The System 5000™
Electrosurgical Unit (ESU)

The standard in consistent energy delivery, the System 5000™ unites proprietary dynamic response technology with an array of specialty modes for desired clinical effect.
A Perfect Combination of Reliability and Precision

Since its introduction, the System 5000™ electrosurgical unit (ESU) has become synonymous with performance, precision and reliability. Trusted around the world, the versatility of the System 5000™ meets a variety of procedure-specific energy output needs including General, Laparoscopic and Robotic surgery. The System 5000™ has been formally validated for use with the da Vinci Surgical System with a custom energy activation cable allowing seamless activation from the da Vinci console.

“Controlled energy that delivers the desired clinical effect to tissue is critical!”

Dynamic Response Technology

This proprietary technology delivers optimal clinical effects through continuous synchronization of current and voltage. It samples the current and voltage 450,000 times per second which enables it to respond to tissue impedance changes in less than 10 milliseconds. This means the System 5000™ achieves optimum energy output levels quicker and more accurately – ensuring that only the precise voltage needed is safely delivered to each tissue type.

“I want my procedures to be as safe as possible. I’m concerned about coupling and inadvertent tissue damage.”

Lap Mode

Unlike other generators which limit voltage only in Cut Mode, The System 5000’s Lap Mode effectively limits voltage in all Monopolar modalities to below 2,700 volts, providing you peace of mind. This unique safety feature significantly reduces the risk of coupling and inadvertent burns during laparoscopic and robotic surgery.

“Minimizing blood loss through hemostasis is important.”

Pulse Coag Mode

This unique mode provides pulsing bursts of coagulation energy—resulting in precise hemostasis with less tissue carbonization than standard coag at equivalent power settings. By pulsing coagulation energy on and off every 2.5 milliseconds, Pulse Coag technology safely delivers higher peak power with an effective lower average power.
“There are a million things to do during surgery. It helps that the System 5000™ is easy to work with.”

The System 5000™ is remarkably easy to learn and use. Every unit features an ergonomic design and intuitive interface. There are no hidden menus to find and scroll through when in use. Features like user-programmed memory settings and modes that automatically optimize energy output make using and adjusting these generators fast and simple. The user programmable settings help to quickly switch between the preferred settings for a specific procedure or a specific surgeon.

“There are a million things to do during surgery. It helps that the System 5000™ is easy to work with.”

“Versatility is critical: I need equipment that can adjust to the many OR needs of my hospital.”

Integrated with ConMed AER DEFENSE™ Smoke Evacuation System

Safe surgical smoke evacuation is critical in the OR. The System 5000™ can be seamlessly integrated with the ConMed AER DEFENSE™ smoke evacuation system, where it automatically triggers the smoke evacuation only when energy is activated. The GoldVac™ & ClearVac™ Smoke Evacuation pencils as well as ConMed Laparoscopic Tubing can be effectively used with this great feature.

“The feature rich System 5000™ is surprisingly affordable”

Modular Design

The System 5000™ offers stacking adapters to accommodate the ConMed Altrus® Thermal Fusion system for vessel sealing or a second System 5000™ to support your advanced energy needs. Unlike ESU’s with built in features such as vessel sealing that add thousands of dollars to the overall purchase price, the modular System 5000™ gives you the choice to integrate only the features you need when you need them.

For over a decade, the System 5000™ has earned a global reputation as one of the most durable electrosurgical generators in the world. This longstanding reputation of unwavering performance and service has earned the System 5000™ a place in the most advanced and respected military and civilian Operating Rooms around the world.
DISPERSED ELECTRODE PORTAL

- Universal Accessory Portal
- Advanced Specialty Modes (3 Modes)
- Automatic Return Monitor (ARM®)
- 9 Programmable Memory Settings
- Multiple CUT Modes (4 Modes)
- Pulse CUT Mode
- Dispersive Electrode Portal
- ReadiPlug® Universal Accessory Portal

SYSTEM 5000™
ESU
The System 5000 is compatible for use with the da Vinci S & Si surgical robot systems.
Customer Testimonials

“I’ve seen significantly less charring and smoke when using ConMed’s System 5000™ in Laparoscopic mode. The power delivery is precise and perfectly controlled during Robotic Surgery.”

– Dr. Domenico Savatta,
Chief of Minimally Invasive Adult Urologic Surgery,
Newark Beth Israel Medical Center

“I use the System 5000™ ESU in Pulse Coag mode during surgery. The pulsed coagulation provides controlled power delivery for rapid hemostasis without producing too much heat causing necrosis.”

– Dr. Paul G. Saccone,
Plastic Surgery,
Overlook Medical Center and Newark Beth Israel Medical Center

“I began to research Electrosurgery units for our department several years ago. We owned older ESU technology that needed replacing. I first saw the System 5000™ at an AORN conference and knew right away the ESU’s we needed for our department. The System 5000 has the bipolar capabilities we were looking for. The audible and visual display is very important to our GYN physicians. Additionally, the micro and macro settings make our ENT physicians happy as well. We are very pleased to have purchased the System 5000 units in our department and look forward to adding more when budget allows.”

– Candy Riley,
RN, CNOR, Educator,
Florida Hospital Winter Park
The System 5000™ provides advanced, easy-to-use specialty modes for a wide range of clinical indications. These pre-programmed modes establish a precise baseline of safe energy output.

