

# SURTRON<sup>®</sup>

ELECTROSURGICAL UNIT



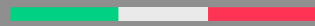
*INNOVATION  
FOR SURGERY*





# SURTRON®

ELECTROSURGICAL UNIT



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**SURTRON<sup>®</sup>**

ELECTROSURGICAL UNIT

**INNOVATION  
FOR  
SURGERY**

# 100% MADE IN ITALY

WE FOLLOW THE PRODUCTION PROCESS, FROM INITIAL CONCEPT TO THE FINAL PRODUCT, ENTIRELY IN OUR FACTORY.

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## IMPROVE QUALITY OF WORK IN MEDICAL FIELD.

LED SpA strives to create products capable of improving the quality of the work for doctors, during their operations.

Innovating and refining technologies in symbiosis with a functional design, to allow for maximum proficiency. Continuous research is done to achieve the highest possible objectives and we are always ready to collaborate, putting customers first and using all our experience to grow successful together.

PERFORMANCE  
USABILITY  
DESIGN  
RELIABILITY



# SURTRON 50D

**SAFETY**  
 EN60601-1  
 EN60601-1-2  
 EN60601-2-2  
 Electrical Class: I CF  
 MDR 2017/745/UE Class: II b

**CONTROLS**  
 Output power monitoring  
 Self check control



**SURTRON® 50D** is a radiofrequency electrocautery unit suitable for minor monopolar surgery.

**SURTRON® 50D** through the functions selection makes pure cut, cut coagulation (CUT 1 - CUT 2) and pure coagulation possible. The on-board microcontroller and digital display guarantees consistent safety and reliability under any conditions.

**SURTRON® 50D** offers outstanding professional surgical results due to its ergonomic and superior safety features.

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READ MORE

## 50D

Reference code	10100.051
Maximum output power CUT	50 W - 400 Ω
Maximum output power CUT/COAG1	45 W - 400 Ω
Maximum output power CUT/COAG2	40 W - 400 Ω
Maximum output power COAG	40 W - 400 Ω
Working frequency	600 kHz
Patient circuit	F
Selectable input voltage	115/230 Vac
Mains frequency	50-60 Hz
Electrical input power	280 VA
Size WxHxD mm	190x85x239
Weight	2,5 Kgs

### STANDARD COMPOSITION:

- Reusable monopolar handle 00206.00
- Assorted electrodes (10 pcs) 00500.00
- Cable for rod neutral electrode 00404.02
- Rod neutral electrode 00403.01
- Foot switch 00304.00
- Power supply cable 2 mt 00100.03
- Electrodes and handle support 00202.00



AMBULATORY SURGERY - DENTAL



# SURTRON 80D



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**SURTRON® 80D** is a radiofrequency electrocautery unit suitable for minor monopolar surgery.

**SURTRON® 80D** has a multi-function selector which makes cutting (CUT), cut coagulation (BLEND), coagulation (COAG) and micro-coagulation (MICRO) possible.

The one-board microcontroller and digital display guarantees consistent safety and reliability under any conditions.

**SURTRON® 80D** offers outstanding professional surgical results due to its ergonomic and superior safety features.

**SAFETY**  
 EN60601-1  
 EN60601-1-2  
 EN60601-2-2  
 Electrical Class: I CF  
 MDR 2017/745/UE Class: II b

**CONTROLS**  
 Patient/Plate circuit monitoring  
 Output power monitoring  
 Self check control

## 80D

Reference code	10100.081
Maximum output power CUT	80 W - 400 Ω
Maximum output power BLEND	60 W - 400 Ω
Maximum output power COAG	50 W - 400 Ω
Maximum output power MICRO	20 W - 600 Ω
Working frequency	700 kHz
Patient circuit	F
Selectable input voltage	115-230 Vac
Mains frequency	50-60 Hz
Electrical input power	280 VA
Size WxHxD mm	190x85x239
Weight	2,5 Kgs

### STANDARD COMPOSITION:

- Reusable monopolar handle 00206.00
- Assorted electrodes (10 pcs) 00500.00
- Cable for neutral electrode 00404.08
- Steel neutral electrode 5365
- Foot switch 00304.00
- Power supply cable 2 mt 00100.03
- Electrodes and handle support 00202.00



DERMATOLOGY - FIRST AID - VASCULAR SURGERY

*CASUALTY SURGERY - DENTAL  
DERMATOLOGY - ENDOSCOPY  
FIRST AID GYNECOLOGY - GASTROENTEROLOGY  
NEUROSURGERY - OPHTHALMOLOGY*

# SURTRON

## 80//120//160



**SURTRON® 80 / 120 / 160** is a high frequency electrocautery equipment which is suitable to light and medium surgery.

**SURTRON® 80 / 120 / 160**, through its performance, allows pure CUT, cut-coagulation BLEND, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and, with a special adapter, BIPOLAR coagulation.

