

DIATERMO MB 122 AND MB 160 MONO-BIPOLAR - 120W - 160W



• 30540 DIATERMO MB 122 - mono-bipolar - 120 W

• 30541 DIATERMO MB 160 - mono-bipolar - 160 W

MB 122 and 160 are HF electrocautery units suitable to perform middle monopolar or bipolar electrocautery.

By selection of the modes of operation they provide pure cut, coagulated cut, forced coagulation, soft coagulation and, with forceps, bipolar coagulation. The use of either split or normal neutral plate is allowed. MB 160 is recommended in case of damp operational fields, for instance mucous, with consequent need to have reserve of usable power. For these reasons, MB 160 is suggested for Gynecological and orthopedic surgery.

Leading-Edge Technology. This advanced concept device enables highly professional surgery intervention thanks to ergonomic and safety features derived from high power theatre apparatus.

Complete safety. Open Circuit (OC) Alarm warns the user that connection into the neutral plate has not been made or that the cable is disconnected or the neutral plate is not in contact with the patient. The alarm is signalled by an intermittent beep together with a flashing red light on the front panel. In this case HF emission for cut and coagulation operation is switched off.

OVT Alarm. The unit includes an internal circuit protection warning when the current delivery lasts too much.

Diatermo MB 122 - MB 160 standard accessories

- MB single-use two button handles
- MB operative foot-switch 30577 (usable as alternative to handle)
- MB flat neutral plate Power cable 2 m
- Kit of 6 (MB 122) or 10 (MB 160) short autoclavable electrodes, diam. 2.4 mm.
- User manual: available in English, Spanish, Italian, French, Polish

TECHNICAL SPECIFICATIONS

	MB122	MB160	Crest Factor
Minimum preselectable power	0	0	
Level step	1	1	
Maximum output power CUT (W)	120 250Ω	160 250Ω	1.5
Maximum output power BLEND (W)	90 200Ω	120 200Ω	2.1
Maximum output power COAG FORCED (W)	80 150Ω	100 150Ω	2.0
Maximum output power COAG SOFT (W)	60 100Ω	80 100Ω	1.7
Maximum output power BIPOLAR (W)	40 100Ω	60 100Ω	1.5
Working frequency	600 kHz	600 kHz	
Weight Kg	7	7	
Size LxHxD mm	260x110x265	260x110x265	
Operating voltage (switchable)	115 -230	115 -230	
Mains frequency (Hz)	50-60	50-60	
Fuses 230Vac (5x20) TIMED	2x 3.15A	2x 3.15A	
Fuses 115Vac (5x20) TIMED	2x 6.3A	2x 6.3A	
Electrical input power (VA)	300	350	
Electrical input current (230Vac) (A)	1.3	1.5	
Electrical input current (115Vac) (A)	2.6	3	
Five steps adjustable sound level (from 55- to 75dBA)	•	•	
Self-check	•	•	
Power accuracy output warning	•	•	
Split or not split patient plate allowed	•	•	
Last working condition storing	•	•	
Electrical Class (EN60601 - 1)	I CF	I CF	
MDD 93/42/EEC Class	II B	II B	
Patient circuit	F	F	

MONOPOLAR ELECTROSURGERY UNIT - 50W



• 30516 DIATERMO 106 - 50W - monopolar

This HF electrocautery unit, is particularly suitable for small operations and is recommended for dentistry, first aid and dermatology work. It offers precision of cut and immediate coagulation and give excellent results in a large range of applications: from uterine coagulation to microcoagulation in dermatology. The modes of operation, CUT, COAG and



TECHNICAL SPECIFICATIONS

Output power: CUT	50W/400 ohm
COAG	40W/400 ohm
BLEND	45W/400 ohm
Working frequency:	600 kHz ±10%
Size: 180x180x100 mm	Weight: 2.8 kg
Operating Voltage: 115/230 V - 50/60 Hz switchable	
Electric input power: 90 VA	Fuse: 2x1 AT
Alarm for overheating	Footswitch operating
Norms: EN60601-1 Class I CF, EN 60601-1-2 93/42/EEC (Class IIb)	
Made in Italy	Warranty: 12 months

STANDARD ACCESSORIES

- KIRKY single-use handle without buttons
- Standard foot-switch (30577)
- Rod neutral electrode and cable
- Kit of 6 short autoclavable electrodes, Ø 2.4 mm, length 5 cm
- Power cable 2 m - Shuko plug
- User manual: available in English, Italian, Spanish, French



BLEND, can be easily selected by a switch on the front panel. The complete isolation between patient and the unit and strict respect of international norms guarantee total safety.

MONO-BIPOLAR ELECTROSURGICAL UNITS 120W AND 160W



CASUALTY SURGERY
PEDIATRIC SURGERY*
PLASTIC SURGERY*
VASCULAR SURGERY
DERMATOLOGY
FIRST AID
OTORHINOLARYNGOLOGY
UROLOGY*
GYNAECOLOGY
VETERINARY
DENTISTRY**

*Diatermo MB160 only
**Diatermo MB120 only



- 30628 DIATERMO MB 120D - mono-bipolar - 120 W
 - 30629 DIATERMO MB 160D - mono-bipolar - 160 W
- MB 120D and MB 160D are high frequency electrocautery units suitable for minor and medium surgery. MB allow pure CUT, cut-coagulation BLEND, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and, with forceps, BIPOLAR coagulation. The digital reading of delivered power and the monitoring of operative function by microcontroller guarantees absolute reliability of working conditions. MB allow a highly professional surgery through ergonomic and safety features. The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. Possibility to control the output functions and the delivery of output power by the handle, allows the surgical operation without diverting attention from the surgical field.

Features:

- minimum invasive surgery
- possibility to use bipolar forceps
- possibility to use split neutral electrodes
- memorization of the last used settings
- power activation by pedal and/or handle
- digital adjustment and indication of the output power
- adjustment of the acoustic indicator intensity.



TECHNICAL SPECIFICATIONS

	MB 120D	MB 160D
Max output power CUT	120 W-250 Ω	160 W-250 Ω
Max output power BLEND	90 W-200 Ω	120 W-200 Ω
Max output power FORCED COAG	80 W-150 Ω	100 W-150 Ω
Max output power SOFT COAG	60 W-100 Ω	80 W-100 Ω
Max output power BIPOLAR	40 W-100 Ω	60 W-100 Ω
Working frequency	600 kHz	600 kHz
Patient circuit	F	F
Selectable input voltage	115 - 230 Vac	115 - 230 Vac
Mains frequency	50 - 60 Hz	50 - 60 Hz
Electrical input power	300 VA	350 VA
Size WxHxD mm	254x104x288	254x104x288
Weight	5 kgs	5 kgs
Controls:	Patient/Plate circuit monitoring, Output power monitoring, Self check control	
Safety:	EN60601-1, EN60601-1-2, EN60601-2-2, Electrical Class: I CF, MDD 93/42/EC Class: II b	

