



French leader in electrosurgery since 1947

## 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

**PLASMA™**  
EDGE



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

**THERMOCISION**



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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RCS Evry 445 145 105 • Siret 445 145 105 00018 • TVA FR 49445145105 • Code APE 3250A



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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

**PLASMA**  
**EDGE**

- 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 autoclavable
- Safe and efficient sealing up to 7 mm diameter vessels
- Completely dismantlable 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	
<i>Main supply</i>	220 - 240 V ~ (or option 110 - 120 V ~), 50/60 Hz
<i>Safety</i>	Class 1, CF type
<i>Maximum power</i>	1200 VA (600 W)
OUTPUT FEATURES	
<i>Waveform</i>	Pure sinewave and pulsed sinewaves
<i>Fundamental frequency</i>	450 kHz
<i>Modulation frequency</i>	21 kHz

MONOPOLAR CUTS	
<i>FORCED PURE CUT</i>	370 W / 450 Ω, forced cut
<i>BLEND 1</i>	340 W / 450 Ω, forced cut with a light hemostatic effect
<i>BLEND 2</i>	330 W / 450 Ω, forced cut with a deep hemostatic effect
<i>ENDO 1 / ENDO 2</i>	200 W / 250 Ω, for gastrointestinal endoscopy (polypectomies)

MONOPOLAR CUTS UNDER LIQUID ( <i>Glycine solution</i> )	
<i>MONOPOLAR RESECTION</i>	350 W / 450 Ω, for transurethral resection of the prostate (TURP) or the bladder (TURB) and hysteroscopic resection (TCRE)

MONOPOLAR COAGULATIONS	
<i>SOFT COAGULATION</i>	170 W / 250 Ω, soft contact coagulation <i>for vascular surgery, pediatric and microsurgery</i>
<i>DESSICATION</i>	210 W / 450 Ω, forced contact coagulation for all surgeries
<i>FULGURATION</i>	100 W / 750 Ω, non-contact coagulation (spray coagulation) for hemostasis of large area

Coagulation with ARGON <sup>1</sup> (in option), gas flow: 0 to 10 L/min	
<i>ARGON PLASMA COAGULATION</i>	Coagulation by ionized gas, 100 W / 750 Ω (open surgery)
<i>PULSED ARGON PLASMA</i>	Coagulation by ionized gas by impulsions, 100 W / 750 Ω (gastrointestinal endoscopy)

Note 1: ARGON modes require an optional module for the control of the Argon gas flow

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PLASMA EDGE™ CUTS UNDER LIQUID <sup>2</sup> (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 <sup>2</sup>	170 W / 75 Ω, for all tissues (vascularized and adipose)
SALINE PLASMA COAGULATION <sup>2</sup>	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™ 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™ 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	
<i>User interface</i>	Keyboard
<i>HF power display</i>	Digital display of the maximum power (Watt max.)
<i>Adjustments</i>	1 W / step for power < 50 W 5 W / step for power > 50 W
<i>Memorizations</i>	Storage of the setting parameters: selections of cut and coagulation modes, powers adjustments
<i>Automatic bipolar coagulation</i>	Automatic activation and stop of the bipolar coagulation, by sensing of tissues contact impedance on the forceps tips
<i>Personal programs</i>	Memorization of the surgeons' personal adjustments ( <i>possible memorization of 99 personal adjustments</i> )
<i>MONOPOLAR OUTPUTS</i>	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
<i>BIPOLAR OUTPUTS</i>	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
<i>Twin footswitches</i>	1 socket for controls in: <ul style="list-style-type: none"> <li>• Monopolar and bipolar cuts</li> <li>• Monopolar and bipolar coagulations</li> </ul>
<i>Single footswitch</i>	2 sockets for controls in: <ul style="list-style-type: none"> <li>• Bipolar coagulations</li> <li>• Vessel sealing / <i>THERMOCISION™</i></li> </ul>
<i>Hand controls</i>	Hand switches for monopolar cuts and coagulations control and for vessel sealing control on <i>THERMOCUT™</i> cables

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SAFETIES	
<i>Neutral electrode safety</i>	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
<i>Single plates</i>	Monitoring of the electrical continuity between the unit and the neutral electrode
<i>HF power control</i>	Monitoring of the emitted HF power, with an automatic emission shutdown in case of an excessive HF power (IEC 60601-2-2)
<i>HF leakage currents</i>	$I_{HF} < 100 \text{ mA} / 200 \Omega$ ( $< 130 \text{ mA} / 200 \Omega$ in fulguration mode)
<i>Electrical safeties</i>	Class 1, CF type ( $I_{LF} < 1 \mu\text{A}$ in Normal Conditions) Defibrillation proof applied parts Short circuit protection $> 10 \text{ s}$
<i>Thermal safeties</i>	Forced ventilation
<i>HF output voltage</i>	Regulated (automatic limitation of the voltage)
<i>Limitation of the activation time</i>	Automatic stop after one minute of continuous activation. The normal working is restored after the interruption of the control
<i>Auto checking</i>	When powered on, the unit checks all the connected accessories and internal circuits

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