The digital reading of delivered power and the monitoring of operative function by microcontroller guarantees the absolute reliability of working conditions.

**SURTRON® 80 / 120 / 160** allows a highly professional surgery thanks to the user-friendly and safety solutions normally used.

The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode.

The possibility to control by the handle the monopolar output functions as well as the delivery of output power, allows to implement the surgical operation without turning away the surgeon attention from the surgical field.





# OTORHINOLARYNGOLOGY PEDIATRIC SURGERY - PLASTIC SURGERY UROLOGY - VASCULAR SURGERY

## 80      120      160



Reference code	10100.101	10100.201	10100.301
Maximum output power CUT	80 W-250 Ω	120 W-250 Ω	160 W-250 Ω
Maximum output power BLEND	60 W-200 Ω	90 W-200 Ω	120 W-200 Ω
Maximum output power FORCED COAG	50 W-150 Ω	80 W-150 Ω	100 W-150 Ω
Maximum output power SOFT COAG	40 W-100 Ω	60 W-100 Ω	80 W-100 Ω
Maximum output power BIPOLAR	30 W-100 Ω	40 W-100 Ω	60 W-100 Ω
Working frequency	600 kHz	600 KHz	600 KHz
Patient circuit	F	F	F
Selectable input voltage	115-230 Vac	115-230 Vac	115-230 Vac
Mains frequency	50-60 Hz	50-60 Hz	50-60 Hz
Electrical input power	230 VA	300 VA	350 VA
Size WxHxD mm	254x104x288	254x104x288	254x104x288
Weight	5 Kgs	5 Kgs	5 Kgs

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### SAFETY

EN60601-1  
EN60601-1-2  
EN60601-2-2  
Electrical Class: I CF  
MDR 2017/745/UE Class: II b

### CONTROLS

Patient/Plate circuit monitoring  
Output power monitoring  
Self check control

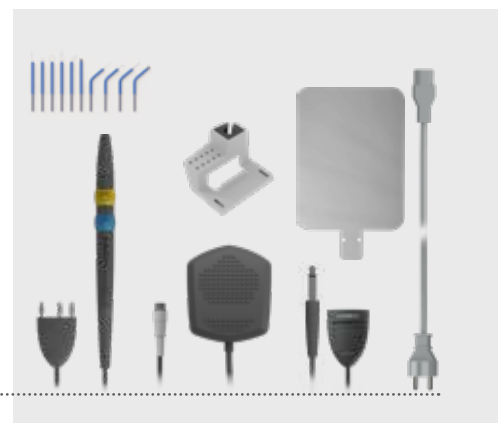
Possibility of use for minimum invasive surgery  
Possibility of use of bipolar forceps  
Possibility of use of split neutral electrodes  
Planning of the working conditions

Memorization of the last used settings  
Activation of the monopolar power with pedal and/or handle  
Digital regulation and indication of the output power  
Adjustment of the volume

## 80//120//160

### STANDARD COMPOSITION:

- Reusable monopolar handle      00205.00
- Assorted electrodes (10 pcs)      00500.00
- Cable for rod neutral electrode      00404.08
- Rod neutral electrode              5365
- Foot switch                            00304.00
- Power supply cable 2 mt            00100.03
- Electrodes and handle support      00202.00



