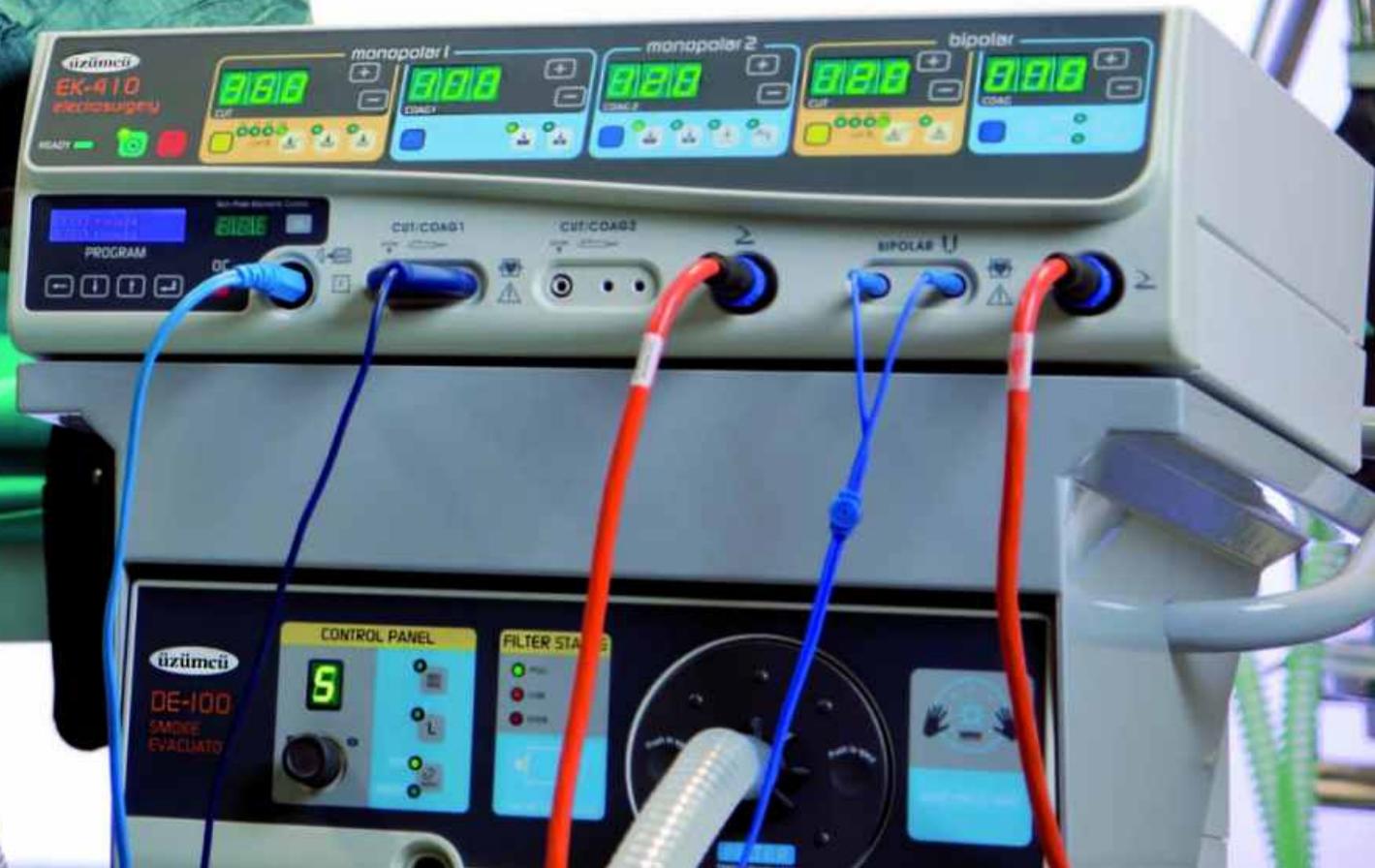
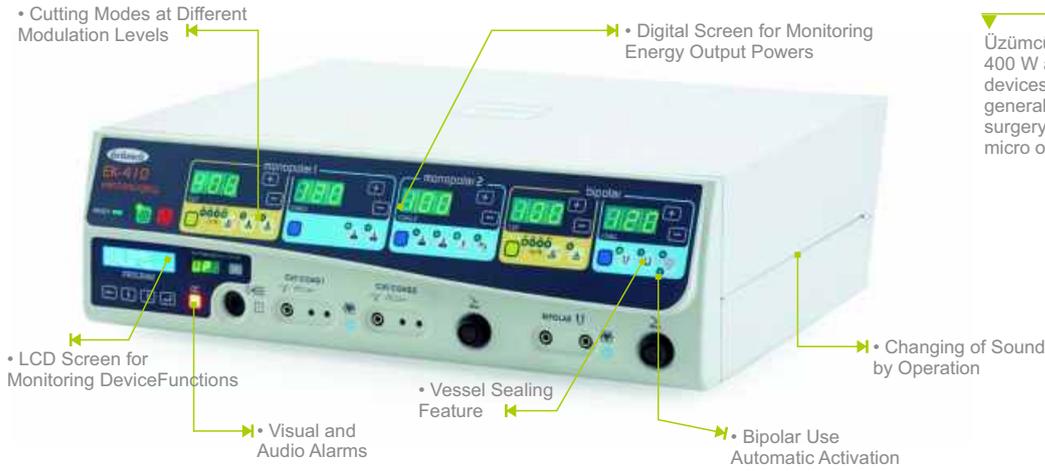


