150L)
- Autoclavable at 134 °C
- Umax 300 Vp

## MEDTRONIC REUSABLE BIPOLAR COAGULATION SCISSORS 1 EACH

### Slim Blade

**E97011BPS – 180 mm**

**E97018BPS – 210 mm**

**E97012BPS – 230 mm**

**E97014BPS – 280 mm**

- Can be used with standard bipolar forceps cords (e.g. E360131L, E360150L)
- Autoclavable at 134 °C
- Umax 300 Vp

## MEDTRONIC REUSABLE BIPOLAR COAGULATION SCISSORS 1 EACH

### Micro Blade

**E97020BPS – 140 mm**

**E97021BPS – 175 mm**

- Can be used with standard bipolar forceps cords (e.g. E360131L, E360150L)
- Autoclavable at 134 °C
- Umax 300 Vp

# Electrosurgical Accessories, Sterile, Single Use
## Cords

**FT0510** 25 UNITS/CASE

### Foot Switching Monopolar Cord Valleylab™ Mode

**Connects any surgical instrument with a 4 mm connect or to the ForceTriad™ energy platform**

- Delivers Valleylab™ mode
- Works with EndoShears, EndoDissectors, Roticulators, reusable lap handles
- 3 m (10 ft)

**E0503** 50 UNITS/CASE

### Foot Switching Monopolar Cord

**For use with ACMI Classic Series, pediatric, classic long resectoscopes and ACMI Bugbee electrodes**

**Requires E0502-1 monopolar adapter**

- 3 m (10 ft)

**E0510** 50 UNITS/CASE

### Foot Switching Monopolar Laparoscopic Cord

**For use with most monopolar laparoscopic instruments**

**Requires E0502-1 monopolar adapter**

- Accepts 4 mm male post connector
- 3 m (10 ft)

**E0520** 10 UNITS/CASE

### Valleylab Trigger™ Switch and Cord

**Converts most monopolar foot-activated laparoscopic and thorascopic instruments to hand activation**

- Accepts 4 mm male post connector
- Trigger switch total length: 12,7 cm (5 in.)
- Monopolar connecting cord 3,0 m (10 ft)

**E0512** 50 UNITS/CASE

### Foot Switching Bipolar Forceps Cord

**For use with Valleylab™ bipolar foot switching forceps**

**Compatible with Force™ series and SurgiStat™ II generators**

- Moulded plug
- 3,6 m (12 ft)

# Electrosurgical Accessories, Non-Sterile, Reusable
## Bipolar Cords

**92067** 1 EACH

### Reger™* Cable for Ethicon PowerStar Bipolar Scissors for International 2-pole Models, 5,0 m

- Generator side plug: international 2-pole model
- Instrument side plug: Ethicon PowerStar Bipolar Scissors
- Mechanical properties: to connect Ethicon PowerStar Bipolar Scissors with generators from international models
- Electrical properties: according to IEC 60601-1, IEC 60601-2-2
- Reprocessing: 300 times autoclavable at 134 °C; holding time 10 min
- Combination items: Ethicon PowerStar Bipolar Scissors
- Colour: grey
- Surface: matt

# Electrosurgical Accessories, Non-Sterile, Reusable
## Bipolar Cords

### Steam sterilizable

**E0020V** 1 EACH

#### Foot Switching Bipolar Cord

**For use with the ForceTriad™ and Valleylab™ FX8 energy platforms**

**Also compatible with all Force™ series and SurgiStat™ II generators**

**For use with Valleylab™ bipolar foot switching forceps**

- Moulded plug
- 4,5 m (15 ft)

**E0021S** 1 EACH

#### Foot Switching Bipolar Cord

**For use with the ForceTriad™ and Valleylab™ FX8 energy platforms**

**Also compatible with all Force™ series and SurgiStat™ II generators**

**Compatible with most Storz bipolar instruments**

- Moulded plug
- 4,5 m (15 ft)

**E0022W** 1 EACH

#### Foot Switching Bipolar Cord

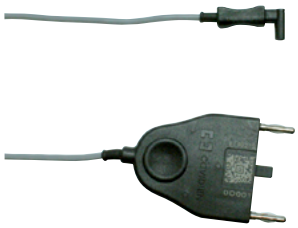
**For use with the ForceTriad™ and Valleylab™ FX8 energy platforms**

**Also compatible with all Force™ series and SurgiStat™ II generators**

**Compatible with most Wolf bipolar forceps**

- Moulded plug
- 4,5 m (15 ft)

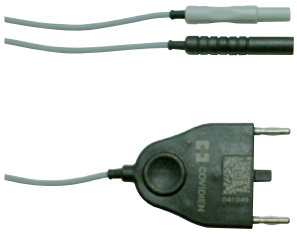
### Bipolar resection cords



**FT0021S** 1 EACH

#### Storz™* Bipolar Resection Cord

- To be used with Storz™* bipolar Resectoscopes
- To be used with the ForceTriad™ energy platform
- Reusable
- 4,6 m cord

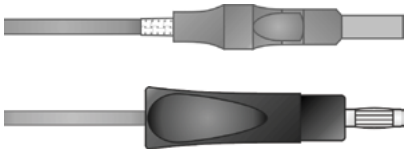


**FT0022W** 1 EACH

#### Wolf Bipolar Resection Cord

- To be used with Wolf bipolar resectoscopes
- To be used with the ForceTriad™ energy platform
- Reusable
- 4,6 m cord

# Electrosurgical Accessories, Non-Sterile, Reusable, Monopolar Cords

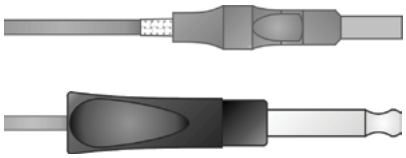


**360186** 1 EACH

## Foot Switching Monopolar Cord

**For use with Erbe ACC/ICC generators**

- 4 mm female connector
- 3,5 m (11,5 ft)
- Use with Monopolar Forceps 700XXX



**360187** 1 EACH

## Foot Switching Monopolar Cord

**For use with Valleylab**

- Jack 8 mm connector
- 3,5 m (11,5 ft)
- Use with Monopolar Forceps 700XXX

# Electrosurgical Accessories, Non-Sterile, Reusable
## Adapters

**E0017** 1 EACH

### Universal Monopolar Adapter

**Compatible with Valleylab™ and most electrosurgical generators for foot switching activation**

- Accepts standard monopolar accessory cords up to 6 mm

**E0502-1** 1 EACH

### Monopolar Adapter

**Compatible with Valleylab™ and most electrosurgical generators for foot switching activation**

- Accepts standard monopolar accessory cord pin connectors up to 3,2 mm

**E0005-3C** 1 EACH

### Monopolar Adapter

- Accepts 4 mm standard active accessory

**368587** 1 EACH

### Monopolar Adapter

**For use with Martin/ Berchtold generators**

- Accepts Valleylab™ 3 pin electrosurgical pencils

**368687** 1 EACH

### Monopolar Adapter

**For use with Erbe ACC/ICC generators**

- Accepts Valleylab™ 3 pin electrosurgical pencils

**E0507-B** 1 EACH

### Multiple Return/S Cord Adapter

**For use with all Valleylab™ REM-equipped generators**

- Accepts Valleylab™ REM PolyHesive™ II patient return electrodes
- Enables use of two patient return electrodes
- Enables use of an S cord

# Electrosurgical Accessories

## E0504-2 Non-REM™ Patient Return Electrode Adapter Quick Reference Index

### For use with the following generators:

- Birtcher/Bard System 2000BP
- Birtcher/Bard System 2000BP-11
- Birtcher/Bard System 3000
- Birtcher/Bard System 5000
- Burdick SU-7
- Burdick SU-8
- Cameron-Miller 26-1290
- Cameron-Miller 26-2500
- Cameron-Miller 80-1983
- Circon/ACMI Wrappler BC-200
- Circon/ACMI Wrappler C-650
- Circon/ACMI Wrappler C-650-FO
- Concept 9600
- Concept 9900
- ConMed/Aspen Labs 100
- ConMed/Aspen Labs 180
- ConMed/Aspen Labs 360
- ConMed/Aspen Labs 360 A
- ConMed/Aspen Labs MF380
- ConMed/Aspen Labs MF450
- EMS/Davol/NDM Blendtomes
- EMS/Davol/NDM Hyfrecators
- EMS/Davol/NDM 701-706
- EMS/Davol/NDM 737
- EMS/Davol/NDM 737XL
- EMS/Davol/NDM 771
- EMS/Davol/NDM 772
- EMS/Davol/NDM 773
- Maxxim CSV Bovie
- Maxxim URO Bovie
- Maxxim/Bovie X-10
- Maxxim Solid State 400
- Maxxim Solid State 400 B
- Maxxim Solid State 400SR
- Microvasive Endostat, Endostat II
- Neomed/Richards 3000 Series
- Utah Medical Finesse