STANDARD ACCESSORIES

MB single use two button handle
Waterproof foot-switch 30577 (usable as alternative to handle)
MB flat neutral plate (30566) and cable (30559)
Kit of 10 short autoclavable electrodes, diam. 2.4 mm. Power cable: 2 m
User manual: English, Italian, available on request French, Spanish, Polish

MONOPOLAR ELECTROSURGERY UNITS 50W AND 80W



DENTISTRY
DERMATOLOGY
OUT PATIENT SURGERY
FIRST AID
VETERINARY*
VASCULAR SURGERY*
*Diatermo 80 only

TECHNICAL SPECIFICATIONS

	50	80
Max output power CUT	50 W-400 Ω	80 W-400 Ω
Max output power CUT/COAG1	45 W-400 Ω	-
Max output power CUT/COAG2	40 W-400 Ω	-
Max output power BLEND	-	60 W-400 Ω
Max output power COAG	40 W-400 Ω	50 W-400 Ω
Max output power MICRO	-	20 W-600 Ω
Working frequency	600 kHz	700 kHz
Patient circuit	F	F
Selectable input voltage	115 - 230 Vac	115 - 230 Vac
Mains frequency	50 - 60 Hz	50 - 60 Hz
Electrical input power	200 VA	230 VA
Size WxHxD mm	190x85x239	190x85x239
Weight	2.5 kg	2.5 kg
Controls:	Patient/Plate circuit monitoring, Output power monitoring, Self check control	
Safety:	EN60601-1, EN60601-1-2, EN60601-2-2, Electrical Class: I CF, MDD 93/42/EC Class: II b	

STANDARD ACCESSORIES

Single use handle
Waterproof foot-switch (30577)
Metal plate (30566) + cable (30559)
Kit of 6 short autoclavable electrodes, Ø 2.4 mm, length 5 cm (30501/2/4/7/9/10) see page 159
Power cable 2 m - Shuko plug
User manual: English, Italian, available on request French, Spanish

- 30625 DIATERMO 50 - monopolar
- 30626 DIATERMO 80 - monopolar

DIATERMO 50 and 80 are radiofrequency electrocautery units suitable for minor monopolar surgery. Diatermo 50 through the function selection makes pure cut, cut coagulation (CUT 1 - CUT 2) and pure coagulation possible. Diatermo 80 has a multifunction selector which makes cutting (CUT), cut coagulation (BLEND), coagulation (COAG) and micro-coagulation (MICRO) possible. The one-board microcontroller and digital display guarantee high safety and reliability under any conditions. They offer outstanding professional surgical results due to their ergonomic and superior safety features.



MONO-BIPOLAR ELECTROSURGICAL UNIT 200W



- OUTPATIENT SURGERY
- ENDOSCOPY
- FIRST AID
- GASTROENTEROLOGY
- GENERAL SURGERY
- GYNAECOLOGY
- NEUROSURGERY
- ORTHOPEDICS
- OTORHINOLARYNGOLOGY
- PEDIATRIC SURGERY
- PLASTIC SURGERY
- PNEUMOLOGY
- UROLOGY
- VASCULAR SURGERY
- VETERINARY

• 30630 DIATERMO MB 200D - 200 Watt

MB 200 is a high frequency electro-surgical equipment suitable for light and medium surgery, allows minimally invasive surgical procedure of resection, evaporation and coagulation.

MB 200 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. Digital reading of delivered power and surveillance through microcontroller of the operational functions, assure absolute reliability of working conditions.

MB 200 allows a highly professional surgery through ergonomic and safety features. The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. Possibility to control the output functions and the delivery of output power by the handle, allows the surgical operation without diverting attention from the surgical field.

- patient-to-plate contact control
- split return electrode use

STANDARD ACCESSORIES

- MB two-button handle (autoclavable code 30547)
- Waterproof MB foot-switch (30577)
- MB flat neutral metal plate (30566) with cable (30559)
- Kit 10 short standard electrodes, diam. 2.4 mm
- 3 needle + 3 blade + 3 ball electrodes 7 cm
- Power cable 5 m
- Manual: available in English, Italian

- minimally invasive surgical treatment allowed
- monopolar and Bipolar independent output
- auto Start/Stop in Bipolar Coag
- working condition planning
- power delivery by pedal and/or handle
- digital regulation and indication of the output power
- sound level control
- adjustable power increment



TECHNICAL SPECIFICATIONS

Maximum output power CUT	200W - 250Ω
Maximum output power ENHANCED	120W - 250Ω
Maximum output power BLEND	120W - 200Ω
Maximum output power FORCED COAG	150W - 150Ω
Maximum output power SOFT COAG	90W - 100Ω
Maximum output power BIPOLAR COAG	80W - 50Ω
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
Controls:	Patient/Plate circuit monitoring, Output power monitoring, Self check control
Safety:	EN60601-1, EN60601-2-2, EN60601-1-2, EN60601-2-2, Electrical Class: I CF, MDD 93/42/EEC Class: II b

DIATERMO MB 200 - MONO-BIPOLAR - 200W



• 30542 DIATERMO MB 200 - 200 Watts

DIATERMO MB200 is a HF electro-surgical unit suitable to perform middle monopolar or bipolar electro-surgery. The available waveforms and peak voltage value, as well as the accurate HF leakage current operation for polypectomy, TURP, intrauterine resections, endometriosis excision, etc. The units allow the accurate preset of the output power with as low as 1 Watt resolution and to perform coagulation by high crest factor current, to get an elevated thermal effect, as well as with low voltage low crest factor current, to get coagulation in absence of carbonization. Ten different programs related to ten different operative conditions could be stored and easily recalled by the surgeon. The use of either split or normal neutral plates are allowed. A special electronic circuit (Skin Plate Electronic Control) continuously checks if the plate is safely connected to the patient and detects unwanted short circuit in the connecting cable. An over time warning (OVT) is provided to prevent excessive heating of the tissue around the surgical target due to too long current delivery time.

DIATERMO MB 200 - STANDARD ACCESSORIES

- MB two-button handle (autoclavable code 30547) handle in beside picture is not correct
- MB waterproof foot-switch 30577 (usable in alternative to handle)
- MB flat neutral metal plate with cable
- Kit 10 short standard electrodes, diam. 2.4 mm
- Power cable 2 m
- Manual: available in English, Italian



TECHNICAL SPECIFICATIONS

Maximum output power CUT (W)	200	250Ω	1.5	Weight kg	8
Maximum output power CUT 90% (W)	200	250Ω	1.6	Size LxHxD mm	360x150x265
Maximum output power CUT 80% (W)	200	250Ω	1.7	Selectable mains power(Vac)	115 -230
Maximum output power CUT 70% (W)	200	250Ω	1.8	Mains frequency (Hz)	50-60
Maximum output power BLEND (W)	120	200Ω	2.1	Fuses 115Vac - 230Vac (5x20) TIMED	2x 6.3A - 2x 3.15A
Maximum output power COAG FORCED (W)	150	150Ω	2.0	Power accuracy output warning system	•
Maximum output power COAG SOFT (W)	90	100Ω	1.7	Split or not split patient plate allowed	•
Maximum output power BIPOLAR COAG (W)	100	100Ω	1.5	Electrical Class (EN60601 - 1)	I CF
Maximum output power BIPOLAR CUT (W)	120	250Ω	1.5	MDD 93/42/EEC Class	II b
Working frequency	600 kHz			Patient circuit	F
				Duty cycle (action/pause) in seconds	10/30

MONOPOLAR AND BIPOLAR ELECTROSURGICAL UNITS 120W AND 200W



- 30631 DIATERMO MB 120 FLASH
- 30633 DIATERMO MB 200 FLASH

MB FLASH are a High Frequency ElectroSurgical equipment suitable for precision monopolar and bipolar surgery and micro-surgery without tissue alterations.