üzümcü

# ELECTROSURGICAL DEVICES



## ELECTROSURGICAL DEVICES EK-410



### < EK-410

Üzümcü EK-410 ve EK-250 electrocautery devices with 400 W and 250 W maximum output power options are devices that can be used in all surgery branches like general surgery, orthopedics, urology, cardiovascular surgery and neurosurgery with high performance and micro operation technology.

### Technical Specifications

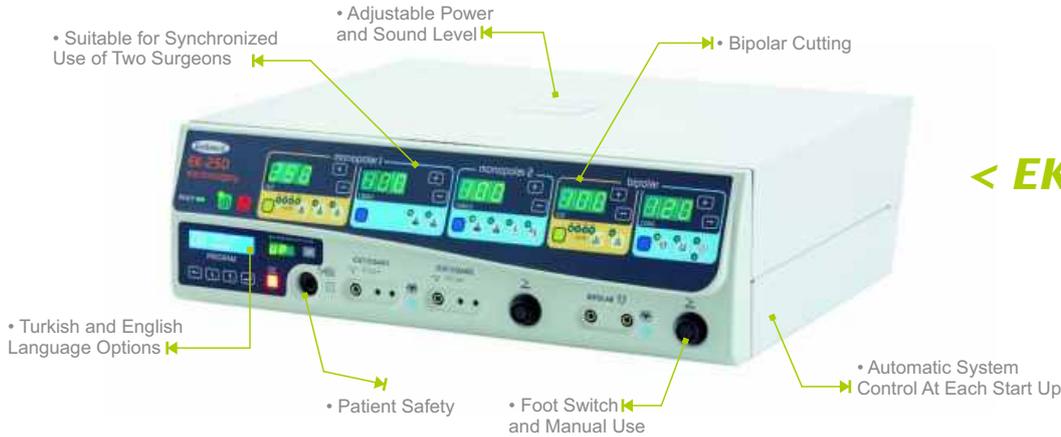
#### Monopolar EK-410

• Maximum Output Power Pure CUT	: 400 W - 300 Ω
• Maximum Output Power Cut-Coag CUT80%	: 300 W - 300 Ω
• Maximum Output Power Cut-Coag CUT60%	: 250 W - 300 Ω
• Maximum Output Power Cut-Coag CUT40%	: 200 W - 300 Ω
• Maximum Output Power Cut ENHANCED	: 250 W - 500 Ω
• Maximum Output Power Cut-coag BLEND	: 250 W - 300 Ω
• Maximum Output Power Coag SPEEDY	: 120 W - 500 Ω
• Maximum Output Power Coag DEEP	: 120 W - 200 Ω
• Maximum Output Power Coag SPRAY	: 100 W - 2000 Ω
• Maximum Output Power Coag SPRAY ARGON	: 100 W - 2000 Ω

#### Bipolar EK-410

• Maximum Output Power CUT	: 120 W - 150 Ω
• Maximum Output Power Cut-Coag CUT80%	: 100 W - 150 Ω
• Maximum Output Power Cut-Coag CUT60%	: 100 W - 150 Ω
• Maximum Output Power Cut-Coag CUT40%	: 60 W - 150 Ω
• Maximum Output Power Cut-Coag BLEND	: 100 W - 150 Ω
• Maximum Output Power Coag COAG	: 120 W - 50 Ω
• Vessel Sealing Feature	: 200 W - 50 Ω
• Working Frequency Monopolar / Bipolar	: 380 kHz / 525 kHz
• Selectable Input Voltage	: 115 - 230 V AC / 50-60 Hz
• Weight	: 18 kg
• Dimensions	: 470 x 380 x 150 mm