CASUALTY SURGERY - DERMATOLOGY  
 VASCULAR SURGERY - GYNECOLOGY  
 OTORHINOLARYNGOLOGY - PEDIATRIC SURGERY

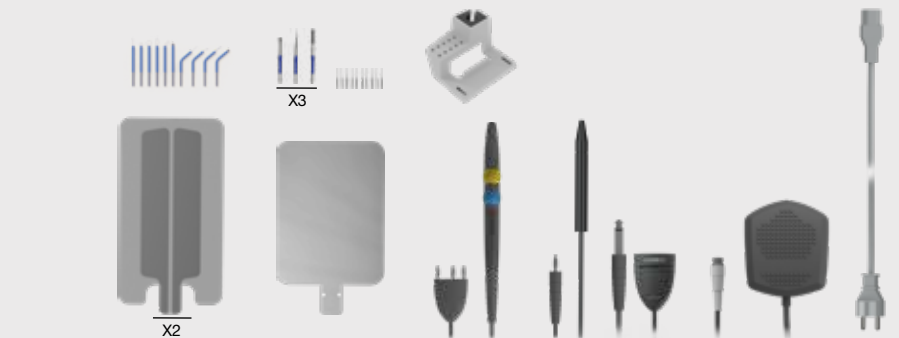


	120	160 HF	200
Reference code	10300.101	10300.201	10300.401
Max output power CUT	120 W-250 Ω	150 W-500 Ω <sup>(1)</sup>	200 W-250 Ω
Max output power BLEND	90 W-200 Ω	100 W-500 Ω <sup>(1)</sup>	120 W-200 Ω
Max output power ENHANCED	90 W-250 Ω	100 W-500 Ω <sup>(1)</sup>	120 W-250 Ω
Max output power FORCED COAG	80 W-150 Ω	100 W-150 Ω	150 W-150 Ω
Max output power SOFT COAG	60 W-100 Ω	80 W-100 Ω	90 W-100 Ω
Max output power BIPOLAR COAG	60 W-50 Ω	60 W-50 Ω	80 W-50 Ω
Max output power BIPOLAR ABLATION	-	60 W-100 Ω <sup>(1)</sup>	-
Working frequency	600 kHz	600 kHz	600 kHz
Working frequency <sup>(1)</sup> FUNCTION ONLY	-	<b>4.0 MHz</b>	-
RF power pulse emission time	10 ms - 30 sec	10 ms - 30 sec	10 ms - 30 sec
RF power pulse interval	1 - 9	1 - 9	1 - 9
Patient circuit	F	F	F
Selectable input voltage	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac
Mains frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Electrical input power	300 VA	350 VA	350 VA
Size WxHxD mm	370x144x319	370x144x319	370x144x319
Weight	6 Kgs	6 Kgs	6 Kgs
	SCAN HERE 	SCAN HERE 	SCAN HERE 
	READ MORE	READ MORE	READ MORE

## FLASH 120//160HF//200

### STANDARD COMPOSITION:

- Reusable handle with switches 00205.00
- Handle for microsurgical needle 00201.02
- Assorted electrodes (10 pcs) 00500.00
- Needles for micro-surgery (10 pcs) 500500.L11
- Blade electrode 7 cm (3 pcs) 152-110
- Needle electrode 7 cm (3 pcs) 152-120
- Ball electrode 6 cm (3 pcs) 152-150
- Cable for neutral electrode 00404.08
- Steel neutral electrode 5365
- Disposable split neutral electrode (2 pcs) F7920
- Waterproof foot switch 00304.00
- Power supply cable 5mt 00100.01
- Electrode and handle support 00202.00



FIRST AID - PLASTIC SURGERY - ENDOSCOPY  
 OPHTHALMOLOGY - NEUROSURGERY  
 PNEUMOLOGY - UROLOGY

# SURTRON FLASH // FLASH HF



**SURTRON® FLASH HF** is a High Frequency RadioSurgical equipment which is suitable to precision monopolar and bipolar surgery and micro-surgery without tissue alterations. **SURTRON® FLASH** can supply RF operative powers either for programmable time as short as hundreds of a second.

**SURTRON® FLASH** through its performances allows pure CUT, cut-coagulation BLEND, incision with reduced production of eschar ENHANCED, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG, BIPOLAR coagulation and ABLATION.

The digital reading of the delivered power and the overseeing through microcontroller of the operational functions, assure the absolute reliability of the conditions of job.

**SURTRON® FLASH** allows a highly professional surgery thanks to the user-friendly and safety solutions normally used.

The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. The possibility to control by the handle the output functions as well as the delivery of output power, allows to implement the surgical operation without turning away the surgeon attention from the surgical field.

**SAFETY**  
 EN60601-1  
 EN60601-1-2  
 EN60601-2-2  
 Electrical Class: I CF  
 MDR 2017/745/UE Class: II b

**CONTROLS**  
 Patient/Plate circuit monitoring  
 Output power monitoring  
 Self check control

Activation of the monopolar power with pedal and/or handle  
 Patient to plate contact control  
 Split return electrode use allowed  
 Minimally invasive surgical treatment allowed  
 Monopolar and Bipolar independent output  
 Auto Start/Stop in Bipolar Coag  
 Working condition storing  
 Digital regulation and indication of the output power

Sound level control  
 Planning of the working condition  
 RF power pulse emission time setting  
 RF power pulse interval setting  
**HF** Dual Frequency for best performances  
**HF** Least amount of lateral heat  
**HF** Less smoke in cutting mode



# SURTRON 200

**SURTRON® 200** is a high frequency electrocautery equipment which is suitable to light and medium surgery.

**SURTRON® 200** allows to execute surgical minimally invasive procedure of resection, evaporation and coagulation.

**SURTRON® 200** through its performances allows pure CUT, cut-coagulation BLEND, incision with reduced production of eschar ENHANCED, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and BIPOLAR coagulation.

The digital reading of the delivered power and the overseeing through microcontroller of the operational functions, assure the absolute reliability of the conditions of job.

**SURTRON® 200** allows a highly professional surgery thanks to the user-friendly and safety solutions normally used. The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. The possibility to control by the handle the output functions as well as the delivery of output power, allows to implement the surgical operation without turning away the surgeon attention from the surgical field.