MB FLASH allow surgical treatments with programmable timer operations up to milliseconds or with traditional mode.

MB FLASH allow 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. Digital reading of delivered power and the surveillance through microcontroller of the operational functions, assure absolute reliability of the working conditions.

MB FLASH allow a highly professional surgery through ergonomic and safety features.

TECHNICAL SPECIFICATIONS

	MB 120F	MB 200F
Max output power CUT	120 W-250 Ω	200 W-250 Ω
Max output power BLEND	90 W-200 Ω	120 W-200 Ω
Max output power ENHANCED	90 W-250 Ω	120 W-250 Ω
Max output power FORCED COAG	80 W-150 Ω	150 W-150 Ω
Max output power SOFT COAG	60 W-100 Ω	90 W-100 Ω
Max output power BIPOLAR COAG	60 W-50 Ω	80 W-50 Ω
Working frequency	600 kHz	600 kHz
RF power pulse emission time	10ms - 30sec	10ms - 30sec
RF power pulse interval	1 - 9	1 - 9
Patient circuit	F	F
Selectable input voltage	115 - 230 Vac	115 - 230 Vac
Mains frequency	50 - 60 Hz	50 - 60 Hz
Electrical input power	300 VA	350 VA
Size WxHxD mm	370x144x319	370x144x319
Weight	6 kg	6 kg
Controls: Patient/Plate circuit monitoring, Output power monitoring, Self check control		
Safety: EN60601-1, EN60601-1-2, EN60601-2-2, Electrical Class: I CF, MDD 93/42/EC Class: II b		

Connection of neutral electrode is constantly monitored.

Safety control of patient/plate contact using split neutral electrode. Possibility to control the output functions and the delivery of output power by handle, allows surgical operation without diverting attention from the surgical field.

Features:

- 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 planning
- power delivery by pedal and/or handle
- digital regulation and indication of the output power
- sound level control
- adjustable power increment
- RF power pulse emission time setting
- RF power pulse interval setting



STANDARD ACCESSORIES

- MB two-button autoclave handle
- Waterproof MB footswitch (30577)
- MB metal plate (neutral electrode 30566) and cable (30559)
- 2 disposable ground pads (30562)
- Kit 10 short standard electrodes Ø 2.4 mm
- 3 needle + 3 blade + 3 ball electrodes 7 cm
- Power cable 5m
- Microsurgery handle (30552)
- Microsurgery needles 10 pieces
- Manual: English, Italian



ELECTRODEPILATOR

- 28340 ELECTRO-DEPILATOR 400

This device ensures a definitive depilation with thermolitic method. It delivers a current of radiofrequency to cause the heating and consequent coagulation of the papilla, reached through the introduction of a needle into the follicle of the hair. Provided with highly reliable electronic integrated components, with RF intensity adjustable with continuity and luminous working signal.

It comes complete with footswitch, handpiece for depilation, depilation needle and power cable (2 m).

TECHNICAL SPECIFICATIONS

RF output frequency: 1.9 ±10% MHz	
Modulation: sinusoidal	
Maximum output power: 7 ±2Watt	
Size: 260x265x110 mm	Weight: 4 kg
Operating voltage: 115/230 V - 50/60 Hz switchable	
Norms: CEI 62-39 Class: I-BF	

- 30552 HANDPIECE FOR DEPILATION
- 30560 DEPILATION OR MICROSURGERY NEEDLES
- 30577 FOOTSWITCH



HOSPITAL HF ELECTROSURGICAL UNITS 240 AND 380 WATT



30690 CONTEMPORARY DUAL MODE MB 240 and 380 can be used in the same time in monopolar mode (by handle) and bipolar mode (by footswitch) A special electronic circuit (Skin Plate Electronic Control) continuously warns the plate to patient contact safety and unwanted short circuit in the connecting cable

- 30690 DIATERMO MB 240
- 30692 DIATERMO MB 380

These HF electrocautery units can be used to execute monopolar and bipolar surgery when high precision and reliability are essential, as in the endoscopic surgery.

EASY TO USE

Graphic icons allow an easy selection of the operation mode. All operating conditions and selected output controls are represented by bright digital indications.

CUT

The monopolar cut can be performed by pure sine current to obtain an incision with a minimum damage for the adjacent tissues and sure recovery for first intention.

Two different modes of modulation allow to reduce bleeding during monopolar cut. In the bipolar mode the cut can be effected by pure sine current.

HEMOSTASIS

When the surgical action requires the obliteration of a blood vessel the availability of currents with different coagulative powers enables this type of work both with monopolar and bipolar surgery.

FULGURATION

When it is necessary to cause a superficial necrosis of wide areas, protecting the deeper tissues, a special coagulant current that dehydrates the superficial layer of the tissue and reduces the possibility to damage those beneath is available for the operation.

OUTPUT CONTROL

Output power levels are adjustable through incremental

encoders that allow the exact pre-sets and repetition of the values. The output function is linearized and controlled by ultra-modern electronic micro-controllers which will interrupt power if any alarm condition happens.

SAFETY OF USE

Circuits dedicated to the safety of operator and patient are the priority. This ensure the leakage current is kept well under the international requirements values, whatever the output condition. Monopolar and bipolar output circuits are completely floating and the use of the defibrillator is allowed while the reference plate patient is connected.

RELIABILITY

DIATERMO MB uses all solid state electronic circuits and is made with interchangeable units for a fast and effective maintenance. Automatic control circuits protect the units from damage also in case of repeated improper use.