## ELECTROSURGICAL DEVICES EK-250



### < EK-250

### Technical Specifications

#### Monopolar EK-250

• Maximum Output Power Pure CUT	: 250 W - 300 Ω
• Maximum Output Power Cut-Coag CUT80%	: 220 W - 300 Ω
• Maximum Output Power Cut-Coag CUT60%	: 200 W - 300 Ω
• Maximum Output Power Cut-Coag CUT40%	: 150 W - 300 Ω
• Maximum Output Power Cut ENHANCED	: 150 W - 500 Ω
• Maximum Output Power Cut-coag BLEND	: 150 W - 300 Ω
• Maximum Output Power Coag SPEEDY	: 100 W - 500 Ω
• Maximum Output Power Coag DEEP	: 100 W - 200 Ω
• Maximum Output Power Coag SPRAY	: 60 W - 2000 Ω
• Maximum Output Power Coag SPRAY ARGON	: 60 W - 2000 Ω

#### Bipolar EK-410 EK-250

• Maximum Output Power CUT	: 120 W - 150 Ω
• Maximum Output Power Cut-Coag CUT80%	: 100 W - 150 Ω
• Maximum Output Power Cut-Coag CUT60%	: 100 W - 150 Ω
• Maximum Output Power Cut-Coag CUT40%	: 60 W - 150 Ω
• Maximum Output Power Cut-Coag BLEND	: 100 W - 150 Ω
• Maximum Output Power Coag COAG	: 120 W - 50 Ω
• Vessel Sealing Feature	: 200 W - 50 Ω
• Working Frequency Monopolar / Bipolar	: 425 kHz / 525 kHz
• Selectable Input Voltage	: 115 - 230 V AC / 50-60 Hz
• Weight	: 18 kg
• Dimensions	: 470 x 380 x 150 mm

## Detailed Specifications



### < Cutting & Coagulation Options

- Can be used in all surgery branches like general surgery, orthopedics, urology, cardiovascular surgery and neurosurgery with 400 and 250 W maximum output power options
- Advanced technology with automatic self-test feature at each start up informs the user about device functions
- Blend cutting modes with pure cutting and at 5 different modulation levels
- Wide, Rapid and non-contact coagulation with spray coagulation mode
- Safe hemostasis by superficial and deep contact coagulation modes



### < Vessel Sealing Function

- Effective and safe sealing process in laparoscopy, open surgery veins and muscles bundles thanks to the vessel sealing function integrated onto cautery device.



### < Failure Record System

- Controlled coagulation by autostart and autostop functions at bipolar mode
- Suitable for synchronized use of two surgeons at monopolar and bipolar modes in multi operations
- Compatibility with foot switch and manual use
- Record system for monitoring failures of device functions or accessories with their codes, recording 99 failures and providing possibility for rapid technical service by monitoring retrospective failures



### < Patient Safety System & Memory

- Contact impedance between patient body and return electrode is continuously watched by Skin Plate Electronic Control (SPEC)
- 50 different usage modes can be stored in the memory by preprogramming method, offering possibility for immediate call.



### < Argon Coagulation

- If Argon coagulation is needed, ÜZÜMCÜ Argon Plasma Coagulation Device can be easily added to the electrosurgical unit in use.
- Auto-detection of argon coagulator equipment
- Automatic communication with EK-410 and EK-250 electrosurgical devices and activation by a single cable connection

## ELECTROSURGICAL DEVICES EK-160



Üzümcü EK-160 Electrosurgical Device is a device designed for minor surgery operations and polyclinic practices with 160 W maximum output power and monopolar and bipolar functions.

### Technical Specifications

- |                                    |                 |                            |                             |
|------------------------------------|-----------------|----------------------------|-----------------------------|
| • Maximum Output Power CUT         | : 160 W - 250 Ω | • Working Frequency        | : 600 kHz                   |
| • Maximum Output Power CUT         | : 120 W - 200 Ω | • Selectable Input Voltage | : 115 - 230 V AC / 50-60 Hz |
| • Maximum Output Power FORCED COAG | : 100 W - 150 Ω | • Weight                   | : 8 kg                      |
| • Maximum Output Power SOFT COAG   | : 80 W - 100 Ω  | • Mains Frequency          | : 50 - 60 Hz                |
| • Maximum Output Power BIPOLAR     | : 60 W - 100 Ω  | • Dimensions (WxLxH)       | : 254x288x104 mm            |

