



**Medicatech VET®**  
A Medicatech Company

## ES-120VL Electrosurgical system

### ES-120VL – New Generation Energy Platform for Veterinary Use

Capable of performing most monopolar and bipolar surgical procedures with dependable safety features.

Advanced pulse closure technology and intelligent tissue sensing technology. Capable of reading tissue composition in real-time, effectively provides coagulation and transection of blood vessels with a diameter up to 7mm, and intelligently assesses closure results, bringing a whole new level of surgical satisfaction!

Features: 3 Monopolar Cut, Pure Cut, Blend 1, Blend 2, 1 Bipolar Output, Vessel Sealing,

COM Control Contact Quality Monitoring system

Electrosurgical Pens and Foot Switch control

Recently Mode

Power and other parameters

Quick adjustment of power and volume

Cut and coagulate intermittently.





## Main Features

- **3 Modes of Monopolar Cutting**
- **Pure Cut:** Provides clean and precise cutting of tissue.
- **Blend 1:** Used when a slightly slower cutting speed and minimal hemostasis are required (70% cutting, 30% coagulation).
- **Blend 2:** Used when a slower cutting speed and enhanced hemostasis are needed (50% cutting, 50% coagulation).
- **2 Modes of Monopolar Coagulation**
- **Spray Coagulation:** Non-contact, efficient surface coagulation with shallow penetration. Tissue is removed through evaporation, typically using a knife or ball electrode for coagulation. Minimal tissue damage depth.
- **Forced Coagulation:** Non-contact coagulation with a lower peak output voltage than spray coagulation. Suitable for small-area coagulation. Provides moderate thermal penetration with rapid and effective standard coagulation, resulting in minimal carbonization.
- **Vessel Sealing**
- Capable of sealing blood vessels with a diameter of up to 7mm.
- Simplifies the process by sealing vessels within tissue without excessive dissection.
- Allows for the closure of vessels and tissue bundles without the need for detailed dissection or separation, ensuring ease of operation.











## Product Specifications

Mode	Max Output Power(W)	Load Impedance( $\Omega$ )	Modulation Frequency (KHz)	Max Output Voltage (V)	Crest Factor
<b>Cut</b>					
Pure Cut	120	500		1300	1.8
Blend 1	100	500	20	1400	2.0
Blend 2	100	500	20	1300	2.0
<b>Coag</b>					
Spray	90	500	12-24	4800	6.3
Forced	60	500	25	4800	6.2
Vessel Sealing		50	20	700	1.9

## Ordering Information

Model		Description
ES-120VL		Electrosurgical Unit
SJR-FS-M01		Monopolar Foot-Switch
CPW07C		Hand-Switch Pencil, Disposable
SJR-NE-02		Patient return electrode with cable, Reusable
SJR-NE-R01		Patient Return Electrode Rods (10mm) With Cable, Reusable
VS1937N		Maryland Jaw Open and Laparoscopic Sealer, 5mm-37cm



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## ES-150V Pro Electrosurgical system with LCD

### **ES-150V Pro LCD touch screen Electrosurgical System with vessel sealing function for Veterinarians**



Featuring a full glass panel design, equipped with a colorful touch-screen interface and integrated melody sound effects, the device is compact, portable, easy to operate, and intelligently designed. Suitable for both laparoscopic and open surgeries, it can seal blood vessels up to 7mm in diameter while intelligently assessing the sealing effect, bringing a new level of experience and convenience to surgical procedures!

#### **MAIN FEATURES :**

Color Touch control screen

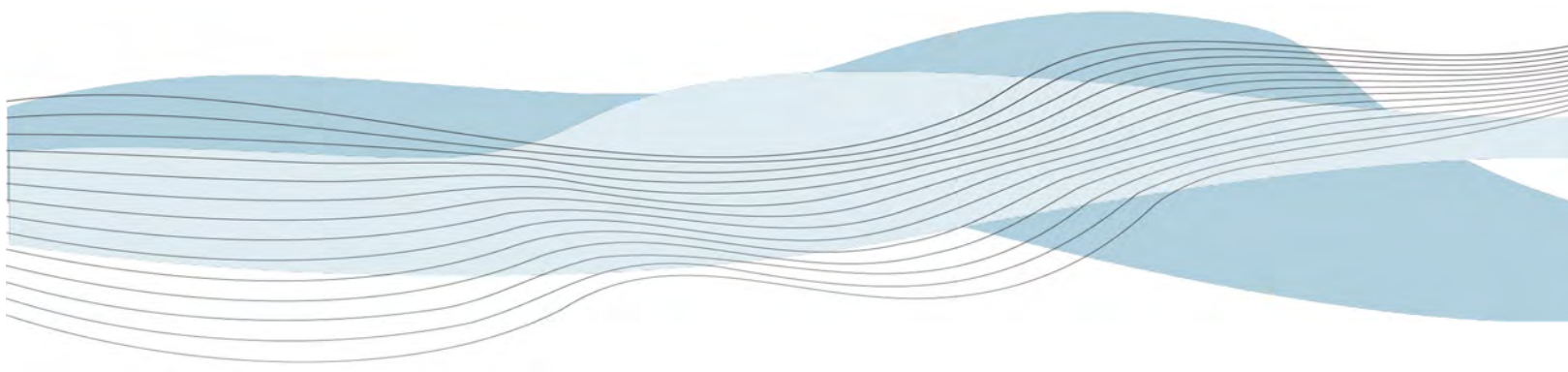
7 Working modes(5 monopolar and 2 bipolar working modes)