**92394** 1 EACH

### Bipol. Adapter International / ERBE™ Cable

- Generator side: international version 2 pol.
- Accessory side: bipolar cable with ERBE™ plug
- Electrical properties: according to IEC 60601-1, IEC 60601-2-2
- Autoclavable at 134 °C

# Electrosurgical Accessories

## Monopolar Cord Quick Reference Index

| Product Number | Product | Length | Single Use/Reusable | Order Quantity | Comments |
|---|---|---|---|---|---|
| E0510 | Foot Switching Laparoscopic Instrument Cord | 3 m (10 ft) | Single Use | 50 units/case | Accepts standard 4 mm male post connector<br>Requires E0502-1 monopolar adapter |
| E0503 | Foot Switching Bugbee Electrode Cord | 3 m (10 ft) | Single Use | 50 units/case | Requires E0502-1 monopolar adapter |
| 360186 | Foot Switching | 3,5 m (11,5 ft) | Reusable | 1 each | Accepts 4 mm male connector generators |
| 360187 | Foot Switching | 3,5 m (11,5 ft) | Reusable | 1 each | Accepts 4 mm male connector generators |

## Bipolar Cord Quick Reference Index

| Product Number | Product | Length | Single Use/Reusable | Order Quantity | Comments |
|---|---|---|---|---|---|
| E0512 | Foot Switching Forceps Cord | 3,6 m (12 ft) | Single Use | 50 units/case | Three-pin moulded plug is compatible with Force™ series and SurgiStat™ II generators |
| E0020V | Foot Switching Bipolar Cord | 4,6 m (15 ft) | Reusable – Steam | 1 each | Moulded plug<br>Accepts Valleylab™ bipolar foot switching forceps |
| E0021S | Foot Switching Bipolar Cord | 4,6 m (15 ft) | Reusable – Steam | 1 each | Moulded plug<br>Accepts most Storz bipolar instruments |
| E022W | Foot Switching Bipolar Cord | 4,6 m (15 ft) | Reusable – Steam | 1 each | Moulded plug<br>Accepts most Wolf bipolar forceps |
| E360131L | Foot Switching Forceps Cord | 4,6 m (15 ft) | Reusable – Steam/EtO | 1 each | For use with ErbeStorz Wolf generators |
| E360139L<br>E360150L | Foot Switching Forceps Cord | 4,6 m (15 ft) | Reusable – Steam/EtO | 1 each | For use with Valleylab generators |
| E360139L | Foot Switching Forceps Cord | 4,6 m (15 ft) | Reusable – Steam/EtO | 1 each | For use with Martin/ Berchtold generators |
| E360135 | Foot Switching Forceps Cord | 4,6 m (15 ft) | Reusable – Steam/EtO | 1 each | Standard twin pin plug |
| FT0021S | Foot Switching Cord | 4,6 m (15 ft) | Reusable – Steam/EtO | 1 each | For use with ForceTriad™ energy platform |
| FT0022W | Foot Switching Cord | 4,6 m (15 ft) | Reusable – Steam/EtO | 1 each | For use with ForceTriad™ energy platform |

# Laparoscopic Instruments, Sterile, Single Use
## Opti4™ Handset and Retractable Hollow Laparoscopic Electrodes

**E2750** 10 UNITS/CASE

### Opti4™ Laparoscopic Handset

**Requires Opti4™ retractable and non-retractable electrodes**

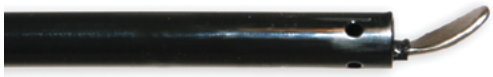
- Laparoscopic suction/irrigation device with cut and coag
- Pencil-grip
- 3 m (10 ft) cord

**E2783R-36ASP** 10 UNITS/CASE

### Wire L-Hook Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Aspiration holes
- Insulated tip
- Total length: 36 cm (14 in.)



**E2781R-28ASP** 10 UNITS/CASE

### Curved Spatula Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Aspiration holes
- Total length: 28 cm (11 in.)

**E2784R-28ASP** 10 UNITS/CASE

### Flat L-Hook Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Aspiration holes
- Insulated tip
- Total length: 28 cm (11 in.)

**E2782R-28ASP** 10 UNITS/CASE

### Wire J-Hook Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Aspiration holes
- Insulated tip
- Total length: 28 cm (11 in.)

# Laparoscopic Instruments, Sterile, Single Use
## Opti4™ Non-Retractable Hollow Laparoscopic Electrodes

**E2780-28** 10 UNITS/CASE

### Straight Spatula Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Total length: 28 cm (11 in.)

**E2783-28** 10 UNITS/CASE

### Wire L-Hook Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Total length: 28 cm (11 in.)

**E2781-28** 10 UNITS/CASE

### Curved Spatula Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Total length: 28 cm (11 in.)

**E2784-28** 10 UNITS/CASE

### Flat L-Hook Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Total length: 28 cm (11 in.)

**E2782-28** 10 UNITS/CASE

### Wire J-Hook Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Total length: 28 cm (11 in.)

**E2786-28** 10 UNITS/CASE

### Cylindrical Tip

**Requires E2750 Opti4™ handset**

- Fits 5 mm cannulas
- Total length: 28 cm (11 in.)

# Argon-Enhanced Electrosurgery
## Argon 4 Plasma coagulator System and Accessories

**07179** 1 EACH

### Argon™ 4 Plasma generator

**The Argon™ 4 plasma generator is designed to work in conjunction with Valleylab electrosurgical units**

- Interactive LCD screen
- Individual gas flow settings for CUT & COAG
- Gas level meter on display
- Supports 2 individual Argon tanks
- Dimensions 410 × 300 × 145mm
- Weight: 5,35kg

**10760** 1 EACH

### Argon™ Adapter Valleylab™ E2520H Handpiece

**Compatible with Valleylab E2520H handpiece**

- For use with Argon™ 4 Generator

**UC8015** 1 EACH

### Universal Mounting Cart Argon Gas Tank Kit

- Holds 2 G-size 42 cubic ft tanks

**UC8009** 1 EACH

### Universal Mounting Cart

- Rust resistant
- Conductive casters (2 locking, 2 non-locking)

**UC8010** 1 EACH

### Universal Mounting Cart Overshelf

**Ideal for a second electrosurgical generator, LigaSure™ vessel sealing system, RapidVac™ smoke evacuation system or Force Argon II™ system**

- Supports 75 lbs centered on shelf

# Argon-Enhanced Electrosurgery
## Argon 4 Plasma coagulator Accessories

**10763** 1 EACH

### Argon™ Connection Hose

**Connection Hose length 280 mm**

**10764** 1 EACH

### Argon™ Connection Hose

**Connection Hose length 750 mm**

**10765** 1 EACH

### Argon™ Connection Hose

**Connection Hose length 1500 mm**

**10761** 1 EACH

### Argon™ cable ESU

**Designed to be used with Valleylab Electrosurgical Generator**

- 170 mm

**10762** 1 EACH

### Argon™ cable ESU

**Designed to be used with Valleylabb™ Electrosurgical Generator**

- 450 mm

**10767** 1 EACH

### Argon™ Cylinder connection

**Standard ISO 5145 N4;**
**cylinder thread W24 × 2 mm RH Male**

**10769** 1 EACH

### Argon™ Cylinder connection

**Standard DIN 477-1 N6;**
**cylinder thread W 21,8 – 14 TPI RH Male**

**10770** 1 EACH

### Argon™ Cylinder connection

**Standard BS341-3 N3;**
**cylinder thread G 5/8" – 14 NGO RH Female**

**10771** 1 EACH

### Argon™ Cylinder connection

**Standard UNI11144 N8;**
**cylinder thread W24,51 × 1,814 RH Female**

**10773** 1 EACH

### Argon™ Cylinder connection

**Standard NEN 3268 RU 3;**
**cylinder thread W24,32 × 1/14" RH Male**

# Argon-Enhanced Electrosurgery, Sterile, Single Use
## Argon Plus™ Handset

| E2520H | 10 UNITS/CASE |
|---|---|

### ArgonPlus™ Handset

**Requires Argon Plus™ electrodes**

**Requires E0502-1 monopolar adapter**

- For delivery of standard or argon-enhanced electrosurgery
- 2,5 cm (1 in.) retractable blade electrode
- 3,6 m (10 ft.) cord
- Holster
- Electrode retraction control