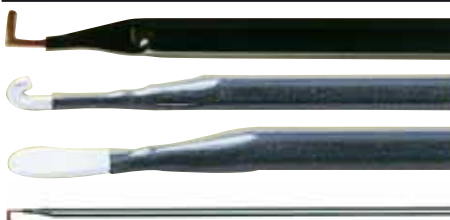
TECHNICAL SPECIFICATIONS DIATERMO MB 240/DIATERMO MB 380

Activation devices	Working frequency	Max power	Peak to peak voltage	Load resistance
Bipolar: footswitch	475 kHz	240/MB 380		
Dual: bipolar - footswitch monopolar - manual				
Monopolar: footswitch manual				
Mains: 115/230 Vac 50-60 Hz	Monopolar output			
Absorption: 800 VA	Cut output	250W/375W	1,4 kV	300 Ohm
Class I CF	Cut/coag 1 output	225W/340W	1,4 kV	300 Ohm
Weight: 15 kg	Cut/coag 2 output	200W/300W	1,4 kV	300 Ohm
Size: 370x470x150 mm	Coag 1 output	150W/225W	1,4 kV	300 Ohm
Warranty: 12 months (accessories not included)	Coag 2 output	100W/150W	1,4 kV	300 Ohm
Norms: IEC 601-2-2 - IEC 601-1 CE, 93/42/EEC	Coag 3 output (spray)	80W	4,2 kV	2000 Ohm
	Bipolar output			
	Cut output	90W	0,5 kV	100 Ohm
	Coag output	80W	0,5 kV	100 Ohm

STANDARD ACCESSORIES

- 1 - Power supply cord SIEM-CEE 5 m
- 1 - Two-button handle (autoclavable code 30547)
- 5 - Two-button handle (cold sterilizable)
- 1 - Cable for disposable plate
- 5 - Disposable plate
- 1 - Water proof double foot switch
- 3 - Short, general surgery blade electrode
- 3 - Long, general surgery blade electrode
- 3 - Short, general surgery needle electrode
- 3 - Short, general surgery ball electrode
- 1 - User manual (Italian, English, Spanish)
- 1 - Service manual (Italian, English)

LAPAROSCOPIC ELECTRODES



- 30605
- 30606
- 30607

Laparoscopic electrodes without suction for use with Diatermo MB 240/250/300/380/400 with connecting cable 4 mm (30609)

30605

GIMA code	LAPAROSCOPIC ELECTRODES
30605	L-Hook electrode - 36 cm
30606	J-Hook electrode - 36 cm
30607	Spatula electrode - 36 cm
30609	Monopolar cable - 4 mm - M - F

To generator

HIGH POWER ELECTROSURGICAL UNITS 300 AND 400 WATT



30635

- 30634 DIATERMO MB 300D
- 30635 DIATERMO MB 400D

DIATERMO MB300 and MB400 are high frequency electro-surgical equipments suitable to deliver current for monopolar cut and coagulated cut (with different levels of coagulation), bipolar cut and coagulation.

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 COAGULATION PROCEDURES

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

EXTENSIVE BIPOLAR FEATURES

- bipolar cutting current with selectable bleeding control
- slow BLEND cutting current

- automatic Start/Stop coagulation functions

SURGEON AND PATIENT TOTAL SAFETY-

- acceptability of contact impedance between patient body and return electrode continuously monitored by Skin Plate Electronic Control (SPEC)
- H.F. Leakage currents continuously monitored
- mains fluctuation automatically compensated before delivery of HF power

PERSONALIZED PROCEDURES

- independent choice of coagulation currents and power levels by each of two operators
- up to 10 procedures can be configured and re-called

EXTENSION DRIVER AND INTERLOCK SIGNALS

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

AUTOMATIC SELF DIAGNOSIS

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



30634

SUITABLE IN:
 OUTPATIENT SURGERY
 GENERAL SURGERY
 PAEDIATRIC SURGERY
 PLASTIC SURGERY
 THORAX SURGERY
 VASCULAR SURGERY
 DERMATOLOGY
 ENDOSCOPY
 GASTROENTEROLOGY
 GYNAECOLOGY
 NEUROSURGERY
 ORTHOPEDICS
 OTORHINOLARINGOLOGY
 PNEUMOLOGY
 UROLOGY
 VETERINARY

STANDARD ACCESSORIES

- 1 - Power supply cord 5 m
- 1 - Two-button handle (autoclavable code 30539)
- 5 - Two-button handle (cold sterilizable code 30551)
- 1 - Cable for flat plate (30559)
- 5 - Rem disposable ground pads (30565)
- 2 - HP double Water proof foot switch
- 3 - Short, general surgery blade electrode 7 cm
- 3 - Long, general surgery blade electrode 16 cm
- 3 - Short, general surgery ball electrode Ø 4 mm, 6 cm
- 1 - Electrode brush
- 1 - User manual (Italian, English)
- 1 - Service manual (Italian, English)

TECHNICAL SPECIFICATIONS MB300/MB400

	MB 300	MB 400
Maximum out power monopolar pure CUT	300 W - 300 Ω	400 W - 300 Ω
Maximum out power monopolar cut-coag CUT80%	250 W - 300 Ω	350 W - 300 Ω
Maximum out power monopolar cut-coag CUT60%	200 W - 300 Ω	250 W - 300 Ω
Maximum out power monopolar cut-coag CUT40%	150 W - 300 Ω	200 W - 300 Ω
Maximum out power monopolar cut ENHANCED	200 W - 500 Ω	250 W - 500 Ω
Maximum out power monopolar cut-coag BLEND	200 W - 300 Ω	250 W - 300 Ω
Maximum out power monopolar coag SPEEDY	100 W - 500 Ω	120 W - 500 Ω
Maximum out power monopolar coag DEEP	100 W - 200 Ω	120 W - 200 Ω
Maximum out power monopolar coag SPRAY	70 W - 2000 Ω	100 W - 2000 Ω
Maximum out power monopolar coag SPRAY ARGON	70 W - 2000 Ω	100 W - 2000 Ω
Maximum out power bipolar CUT	95 W - 150 Ω	95 W - 150 Ω
Maximum out power bipolar cut-coag CUT80%	95 W - 150 Ω	95 W - 150 Ω
Maximum out power bipolar cut-coag CUT60%	95 W - 150 Ω	95 W - 150 Ω
Maximum out power bipolar cut-coag CUT40%	60 W - 150 Ω	60 W - 150 Ω
Maximum out power bipolar cut-coag BLEND	90 W - 150 Ω	90 W - 150 Ω
Maximum out power bipolar cut-coag BLEND	70 W - 100 Ω	70 W - 100 Ω
Working frequency monopolar / bipolar	425 kHz / 525 kHz	425 kHz / 525 kHz
Patient circuit	F	F
Selectable input voltage	115-230 Vac	115-230 Vac
Mains frequency	50-60 Hz	50-60 Hz
Electrical input voltage	1000 VA	1000 VA
Size WxHxD mm	470x150x400	470x150x400
Weight	17.5 Kgs	17.5 Kgs
Controls: Patient/Plate circuit monitoring, Output power monitoring, Self check control		
Safety: EN60601-1, EN60601-1-2, EN60601-2-2, Electrical Class: I CF, MDD 93/42/EC Class: II b		



LOOP ELECTRODES Ø 2.4 mm

GIMA code	Reference number	LOOP ELECTRODES - Ø 2.4 mm autoclavable at 121° C	Shaft length	Electrode width	Electrode depth
30686	50	Square loop electrode	13 cm	10 mm	8 mm
30687	51	Loop electrode	13 cm	15 mm	8 mm
30688	52	Loop electrode	13 cm	20 mm	10 mm

ELECTRODES AND HANDLE Ø 4 mm

30480

- 30480 AUTOCLAVABLE MB HANDLE Ø 4 mm - 100 times Autoclavable handle up to 100 times for Ø 4 mm shaft electrodes with 3 m silicone cable and blade electrode.
- 30482 NEEDLE ELECTRODE Ø 4 mm
- 30483 BLADE ELECTRODE Ø 4 mm
- 30484 BALL ELECTRODE Ø 4 mm

S/S electrodes autoclavable 150 times. Sold in box of 5. Length 5.5 cm.