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READ MORE

Patient to plate contact control  
 Split return electrode use allowed  
 Minimally invasive surgical treatment allowed  
 Monopolar and Bipolar independent output  
 Auto Start/Stop in Bipolar Coag

Working condition storing  
 Activation of the monopolar power with pedal and/or handle  
 Digital regulation and indication of the output power  
 Sound level control  
 Planning of the working condition

*AMBULATORY SURGERY - DERMATOLOGY  
 ENDOSCOPY - GASTROENTEROLOGY*

GENERAL SURGERY - GYNECOLOGY - FIRST AID  
 NEUROSURGERY - OTORHINOLARYNGOLOGY  
 ORTHOPEDICS - PEDIATRIC SURGERY  
 PLASTIC SURGERY - PNEUMOLOGY



200



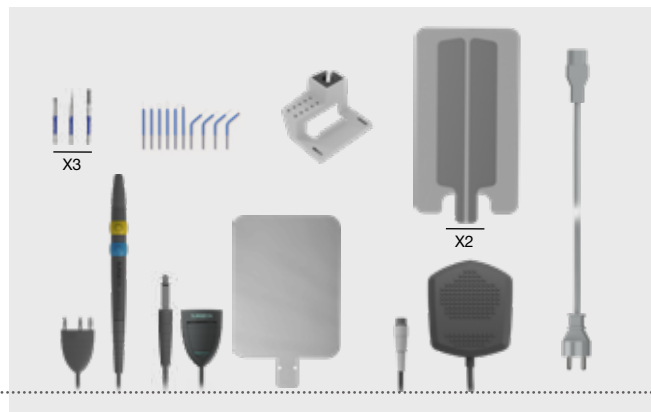
Reference code	10100.401
Maximum output power CUT	200W - 250 Ω
Maximum output power ENHANCED	120W - 250 Ω
Maximum output power BLEND	120W - 200 Ω
Maximum output power FORCED COAG	150W - 150 Ω
Maximum output power SOFT COAG	90W - 100 Ω
Maximum output power BIPOLAR COAG	80W - 50 Ω
Working frequency	600 kHz
Patient circuit	F
Mains voltage	115-230 Vac
Mains frequency	50-60 Hz
Electrical input power	350 VA
Size WxHxD mm	370x144x319
Weight	6 Kgs

**SAFETY**  
 EN60601-1  
 EN60601-1-2  
 EN60601-2-2  
 Electrical Class: I CF  
 MDR 2017/745/UE Class: II b

**CONTROLS**  
 Patient/Plate circuit monitoring  
 Output power monitoring  
 Self check control

**STANDARD COMPOSITION:**

- Reusable handle with switches	00205.00
- Assorted electrodes (10 pcs)	00500.00
- Blade electrode 7 cm (3 pcs)	152-110
- Needle electrode 7 cm (3 pcs)	152-120
- Ball electrode 6 cm (3 pcs)	152-150
- Cable for neutral electrode	00404.08_S
- Steel neutral electrode	5365
- Disposable split neutral electrode (2 pcs)	F7920
- Waterproof foot switch	00304.00
- Power supply cable 5mt	00100.01
- Electrodes and handle support	00202.00



THORAX SURGERY - TRANS URETHRAL RESECTION  
 UROLOGY - VASCULAR SURGERY





**SURTRON® TOUCH 200** has taken electrocautery to new levels of performance, reliability and safety. With **SURTRON® TOUCH 200** we have gained a good reputation for the innovation and technical excellence of our equipments.

The intuitive **SURTRON® TOUCH 200**, suitable for use in many surgical disciplines, has been designed for ease of use to not only minimise training, but to facilitate ease of set up at the start of a procedure and changing of modes and power settings during a procedure interface.

**SURTRON® TOUCH 200** is an High Frequency electrocautery equipment which is suitable for precision monopolar and bipolar surgery and micro-surgery without tissue alterations.

**SURTRON® TOUCH 200** can supply HF operative powers either for programmable time as short as hundreds of a second.

**SURTRON® TOUCH 200** through its performances allows pure CUT, cut-coagulation BLEND, incision

with reduced production of eschar ENHANCED, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG, bipolar CUT and COAG.

The digital reading of the delivered power and the overseeing through microcontroller of the operational functions, assure the absolute reliability of the conditions of work.

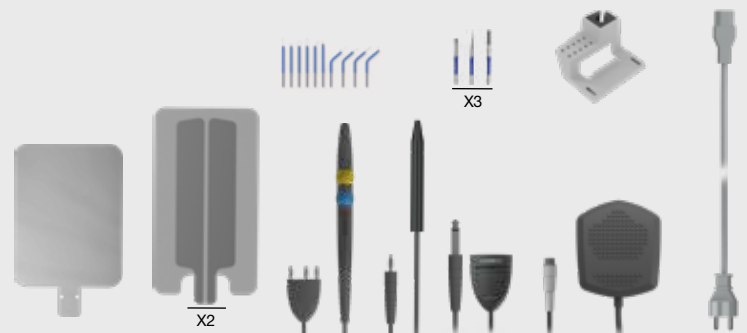
**SURTRON® TOUCH 200** allows a highly professional surgery thanks to the user-friendly and safety solutions normally used.

