

SEAL II



Universal electrosurgical platform with microprocessors of the latest generation providing energies adapted in real time to the evolution of the tissues (Power Feedback)

Reference: V10GMS

370 W Full electrosurgical unit



370 W complete electrosurgical unit, with a wide range of monopolar and bipolar effects

Endocut



Specific waveforms dedicated to endoscopic polypectomy

Argon system



Argon Plasma Coagulation with the optional Argon module for a complete solution for the hepatic and endoscopic surgery





The gold standard of bipolar plasma resection dedicated to bipolar TUR and hysteroresection





A unique all-in-one system, which can seal, dissect and cut, dedicated to ENT and other delicate procedures

Vessel sealing



Safe and efficient up to 7 mm diameter, with an acoustic validation signal at the end of the sealing cycle

LAMIDEY NOURY MEDICAL

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SPECIAL FEATURES

- Friendly use: digital interface
- Saving 99 personal programs
- 3 High Frequency outlets: 1 monopolar, 1 bipolar and 1 vessel sealing
- Saline cut under saline irrigation with PLASMA EDGE™ technology: -

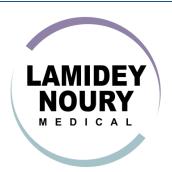


- TURP/TURB
- Intra-uterine resection TCRE
- Full range of single use *PLASMA EDGE*™ compatible electrode



- Optional module for Argon Plasma Coagulation
- Recognition of the vessel sealing instruments
- Reusable cutting and sealing forceps:
 - * THERMOCISION™ forceps:
 - Completely reusable
 - Dissection, sealing and cutting of the vessels in one act
 - * *THERMOCUT*™ forceps:
 - Completely reusable and autoclovable
 - Safe and efficient sealing up to 7 mm diameter vessels
 - Completely dismountable for a full cleaning
 - Single use blade
 - Cable not attached
 - * THERMOCLAMP™ forceps:
 - Completely reusable
 - Open surgery forceps in 16, 22 and 32 cm

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INPUT FEATURES		
Main supply	220 - 240 V ~ (or option 110 - 120 V ~), 50/60 Hz	
Safety	Class 1, CF type	
Maximum power	1200 VA (600 W)	
OUTPUT FEATURES		
Waveform	Pure sinewave and pulsed sinewaves	
Fundamental frequency	450 kHz	
Modulation frequency	21 kHz	

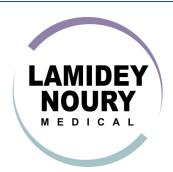
MONOPOLAR CUTS		
FORCED PURE CUT	$370W/450\Omega$, forced cut	
BLEND 1	$340W/450\Omega$, forced cut with a light hemostatic effect	
BLEND 2	330 W $/$ 450 Ω , forced cut with a deep hemostatic effect	
ENDO 1 / ENDO 2	$200W/250\Omega$, for gastrointestinal endoscopy (polypectomies)	
MONOPOLAR CUTS UNDER LIQUID (Glycine solution)		
MONOPOLAR RESECTION	350 W / 450 Ω , for transurethral resection of the prostate (TURP) or the bladder (TURB) and hysteroscopic resection (TCRE)	
MONOPOLAR COAGULATIONS		
SOFT COAGULATION	170 W / 250 Ω , soft contact coagulation for vascular surgery, pediatric and microsurgery	
DESSICATION	210 W / 450 Ω , forced contact coagulation for all surgeries	
FULGURATION	$100W/750\Omega$, non-contact coagulation (spray coagulation) for hemostasis of large area	
Coagulation with ARGON ¹ (in option), gas flow: 0 to 10 L/min		
Co	pagulation with ARGON '(in option), gas flow: 0 to 10 L/min	
ARGON PLASMA COAGULATION	oagulation with ARGON '(in option), gas flow: 0 to 10 L/min Coagulation by ionized gas, 100 W / 750 Ω (open surgery)	
ARGON PLASMA		