AUTOCLAVABLE ELECTRODES Ø 2.4 mm

GIMA code	Reference number	AUTOCLAVABLE ELECTRODES Ø 2.4 mm	Reference number	GIMA code
length 5 cm		minimum order: 6 pcs.	length 10 cm	
30501	1	Electrode wire 0.2 - straight	21	30521
30502	2	Electrode wire 0.2 - angled 45°	22	30522
30503	3	Electrode bend - Ø 4 - straight	23	30523
30504	4	Electrode bend - Ø 8 - straight	24	30524
30505	5	Electrode hook - angled 45°	25	30525
30506	6	Electrode wire 1 mm - angled 45°	26	30526
30507	7	Electrode straight slip-knot - straight	27	30527
30508	8	Electrode angled slip-knot - straight	28	30528
30509	9	Electrode ball point - Ø 3 mm - angled 45°	29	30529
30510	10	Electrode ball point - Ø 3 mm - straight	30	30530
30500	SET	Set of 10 electrodes	SET	30531
length 7 cm		minimum order: 10 pcs.	length 15 cm	
30511	15	Needle electrode	35	30532
30512	16	Blade electrode	36	30533
30513	17	Ball electrode	37	30534

5 cm long electrodes - reference number

10 cm long electrodes - reference number

7 cm

15 cm

AUTOCLAVABLE 100 TIMES

AUTOCLAVABLE 20 TIMES

SINGLE USE STERILE ELECTRODES Ø 2.4 mm

GIMA code	Reference number	SINGLE USE ELECTRODES Ø 2.4 mm	Reference number	GIMA code
length 7 cm		minimum order: 24 pcs.	length 15 cm	
Sterile electrode				
30670	13	Needle electrode - sterile electrode	33	30674
30671	11	Blade electrode - sterile	31	30675
30672	12	Ball Ø 4 mm electrode - sterile	32	30676
Sterile electrode				
-	-	Loop electrode - 15 mm x 8 mm	34	30678

N. 13

N. 11

N. 12

Length 7 cm

Length:

N. 34 13 cm

N. 33 15 cm

N. 32 15 cm

SINGLE USE, METAL AND RUBBER PLATES

30563 Cable

30495 Adult/pediatric REM disposable plate

30492 Adult disposable plate

30493 Adult REM disposable plate

30490 Pediatric disposable plate

30494 Adult/pediatric disposable plate

30563 (cable)

30575 (cable)

30566 (metal plate)

30573 (rubber plate 20x15 cm)

30574 (rem rubber plate)

- 30492 DISPOSABLE GROUND PADS WITH SOLID GEL - adult
 - 30490 DISPOSABLE GROUND PADS WITH SOLID GEL - pediatric
 - 30493 REM DISPOSABLE GROUND PADS WITH SOLID GEL - adult
 - 30563 CABLE FOR PLATES - 5 m
- Universal cable to connect plates (30490-30495) to diatermo. Safety lock with universal connection - bipolar Ø 6.3 mm plug.
- 30494 DISPOSABLE NON WOVEN GROUND PADS - adult/ped
 - 30495 REM DISPOSABLE NON WOVEN GROUND PADS - adult/ped

- 30573 RUBBER PLATE 20x15 cm - without cable
- 30574 REM RUBBER PLATE 20x15 cm - without cable
- 30575 CABLE FOR RUBBER PLATES
- 30566 METAL PLATE - without cable
- 30563 CABLE FOR PLATES - 5 m
- 30559 CABLE FOR PLATES - 2.5 m

MONOPOLAR HANDLES FOR ELECTRODES WITH Ø 2.4 mm

Valleylab connector HANDLES with 2 "click" push-buttons

GIMA autoclavable electrosurgery pencils with CUT-COAG switch have been studied and tested to offer maximum reliability and functionality to the operator. MB handles are provided with a 3 Pin plug Valleylab type fitting all Gima mono-bipolar Diatermo MB (120, 122, 132, 160, 200, 202, 240, 250, 380, 400) and most of bipolar electrosurgical units: Aspen Lab, ES Generator, EMC Statome, Danieli, Braun, Berchtold, Ohmeda, Ritter, Conmed, Eschmann, Bovie, Martin, Kontron, Bard, Birtcher 771, Cobi, Valleylab, Led, Erbe...

• **30554 MB AUTOCLAVABLE HANDLE - 100 times**
 Autoclavable handle with 2 large "click" push-buttons, provided with a 3 meter long silicone cable and a blade electrode. It can be autoclaved up to 100 times (electrode 20 times).
For electrodes Ø 2.4 mm

• **30545 MB AUTOCLAVABLE HANDLE - 100 times**
 Same as code 30554 but with a 5 m long silicone cable

• **30550 PRIMA MB AUTOCLAVABLE HANDLE - 60 times**
 Autoclavable handle with 2 large "click" push-button, provided with a 3 meter long silicone cable and a blade electrode. It can be autoclaved up to 60 times. **For electrodes Ø 2.4 mm**

• **30548 STAR AUTOCLAVABLE HANDLE - 30 times**
 Same as code 30554 but autoclavable up to 30 times (electrode is autoclavable up to 20 times). **For electrodes Ø 2.4 mm**

• **30539 ORION PLUS AUTOCLAVABLE HANDLE - 100 times**
 Same as 30554, but with a screw clamp locking system ensuring a safe contact and adapting to different electrode diameters. High insulation to prevent liquid damage. **For electrodes Ø 2.4 mm**

• **30551 KIRKY SINGLE-USE HANDLE - STERILE**
 Single-use handle with "click" push-buttons for cut and coag. Includes blade electrode. **minimum order: 10 pcs.**

• **30553 GIMA SINGLE-USE HANDLE - STERILE**
 Same as 30551 **minimum order: 10 pcs.**

1 pin plug HANDLES for diatermo 50, 80, 106, 108

These handles are provided with a 1 Pin socket (4 mm) fitting all Gima Diatermo and most of electrosurgical units in the market. These handles **do not have push-buttons**.

• **30519 AUTOCLAVABLE 50-80-106-108 HANDLE**
 Autoclavable handle without buttons, provided with a 3 meter long cable and a blade electrode. It can be autoclaved up to 50 times.

