
# VIO® S

Electrosurgical system for use in clinics or specialist surgical ORs

# VIO® 300 S and VIO® 200 S:

## Electrosurgery tailored to perfection.

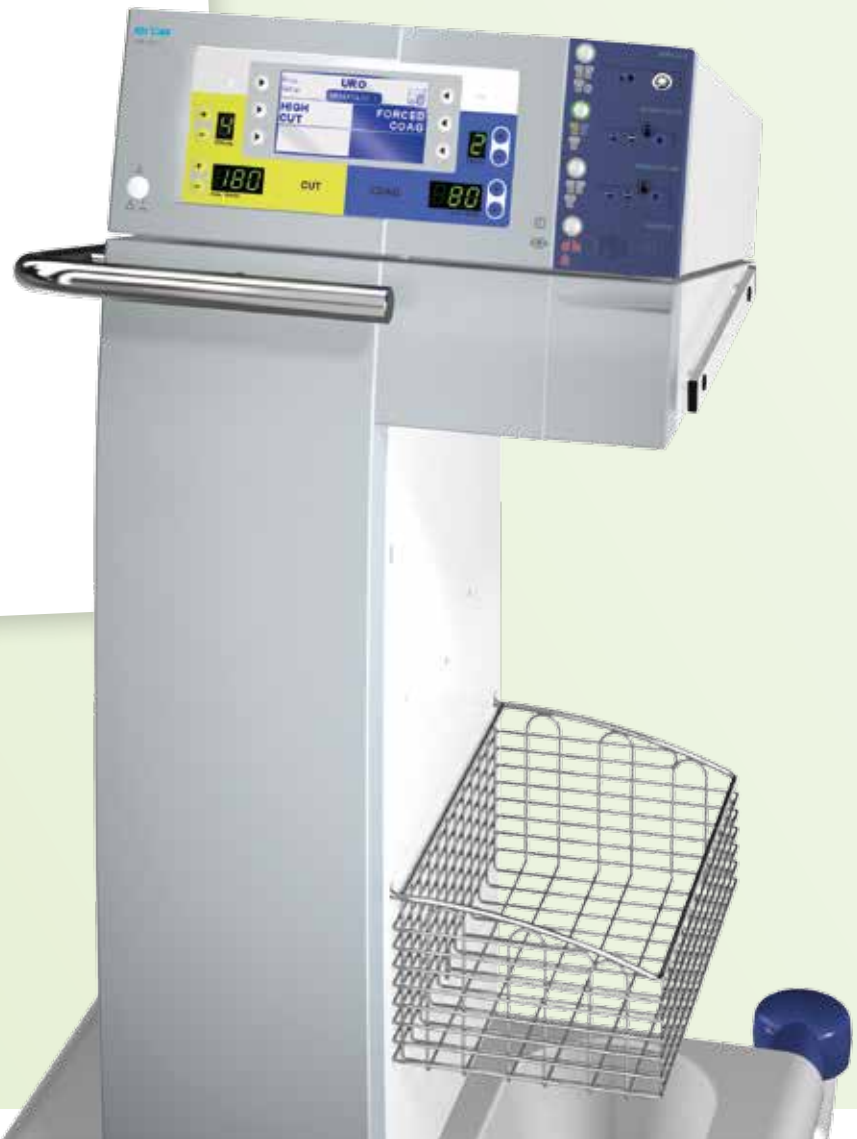
*With the VIO electrosurgical system, Erbe has set innovative standards aimed at providing optimum surgical support for almost any discipline as well as including a range of additional indications.*

Erbe VIO 300 S and 200 S generator modules offer automatic power adjustment for all control technologies:

- ☑ **Voltage control for gentle, reproducible cutting and coagulation**
- ☑ **Arc control for high-energy cutting or coagulation and for cutting under water**
- ☑ **Power control to maintain constant power levels during coagulation and devitalization**

### TAILORED PRECISELY TO YOUR NEEDS – BOTH IN TERMS OF HARDWARE AND SOFTWARE

- ☑ Automatic power adjustment
- ☑ New and enhanced CUT and COAG functions, monopolar and bipolar
- ☑ Can be configured for custom setups based on the specific discipline, indication or procedure
- ☑ Simple, interactive and safe operation
- ☑ The VIO S models – the master control units for other modules in the VIO electrosurgical system, for example argon plasma coagulation, smoke plume evacuation, the endoscopy irrigation pump, and other components



