

COMMODITY DESCRIPTION

H.S. NO	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
		Electrosurgical system, general-purpose	1	set

A. FEATURES :

1. This device is an electrosurgical unit utilizing high-frequency current. By connecting electrodes, it is used for cutting or coagulation during surgical procedures or medical incisions.
2. Particularly when used for medical procedures, cutting and coagulation proceed simultaneously with the operation of the CUT Switch. This function enables safe and rapid procedures by allowing the operator to adjust the cutting depth, coagulation time, and the cycle of cutting and coagulation according to their preference, the patient's condition, and the state of the tissue.
3. It can also be used to coagulate blood for hemostasis after surgery or procedures using argon gas. Notably, it offers various hemostasis modes, allowing for selection tailored to the specific purpose of both surgical and medical procedures.

B. CONSIST OF :

1. Electrosurgical unit 1 set
 - Coagulation module
2. Accessories
 - 1) Pressure gauge 1 ea
 - 2) Remote 2-pedal foot switch 1 ea
 - 3) 1-pedal foot switch 1 ea
 - 4) System cart 1 ea
 - 5) Operating manual 1 copy
 - 6) Service Manual (Included Circuitary information for troubling-shooting) 1 copy

C. SPECIFICATIONS :

1. Cut
 - 1) Monopolar PRECISE CUT (Option)
 - Normal HF output power at least 50 watts $\pm 20\%$
 - Maximum voltage automatic adjustment 390 Vp
 - 2) Monopolar AUTO CUT
 - Normal HF output power at least 300 watts $\pm 20\%$
 - Maximum voltage automatic adjustment 740 Vp
 - 3) Monopolar HIGH CUT
 - Normal HF output power at least 300 watts $\pm 20\%$
 - Maximum voltage automatic adjustment 1040 Vp
 - 4) Monopolar DRY CUT
 - Normal HF output power at least 200 watts $\pm 20\%$



- Maximum voltage automatic adjustment 1450 Vp
- 5) Monopolar ENDO CUT IQ
 - Normal HF output power at least 170 watts (Endo CUT Q: 400 watts +0%,-20% / Endo CUT I: 170 watts $\pm$ 20%)
 - Endo-Cut Q mode: automatic adjustment of maximum voltage 770 Vp
 - Endo-Cut I mode: Max voltage auto-regulation 550 Vp
- 6) Bipolar CUT
 - Normal HF output power at least 100 watts $\pm$ 20%
 - Max voltage auto-regulation 740 Vp

2. Coagulation

- 1) Monopolar SOFT COAG
 - Normal HF output power at least 200 watts $\pm$ 20%
 - Max voltage auto-regulation 190 Vp
- 2) Monopolar SWIFT COAG
 - Normal HF output power at least 200 watts
 - Max voltage auto-regulation 2500 Vp
- 3) Monopolar FORCED COAG
 - Normal HF output power at least 120 watts $\pm$ 20%
 - Max voltage auto-regulation 2000 Vp
- 4) Monopolar SPRAY COAG
 - Normal HF output power at least 120 watts $\pm$ 20%
 - Max voltage auto-regulation 4300 Vp
- 5) Bipolar SOFT COAG
 - Normal HF output power at least 120 watts $\pm$ 20%
 - Max voltage auto-regulation 200 Vp
- 6) Bipolar FORCED COAG
 - Normal HF output power at least 90 watts $\pm$ 20%

3. Argon Plasma Coagulation

- 1) Automatically identifies and sets the instrument during setup
- 2) Checking gas volume
- 3) Warning message for inaccurate product operation
- 4) Operating status can be checked via monitor
- 5) Program saving (99 preset programs) and setup
- 6) Gas flow control and function error warning
- 7) Storage space for spare cylinders and active cylinders
- 8) Flow Regulation
 - Adjustable in steps of 0.2 L/min
 - Fine-tuning of dosage in small increments
- 9) Range of regulation / Argon gas flow
 - From 0.1 L/min to 9.0 L/min, regulated
 - Automatic gas consumption control



- Automatically adjusts the regulated gas consumption
- 10) Use of Argon Incision and Hemostasis
 - Supply voltage plus or minus 10%: 100 - 230V
 - Supply frequency: 50/60 Hz
 - Current input: 0.3 Amp
- 11) Argon Plasma Coagulation Mode
 - Pulsed APC: EMR, ESD
 - Forced APC: EST, Polyp
 - Precise APC: Esophagus, Colon
- 12) External Gas Controls
 - Automatic adjustment of gas cylinder full level
 - Displays audibly and verbally when gas is at minimum level
- 13) Automatic Cutting to polypectomy, EMR, ERCP(EST) or normal cutting
 - HF output power at least 300 Watts
 - At least 4 different hemostasis effects
 - Spark controlled fractionated cutting mode (Endo Cut P/S)
 - Activation by only hand switching pencil
 - Activation by footswitch with Remode control function

D. REMARKS :

1. Installation

- Supplier or contractor should be responsible for installation of this equipment.

2. Warranty

- Supplier or contractor should be responsible for free of charge after - service whatever there is any defect or any trouble for three years after being accepted by customer.
- If contractor and supplier do not supply appropriate service manual, the period of time for warranty is six years.
- If a warranty of less than three years is provided for all or part of the equipment, it is separately described in section B. Consist of.

3. Etc.

- If there is a request from the user department, the supplier provides hospital computer data linkage (1-year warranty) such as EMR, PACS, and LIS free of charge, and the procedures of data link should be proceeded with the department of medical information in KYUNGPOOK NATIONAL UNIVERSITY HOSPITAL.
- The operating system required for operating the equipment should be based on Win11Pro. In case of lower versions, the supplier must report to the KNUH Information Security Team and should perform free upgrades of the operating system and operating software according to future equipment updates.