• **30518 KIRKY SINGLE-USE 50-80-106-108 HANDLE - STERILE**
 Single-use handle without button with blade electrode with 4 mm PIN connection. **minimum order: 10 pcs.**

MICROSURGERY

Microsurgery accessories for all GIMA Diatermo and electro-depilators

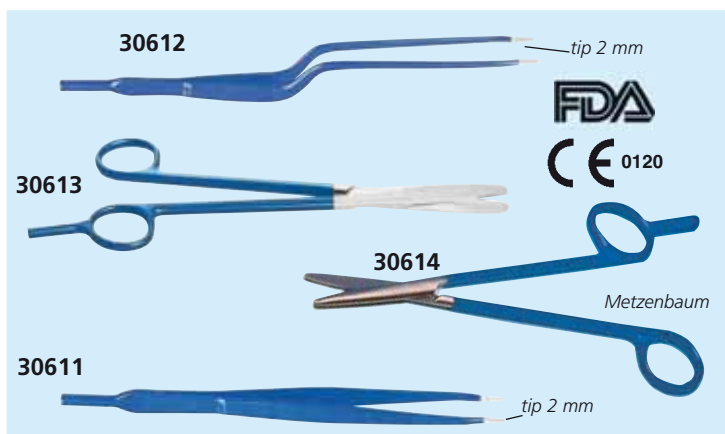
- **30552 MICROSURGERY HANDLE**
- **30560 MICROSURGERY NEEDLE**

ELECTRODE BRUSH

• **30537 ELECTRODE BRUSH - 50x50 mm**
 Disposable sterile radiopaque abrasive tip cleaner pad. Box of 100



MONOPOLAR FORCEPS, SCISSORS AND CABLES

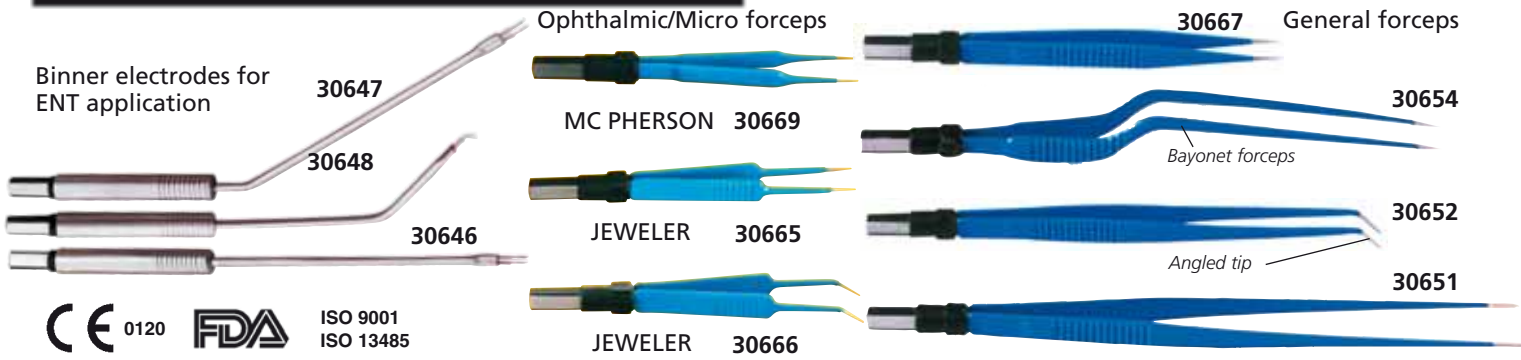


30610 Monopolar forceps are provided with a 4 mm connection for standard monopolar cables. These can be used with all Gima, LED, Erbe and many other electrosurgical units in the market.

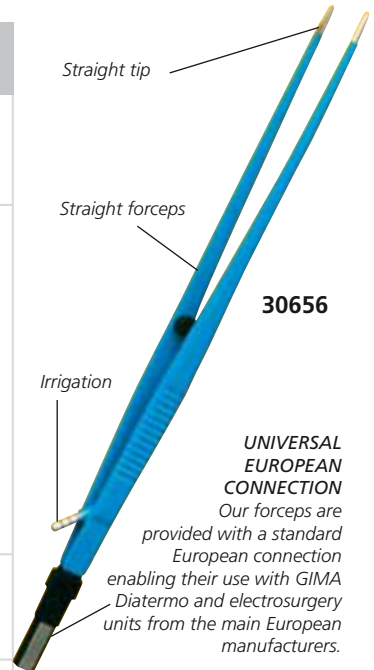
GIMA code	INSULATED MONOPOLAR INSTRUMENTS
30610	Monopolar cable - 4 mm pin
30611	Mc INDOE straight monopolar forceps 15 cm (6")
30612	Bayonet monopolar forceps - 20 cm (7 1/2")
30613	Monopolar scissors - straight - 18 cm (7")
30614	Metzenbaum monopolar scissors - straight - 18 cm (7")
30615	Metzenbaum monopolar scissors - curved - 18 cm (7")

UNIVERSAL HIGH QUALITY INSULATED BIPOLAR FORCEPS

EUROPEAN CONNECTOR BIPOLAR FORCEPS



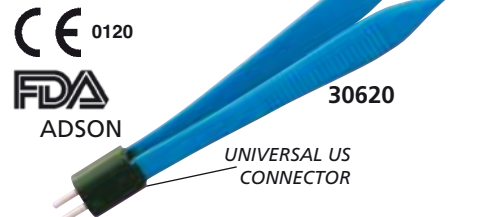
GIMA code	Model	Connector	Length		Tip style	Application	Tip size
			cm	inches			
30645	BINNER	EU	22 cm	8½"	ANGLED	ENT	-
30646	BINNER	EU	18 cm	7"	STRAIGHT	ENT	-
30647	BINNER	EU	18 cm	7"	ANGLED	ENT	-
30648	BINNER	EU	19 cm	7 "	ANGLED 45°	ENT	-
30650	STRAIGHT	EU	18 cm	7"	STRAIGHT	GENERAL	1 mm round points
30656	STRAIGHT with irrigation	EU	18 cm	7"	STRAIGHT	GENERAL	1 mm round points
30651	STRAIGHT	EU	20 cm	7¾"	STRAIGHT	GENERAL	1 mm round points
30658	STRAIGHT	EU	20 cm	7¾"	STRAIGHT	GENERAL	2 mm round points
30652	STRAIGHT	EU	18 cm	7"	ANGLED	GENERAL	1 mm round points
30653	STRAIGHT	EU	20 cm	7¾"	ANGLED	GENERAL	1 mm round points
30657	BAYONET	EU	16.5 cm	6½"	STRAIGHT	GENERAL	1 mm round points
30654	BAYONET	EU	18 cm	7"	STRAIGHT	GENERAL	1 mm round points
30655	BAYONET	EU	20 cm	7¾"	STRAIGHT	GENERAL	1 mm round points
30660	STRAIGHT	EU	18 cm	7"	ANGLED	GENERAL	0.3 mm points
30661	STRAIGHT	EU	18 cm	7"	STRAIGHT	GENERAL	0.3 mm points
30662	STRAIGHT	EU	20 cm	7¾"	STRAIGHT	GENERAL	0.3 mm points
30664	ADSON	EU	12.1 cm	6"	STRAIGHT	GENERAL	1 mm round points
30665	JEWELER 5	EU	11.5 cm	4½"	STRAIGHT	OPHTHALMIC/MICRO	0.25 mm points
30666	JEWELER 5	EU	11.5 cm	4½"	ANGLED	OPHTHALMIC/MICRO	0.25 mm points
30667	STRAIGHT	EU	15 cm	6"	STRAIGHT	OPHTHALMIC/MICRO	0.5 mm points
30668	STRAIGHT	EU	15 cm	6"	ANGLED	OPHTHALMIC/MICRO	0.5 mm points
30669	Mc PHERSON	EU	10.2 cm	4"	STRAIGHT	OPHTHALMIC/MICRO	0.5 mm points