# Argon-Enhanced Electrosurgery, Sterile, Single Use
## Argon Plus™ Electrodes

**E2530-3** 10 UNITS/CASE

### Flexible Electrode

**Requires E2520H Argon Plus™ handset**

- Argon coagulation only
- 7,6 cm (3 in.) length

**E2530-6** 10 UNITS/CASE

### Flexible Electrode

**Requires E2520H Argon Plus™ handset**

- Argon coagulation only
- 15 cm (6 in.) length

**E2530-28** 10 UNITS/CASE

### Laparoscopic Flexible Electrode

**Requires E2520H Argon Plus™ handset**

- Fits 5 mm cannulas
- Argon coagulation only
- 28 cm (11 in.) length

**E2580-28** 10 UNITS/CASE

### Laparoscopic Blade Electrode

**Requires E2520H Argon Plus™ handset**

- Fits 5 mm cannulas
- 28 cm (11 in.) length
- Retractable electrode

**E2581-28** 10 UNITS/CASE

### Laparoscopic Modified Flat-L Electrode

**Requires E2520H Argon Plus™ handset**

- Fits 5 mm cannulas
- 28 cm (11 in.) length
- Retractable electrode

**E2583-28** 10 UNITS/CASE

### Laparoscopic Tungsten Blunt Needle Electrode

**Requires E2520H Argon Plus™ handset**

- Fits 5 mm cannulas
- 28 cm (11 in.) length
- Retractable electrode

**E2532** 50 UNITS/CASE

### Tungsten Sharp Needle Electrode

**Requires E2520H Argon Plus™ handset**

- 2,5 cm (1 in) length

# Smoke Evacuation Products

## RapidVac™ Smoke Evacuation System and Accessories

**SE3695** 1 EACH

### RapidVac™ Smoke Evacuator

**Requires SEA3700 RapidVac™ smoke evacuator filter**

**For use with any electrosurgical generator**

- Evacuates electrosurgical smoke and laser plume
- Synchronizes with electrosurgical units for auto activation using SEA3730
- Five power levels plus turbo mode
- Maximum flow rate of 44 cfm
- Needs no prefilters or adapters

**SEA3700** 2 UNITS/CASE

### RapidVac™ Smoke Evacuator Filter

- Four-stage, ULPA filter technology
- Three convenient ports, no adapters needed
  Port size: 6 mm (1/4 in.)
  10 mm (3/8 in.)
  22 mm (7/8 in.)
- No prefilter needed
- 25 hours of activation time; approximately three to five months actual use

**SEA3730** 1 EACH

### RapidVac™ Interlink Cable

**Synchronizes RapidVac™ system to FT10, FX8 and Force Triad**

- 3 m (10 ft) cable

**SEA3741** 1 EACH

### RapidVac™ Remote Switch Activator

**Synchronizes RapidVac™ System to any ES generator by sensing the RF Energy through the ES Pencil cable**

- Adjustable delay of STOP function (0 to 10 sec)

**SEA3745** 1 EACH

### RapidVac™ Smoke Evacuator Foot Switch

**For use with RapidVac™ smoke evacuator**

- 4,6 m (15 ft) cord

# Smoke Evacuation Products, Sterile, Single Use
## RapidVac™ Tubing



**SEA3705** 10 UNITS/CASE

### Tubing, 1/4" × 10'

- Connects directly to RapidVac™ smoke evacuator
- Lap tubing/no valve

**SEA3710** 10 UNITS/CASE

### Tubing, 3/8" × 10'

- Connects directly to RapidVac™ smoke evacuator
- Interfaces with AccuVac™ pencil

**SEA3715** 10 UNITS/CASE

### Tubing with Sponge Guard, 7/8" × 10'

- Connects directly to RapidVac™ smoke evacuator

**SEA3720** 12 UNITS/CASE

### Laparoscopic Tubing, 1/4" × 10'

- Connects directly to RapidVac™ smoke evacuator
- In-line valve enables controlled smoke evacuation with minimal pneumoperitoneal pressure loss

**SEA3725** 10 UNITS/CASE

### Wand

**Compatible with E3635 and SEA3715 7/8" tubing**

- For evacuation of laser plume; laser resistant
- 2,2 cm (7/8 in.) diameter
- 20 cm (8 in.) length



**E3595** 10 UNITS/CASE

### AccuVac™ Smoke Evacuation Attachment Extender

**For use with 15,24 cm (6 in.) extended electrodes**

*See Quick Reference Index on page 69*

# Smoke Evacuation Products, Sterile, Single Use
## Smoke Evacuation Pencils and Attachments

**E2350HS** 25 UNITS/CASE

### Rocker Switch Pencil

- EDGE™ coated hex-locking blade electrode
- AccuVac™ smoke evacuation attachment (requires a smoke evacuator)
- Holster
- 3/8" × 1' tubing with 3/8" tubing connector
- 3 m (10 ft) cord

**E2450HS** 25 UNITS/CASE

### Button Switch Pencil

- EDGE™ coated hex-locking blade electrode
- AccuVac™ smoke evacuation attachment (requires a smoke evacuator)
- Holster
- 3/8" × 1' tubing with 3/8" tubing connector
- 3 m (10 ft) cord

**E2515HS** 25 UNITS/CASE

### Rocker Switch Pencil

- Stainless steel hex-locking blade electrode
- AccuVac™ smoke evacuation attachment (requires a smoke evacuator)
- Holster
- 3/8" × 1' tubing with 3/8" tubing connector
- 3 m (10 ft) cord

**E2516HS** 25 UNITS/CASE

### Button Switch Pencil

- Stainless steel hex-locking blade electrode
- AccuVac™ smoke evacuation attachment (requires a smoke evacuator)
- Holster
- 3/8" × 1' tubing with 3/8" tubing connector
- 3 m (10 ft) cord

**E3810** 20 UNITS/CASE

### Valleylab™ Smoke Attachment

- 3/8" (1 cm) tubing, 10' (3 m)

**E3815** 20 UNITS/CASE

### Valleylab™ Smoke Attachment

- 3/8" (1 cm) tubing, 15' (4,6 m)

*See Quick Reference Index page 69*

# Smoke Evacuation Products, Sterile, Single Use

## Smoke Evacuation Pencils and Attachments

**SEP5000** 20 UNITS/CASE

**Valleylab™ Smoke Evacuation Rocker Switch Pencil, Edge™ Blade Electrode 10′ (3 m)**

**SEP5015** 20 UNITS/CASE

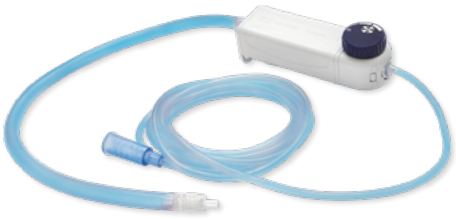
**Valleylab™ Smoke Evacuation Rocker Switch Pencil, Edge™ Blade Electrode 15′ (4,6 m)**

**SEP6000** 20 UNITS/CASE

**Valleylab™ Telescoping Smoke Evacuation Rocker Switch Pencil, Edge™ Blade Electrode 10′ (3 m)**

**SEP6015** 20 UNITS/CASE

**Valleylab™ Telescoping Smoke Evacuation Rocker Switch Pencil, Edge™ Blade Electrode 15′ (4,6 m)**



**SEL7000A** 10 UNITS/CASE

**Valleylab™ Laparoscopic Smoke Evacuation System**

# Smoke Evacuation Products
## OptiMumm™ Smoke Evacuation Accessories



**E3635** 12 UNITS/CASE

### Tubing 7/8" × 10' with Sponge Guard and Prefilter Adapter

**For use with the OptiMumm™ smoke evacuator**

- Sterile, single use
- 3,4 cm (1 1/3 in.) connector

**E3645** 10 UNITS/CASE

### AccuVac™ Smoke Evacuation Attachment Tubing

**For use with E3590**

- Sterile, single use
- 1 cm (3/8 in.) diameter
- 3 m (10 ft) length
- 3,4 cm (1 1/3 in.) diameter prefilter adapter

*See Quick Reference Index page 69*

# Smoke Evacuation Products
## Smoke Evacuation Accessories

**RVFT10** 10 UNITS/CASE

### RapidVac™ Fluid Trap

- No spill design – internal tortuous path prevents contents from leaking
- Capped connection ports with cap holders built into fluid trap
- 100 cc capacity with marked 25 cc graduations
- Clear construction allows for inspection of contents

**UC8009** 1 EACH

### Universal Mounting Cart

- Rust resistant
- Conductive casters (2 locking, 2 non-locking)
- Supplied with cord management kit