The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. The possibility to control by the handle the output functions as well as the delivery of output power, allows to implement the surgical operation without turning away the surgeon attention from the surgical field.

## TOUCH 200

### STANDARD COMPOSITION:

- Reusable handle with switches	00205.00
- Electrodes and handle support	00202.00
- Assorted electrodes (x10)	00500.00
- Blade electrode 7 cm (x3)	152-110
- Needle electrode 7 cm (x3)	152-120
- Ball electrode 6 cm (x3)	152-150
- Cable for neutral electrode	00404.08
- Steel neutral electrode	5365
- Disposable split neutral electrode (x2)	F7920
- Waterproof foot switch	00304.00
- Power supply cable 5mt	00100.01



*AMBULATORY SURGERY - DERMATOLOGY  
ENDOSCOPY - FIRST AID - GASTROENTEROLOGY*

GENERAL SURGERY - GYNECOLOGY - FIRST AID  
 NEUROSURGERY - OTORHINOLARYNGOLOGY  
 ORTHOPEDICS - PEDIATRIC SURGERY  
 PLASTIC SURGERY - PNEUMOLOGY - THORAX

# SURTRON TOUCH 200



## TOUCH 200

Maximum output power CUT	200W-300 Ω
Maximum output power ENHANCED	150W - 300 Ω
Maximum output power BLEND	150W - 300 Ω
Maximum output power BIPOLAR TUR	200W - 50 Ω
Maximum output power BIPOLAR PURE	120W - 50 Ω
Maximum output power FORCED COAG	150W - 200 Ω
Maximum output power SOFT COAG	100W - 200 Ω
Maximum output power FULGURATION	100W - 1000 Ω
Maximum output power BIPOLAR COAG	120W - 50 Ω
Maximum output power VASSEL SEALING COAG	200W - 50 Ω
Maximum output power FULGURATION COAG	10100.401
Working frequency	360 kHz
RF power pulse emission time	10 ms - 30 sec
RF power pulse interval	1 - 30
Patient circuit	F
Selectable input voltage	100 - 240 Vac
Mains frequency	50 - 60 Hz
Electrical input power	750 VA
Size	370 / 145 / 300 mm
Weight	5,8 Kg

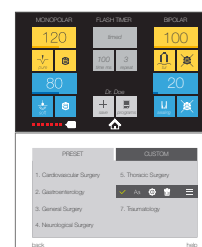
**SAFETY**  
 EN60601-1  
 EN60601-1-2  
 EN60601-2-2  
 Electrical Class: I CF  
 MDR 2017/745/UE Class: II b

**CONTROLS**  
 Patient/Plate circuit monitoring  
 Output power monitoring  
 Self check control

**LeOS**, Led electrosurgery Operating System, is developed for an easy, functional and intuitive working experience. You can choose a black or white background, customize and store your personal program, change the cut and coag power with a simple touch of your finger.

Adaptive power control  
 Activation power with pedal and/or handle  
 Patient/plate contact control  
 Split return electrode use allowed  
 Minimally invasive surgical treatment allowed  
 Monopolar and Bipolar independent output  
 Underwater bipolar cut  
 Vessel Sealing up to 7mm  
 Auto Start/Stop in Bipolar Coag

RF power pulse emission time setting  
 RF power pulse interval setting  
 Least amount of lateral heat  
 Less smoke in cutting mode  
 Sound level control  
 Planning of the working conditions  
 Working condition storing  
 Preset protocols  
 Updating by USB



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READ MORE

SURGERY - TRANS URETHRAL RESECTION (TUR)  
 UROLOGY - VASCULAR SURGERY

ENDOSCOPY - GASTROENTEROLOGY  
 GENERAL SURGERY - GYNECOLOGY  
 NEUROSURGERY - OTORHINOLARYNGOLOGY  
 ORTHOPEDICS - PEDIATRIC SURGERY

# SURTRON

## 300 HP // 400 HP



### TWIN OPERATIVE ACTIVITY

- Two output channels for monopolar cutting
- Two independent setting and output channels for the most frequent monopolar coagulation

### CONTROLLED CUTTING PROCEDURES

- Enhanced cutting current for eschar free incision
- Cutting current with selectable coagulating property for bleeding controlled dissection
- Low capacitive coupling by slow BLEND current for endoscopic procedures

### TWIN CONTROLLED COAGULATIVE PROCEDURES

- SPEEDY\*\* coagulation and DEEP\*\*\*coagulation available to two operators
- SPRAY coagulation available by hand switch or foot switch controls

### WIDE BIPOLAR FEATURES

- Bipolar cutting current with selectable bleeding control
- Slow BLEND cutting current
- Separately activable Automatic Start/Stop coagulation
- Vessel Sealing up to 7mm

### SURGEON AND PATIENT TOTAL SAFETY

- Acceptability of contact impedance between patient

body and return electrode continuously watched by Skin Plate Electronic Control (SPEC)

- H.F. Leakage currents continuously monitored
- Mains fluctuation automatically compensated before to start the delivery of HF power

### PERSONALIZED PROCEDURES

- Independent choice of coagulative currents and power levels by each of two operators
- Ten personal configurable and immediately recallable procedures

### EXTENSION DRIVER AND INTERLOCK SIGNALS

- Drived output connection to external Argon Plasma unit and Smoke Evacuator unit

### AUTOMATIC SELF DIAGNOSIS

- Automatic diagnostic control of the actual complete functionality of the electronic unit and the connected accessories with coded report of failures

\*Monopolar CUT mode until 100 Watt.