# Versatile operating and safety concept that offers complete convenience.

## Simple operating concept

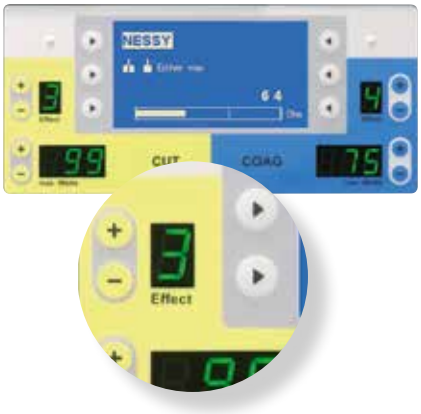
The operational design of the VIO 300 S enables fast, direct access to the program parameters. Using the up / down buttons, power values and effects can be easily and directly adjusted.

## Consistent enhancement: the NESSY patient plate safety system

With the NESSY safety concept and the Erbe patient plate NESSY Ω, VIO sets new standards with regard to the safety of monopolar electrosurgery.

## Preselectable effect settings

For consistent surgical results with reproducible tissue effects.




For use in clinic ORs or specialist surgical ORs

| | VIO 300 S | VIO 200 S |
|---|---|---|
| Gynecology | ⬓ | - |
| Urology | ⬓ | - |
| General surgery | ⬓ | - |
| Gastroenterology / Endoscopy | ⬓ | ⬓ |
| Pulmonology | ⬓ | ⬓ |
| ENT | ⬓ | - |
| Orthopedics | ⬓ | - |
| Dermatology | - | ⬓ |
| OMS | ⬓ | - |
| Ophthalmology | - | ⬓ |

***Legend:***

■ *strongly recommended*
⬓ *recommended*

# CUT

## Precise cutting using these modes.








### HIGH CUT 01

Suitable for cutting inside fatty structures or under water (e.g. TUR). Strong hemostasis at the incision edges. Control of arc intensity.

### AUTO CUT 02

Standard mode for cutting with minimum necrosis and reproducible cutting quality.

### ARGON AUTO CUT 03

Mode for argon-supported cutting. Minimum carbonization, minimum smoke plume development. Results in a good post-operative healing process.

### ENDO CUT I 04

Fractionated cutting mode for papillotomy or other needle / wire applications in endoscopy.

### ENDO CUT Q 05

For endoscopic polypectomy with a snare. Fractionated cutting and coagulation cycles.

### DRY CUT 06

Cutting mode with pronounced hemostasis as a result of voltage control and modulated forms of current.

### BIPOLAR CUT 07

Bipolar cutting with all the advantages provided by voltage regulation in 8 predetermined cutting qualities. The cutting current is only present at the distal end of the applicator. This ensures more safety and guarantees precise cuts.

# COAG

## Modes for exact coagulation and devitalization.









### CLASSIC COAG 01

Exposure mode for visceral and cardiac surgery. Exact, layer-specific exposure and dissection. Minimum carbonization of the incision edges.

### SWIFT COAG 02

Effective and fast coagulation with pronounced hemostasis that is also suitable for exposure.

### TWIN COAG 03

For simultaneous activation of two instruments with only one electrosurgical unit – consistent power output.

### FORCED APC 04

covers the entire spectrum of all types of non-contact APC coagulation. For hemostasis during endoscopy or open surgery or for surface coagulation and devitalization.

### SPRAY COAG 05

Non-contact and efficient surface coagulation with low thermal penetration. Suitable for tissue devitalization or for stopping diffuse bleeding. Extensive carbonization effects.

### FORCED COAG 06

Fast and effective standard coagulation with moderate thermal penetration. Slight carbonization effects.

### SOFT COAG 07

Gentle coagulation with deep penetration, without carbonization, resulting in minimum adhesion of the electrode. Supported by the power control.

### BIPOLAR SOFT COAG 08

Bipolar coagulation. The low voltages used in this mode prevent the instrument from sticking and distinctly reduce tissue carbonization. Effective – with a subtle adjustment of 8 different effects.