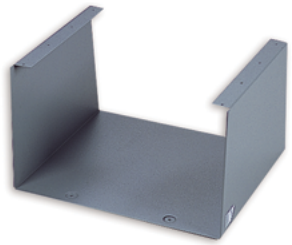
**UC8010** 1 EACH

### Universal Mounting Cart Overshelf

**For use with UC8009 universal mounting cart only**

**Ideal for RapidVac™ or OptiMumm™ smoke evacuation systems**

- Supports 75 lbs centered on shelf
- Supplied with cord management kit



**UC8013** 1 EACH

### Universal Mounting Cart Suspended Shelf

**For use with UC8009 universal mounting cart only**

**Not compatible with UC8012 drawer**

**Ideal for the RapidVac™ or OptiMumm™ smoke evacuation systems**

- Supports 75 lbs

# ELECTROSURGICAL PENCIL QUICK REFERENCE INDEX

| Usage | Activation | Model | Electrode connection | Electrode technology | Electrode shape | Cord length | Specialty | Code | Packaging pcs/box |
|---|---|---|---|---|---|---|---|---|---|
| Single use | Hand switching | Rocker | Hex-locking | EDGE™ Coated Electrode | Blade | 3 m | With holster | E2350H | 50 |
| | | | | | | | Smoke evacuation - holster | E2350HS | 25 |
| | | | | | | 4,6 m | With holster | E2350H-DB | 50 |
| | | | | Stainless Steel | Blade | 3 m | | E2515 | 50 |
| | | | | | | | With holster | E2515H | 50 |
| | | | | | | | Smoke evacuation - holster | E2515HS | 25 |
| | | | | | | 4,6 m | With holster | E2515H-DB | 50 |
| | | | Cylindrical | Stainless Steel | Needle | 3 m | With holster | E2515H-DA | 50 |
| | | | | | 90° Angle | 3 m | With holster | E2510H | 10 |
| | | Button | Hex-locking | EDGE™ Coated Electrode | Blade | 3 m | With holster | E2450H | 50 |
| | | | | | | 3 m | Smoke evacuation - holster | E2450HS | 50 |
| | | | | Stainless Steel | Blade | 3 m | | E2516 | 50 |
| | | | | | | 3 m | With holster | E2516H | 50 |
| | | | | | | 3 m | Smoke evacuation - holster | E2516HS | 25 |
| | | | Cylindrical | Stainless Steel | Needle | 3 m | Smoke evacuation - holster | E2516H-DA | 50 |
| | | | | | Blade | 3 m | | VL2610 | 50 |
| | | | | | | 4,5 m | for ERBE ESU | VL2610E | 50 |
| | | | | | | 4,5 m | | VL2610DB | 50 |
| | | | | Coated Stainless Steel | Blade | 3 m | | VL2615 | 50 |
| | | | | | | 4,5 m | | VL2615E | 50 |
| | | | | | | 4,5 m | | VL2615DB | 50 |
| | | Button | Hex-locking | EDGE™ Coated Electrode | Blade | 3 m | ValleyLab™ Mode | FT3000 | 25 |
| | | | | | | 4,6 m | ValleyLab™ Mode | FT3000DB | 25 |
| | Foot switching | | Hex-locking | EDGE™ Coated Electrode | Blade | 3 m | With holster | E2250H | 50 |
| | | | | Stainless Steel | Blade | 3 m | | E2504 | 50 |
| | | | | | | | With holster | E2504H | 50 |
| Reusable | Hand switching | Rocker | Hex-locking | Stainless Steel | Blade | 4,6 m | | E2100 | 10 |
| | | | | | | | for ERBE ESU | E2100E | 10 |

Rocker

Button

Cylindrical

Hex-locking

Holster

# SMOKE EVACUATION PENCIL QUICK REFERENCE INDEX

| | | E2350HS | E2450HS | E2515HS | E2516HS | E3590 | E3595 | SE3695 | SEA3700 | SEA3730 | SEA3745 | SEA3705 | SEA3710 | SEA3715 | SEA3720 | SEA3725 | INS-500/515 | INS-600/615 | INS-400-150/EU | INS-410-150/EU | RVFT10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E2350HS | Disposable HS Smoke Evac Pencil | | | | | | X | | X | | | X | | | X | | | | | | |
| E2450HS | Disposable HS Smoke Evac Pencil | | | | | | X | | X | | | X | | | X | | | | | | |
| E2515HS | Disposable HS Smoke Evac Pencil | | | | | | X | | X | | | X | | | X | | | | | | |
| E2516HS | Disposable HS Smoke Evac Pencil | | | | | | X | | X | | | X | | | X | | | | | | |
| E3590 | Smoke Evacuation Attachment | | | Fits on every Valleylab™ hand switching pencil | | | | | | | | | | | | | | | | | |
| E3595 | Accuvac Smoke Evac Extension | X | X | X | X | | | | | | | | | | | | | | | | |
| SE3695 | RapidVac™ Smoke Evacuator | | | | | | | | X | X | X | | | | | | | | | | |
| SEA3700 | Filter for RapidVac™ Smoke Evacuator SE3695 X | X | X | X | X | | | X | | | | X | X | X | X | | | | X | X | |
| SEA3730 | RapidVac™ Interlink Cable | | | | | | | X | | | | | | | | | | | | | |
| SEA3745 | RapidVac™ Footswitch | | | | | | | X | | | | | | | | | | | | | |
| SEA3705 | Tubing | X | X | X | X | X | | | X | | | | | | | | | | | | |
| SEA3710 | Tubing | X | X | X | X | | | | X | | | | | | | | | | | | |
| SEA3715 | Tubing | X | X | X | X | | | | X | | | | | | | X | | | | | |
| SEA3720 | Laparoscopic Tubing | X | X | X | X | X | | | X | | | | | | | | | | | | |
| SEA3725 | Filter Saver with 2 Inlets of 10 mm | X | X | X | X | X | | | X | | | | | | | | | | | | |

# EleVision™ HD1 System

## CAMERAS

**95-3901** 1 EACH

**Native full HD camera head**

1 chip CMOS with parfocal zoom, f = 14.25–28 mm, hydrogen peroxide gas plasma sterilization compatible.

**95-3930** 1 EACH

**Native full HD camera control unit**

With selective color enhancement, smoke reduction, and image capture.