US CONNECTOR BIPOLAR FORCEPS



GIMA code	Model	Connector	Length		Application	Straight tip Size
			cm	inches		
30620	ADSON	US	12.1 cm	4¾"	GENERAL/PLASTIC	1 mm round points
30621	SEMKIN	US	14 cm	5½"	GENERAL/PLASTIC	0.5 mm points
30622	CUSHING	US	15.9 cm	6¼"	GENERAL/PLASTIC	1 mm round points
30623	JANSEN BAYONET	US	17.8 cm	7"	GENERAL/PLASTIC	1 mm round points



EUROPEAN NON-STICK BIPOLAR FORCEPS

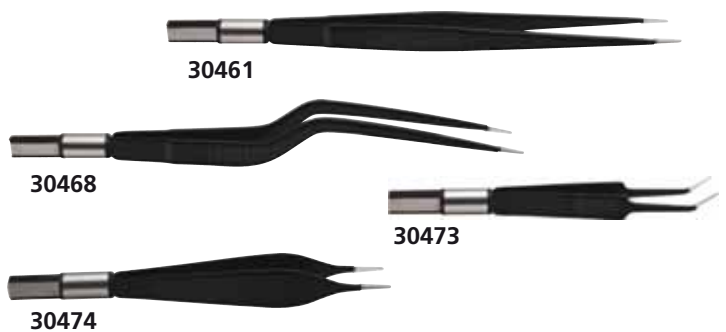


NON-STICK BIPOLAR FORCEPS

Thanks to new Ag-Tech non-stick technology, the forceps stay clean, virtually eliminating the need for cleaning during

coagulation. A tip material with excellent thermal properties prevents the sticking of tissues. The non-stick effect is permanent and will not reduce with the use of forceps.

GIMA code	Model	Connector	Length		Tip style	Tip size
			cm	inches		
30460	STRAIGHT	EU	15	6"	STRAIGHT	1 mm
30461	STRAIGHT	EU	18	7"	STRAIGHT	1 mm
30462	STRAIGHT	EU	20	7¾"	STRAIGHT	1 mm
30464	STRAIGHT	EU	18	7"	ANGLED	1 mm
30465	STRAIGHT	EU	20	7¾"	ANGLED	1 mm
30468	BAYONET	EU	18	7"	STRAIGHT	1 mm
30469	BAYONET	EU	20	7¾"	STRAIGHT	1 mm
30472	JEWELER	EU	11.5	4.5"	STRAIGHT	0.7 mm
30473	JEWELER	EU	11.5	4.5"	ANGLED	0.7 mm
30474	ADSON	EU	12.1	4¾"	STRAIGHT	1 mm

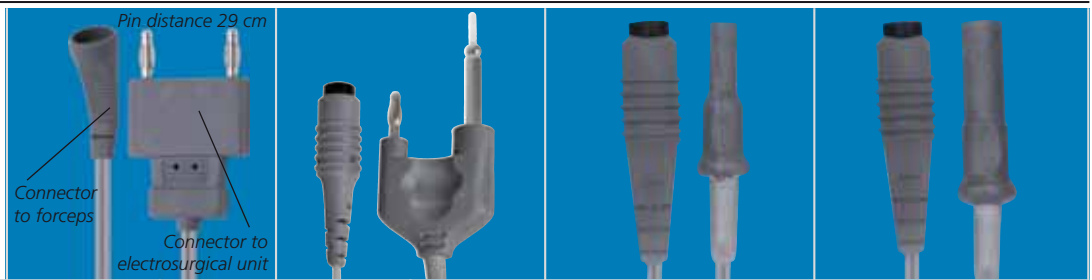


BIPOLAR CABLES FOR MAJOR BRANDS

Quality highly flexible silicone bipolar cables. Autoclavable at 134°C up to 70 times, 3 m long (10"). Suitable for most generators, with connector for European or US forceps.

• 30642 BIPOLAR CABLE ADAPTOR

30642



BIPOLAR CABLE	30640	30637	30643	30644	30639	30638
Connector to EU or US forceps	EU	US	EU	US	EU	EU
Compatibility list for brand and model	4 mm banana plug GIMA (MB120F/200F/200D/ 240/250/300D/380/400/400D) VALLEY LAB CONMED, CODMAN OLYMPUS		GIMA MB122, MB 122 D, MB132, MB160, MB 160D, MB200, MB202		MARTIN BERTHOLD AESCULAP WOLF	ERBE SELECT DOWN SIEMENS

FOOTSWITCHES AND BOARDS

GIMA code	FOOTSWITCHES FOR 50, 80, 106, MB 120, 122, 132, 160, 200, 202
30577	Waterproof MB footswitch - 2m cable
30578	Waterproof MB footswitch - 3m cable
	ANTIEXPLOSION FOOTSWITCH FOR MB 120, 122, 132, 160, 200, 202
30602	Double antiexplosion, water proof MB footswitch
	ANTIEXPLOSION FOOTSWITCHES FOR MB 240, 250, 300D, 380, 400, 400D
30603	Double antiexplosion, water proof footswitch - MB240-380
30604	Double antiexplosion, water proof footswitch - MB250-400-300D-400D
	MAIN BOARD
30557	Main board - specify model and serial number of diatermo with order
30558	Output board for MB 240, 250, 380, 400 - specify as above



It allows selection from pedal of CUT and COAG functions
Antiexplosion and waterproof.

ELECTROSURGERY SMOKE EVACUATOR

• 30450 SMOKE EVACUATOR

An aspiration and filtering system for the smokes produced during the surgical procedures.

The smokes, generated during the surgical procedures, have a bad, strong and persistent smell. These smokes consist of water vapour, organic gas, visible or invisible solid particles and viral parts. So a good aspiration and filtration eliminates bad smells, reduce the bacteriological and/or viral risks, and improves vision of the zone of the operation area during the laparoscopic procedures.

Activation of the aspiration can be:

- **Automatic**, through the remote electronic system of automatic survey of the activation of the high frequency electro-surgical unit

- **Manual**

- **Through a foot switch (optional)**

The aspiration flow can be adjusted to suit the specific needs.

For laparoscopic procedures there is a specific function L,

quickly selectable. Smoke evacuator has an electronic control of the aspiration with the indication of the wearing status of the filters. There are two different kinds of quickly replaceable ULPA type filters, with active carbons: the BLUE filter is the first filter and it is included with the unit for an initial time of use (5 hours), the RED filter is an optional spare part, developed for a long time use (20 hours).

They have connector of 7/8".