**General Mode**
General Mode provides the full energy performance of our Dynamic Response Technology – immediately detecting, and automatically adjusting to, changes in tissue impedance. This mode is typically used in all forms of general and specialty surgery.
*Specialty: General Surgery, Urology, Gynecology*

**Lap Mode**
Lap Mode technology limits output voltages below 2,700 volts in all of the System 5000’s Monopolar modalities. Lap mode is designed to help reduce the potential risk of inadvertent burns from capacitive coupling from excess voltage.
*Specialty: Robotic Surgery, All Minimally Invasive Procedures*

**Fluids Mode**
Fluids Mode technology effectively “kick starts” the initiation of surgical energy providing an immediate clinical effect in high load/low impedance conditions. This mode is typically used in surgical procedures where there are fluids at the surgical site.
*Specialty: Urology, Gynecology, Arthroscopic procedures*

**Pulse Coag Mode**
Pulse Coag technology provides pulsing bursts of coagulation energy for more control of hemostasis at the operative site. Result: visibly less tissue carbonization with unsurpassed precision and control.
*Specialty: General Surgery*

**Pulse Cut Mode**
Pulse Cut technology provides control of cutting depth for critical dissections necessary for Endoscopic retrograde cholangiopancreatography (ERCP).
*Specialty: Gastrointestinal (GI)*

**Micro Bipolar Mode**
Micro Bipolar technology is ideal for fine and precise coagulation. Ideal for procedures which require narrow margins using specialized bipolar forceps.
*Specialty: Neurology, ENT*

**Macro Bipolar Mode**
Macro Bipolar technology is ideal for more energy intensive bipolar applications which require wider margins of coagulation.
*Specialty: General Surgery, Endoscopy, Urology, Gynecology*
### Product Specifications

<table>
<thead>
<tr>
<th>Mode</th>
<th>Watts</th>
<th>Max Peak Voltage</th>
<th>Crest Factor (Typical)</th>
<th>Frequency (KHz)</th>
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<tbody>
<tr>
<td>Monopolar</td>
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<tr>
<td>Pure Cut</td>
<td>300</td>
<td>800</td>
<td>1.4-1.7</td>
<td>391</td>
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<tr>
<td>Blend 1 Cut</td>
<td>200</td>
<td>860</td>
<td>1.5-1.9</td>
<td>391</td>
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<td>Blend 2 Cut</td>
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<td>1100</td>
<td>1.8-2.4</td>
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<td>Blend 3 Cut</td>
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<td>1480</td>
<td>2.4-2.9</td>
<td>391</td>
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<tr>
<td>Special Features – Pulse Cut</td>
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<tr>
<td>Pinpoint Coag</td>
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<td>2120</td>
<td>3.7-4.6</td>
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<tr>
<td>Standard Coag</td>
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<td>Spray Coag</td>
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<td>6350</td>
<td>7.1-9.7</td>
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<td>Special Features – Pulse Coag</td>
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<tr>
<td>Micro Bipolar</td>
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<tr>
<td>Macro Bipolar</td>
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<td>1.6-2.0</td>
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### Output Control System

- **Dynamic Response**
  - 9 Memory Locations
- **Set-Up and Power Setting Memory**
  - 9 Memory Locations
- **Warranty**
  - 2 Yrs Standard
  - 7 Yrs Extended
- **Contact Quality Monitoring System (CQM)**
  - Improved ARM
- **CQM Range/Trip Point**
  - 10-7500 / 30%
- **Cooling System**
  - Convection/Fan
- **Power Display Accuracy**
  - 10% or 3W @ Rated Load
- **Technology**
  - Isolated RF Output
- **Self Diagnosis**
  - - General Mode
  - - Fluids Mode
  - - Laparoscopic Mode
  - - Pulse Cut
  - - Pulse Coag
  - - ReadPlug Universal Accessory Portal
  - - Remote Power Control
  - - Bipolar Output Meter

### Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
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<tr>
<td>System 5000™ ESU, 120V</td>
<td>60-8005-001</td>
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<tr>
<td>System 5000™ ESU, 100V – 240V (Symbols Front Panel)</td>
<td>60-8005-002</td>
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<td>System 5000™ ESU, 100V – 240V (English Front Panel)</td>
<td>60-8005-003</td>
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<td>Includes a System 5000™ – 120V ESU, Mobile Pedestal, Upper Storage Basket, Lower Storage Basket, Monopolar Footswitch, Bipolar Footswitch (English Front Panel)</td>
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<td>Includes a System 5000™ – 100V to 240V ESU, Mobile Pedestal, Upper Storage Basket, Lower Storage Basket, Monopolar Footswitch, Bipolar Footswitch (Symbols Front Panel)</td>
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<td>Includes a System 5000™ – 100V to 240V ESU, Mobile Pedestal, Upper Storage Basket, Lower Storage Basket, Monopolar Footswitch, Bipolar Footswitch (English Front Panel)</td>
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<td>Includes a ‘120V System 5000™ ESU, Mobile Pedestal, Upper Storage Basket, Lower Storage Basket, Mobile Pedestal, Monopolar Footswitch, Bipolar Footswitch, AER DEFENSE® Smoke Evacuator and Vacuum Control Assembly (English Front Panel)</td>
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<td>Mobile Pedestal including Upper and Lower Storage Baskets</td>
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<td>Monopolar Footswitch</td>
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<td>Bipolar Footswitch</td>
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<td>AER DEFENSE® Smoke Evacuator – 100/120V (includes AC Power Cord, 4” ESU Activation Cable, and Operator’s Manual – Filters sold separately)</td>
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<td>AER DEFENSE® Smoke Evacuator – 220/240V (includes 4” ESU Activation Cable – Filters sold separately)</td>
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<td>AER DEFENSE® FilterOne™ ULPA (2/case)</td>
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<td>Smoke Evacuator Vacuum Control Assembly</td>
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### Customer Service Information

- **Phone**: 1-800-448-6506
- **International Sales**: 1-315-797-8375
- **Fax**: 1-800-438-3051
- **Email**: info@mail.conmed.com