Large blood vessel sealing function

Electrosurgical pens and foot switch control

Quick adjustment of power

Cut and Coagulate in an Intermittent mode







## Main Features

### 3 Cutting Modes

**Pure Cut:** Provides clean and precise cutting of tissue.

**Blend 1:** Used when a slightly slower cutting speed and minimal hemostasis are required (70% cutting, 30% coagulation).

**Blend 2:** Used when a slightly slower cutting speed with enhanced hemostasis is needed (50% cutting, 50% coagulation).

### 2 Coagulation Modes

**Spray Coagulation:** Non-contact, efficient surface coagulation with shallow penetration depth. Tissue is removed through evaporation, typically using a knife-shaped or ball-shaped electrode. This method minimizes tissue damage depth.

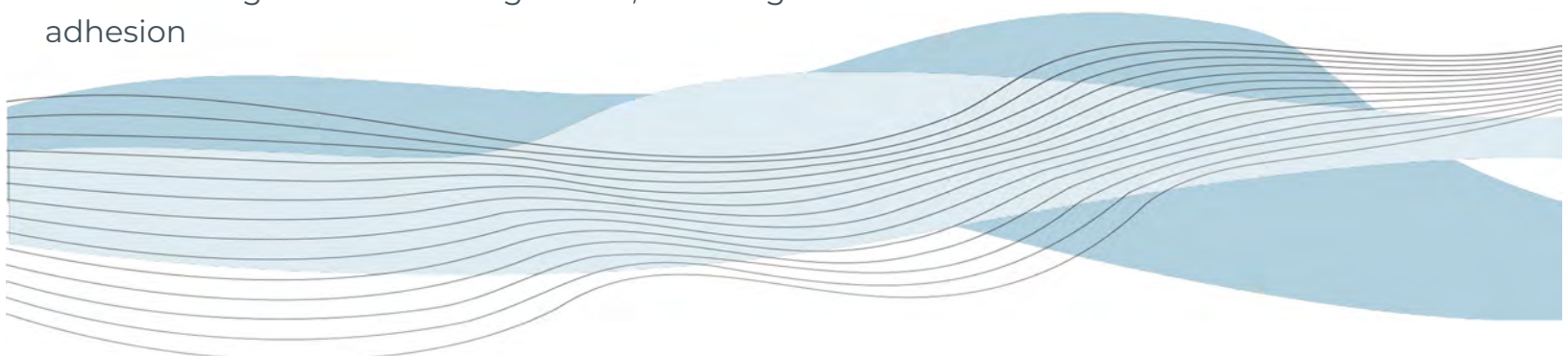
**Forced Coagulation:** Non-contact coagulation with lower peak output voltage compared to spray coagulation. Suitable for small areas of coagulation, providing moderate thermal penetration and rapid, effective standard coagulation with minimal carbonization effects.

### Vessel Sealing Mode

**Vessel Sealing:** Capable of sealing blood vessels up to 7mm in diameter without extensive dissection. Blood vessels and tissue bundles can be sealed without the need for anatomical separation, offering a simple and efficient operation.

### Bipolar Mode







**Standard:** Suitable for most bipolar applications. Maintains low voltage to prevent sparking and ensures gentle tissue coagulation, reducing carbonization and adhesion





Mode			Max Output Power(W)	Load Impedance( $\Omega$ )	Modulation Frequency (kHz)	Max Output Voltage (V)	Crest Factor
Monopolar	Cut	Pure Cut	120	500	--	1300	1.8
		Blend 1	100	500	20	1400	2.0
		Blend 2	100	500	20	1300	2.0
	Coag	Spray	90	500	12-24	4800	6.3
		Forced	60	500	25	4800	6.2
Bipolar	Vessel Sealing		--	100	20	700	1.9
	Standard		60	100	20	700	1.9

## Ordering Information

Model		Description
ES-150V Pro		Electrosurgical Unit
SJR-FS-M01		Monopolar Foot-Switch
SJR-FS-B01		Bipolar Foot-Switch
CPW07C		Hand-Switch Pencil, Disposable
38813		Patient Return Electrode Rods (10mm) With Cable, Reusable
VS1937N		Maryland Jaw Open and Laparoscopic Sealer, 5mm-37cm



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