- 30452 ULPA FILTER (20 hours) RED - spare
- 30453 ASPIRATION KIT - box of 6
- 30454 HANDLE ASPIRATION KIT - sterile - box of 12
- 30577 WATERPROOF MB FOOTSWITCH - 2 m



TECHNICAL SPECIFICATIONS

Mains voltage	230 V (115 V on request)
Mains frequency	50/60 Hz
Electrical input power	800 VA
Max vacuum flow rate	1000 LPM (35 CFM)
Max static suction	250 mbar (83 in H ₂ O)
Filter type	ULPA with active carbons
Filter efficiency	99,999%
Particles diameter	0.12 micron
Size	370x144x319 mm
Weight	4 kg

STANDARD ACCESSORIES

ULPA filter (5 hours) blue
Aspiration kit (filter + pipe Ø 22 mm, length 2.4 m)
4 handle aspiration kit (adapter 10 mm / 22 mm , pipe Ø 10 mm, length 1.8 m, clip to fix the pipe to the handle, adapter to the handle)
Power cable

Supplied with box and manual in:
GB, FR, IT, DE, ES, NL, PL.
From web you can download:
GR, PT, TH, Arab.

HISTOFREEZER® CRYOSURGICAL SYSTEM 0543

- **30587 HISTOFREEZER®** - kit with applicator 2 mm
170 ml aerosol bottle and 60 applicators 2 mm.
- **30588 HISTOFREEZER®** - kit with applicator 5 mm
170 ml aerosol bottle and 50 applicators 5 mm.
- **30586 HISTOFREEZER®** - large kit mixed applicators
170 ml aerosol bottle, 30 applicators 2 mm,
30 applicators 5 mm.
- **30585 HISTOFREEZER®** - mini kit mixed applicators
One 80 ml aerosol bottle, 15 applicators 2 mm,
15 applicators 5 mm.



The Histofreezer® portable cryosurgical system is a low cost, highly effective cryosurgical agent. This therapeutic treatment makes use of local freezing for the controlled destruction or removal of living tissue.

Effective use on 9 benign lesion types

- Verruca Vulgaris (Common Warts)
- Verruca Plantaris (Plantar Warts)
- Molluscum Contagiosum
- Lentigo (Age Spots)
- Condyloma(Genital Warts)
- Seborrhic Keratosis
- Acrochordon (Skin Tags)
- Verruca Plana (Flat Warts)
- Actinic keratosis (Facial and Non-Facial)



2 mm disposable applicator for small lesions
5 mm disposable applicator for large lesions



CHARGE
custom applicator
press valve until
droplets start to form.



INVERT
canister
for 15 seconds for optimal
freezing temperature.



APPLY
a frozen
applicator to lesion
for 15-40 seconds.

Saturated 2 mm applicators will stay cold for 90 seconds.
Saturated 5 mm applicators will stay cold for 120 seconds.

CHANGE-A-TIP™ CAUTERIES WITH HIGH TEMPERATURES

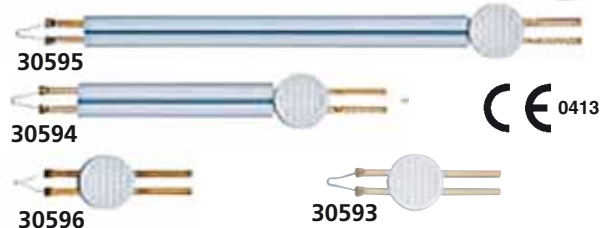
BOVIE CAUTERIES - made in USA

- interchangeable sterile tips
- replaceable batteries
- reusable handles
- no sterilization necessary



30590
(Fine tip, not sterile, included)

GIMA code	INTERCHANGEABLE TIP CAUTERIES MINIMUM ORDER: 10 TIPS	Recommended for:
30590	Cautery handle "AA" (tip included)	All tips
30593	High temp loop tip - sterile	DER/ENT
30594	High temp 2" flex loop tip - sterile	GYN/ENT
30595	High temp 5" loop tip - long size - sterile	GYNAECOLOGY
30596	High temp fine tip - sterile	DER/CARDIO



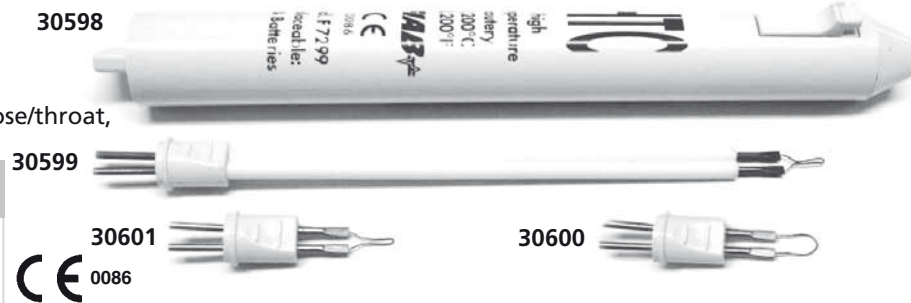
 0413

REUSABLE HIGH TEMPERATURE CAUTERY WITH REPLACEABLE TIP

- CAUTERIES - 1,200°C (2,200°F) - made in Italy
- interchangeable tips with nickel-chrome wire
- replaceable batteries
- reusable handles

Wide application in gynaecology, orthopedy, ear/nose/throat, dermatology, plastic and reconstruction surgery.

GIMA code	INTERCHANGEABLE TIP CAUTERIES MINIMUM ORDER: 10 TIPS
30598	Cautery handle "AA" (tip not included)
30599	High temp long fine tip - sterile - box of 10
30600	High temp large tip - sterile - box of 10
30601	High temp fine tip - sterile - box of 10



 0086

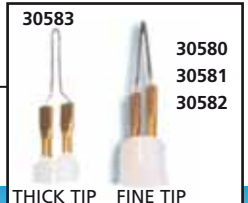
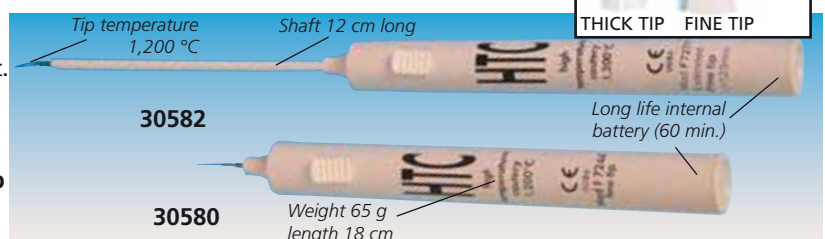
HIGH TEMPERATURE ELECTROCAUTERIES

- **30580 ELECTROCAUTERY** - 1,200 °C - fine tip - made in Italy
Electrocautery is a sterile bipolar battery operated disposable device for the cauterization of small vessels; the temperature of the tip is 1,200°C.

With a fine tip required in most of the surgeries.

- **30582 GYNAECOLOGY CAUTERY** - 1,200°C - fine tip
Same as 30580 but with the tip fixed on a 12 cm long shaft.
- **30581 ELECTROCAUTERY** - 600 °C - fine tip
Same as 30580 but with lower temperature = 600°C.
Especially designed for ophthalmology.
- **30583 EMERGENCY ELECTROCAUTERY** - 800°C - Thick tip
Same as 30580 but with "thick tip" for the perforation of nails in case of haematoma.

 0086



THICK TIP FINE TIP

Long life internal battery (60 min.)