

## Generating Simplicity

HF Generator ESG-150



# SIMPLY SMART ...

## ESG-150 Is User-Friendly and Offers Outstanding Effectiveness

Olympus understands the specific demands of modern electrosurgery, so it knows how important it is to have a safe, dedicated energy source to maintain the precision physicians require in their work.

### ... At the Simple Touch of a Button

A simple, intuitive touch-screen interface means users can easily set up the system to meet their personal needs in just a few steps.

### ... Supports User Level

The user can choose between two user levels: advanced and basic. The advanced level is best for users that want to precisely adjust their HF settings and have maximum control. The basic level is ideal for users that prefer ease of use and the ability to quickly adapt the HF settings required for the procedure.

### ... Offers You Guidance

The smart assistance messaging system provides simple and easily understandable feedback that empowers users to confidently operate and troubleshoot the ESG-150.

### ... Talks Your Language

A choice of 29 display languages means users can understand and operate the system with ease.

### ... Provides Advanced Safety

The power range within the basic user level is limited to a reasonable amount to avoid unintended excessive power output. This results in additional safety for the user and the patient.



40210

### ... Built On Experience

**Fast Spark Monitor** – measures spark intensity during cutting procedures, automatically adjusting power output to achieve reproducible tissue effects and enhanced protection of EndoTherapy instruments.

**High-Power Cut Support** – immediate spark ignition enables cutting without initial delays, which means superior cutting performance.

**Contact Quality Monitor** – analyses contact resistance of the neutral electrode, reducing the risk of thermal injuries to the patient.

**Leakage-Protection Sensor** – measures and controls leakage current, reducing the risk of unintended harm to the patient or user.

### Monopolar HF Modes

#### Cut Modes

##### PureCut

Continuous cutting mode with low coagulation effect

##### PulseCut Slow/Fast

Intermittent cutting mode which is commonly used for various endoscopic procedures

#### Coagulation Modes

##### SoftCoag

Slow and deep coagulation – optimal for coagulation of thick blood vessels

##### ForcedCoag

Fast and effective coagulation

### High Power Cut Support (HPCS) – Immediate Cutting Fast Spark Monitor (FSM) – Optimized Cutting Power

### Versatile Coagulation Technology



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## Technical data

| Olympus ESG-150                    | Specifications  |
|------------------------------------|---|
| <b>High frequency</b>              | 356 kHz $\pm$ 20%                                       |
| <b>Type, protection class</b>      | CF, Class I   |
| <b>Power supply</b>                | AC 100 V to 120 V/AC – 220 V to 240 V, 50/60 Hz, 650 VA |
| <b>Size (W x D x H)</b>            | 295 x 400 x 115 mm                                      |
| <b>Weight, without foot switch</b> | 6.6 kg  |

## Monopolar output

|  |   |
|--|---|
| <b>Sockets</b>                         | 3-pin plugs: Pin $\varnothing$ 4 mm (international/Valleylab standard)<br>1-pin plugs: Pin $\varnothing$ 8 mm (Bovie standard)<br>1-pin plugs: Pin $\varnothing$ 4 mm |
| <b>Split neutral electrode</b>         | 10 mm 2-pins  |
| <b>PureCut (Effect 1–3)</b>            | 120 W @ 500 Ohms  |
| <b>PulseCut slow/fast (Effect 1–5)</b> | 120 W @ 500 Ohms  |
| <b>SoftCoag (Effect 1–5)</b>           | 120 W @ 500 Ohms  |
| <b>ForcedCoag (Effect 1–5)</b>         | 120 W @ 500 Ohms  |

## Bipolar output

|                                |   |
|--------------------------------|---|
| <b>Sockets</b>                 | 28.8 mm 2-pins and $\varnothing$ 4/8 mm coaxial |
| <b>BipolarCut (Effect 1–3)</b> | 100 W @ 500 Ohms                                |
| <b>BiSoftCoag (Effect 1–3)</b> | 120 W @ 100 Ohms                                |



**Electrosurgical generator**  
(ESG-150)

## Ordering Information

| Order No.        | Description   | Patient Weight | Contact Area        | Unit    |
|------------------|---|----------------|---------------------|---------|
| <b>WA90150W</b>  | Electrosurgical generator “ESG-150”   |                |                     |         |
| <b>E0420539S</b> | ESG-150 set incl. WA99516C  |                |                     |         |
| <b>WA99512C</b>  | Neutral Electrode, for newborns, with cable   | < 5 kg         | 40 cm <sup>2</sup>  | 15 pcs  |
| <b>WA99513A</b>  | Neutral Electrode, for children   | 5– 15 kg       | 70 cm <sup>2</sup>  | 100 pcs |
| <b>WA99513C</b>  | Neutral Electrode, for children, with cable   | 5– 15 kg       | 71 cm <sup>2</sup>  | 15 pcs  |
| <b>WA99514A</b>  | Neutral Electrode, for adults   | > 15 kg        | 140 cm <sup>2</sup> | 100 pcs |
| <b>WA99514C</b>  | Neutral Electrode, for adults, with cable   | > 15 kg        | 140 cm <sup>2</sup> | 15 pcs  |
| <b>WA99516A</b>  | Neutral Electrode, universal size   | > 5 kg         | 110 cm <sup>2</sup> | 100 pcs |
| <b>WA99516C</b>  | Neutral Electrode, universal size, with cable   | > 5 kg         | 110 cm <sup>2</sup> | 15 pcs  |
| <b>WA99510A</b>  | Cable, for neutral electrode  |                |                     |         |
| <b>A02915A</b>   | HF-cable “MAJ-860”, monopolar, 2 m, UES-30, Erbe Intl. and Valleylab (new) HF-unit to SD handle |                |                     |         |

As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications and accessories may be required.

**OLYMPUS**

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