## ACCESSORIES

**PS00510** 1 EACH

**USB keyboard German layout**

**PS00511** 1 EACH

**USB keyboard English layout**

**6226-ACAABZZZ-002** 1 EACH

**Footswitch**

## LAPAROSCOPES

**11.0055A** 1 EACH

**5.0 mm HD laparoscope, 312 mm, 0° Wide angle**

**11.0057A** 1 EACH

**5.0 mm HD laparoscope, 312 mm, 30° Wide angle**

**11.0031A** 1 EACH

**10.0 mm HD laparoscope, 344 mm, 0° Wide angle**

**11.0043A** 1 EACH

**10.0 mm HD laparoscope, 344 mm, 30° Wide angle**

**11.0041A** 1 EACH

**10.0 mm HD laparoscope, 344 mm, 45° Wide angle**

## LIGHT SOURCES AND LIGHT GUIDES

**05.0740LED** 1 EACH

**LED light source**

**05.0090L** 1 EACH

**4.8 × 2300 mm, light guide for LED light source**

**05.0087L** 1 EACH

**4.8 × 3000 mm, light guide for LED light source**

**05.0088l.ht** 1 EACH

**3.5 × 2300 mm, light guide recommended for Xenon™* light sources > 300**

**05.0090l.ht** 1 EACH

**4.8 × 2300 mm, light guide recommended for Xenon™* light sources**

**05.0085L.ht** 1 EACH

**3.5 × 3000 mm, light guide recommended for Xenon™* light sources**

## INSUFFLATOR

**FM134** 1 EACH

**Multi-mode insufflator (maximum 50 L/min)**

**Z0293** 1 BOX = 10 PCS.

**Disposable insufflation tubing with integrated filter**

**Z0280†** 1 EACH

**Reusable gas heating insufflation tubing, 100 uses**

**Z0260** 1 BOX = 10 PCS.

**Disposable gas heating insufflation tubing with integrated filter**

**Z5044-01** 1 EACH

**Hose for $CO_2$ gas bottle DIN:US, 1.5 m**

**Z5045-01** 1 EACH

**Hose for $CO_2$ gas bottle ISO:US, 1.5 m**

**Z0499-01** 1 EACH

**Hose for $CO_2$ gas bottle PIN:US, 1.5 m**

**Z5100-01** 1 EACH

**Hose for $CO_2$ central gas US:DIN, 3 m**

**Z5101-01** 1 EACH

**Hose for $CO_2$ central gas US:DIN, 5 m**

**Z5102-01** 1 EACH

**Hose for $CO_2$ central gas US:NF, 3 m**

**Z5103-01** 1 EACH

**Hose for $CO_2$ central gas US:NF, 5 m**

**Z5104-01** 1 EACH

**Hose for $CO_2$ central gas US:UNI, 3 m**

**Z5105-01**

**Hose for $CO_2$ central gas US:UNI, 5 m**

**Z5106-01** 1 EACH

**Hose for $CO_2$ central gas US:AGA, 3 m**

| | |
|---|---|
| **Z5107-01** | 1 EACH |

**Hose for $CO_2$ central gas US:AGA, 5 m**

| | |
|---|---|
| **Z5108-01** | 1 EACH |

**Hose for $CO_2$ central gas DISS:DISS, 3.0 m**

| | |
|---|---|
| **Z5074-01** | 1 EACH |

**NIST adapter for universal gas connection**

| | |
|---|---|
| **Z5075-01** | 1 EACH |

**DISS adapter for universal gas connection**

| | |
|---|---|
| **Z5072-01** | 1 EACH |

**Sinter filter for universal gas connection**

| | |
|---|---|
| **Z5048-01** | 1 EACH |

**Hose for CO2 central gas DISS:DISS, 1 m**

| | |
|---|---|
| **5073-01** | 1 EACH |

**US adapter for universal gas connection**

| | |
|---|---|
| **Z5077-01** | 1 EACH |

**CO2 gas connector, angled**

*† Not available for sale in the United States.*

## LAPAROSCOPIC SUCTION IRRIGATION PUMP†

| | |
|---|---|
| **PP120** | 1 EACH |

**Laparoscopic suction irrigation pump with RFID**

| | |
|---|---|
| **T0502-01** | 1 BOX = 10 PCS. |

**Tube set outflow, disposable**

| | |
|---|---|
| **T0504-01** | 1 BOX = 10 PCS. |

**Tube set, vacuum, disposable**

| | |
|---|---|
| **T0505-01** | 1 BOX = 10 PCS. |

**Tube set for irrigation, disposable**

| | |
|---|---|
| **T0506-01** | 1 EACH |

**Tube set for irrigation, reusable, 20 uses**

*† Not available for sale in the United States and Canada.*

## MONITORS

| | |
|---|---|
| **MLW-2623C-DC** | 1 EACH |

**Full HD 26-inch monitor**

| | |
|---|---|
| **MLW-3225C FULL** | 1 EACH |

**HD 32-inch monitor**

## TOWERS

| | |
|---|---|
| **KU-5483-902** | 1 EACH |

**Monitor cart**

| | |
|---|---|
| **KU-5167-902** | 1 EACH |

**Cart for two monitors**

| | |
|---|---|
| **KU-7211-902** | 1 EACH |

**Cart for 32-inch monitors (up to 19 kg)**

# EleVision™ IR Platform

## ENDOSCOPES

**153-0052** 1 EACH

**VS3 iridium endoscope 5 mm long, 30° standard FOV†**

**153-0053** 1 EACH

**VS3 iridium endoscope 5 mm long, 0° standard FOV†**

**153-0072** 1 EACH

**VS3 iridium endoscope 10 mm long, 30° standard FOV†**

**153-0073** 1 EACH

**VS3 iridium endoscope 10 mm long, 0° standard FOV†**

*† Field of view. 12 EleVision™ HD 1 System*

## MICROSCOPE

**174-0012** 1 EACH

**Fluorescence miniature microscope (MMS-IR)**

## CAMERA

**174-0051** 1 EACH

**VS3 iridium fluorescence camera (Camera-IR)**

## CAMERA CONTROL UNIT†

**443-0001** 1 EACH

**VS3 iridium camera control unit with iridium software license**

*† Only available as spare part for the VS3 Iridium system.*

# EleVision™ IR Platform

## LIGHT SOURCES AND LIGHT CABLES†

**460-0011** 1 EACH

**VS3 iridium laser light source**

**560-6453** 1 EACH

**VS3 Xenon™* light source**

**161-0001** 1 EACH

**VS3 iridium light beam combiner**

**560-6462** 1 EACH

**VS3 light cable**

*† Only available as spare part for the VS3 Iridium system.*

## MONITOR

**550-5065** 1 EACH

**27-inch 2DHD touch monitor**

*†Only available as spare part for the VS3 Iridium system.*

## DRAPES

**115-0012** 10 EACH

**Iridium MMS drapes†**

*† Distributed by third party vendor.*
*‡ Only available for sale in the United States.*

## ACCESSORIES†

**519-1341** 1 EACH

**VS3 rolling cart 230V**

**115-0051** 1 EACH

**VS3 iridium camera holding arm**

**519-1709** 1 EACH

**Twin gas bottle holder**

**560-6478** 1 EACH

**Replacement Xenon™* bulb**

*† Only available as spare part for the VS3 Iridium system.*

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## NOTES

**PORTFOLIO.**
MORE ENERGY.
MORE PLACES.

**PERFORMANCE.**
OUR PRODUCTS
ARE DESIGNED
TO DELIVER
PERFORMANCE.

**VALUE.**
YOU DEMAND
VALUE.
SO DO WE.

1. Based on internal test report #R0042752 rev A, Marketing evaluation of surgeon experience using the Sonicision™ curved jaw cordless ultrasonic dissector. Feb.13–17, Feb. 28, March 3, May 16, 2017.

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IMPORTANT: Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

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COVIDIEN ENERGY.
*Performance Amplified.*

# Valleylab™ FT10 Energy Platform

## Specification Guide

### TISSUEFECT™ TECHNOLOGY

Accommodate various tissue types consistently and respond to the changes in tissue as the device seals. This is TissueFect™ technology that responds at 430,000X per second.

### FAST SEALING

1-4 second seal time*[1]

### INTUITIVE CONTROL PANEL

Four-quadrant touch screen with enhanced ease of use for quick settings of surgeon preferences and easy to understand error alerts.

### SMART™ CONNECTORS

Recognizes which type of instrument is being used and automatically configures energy output for quick, consistent results, regardless of Electrosurgery product.

### LIGASURE™ TECHNOLOGY

Improved, and enhanced LigaSure™ vessel sealing performance with

- Faster vessel sealing than ForceTriad™ energy platform[2]
- Minimizes lateral thermal spread to surrounding tissue[3]
- Intuitive use[4]

**Valleylab™ FT10 energy platform** — our next generation advanced energy platform with improved LigaSure™ vessel sealing technology and expanded electrosurgical features.

Be the first to see how over **2 million devices** sold annually will see performance enhancements.

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# Valleylab™ FT10 Energy Platform

## Technical Specifications

### General

| | |
|---|---|
| Output configuration | Isolated output |
| Cooling | Natural convection and fan |
| Display | 7 in. LCD touchscreen |
| Connector ports | LED illuminated Smart™ connector readerse on the LigaSure™/Bipolar receptacle |
| Enclosure | Magnesium |
| Mounting | • Valleylab™ Universal Generator Cart (VLFTCRT)<br>• Operating-room boom systems<br>• Any stable, flat surface such as a table or cart top |

### Dimensions and Weight

| | |
|---|---|
| Height | 6.7 in. (17.0 cm) |
| Width | 14.5 in. (35.8 cm) |
| Length | 18.2 in. (46.2 cm) |
| Weight | 22.3 lb. (10.1 kg) |

### Operating Parameters

| | |
|---|---|
| Ambient temperature range | 50 to 104 °F (10 to 40 °C) |
| Relative humidity | 30% to 75% non-condensing |
| Atmospheric pressure | 700 to 1060 millibars |

### Transport and Storage

| | |
|---|---|
| Ambient temperature range | 14 to 149 °F (-10 to +65 °C) |
| Relative humidity | 25% to 85% non-condensing |
| Atmospheric pressure | 500 to 1060 millibars |

### Duty Cycle

The Valleylab™ FT10 energy platform is capable of operating a duty cycle of 25%, defined as 10 seconds active and 30 seconds inactive, in any mode for a period of 4 hours.

### Internal Memory

| | |
|---|---|
| Real-time clock battery | Battery type - Lithium CR1620; Battery capacity - 75 mAh |
| Storage capacity | 4 GB |

### Audio Tones

| Activation Tones | Tone | Duration | Volume |
|---|---|---|---|
| CUT | 660 Hz ± 5% | Entire Activation Duration | User adjustable from 45 dBA to 65 dBA (-0/+6 dBA @ 1 m) |
| COAG | 940 Hz ± 5% | Entire Activation Duration | User adjustable from 45 dBA to 65 dBA (-0/+6 dBA @ 1 m) |
| VALLEYLAB | 800 Hz ± 5% | Entire Activation Duration | User adjustable from 45 dBA to 65 dBA (-0/+6 dBA @ 1 m) |
| BIPOLAR | 940 Hz ± 5% | Entire Activation Duration | User adjustable from 45 dBA to 65 dBA (-0/+6 dBA @ 1 m) |
| LIGASURE | 440 Hz ± 5% | Entire Activation Duration | User adjustable from 45 dBA to 65 dBA (-0/+6 dBA @ 1 m) |

## Radio Frequency Identification (RFID)

| | |
|---|---|
| Frequency Range | 13.56 MHz |
| RF Output Power | 68.17 dBuV/m @ 3 meters |
| Type of Antenna | Integral Loop Antenna |
| Modulation | Amplitude-shift Keying (ASK) |
| Mode of Operation (Simplex/Duplex) | Duplex |
| Contains Transmitter Module FCC ID | 2AAVI-JDK1901 |
| Contains IC ID | 11355A-JDK1901 |