# These modes and upgrades are available with the VIO 300 S and VIO 200 S models

## CUT Modes

| | VIO 300 S | VIO 200 S |
|---|---|---|
| AUTO CUT | ■ | ■ |
| HIGH CUT | ○ | – |
| DRY CUT | ○ | – |
| DRY CUT° | ○ | – |
| BIPOLAR CUT | ○ | – |
| ENDO CUT Q | □ | □ |
| ENDO CUT I | □ | □ |
| ARGON AUTO CUT | ■ | ■ |
| ARGON HIGH CUT | ○ | – |
| ARGON DRY CUT | ○ | – |
| ARGON DRY CUT° | ○ | – |

## COAG Modes

| | VIO 300 S | VIO 200 S |
|---|---|---|
| SOFT COAG | ○ | ■ |
| SWIFT COAG | ○ | – |
| SWIFT COAG° | ○ | – |
| CLASSIC COAG | ■ | |
| FORCED COAG | ○ | ■ |
| SPRAY COAG | ■ | – |
| BIPOLAR SOFT COAG | ■ | ■ |
| TWIN COAG | □ | – |
| FORCED APC | ■ | ■ |
| ARGON SOFT COAG | ○ | ■ |
| ARGON SWIFT COAG | ○ | – |
| ARGON SWIFT COAG° | ○ | – |
| ARGON FORCED COAG | ○ | ■ |
| ARGON TWIN COAG | □ | – |

***Legend:***

■ *included*
○ *depending on the version*
□ *only available ex works (must be ordered)*

### FOR PERFECT CUTTING

- ☑ Newly-developed electrosurgical monopolar and bipolar CUT modes
- ☑ Power adjustment as a result of Erbe voltage control, for reproducible cutting
- ☑ Power adjustment as a result of Erbe arc control, for reproducible, efficient cutting in high-impedance tissue
- ☑ Additional area of application from microsurgery through to power-intensive vaporization
- ☑ Cutting results largely independent of cutting speed, shape of the electrode and tissue
- ☑ Bipolar cutting for more safety
- ☑ Power Peak System for optimum cutting behavior

### FOR PERFECT COAGULATION

- ☑ Newly-developed electrosurgical COAG effects
- ☑ Power adjustment as a result of voltage control, for reproducible coagulation with optimally adjusted power output
- ☑ Power control for fast „non-stick" coagulation without carbonization
- ☑ Monopolar and bipolar coagulation for all your requirements
- ☑ AUTO-START and AUTO-STOP functions
- ☑ TWIN COAG: simultaneous activation of two electrodes / instruments for exposure

# Technical data

## VIO 300 S and VIO 200 S

| Power output | |
|---|---|
| Maximum cut power (VIO 300 S) | 300 watts at 500 Ohm (with PPS, briefly 400 watts) |
| Maximum cut power (VIO 200 S) | 200 watts at 500 Ohm |
| Maximum COAG power | up to 200 watts |
| NE safety system | NESSY |
| Frequency | 350 kHz |

| Power connection | |
|---|---|
| Line voltage | 100 V – 120 V / 220 V – 240 V ± 10 % |
| Power frequency | 50 / 60 Hz |
| Line current | max. 8 A / 4 A |
| Power consumption in standby mode | 40 watts |
| Power consumption at max. HF power | 500 watts / 920 VA |
| Potential equalization connection | Yes |
| Power fuse | T 8 A / T 4 A |
| Dimensions | Width x Height x Depth 410 x 160 x 370 mm |
| Weight | 9.5 kg |

**VIO 300 S** **VIO 200 S**
**No. 10140-300** **No. 10140-400**

8/4 mm,
bipolar
**No. 20140-610**

2Pin-22 mm,
bipolar
**No. 20140-612**

2Pin-22-28-8/4 mm,
bipolar
**No. 20140-613**

9/5 mm,
monopolar
**No. 20140-620**

3Pin-Bovie,
monopolar
**No. 20140-622**

3Pin-9/5 mm,
monopolar
**No. 20140-623**

6 mm
patient plate
**No. 20140-640**

2Pin
patient plate
**No. 20140-641**

6 mm-2Pin
patient plate
**No. 20140-642**

*For additional information on device configuration, see the catalog chapter on units and modules (85100-172) or the VIO product range brochure (85140-190).*

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen
Germany

Phone +49 7071 755-0
Fax +49 7071 755-179
info@erbe-med.com
erbe-med.com

 02.16 85140-160