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PLASMA EDGE™ CUTS UNDER LIQUID ² (NaCl 0,9%)		
GREEN POWER	TURB and TCRE (intra-uterine resection)	
BLUE POWER	TURP	
ORANGE POWER	TURP and TCRE (intra-uterine resection)	
PURPLE POWER	TURP, TURB and TCRE, for coagulation in saline	
BIPOLAR COAGULATIONS		
SOFT COAGULATION	100 W / 25 Ω , soft coagulation, for neurosurgery and laparoscopic surgery on vascularized tissues	
FORCED COAGULATION ²	170 W / 75 Ω , for all tissues (<i>vascularized and adipose</i>)	
SALINE PLASMA COAGULATION ²	130 W / 75 Ω , for resections under saline solution	

Note 2: The output power displays in the modes covered by this note are relative displays. (see the power curves in the technical manual of the device)

VESSEL SEALING SYSTEM

Maximum power: 150 W / 30 Ω

Sealing of vascular walls up to 7 mm of diameter with reusable vessel sealing forceps

The jaws are fully insulated: thermal spread doesn't exceed 2 mm

Reverse action mode for *THERMOCUT*™ handle: clamping pressure is higher than 700 mmHg

 $THERMOCLAMP^{TM}$ forceps for open surgery, with a vessel clamping device

THERMOCUT™ 10 mm diameter forceps for open surgery (20 cm) and laparoscopy (30 cm), with vessel autoclamping system and integrated cutting system, straight jaws width 10 mm

THERMOCUT™ 5 mm diameter forceps for open surgery (20 cm) and laparoscopy (30 cm), with vessel autoclamping system and integrated cutting system

THERMOCISION ™ forceps for dissection, hemostasis and cutting in one act (thyroidectomies)

Automatic output power pre-adjustment following connected forceps

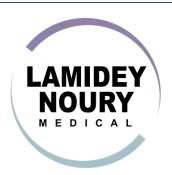
 $THERMOCONTROL^{TM}$ program: vessel sealing process monitoring, with sound signal at the end of the cycle and diagnosis of vessel sealing incident

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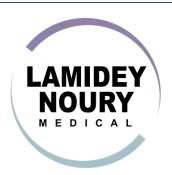


ERGONOMICS		
User interface	Keyboard	
HF power display	Digital display of the maximum power (Watt max.)	
Adjustments	1 W / step for power < 50 W 5 W / step for power > 50 W	
Memorizations	Storage of the setting parameters: selections of cut and coagulation modes, powers adjustments	
Automatic bipolar coagulation	Automatic activation and stop of the bipolar coagulation, by sensing of tissues contact impedance on the forceps tips	
Personal programs	Memorization of the surgeons' personal adjustments (possible memorization of 99 personal adjustments)	
MONOPOLAR OUTPUTS	1 outlet for international plugging for hand switches with a 3-pin in-line plug, or for cable with one 4 mm diameter male plug	
BIPOLAR OUTPUTS	1 outlet for plugging for cables with 2-pin 4 mm diameter male plug (interaxial spacing 28.5 mm) or for cables with 3 pins of <i>PLASMA EDGE™</i> electrode. 1 outlet for cable with multifunction plug for recognition of forceps	
Twin footswitches	socket for controls in: Monopolar and bipolar cuts Monopolar and bipolar coagulations	
Single footswitch	2 sockets for controls in: • Bipolar coagulations • Vessel sealing / THERMOCISION™	
Hand controls	Hand switches for monopolar cuts and coagulations control and for vessel sealing control on <i>Thermocut</i> ™ cables	

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SAFETIES		
Neutral electrode safety	Monitoring of the skin contact with a single use adhesive split plate Audible and visual alarm in case of a contact failure or a short circuit, or an electrical discontinuity with inhibition of the HF power Compatible with adult and pediatric plates	
Single plates	Monitoring of the electrical continuity between the unit and the neutral electrode	
HF power control	Monitoring of the emitted HF power, with an automatic emission shutdown in case of an excessive HF power (IEC 60601-2-2)	
HF leakage currents	I_{HF} < 100 mA / 200 Ω (< 130 mA / 200 Ω in fulguration mode)	
Electrical safeties	Class 1, CF type (<i>I_{LF}</i> < 1 μA in Normal Conditions) Defibrillation proof applied parts Short circuit protection > 10 s	
Thermal safeties	Forced ventilation	
HF output voltage	Regulated (automatic limitation of the voltage)	
Limitation of the activation time	Automatic stop after one minute of continuous activation. The normal working is restored after the interruption of the control	
Auto checking	When powered on, the unit checks all the connected accessories and internal circuits	

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