## Wireless Fidelity (WiFi)

| | |
|---|---|
| Transmit/Receive Frequency Range | 2.4000 ~ 2.4835 GHz (Industrial Scientific Medical Band) |
| Standards | IEEE 802.11b, 802.11g, 802.11n |
| RF Output Power | 11b: 17 ± 1.5 dBm<br>11g: 15 ± 1.5 dBm<br>11n: 14 ± 1.5 dBm |
| Data Rate | 11b: 1/2/5.5/11 Mbps<br>11g: 6/9/12/24/36/48/54 Mbps<br>11n: (20 MHz): MCSO-7 (Up to 72 Mbps)<br>11n: (40 MHz): MCSO-7 (Up to 150 Mbps) |
| Securities | WEP 64/128, WPA, WPA2, and IEEE 802.1x |
| Type of Antenna | Internal Antenna (1T1R) |
| Contains Module FCC ID | NDD9578111008 |
| Contains IC ID | 4701A-78111306 |

## Leakage

### Leakage Currents and Patient Auxiliary Currents (IEC 60601-1:2012)

| | |
|---|---|
| Touch Current | < 100 µA NC, < 500 µA SFC |
| Earth Leakage Current | < 500 µA NC, < 1000 µA SFC |
| Patient Auxiliary Current (< 1kHz) | < 10 µA NC, < 50 µA SFC |
| Patient Auxiliary Current (> 1kHz) | Scaled with frequency per IEC 60601-1:2012, but does not exceed 10mA NC/SFC |
| Patient Leakage Current | < 10 µA NC, < 50 µA SFC |
| Total Patient Leakage Current | < 50 µA NC, < 100 µA SFC |

*NC – Normal Condition*

*SFC – Single Fault Condition (as defined in IEC 60601-1:2012)*

*Total Patient Leakage Current – Measurement of patient leakage current with all patient outputs connected together*

### High Frequency Leakage (IEC 60601-2-2)

| | |
|---|---|
| Bipolar | < 68.9 mARMS |
| Monopolar measured directly at the ESU terminals | < 100 mARMS |
| LigaSure™/BPR measured directly at the ESU terminals | < 100 mARMS |

## REM Contact Quality Monitoring System

| | |
|---|---|
| Interrogation frequency | 68–75 kHz |
| Interrogation current | < 100 µA RMS |
| Interrogation Voltage | < 12 VRMS |
| Impedance Sense Range | 5 Ω to 135 Ω |
| Impedance Accuracy (RF not activated) | ± 7 Ω |
| Impedance Accuracy (RF Activated) | Greater of ± 14 Ω or 20% |

## Backup Power

The Valleylab™ FT10 energy platform retains all user programmed features, calibration, and statistical data when switched off and unplugged. The Valleylab™ FT10 energy platform operates within specification when switched over to a supplied-line power by hospital backup systems.

## Output Characteristics

| Mode | Rated Load (Ω) | Rated Output Power (W) | Peak Voltage | Current RMS Max | Crest Factor* | Duty Cycle |
|---|---|---|---|---|---|---|
| **Monopolar CUT** | | | | | | |
| PURE | 300 | 300 | 910 | 1.25 | 1.42 | 100% |
| BLEND | 300 | 200 | 1100 | 1 | 2.5 | 50% |
| VALLEYLAB | 300 | 200 | 1549 | 1 | 3.8 | 25% |
| **Monopolar COAG** | | | | | | |
| FULGURATE | 500 | 120 | 3135 | 1 | 5.7 | 6.25% |
| SPRAY | 500 | 120 | 3575 | 1 | 6.5 | 4.76% |
| SOFT | 100 | 120 | 240 | 1.55 | 1.42 | 100% |
| **Bipolar** | | | | | | |
| LOW (1-15 W) | 100 | 15 | 88 | 1 | 1.42 | 100% |
| MEDIUM (16-40 W) | 100 | 40 | 143 | 2 | 1.42 | 100% |
| HIGH (45-95 W) | 100 | 95 | 310 | 2 | 1.42 | 100% |
| **LigaSure™** | | | | | | |
| LIGASURE | 20 | 350 | 163 | 5.5 | 1.42 | N/A |
| **Bipolar Resection** | | | | | | |
| CUT | 500 | 375 | 495 | 2.4 | 1.42 | 100% |
| COAG | 100 | 175 | 212 | 3.2 | 1.42 | 100% |

## Output Waveforms

TissueFect™ Tissue Sensing Technology, an automatic adjustment, controls all modes. As tissue resistance increases from zero, the energy platform outputs constant current followed by constant power followed by constant voltage. The maximum output voltage is controlled to reduce capacitive coupling and video interference and to minimize sparking.

1. Based on Covidien memo: "LigaSure Data Sources for VLFT10 White Papers." September 2015 RE00025819 Rev A
2. Data from product validation testing. Covidien report, "R0064457, LigaSure™ Renal Bench Burst Pressure Evaluation of the Valleylab™ FT10." May 29, 2015
3. Based on Covidien In-vivo GLP Acute report: "Verification – Report – GLP Acute Animal Lab – LigaSure™ Preclinical Evaluation of Valleylab™ FT10." May 19, 2015: RE00005503; Report page 4, Attachment pg. 33-39
4. Based on product validation testing. Covidien report, "Product Validation of Valleylab™ FT10 Surgeon & Nurse Evaluation in Simulated Use." May 26, 2015; RE00005401 Rev A; pg. 11

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5920 Longbow Drive
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80301

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# INTRODUCING THE VALLEYLAB™ FT10 ENERGY PLATFORM

The Valleylab™ energy portfolio offers the most comprehensive suite of energy-based devices in the industry[1] — ranging from a series of trusted electrosurgical tools to advanced vessel-sealing instruments and an energy platform that powers it all.

# TRUSTED PRECISION.
## A HISTORY OF INNOVATION.

Medtronic
Further, Together

# SMART JUST GOT SMARTER

**The Valleylab™ FT10 energy platform not only drives our full portfolio of energy-based devices, it makes them better than ever.[2,3]**

The smart TissueFect™ tissue sensing technology in our Valleylab™ FT10 energy platform improves the speed and maintains consistency of all your hand-held devices by reading tissue composition in real time.[4,5] So you can move through procedures more efficiently, for a better experience.

## Electrosurgical performance is more precise[3]:

Autobipolar has a **faster** activation time[6]

Monopolar performance is **improved**[3]

## LigaSure™ technology is improved with:

Up to **50% faster** sealing times[7]

**Lower** jaw temperatures[8]

## Ordering Information

| | |
|---|---|
| **VLFT10GEN** | **Valleylab™ FT10 Energy Platform** |
| **VLFTCRT** | **Valleylab™ FT10 Cart** |

1. Based on ES and Advanced energy product catalogs compared to Ethicon's current catalog.
2. As compared to the ForceTriad™ energy platform. Based on the Valleylab™ FT10 Service Manual: part number 1079477, REV January 2015.
3. Ex-vivo testing model used to evaluate monopolar performance. Based on Covidien ex-vivo monopolar report: "Verification - report - Ex-vivo Monopolar Procedural Flow Evaluation on the Valleylab™ FT10 Orion." November 2014; R0064443 Rev A.
4. Bench testing model used to evaluate sealing time. Based on Covidien product verification report: "Ex vivo Monopolar Thermal Effect Evaluation on the Valleylab™ FT10 " January - February 2015; RE0064439 Rev A.
5. Based on the Valleylab™ FT10 Service Manual: part number 1079477, REV January 2015.
6. Based on Covidien product verification report: "Autobipolar Evaluation - Valleylab™ FT10"; February 2015; RE0064455.
7. Bench testing model used to evaluate sealing time. Based on Covidien memo: "LigaSure Data Sources for VLFT10 White Papers." September 2015; RE00025819 Rev A.
8. Ex-vivo porcine bench testing model used to evaluate device temperature. Based on Covidien verification report: "LigaSure Thermal Profile Valleylab FT10).

