



ME 102

The compact Electrosurgical Unit with high Capacity



The KLS Martin ME 102 is a 100-W class, universally applicable HF electrosurgical unit with excellent cutting and coagulation characteristics. It has been designed to satisfy the special demands of clinical and outpatient applications.

ME 102

The compact Electrosurgical Unit with high Capacity

Features at a glance

- Smooth or scabbed cut thanks to 100-W power generator
- 80-W bipolar output power
- Automatic power adaptation to different cutting speeds and tissue impedances
- Contact coagulation for fast hemostasis
- HF activation via manual switch or foot switch
- High-precision dosage thanks to stepless output power regulation for any mode of operation
- Easy and safe handling
- Clear front panel layout
- MICRO switch for high-precision and micro-surgery
- Neutral-electrode (NE) monitoring
- Bipolar "Auto-Coag-Start" function
- CF-type connection for utmost patient safety
- Memory function

KLS Martin **ME** 102 HF Surgical Unit



MICRO function

The MICRO function key of the KLS Martin ME 102 reduces output power to about one third. This allows high-precision power dosage by means of the 270-degree rotary switch. The MICRO function is available for all operating modes.

2 "Monopolar CUT" function

The KLS Martin ME 102 provides two different cutting currents:

- Monopolar cutting 1 for a smooth, scab-free cut
- Monopolar cutting 2 for a smooth cut with some scab formation

High degree of patient safety thanks to neutral-electrode (NE) monitoring

The integrated KLS Martin NE monitoring system automatically recognizes whether a single or a split neutral electrode is connected. In the latter case (using for instance KLS Martin Twin-Pad), the ME 102 ensures continuous NE monitoring. Whenever there is insufficient contact between the electrode and the patient, an optical and acoustical alarm signal is triggered and HF power output is blocked immediately.



4 Individual power setting

The large, 270-degree rotary switches allow straightforward and easy-to reproduce output power setting.

5 Socket for monopolar handles or instruments

The ME 102 allows connection of monopolar handles and instruments fitted with either the KLS Martin coaxial connector or a US 3-pin connector. The KLS Martin range of accessories provides a comprehensive selection of instruments for different indications.

6 Bipolar "automatic start" function

The KLS Martin ME 102 allows bipolar coagulation to be started automatically as soon as the two branches of the instrument get into contact with the tissue. Alternatively, the HF current may be activated via the foot switch.

Socket for the bipolar instrument

In many fields, bipolar coagulation is the method of choice. With its 80-W generator, the KLS Martin ME 102 is well suited to any bipolar application.

Ordering Data and Technical Data



Ordering Data

80-010-02-04	Electrosurgical unit KLS Martin ME 102
	with mains cable, without accessories

	80-108-00-04		Accessory set monopolar for ME 102 for hand switch operation, large, consisting of:
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	80-217-13-04	1	smartPen electrode handle with two pushbuttons,
			for 4-mm electrodes, with KLS Martin plug
	80-332-03-04	1	Rubber neutral electrode, 8 x 16 cm,
			with connection cable of 4 m
	80-370-50-04	1	Rubber band, with holes, 50 cm
	80-371-01-04	1	Button for rubber band
	80-408-00-01	1	Electrode box for 8 electrodes
	80-505-00-04	1	Cleaning pad for electrodes, sterile packed,
			SU = 100/pack
	80-510-04-04	1	Lancet electrode, straight
	80-515-04-04	1	Knife electrode
	80-520-04-04	1	Needle electrode
	80-540-04-04	1	Wire loop electrode, Ø 5 mm
	80-542-04-04	1	Wire loop electrode, Ø 10 mm
	80-560-04-04	1	Ball electrode, Ø 2 mm
	80-562-04-04	1	Ball electrode, Ø 4 mm

80-108-01-04		Accessory set monopolar for ME 102 for foot switch operation, large, consisting of:
80-220-02-04	1	smartPen electrode handle without pushbuttons,
		for 4-mm electrodes, with KLS Martin plug
80-332-03-04	1	Rubber neutral electrode, 8 x 16 cm,
		with connection cable of 4 m
80-370-50-04	1	Rubber band, with holes, 50 cm
80-371-01-04	1	Button for rubber band
80-408-00-01	1	Electrode box for 8 electrodes
80-505-00-04	1	Cleaning pad for electrodes, sterile packed,
		SU = 100/pack
80-510-04-04	1	Lancet electrode, straight
80-515-04-04	1	Knife electrode
80-520-04-04	1	Needle electrode
80-540-04-04	1	Wire loop electrode, Ø 5 mm
80-542-04-04	1	Wire loop electrode, Ø 10 mm
80-560-04-04	1	Ball electrode, Ø 2 mm
80-562-04-04	1	Ball electrode, Ø 4 mm
80-823-02-04	1	Double-pedal foot switch, with connection cable of 5 m
		UI J III

80-108-02-04		Accessory set monopolar for ME 102
		for hand switch operation, small, consisting of:
80-217-13-04	1	smartPen electrode handle with two pushbuttons,
		for 4-mm electrodes, with KLS Martin plug
80-332-03-04	1	Rubber neutral electrode, 8 x 16 cm, 4 m cable
80-372-00-04	1	Textile band with velcro strap, 90 cm
80-505-00-04	1	Cleaning pad for electrodes, sterile packed,
		SU = 100/pack
80-511-04-04	1	Lancet electrode, angled
80-515-04-04	1	Knife electrode
80-520-04-04	1	Needle electrode
80-562-04-04	1	Ball electrode, Ø 4 mm





Our Accessories Catalog contains KLS Martin's entire range of electrosurgical instruments.

Just contact us to get your personal copy!

Technical Data	
Power requirements	115 V/230 V; 50/60 Hz
Line fuses	115 V: T 2,0 A
	230 V: T 1,0 A
Power input	without HF output approx. 16 VA, at max. power output approx. 180 VA
Class of protection	T.
Nominal frequency	500 kHz
Modulation frequency	30 kHz
Mode of operation	intermittent INT 10 s/30 s; corresponds to a duty factor of 25%

HF output values	
Type of current:	
Macro Mode	Power
Cut 1	max. 100 W at 600Ω
Cut 2	max. 90 W at 600Ω
Contact coagulation	max. 70 W at 600Ω
Bipolar coagulation	max. $80W$ at 100Ω
Type of current:	
Micro Mode	Power
Cut 1	max. $30W$ at 600Ω
Cut 2	max. $30W$ at 600Ω
Contact coagulation	max. $25W$ at 600Ω
Bipolar coagulation	max. $25W$ at 100Ω

Interference suppression	Limit values as per EN 55011 and IEC 60601-2-2
Interference immunity	as per IEC 801
Classification as per MDD	IIb
LF and HF leakage currents	as per IEC 60601-2-2
Type of equipment	CF; defibrillator-proof
Dimensions	Width 256 mm
	Height 97 mm
	Depth 320 mm
Weight	approx. 4.6 kg
CE Marked	in conformity with 93/42/EEC

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