\*\*SPEEDY coagulation also said Fulgurate or Forced coagulation

\*\*\*DEEP coagulation also said Pin Point, Dessicate or Soft coagulation



Reference code

- Maximum output power monopolar pure CUT
- Maximum output power monopolar cut-coag CUT80%
- Maximum output power monopolar cut-coag CUT60%
- Maximum output power monopolar cut-coag CUT40%
- Maximum output power monopolar cut ENHANCED
- Maximum output power monopolar cut-coag BLEND
- Maximum output power monopolar coag SPEEDY
- Maximum output power monopolar coag DEEP
- Maximum output power monopolar coag SPRAY
- Maximum output power monopolar coag SPRAY ARGON
- Maximum output power bipolar CUT
- Maximum output power bipolar cut-coag CUT80%
- Maximum output power bipolar cut-coag CUT60%
- Maximum output power bipolar cut-coag CUT40%
- Maximum output power bipolar cut-coag BLEND
- Maximum output power bipolar coag COAG
- Maximum output power bipolar coag VESSEL SEALING
- Working frequency Monopolar / Bipolar
- Patient circuit
- Selectable input voltage
- Mains frequency
- Electrical input power
- Size WxHxD mm
- Weight

## 300HP

- 10400.802**
- 300 W - 300 Ω**
- 250 W - 300 Ω**
- 200 W - 300 Ω**
- 150 W - 300 Ω**
- 200 W - 500 Ω**
- 200 W - 300 Ω**
- 100 W - 500 Ω**
- 100 W - 200 Ω**
- 70 W - 2000 Ω**
- 70 W - 2000 Ω**
- 120 W - 50 Ω**
- 120 W - 50 Ω**
- 120 W - 50 Ω**
- 100 W - 50 Ω**
- 120 W - 150 Ω**
- 120 W - 50 Ω**
- 200 W - 50 Ω**
- 425 kHz / 525 kHz**
- F**
- 115 - 230 Vac**
- 50 - 60 Hz**
- 1000 VA**
- 470x150x400**
- 17,5 Kgs**

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## 400HP



- 10400.902**
- 400 W - 300 Ω**
- 300 W - 300 Ω**
- 250 W - 300 Ω**
- 200 W - 300 Ω**
- 250 W - 500 Ω**
- 250 W - 300 Ω**
- 120 W - 500 Ω**
- 120 W - 200 Ω**
- 70 W - 2000 Ω**
- 100 W - 2000 Ω**
- 120 W - 50 Ω**
- 120 W - 50 Ω**
- 120 W - 50 Ω**
- 100 W - 50 Ω**
- 120 W - 150 Ω**
- 120 W - 50 Ω**
- 200 W - 50 Ω**
- 425 kHz / 525 kHz**
- F**
- 115 - 230 Vac**
- 50 - 60 Hz**
- 1000 VA**
- 470x150x400**
- 17,5 Kgs**

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*PEDIATRIC SUREGERY  
PLASTIC SURGERY  
PNEUMOLOGY  
THORAX SURGERY  
TRANS URETHRAL RESECTION (TUR)  
UROLOGY  
VASCULAR SURGERY*

**SAFETY**

- EN60601-1
- EN60601-1-2
- EN60601-2-2
- Electrical Class: I CF
- MDR 2017/745/UE Class: II b

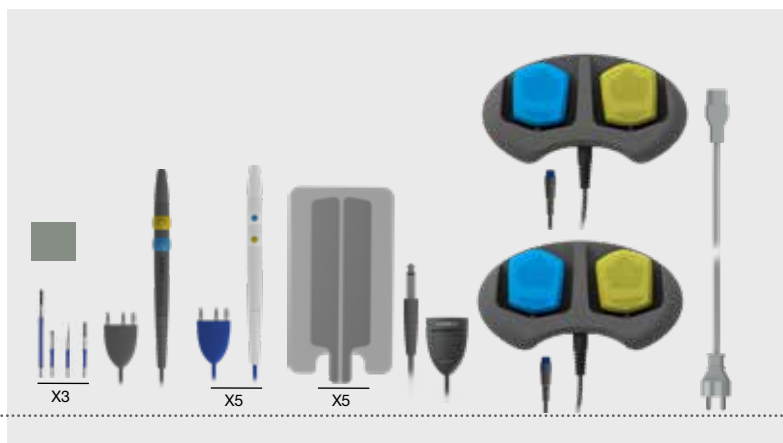
**CONTROLS**

- Patient/Plate circuit monitoring
- Output power monitoring
- Self check control
- H.F. Leakage currents control
- Compensation of mains fluctuation