**IMPORTANT:** Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

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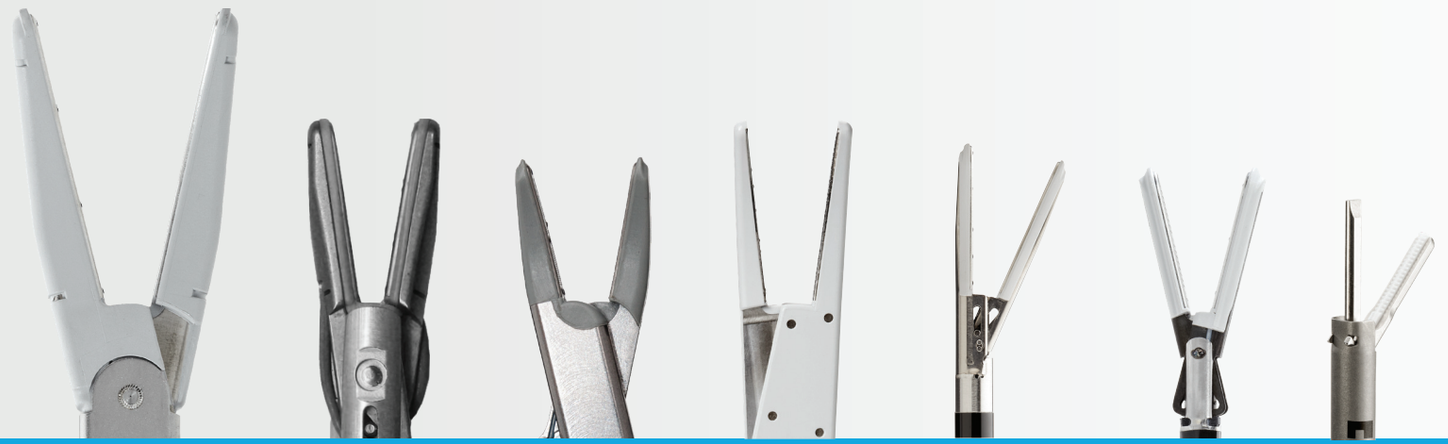
# VESSEL SEALING **DEVICE COMPARISON**

## Open Devices
MEDTRONIC



| NAME | LigaSure Impact™ Curved, Large Jaw, Sealer/Divider Nano-Coated | LigaSure Atlas™ Tissue Fusion, Sealer/Divider | LigaSure™ Small Jaw, Sealer/Divider | LigaSure™ Exact Dissector, Sealer/Divider | LigaSure™ Maryland Jaw Sealer/Divider Nano-Coated | LigaSure™ Blunt Tip Sealer/Divider Nano-Coated | Sonicision™ Cordless Ultrasonic Dissector |
|---|---|---|---|---|---|---|---|
| PART NO. | LF4418 | LS1020 | LF1212A | LF2019 | LF1923 | LF1823 | SCD13, SCD26 |
| SEAL LENGTH | 36 mm | 22 mm | 17.3 mm | 20.6 mm | 20.3 mm | 18.3 mm | 14.5 mm |
| CUT LENGTH | 34 mm | 20 mm | 15.2 mm | 19.8 mm | 18.5 mm | 16.8 mm | 14.5 mm |
| JAW PROFILE | | | | | | | |

## Open Devices
COMPETITIVE

| NAME | Caiman™* 12 | Enseal™* G2 Super Jaw | Enseal™* X1 | Harmonic Focus™*, Focus™* +, Focus™* Long Shears (ultrasonic) |
|---|---|---|---|---|
| PART NO. | | | | |
| SEAL LENGTH | 50 mm | 40 mm | 38 mm | 16 mm |
| CUT LENGTH | 47 mm | 37 mm | 30 mm | 16 mm |
| JAW PROFILE | | | | |

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# VESSEL SEALING **DEVICE COMPARISON**

## Laparoscopic Devices

MEDTRONIC

| NAME | LigaSure™ Retractable L-Hook Sealer/Divider | Maryland Jaw Sealer/Divider Nano-Coated | Blunt Tip Sealer/Divider Nano-Coated | LigaSure Atlas™ Tissue Fusion, Sealer/Divider | Cordless Ultrasonic Dissector |
|---|---|---|---|---|---|
| PART NO. | LF5637, LF5644 | LF1937, LF1944 | LF1837, LF1844 | LS1037 | SCD396, SCD48 |
| SEAL LENGTH | 20 mm | 20.3 mm | 18.3 mm | 22 mm | 14.5 mm |
| CUT LENGTH | 18.5 mm | 18.5 mm | 16.8 mm | 20 mm | 14.5 mm |
| JAW PROFILE | | | | | |

Product images not actual size

Resources:
Medtronic product measurements taken from: medtronic.com/covidien.
Caiman™* measurements taken from: http://www.caimansurgery.com/default.aspx?pageid=3247
Harmonic™* Focus measurements taken from: http://www.accessdata.fda.gov/cdrh_docs/pdf10/K100597.pdf
Enseal™* G2 Super Jaw measurements taken from:
http://gb.ethicon.com/sites/default/files/EES_ENSEAL_G2SuperJawTissueSealer_ComparativeSummary_BR544.pdf
Medtronic device measurements based on internal report #R0050236_A.
Enseal™* X1 Large Jaw measurements taken from http://www.ethicon.com/sites/default/files/managed-documents/061968-161020_enseal_x1_productsellsheet_120916_v17.pdf, as well as internal data for the seal length measurements. Data on file.

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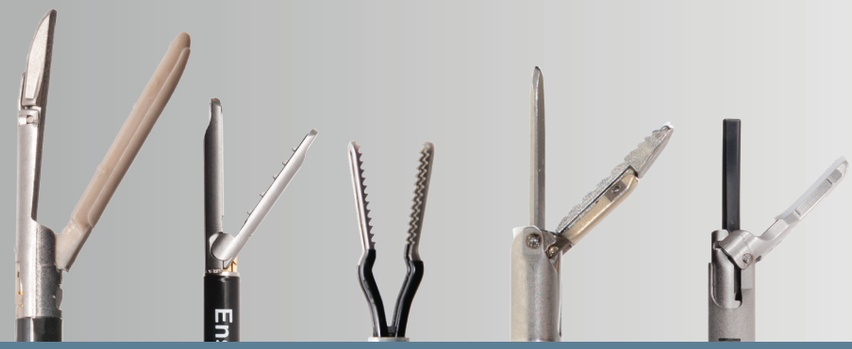
## Laparoscopic Devices

COMPETITIVE



| NAME | Caiman™* 5 | Enseal™* G2 Lap | Gyrus™* PKS 5 mm | Thunderbeat™* (ultrasonic) | Harmonic™* Ace+ (ultrasonic) |
|---|---|---|---|---|---|
| PART NO. | | | | | |
| SEAL LENGTH | 26 mm | 15.69 mm | 13.7 mm | 19.24 mm | 13.52 mm |
| CUT LENGTH | 23.5 mm | 14.65 mm | 11.8 mm | 19.24 mm | 13.52 mm |
| JAW PROFILE | | | | | |

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# THE STANDARD IN VESSEL SEALING.

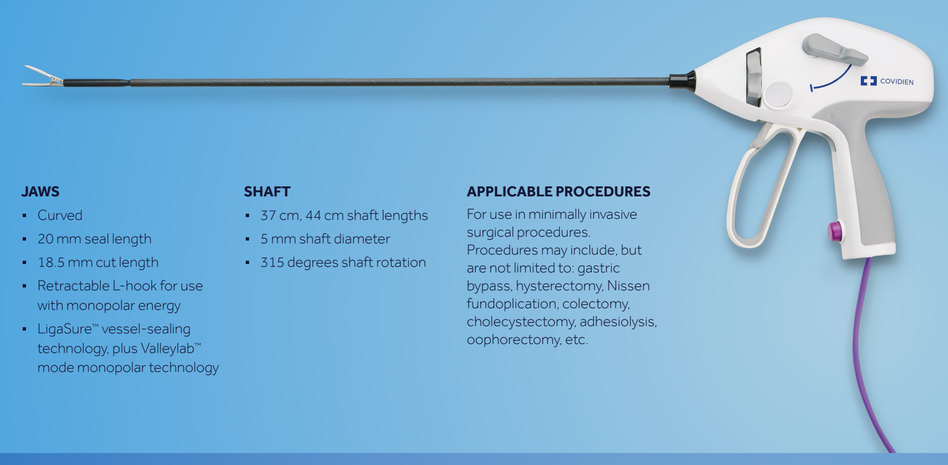
LigaSure™ technology seals:

- Vessels up to and including 7 mm
- Lymphatics
- Tissue bundles

Plus, it seals vessels fast — in 1 to 4 seconds[1] in most surgical situations when used with the Valleylab™ FT10 energy platform.