### Cutting & Coagulation Types (EK-410 and EK-250)

<p>60 70 80 100 cut %</p> <p><b>Monopolar Cutting</b> Pure cutting by monopolar handle and blend cutting at 60%, 70%, 80% modulation levels</p>	<p><b>Superficial Blend Cutting</b> Superficial blend cutting in which cutting function is executed with coagulation function</p>	<p><b>Deep Blend Cutting</b> Deep blend cutting in which cutting function is executed with coagulation function</p>
<p><b>Monopolar Superficial Coagulation</b> Superficial coagulation in which electrode contacts with tissue</p>	<p><b>Monopolar Deep Coagulation</b> Deep coagulation in which electrode contacts with tissue</p>	<p><b>Spray Coagulation</b> Spray coagulation in which electrode has no contact with the tissue, micro bleedings are immediately controlled</p>
<p>60 70 80 cut %</p> <p><b>Bipolar Cutting</b> Blend cutting executed by bipolar forceps, pure and at 60 %, 70 %, 80 % modulation levels</p>	<p><b>start stop</b> <b>select</b> <b>Coagulation With Bipolar Automatic Activation</b> Controlled coagulation by automatic start/stop function in bipolar coagulation</p>	<p><b>Argon Coagulation</b> Spray coagulation in which micro bleedings are immediately controlled</p>
	<p><b>Bipolar Coagulation</b></p>	<p><b>Vessel Sealing</b> Vessel sealing function in laparoscopic and open surgeries</p>

## ***ELECTROSURGICAL DEVICES VELA***

### **VELA – WITH SURGICAL SUCTION ELECTROSURGICAL DEVICE**



- Special design extending the usage area of operation theatres by positioning Üzümcü electro-surgical device and surgical suction on an ergonomic, flexible high and stylish stand.
- Easy use by positioning the product groups of electro-surgical device and surgical suction used in electro-surgery nearest and most functional to the surgical area.

### **VELA – WITH SMOKE EVACUATOR ELECTROSURGICAL DEVICE**



- Special design extending the usage area of operation theatres by positioning Üzümcü electro-surgical device and DE-100 smoke evacuator on an ergonomic, flexible high and stylish stand.
- Easy use by positioning the combined electro-surgical device and smoke evacuator set freely nearby the surgery area.



#### **< Surgical Smoke Discharge**

- Contribution to protecting medical personnel's health by evacuating smoke, smell and particles occurred during electro surgery
- Smoke discharge system automatically runs when the electro-surgical device is started by synchronizing electro-surgical device and smoke evacuator by radio frequency technology



#### **< Smoke Evacuator General Specifications**

- Selection feature for low or high vacuum
- Electro-surgical handle mountable smoke discharge hose
- Filter lifetime indicator
- 9-phase suction adjustment
- Smoke evacuator carbon filter
- Optional manual use



#### **< Surgical Area Visibility**

- Increased surgical area visibility by rapid suction of blood and body fluids during surgical operations
- 2 pieces of 2x3 Lt autoclavable collecting jars



#### **< Surgical Suction General Specifications**

- 60 L/Min air flow rate
- 680 mmHg suction
- Overfilling system for preventing overflow and liquid leakage to pump
- Jar switch lever
- Scaled, sterilizable, 3-liter plastic and disposable collecting jars are easily transferred to the cleaning area.

# ARGON PLASMA COAGULATOR EK-55A



Üzümcü EK-55A argon plasma coagulator is a device used with argon-compatible electro-surgical devices, with less surgical smoke and tissue damage for immediate and effective coagulation.



### Technical Specifications

- Flow Regulation : 2,0 – 10 L/min
- Max Inlet Pressure : 3,0 bar
- Input Voltage : 90 – 240 V AC / 50-60 Hz
- Weight : 8 kg
- Dimensions : 470 x 400 x 150 mm

## Standard Accessories Electro-surgical



Disposable Pencil



Reusable Pencil



Electrodes



Bipolar Pen set and Cable



Patient Plate and Cable



Foot Pedal

## Optional Accessories Electro-surgical



Long Electrodes



Electrodes



Bipolar Pensets



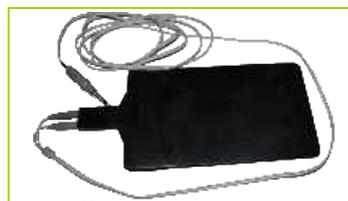
Vessel Sealing Laparoscopic Instruments



Vessel Sealing Open Surgery Instruments



Laparoscopic Cable



Rubber

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