## 300HP // 400HP

### STANDARD COMPOSITION:

- Disposable handle with switches (5pcs) 755VL
- Reusable handle with switches 00205.00
- Blade electrode 7 cm (3 pcs) 152-110
- Blade electrode 16 cm (3 pcs) 152-115
- Needle electrode 7 cm (3 pcs) 152-120
- Ball electrode 6 cm (3 pcs) 152-150
- Cable for neutral electrode 00404.08
- Disposable split neutral electrode (5pcs) F7920
- Electrode cleaning sponge F7520
- Double water-proof foot-switch (2 pcs) 00305.04
- Power supply cable 5 mt 00100.01



- AUTOMATIC AND / OR MANUAL FUNCTIONING
- REGULATION OF THE EVACUATION FLUX
- AUTOMATIC FUNCTION FOR LAPAROSCOPY
- CONTROL AND INDICATION OF USURY STATUS OF THE FILTER

# SURTRON® EVAC



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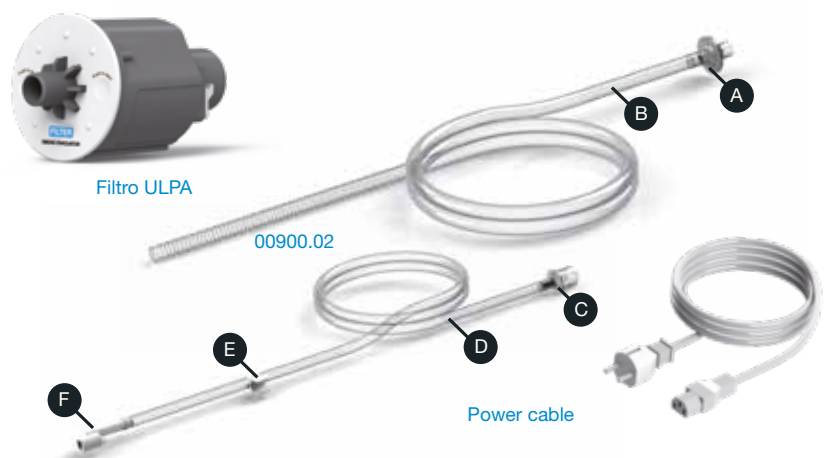
- FAST SUBSTITUTION OF THE FILTERS
- DIFFERENT TYPE OF FILTERS
- ACTIVATED CARBONS FILTERS FOR THE ELIMINATION OF THE SMELLS

## STANDARD COMPOSITION:

- Power cable
- First ULPA Filter (5h) - BLU
- Evacuation kit: **A** Filter **B** Pipe dia. 22mm lenght 2,4 mt (100")
- 4 Handle evacuation kit: **C** Adapter 10mm/22mm **D** Pipe dia.10 Lenght 1,8 mt (72") **E** Clip to fix the pipe on the handle
- F** Adapter for the handle

## REPLACEMENT PARTS

- ULPA Filter (20h) - RED 00900.FU01
- Evacuation kit (6 pcs) 00900.02/06
- Handle evacuation kit (12 pcs) 00900.01/12



**SURTRON® EVAC** is an evacuation and filtering system for the smokes produced during the surgical procedures. The smokes, generated during the surgical procedures, have a bad, strong and long smell. These smokes consist of water vapour, organic gas, visible or invisible solid particles and viral parts. So a good evacuation and filtration eliminates bad smells, reduce the bacteriologist and/or viral risks, and solves, the particularly annoying problem of the optimal vision of the zone of the intervention, during the laparoscopic procedures.

In **SURTRON® EVAC** the activation of the evacuation can be: AUTOMATIC, through electronic system of survey of the activation of the high frequency electrosurgical unit; MANUAL, acting directly on the unit through a foot switch (optional) The flux of the evacuation can be regulated to be suitable with the singular necessities. For laparoscopic procedures there is a specific function, quickly selectable.

**SURTRON® EVAC** has an electronic control of the evacuation with the indication of the usury status of the filters.

Reference codes	10200.10 (230 Vac) - 10200.10/115V (115 Vac)
Input voltage	230 Vac or 115 Vac
Mains frequency	50 Hz
Electrical input power	800 VA
Max vacuum flow rate	1000 LPM (35 CFM)
Max static suction	250 mbar (83 in H2O)
Filter type	ULPA with active carbon
Filter efficiency	99,999X%
Particles diameter	0,12 micron
Size WxHxD mm	370x144x319
Weight	4 Kg



## **FILTER RED**

The **RED** filter is an optional spare part, created for a long time of use.