## LigaSure™ Retractable L-Hook Instrument

**LF5637, LF5644**
Hand activated



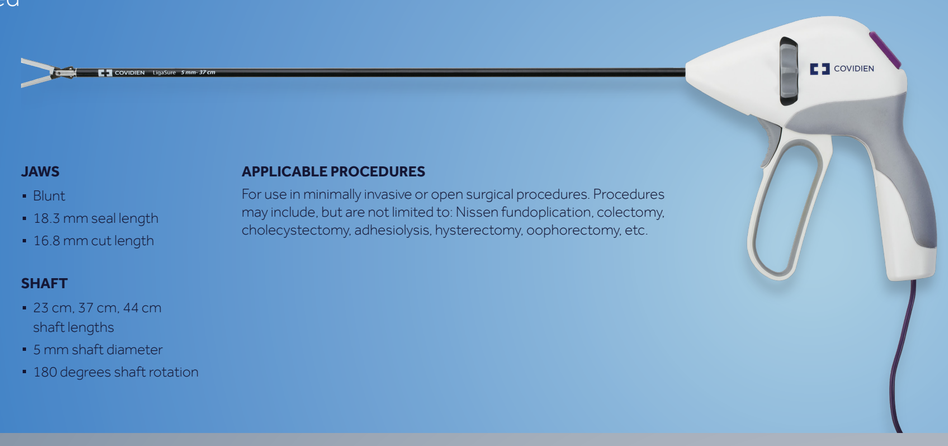
**JAWS**
- Curved
- 20 mm seal length
- 18.5 mm cut length
- Retractable L-hook for use with monopolar energy
- LigaSure™ vessel-sealing technology, plus Valleylab™ mode monopolar technology

**SHAFT**
- 37 cm, 44 cm shaft lengths
- 5 mm shaft diameter
- 315 degrees shaft rotation

**APPLICABLE PROCEDURES**
For use in minimally invasive surgical procedures. Procedures may include, but are not limited to: gastric bypass, hysterectomy, Nissen fundoplication, colectomy, cholecystectomy, adhesiolysis, oophorectomy, etc.

## LigaSure™ 5 mm Blunt Tip Instrument
with Nano-Coating

**LF1823, LF1837, LF1844**
Hand and foot activated



**JAWS**
- Blunt
- 18.3 mm seal length
- 16.8 mm cut length

**SHAFT**
- 23 cm, 37 cm, 44 cm shaft lengths
- 5 mm shaft diameter
- 180 degrees shaft rotation

**APPLICABLE PROCEDURES**
For use in minimally invasive or open surgical procedures. Procedures may include, but are not limited to: Nissen fundoplication, colectomy, cholecystectomy, adhesiolysis, hysterectomy, oophorectomy, etc.

## LigaSure™ Exact Dissector
with Nano-Coating

**LF2019**
Hand and foot activated

**JAWS**
- Curved
- 20.6 mm seal length
- 19.8 mm cut length

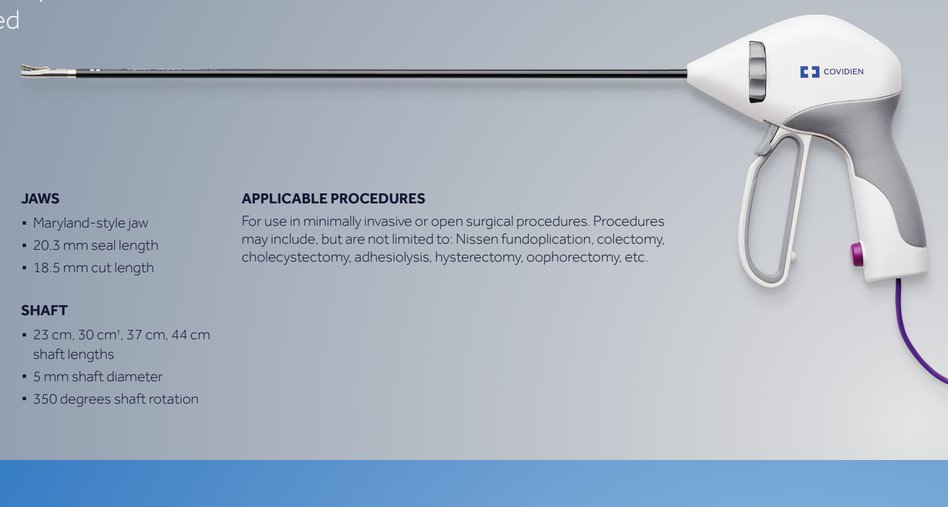
**LENGTH**
18.0 cm

**APPLICABLE PROCEDURES**
For use in open surgical procedures. Procedures may include, but are not limited to, bowel resections, gall bladder procedures, Nissen fundoplication, and adhesiolysis.

This instrument is also indicated for open ENT procedures in adults (thyroidectomy, radical neck dissection, parotidectomy, and tonsillectomy) for ligation and division of vessels, lymphatics and tissue bundles 2–3 mm away from unintended thermally-sensitive structures such as nerves and parathyroid glands.

## LigaSure™ Maryland Jaw Instrument
with Nano-Coating

**LF1923, LF1937, LF1944, LF1930T†**
Hand and foot activated



**JAWS**
- Maryland-style jaw
- 20.3 mm seal length
- 18.5 mm cut length

**SHAFT**
- 23 cm, 30 cm[1], 37 cm, 44 cm shaft lengths
- 5 mm shaft diameter
- 350 degrees shaft rotation

**APPLICABLE PROCEDURES**
For use in minimally invasive or open surgical procedures. Procedures may include, but are not limited to: Nissen fundoplication, colectomy, cholecystectomy, adhesiolysis, hysterectomy, oophorectomy, etc.

## LigaSure™ Small Jaw Instrument

**LF1212A**
Hand and foot activated

**JAWS**
- Curved
- 17.3 mm seal length
- 15.2 mm cut length

**LENGTH**
18.8 cm

**APPLICABLE PROCEDURES**
For use in open surgical procedures. Procedures may include, but are not limited to: bowel resections, gall bladder procedures, Nissen fundoplication, and adhesiolysis.

The device is also indicated for open ENT procedures in adults (thyroidectomy, radical neck dissection, parotidectomy, and tonsillectomy) for ligation and division of vessels, lymphatics and tissue bundles 2–3 mm away from unintended thermally-sensitive structures such as nerves and parathyroid glands.

## LigaSure Atlas™ Instrument

**LS1020, LS1037**
Hand and foot activated

**JAWS**
- Straight
- 22 mm seal length
- 20 mm cut length

**SHAFT**
- 20 cm, 37 cm shaft lengths
- 10 mm shaft diameter
- < 359 degrees shaft rotation

**APPLICABLE PROCEDURES**
For use in general (including urologic, thoracic, plastic, and reconstructive), laparoscopic, and gynecologic surgical procedures. Procedures may include, but are not limited to: bowel resections, hysterectomies (vaginal and abdominal), laparoscopic cholecystectomies, laparoscopically assisted vaginal hysterectomies, gall bladder procedures, Nissen fundoplication, adhesiolysis, oophorectomy, etc.

## LigaSure Impact™ Instrument
with Nano-Coating

**LF4418**
Hand and foot activated

**JAWS**
- Curved
- 36 mm seal length
- 34 mm cut length

**SHAFT**
- 18 cm shaft length
- 12.6 mm x 7.6 mm shaft dimensions
- 180 degrees shaft rotation

**APPLICABLE PROCEDURES**
For use in open surgical procedures. Procedures may include, but are not limited to: Nissen fundoplication, colectomy, cholecystectomy, adhesiolysis, hysterectomy, oophorectomy, etc.

## Ordering Information

| Catalog Number | Description | Quantity |
|---|---|---|
| LF5637 (37 cm)<br>LF5644 (44 cm) | LigaSure™ Retractable L-Hook Instruments | 6/case |
| LF1823 (23 cm)<br>LF1837 (37 cm)<br>LF1844 (44 cm) | LigaSure™ 5 mm Blunt Tip Instruments with Nano-Coating | 6/case |
| LF1923 (23 cm)<br>LF1937 (37 cm)<br>LF1944 (44 cm) | LigaSure™ Maryland Jaw Instruments with Nano-Coating | 6/case |
| LF1930T (30 cm) | LigaSure™ Maryland Jaw Thoracic Instrument with Nano-Coating | 6/case |
| LS1020 (20 cm)<br>LS1037 (37 cm) | LigaSure Atlas™ Instruments | 6/case |
| LF2019 | LigaSure™ Exact Dissector with Nano-Coating | 6/case |
| LF4418 | LigaSure Impact™ Instrument with Nano-Coating | 6/case |
| LF1212A | LigaSure™ Small Jaw Instrument | 6/case |

## LigaSure™ technology has been used in more than 19 million procedures worldwide[2]

**All products listed are compatible with the Valleylab™ FT10 energy platform.**

†The 30 cm shaft length is only available for the LigaSure™ Maryland jaw thoracic sealer/divider (product code: LF1930T). The LigaSure™ Maryland jaw thoracic sealer/divider can be used on vessels (arteries, veins, **pulmonary arteries, pulmonary veins**) up to and including 7 mm. It is indicated for use in general surgery and such surgical specialties urologic, vascular, thoracic, and gynecologic.

1. Based on internal report #RE00025819 Rev A, LigaSure™ data sources for Valleylab™ FT10 white papers. Bench testing model used to evaluate sealing time. September 2015.
2. Based on internal report #US161132(1), Sales data from FY01-FY17. July 2017.

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