## **FILTER BLUE**

The **BLUE** filter is the standard filter and it is included with the unit for a first time of use.

There are two different kind of filter, quickly substituable and constituted by a filtering ULPA type with a active carbons part dedicated to the elimination of the bad smells of the electrosurgical smokes and connector of 7/8" (22mm). The filters have an electronic system for the control of the status of use.

# SURTRON<sup>®</sup> ABC



SURTRON ABC is a module that can be connected with a compatible electro-surgical unit, specific for coagulation electro-surgical procedures with Argon gas, indicated for both open surgery and laparoscopy.

Argon is an inert gas that used in combination with specific currents for high frequency coagulation generated by an electro-surgical unit, allows to obtain a superficial coagulation without contact thanks to the ionization of the gas flow through the high-frequency current.

SURTRON ABC is realized so that the connection to an electro-surgical unit with compatible characteristics to the Argon procedures, allows the erogation both through a manual activation and foot activation. The connection to the ABC unit doesn't preclude the use of other functions of the electro-surgical units, in fact, in case of use of the compatible LED units, the erogation of the Argon gas occurs only in case of erogation of current of high-frequency coagulation (SPRAY).

- REGULATION AND CONTROL OF THE FLOW GAS SUPPLY
- STATUS CONTROL OF THE GAS ARGON CYLINDER
- ACTIVATION THROUGH THE

- HANDLE OR THE FOOT-SWITCH*
- *SPECIFIC FUNCTION FOR LAPAROSCOPY*
  - *AUTOMATIC FUNCTION FOR COMPATIBLE LED UNITS*
  - *MANUAL FUNCTION FOR CONNECTION WITH UNITS OF OTHER BRANDS*

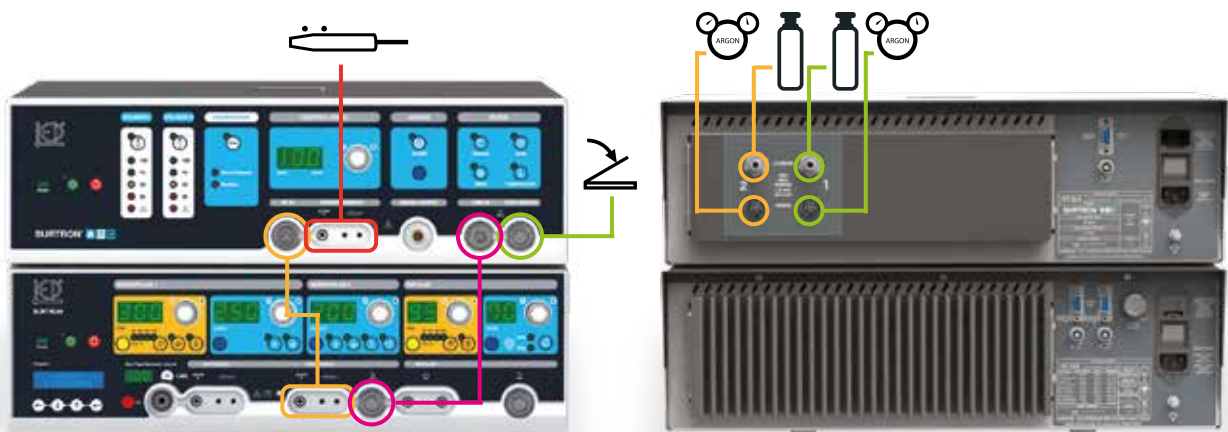


Reference code	10500.20
Input voltage	90-240 Vac
Mains frequency	50/60 Hz
Electrical input power	70 VA
Flow regulation	0.2 - 10 LPM
Maximum inlet pressure	3.0 bar (43,5psi)
Electrical Class	I CF
Size WxHxD mm	470x150x400
Weight	8 Kgs

SCAN HERE



READ MORE



Connection with SURTRON HP (Not included)

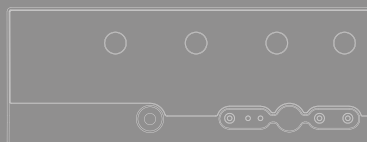
# SURTRON



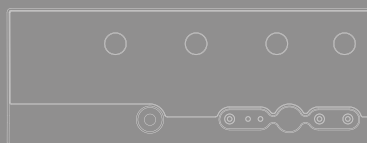
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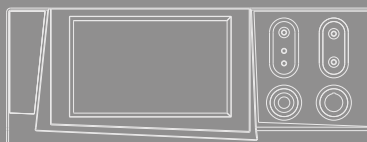
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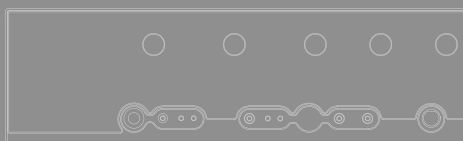
FLASH // FLASH HF



200



TOUCH 200



300 HP // 400 HP



EVAC



ABC





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