

Heal Force OR Series

EB05 High Frequency Surgical Unit EB05-AR Argon Coagulation Unit



CE 0123

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EB05 High Frequency Surgical Unit



Features

Multiple Working Modes

- Monopolar cut - pure cut
- Monopolar cut - blend cut 1
- Monopolar cut - blend cut 2
- Monopolar cut - blend cut 3
- Monopolar coagulation - point
- Monopolar coagulation - soft
- Monopolar coagulation - spray
- Bipolar cut - standard
- Bipolar coagulation - standard
- Bipolar coagulation - precise

Completely Isolated Power Output

CF isolated output makes the unit applicable for any operations, even the cardiac surgeries.

Return Electrode Inspection & Identification

Single and dual return electrodes are identified automatically. The system measures contacting area between patient skin and return electrode, and displays information on control panel. In case electrodes drop off, output current is cut off automatically and immediately to protect patients from hurt, meanwhile, the visual and acoustic alarms are activated.

Trouble Shooting

Malfunction code is displayed on control panel to indicate errors and problems which may occur and guide for trouble shooting.

Output Adjustment

Responding to different tissues, the power output is adjusted automatically.

Dually-controlled Power Output

To keep the system not exceed the safe range of output current, 2 CPUs are applied for dual control. The protecting CPU inspects the output current and the control CPU momentarily, and cuts off the output current immediately if overloaded or out of control.

Double Monopolar Coagulations

Sometimes a surgery needs 2 operators to work together. EB05 provides 2 receptacles to allow 2 hand control pencils (or 1 hand control and 1 foot control pencil) to work on monopolar coagulation simultaneously.

TUVP (Transurethral Vaporization of Prostate)

With consistent quality of vaporization, safe hemostasis and uniform coagulation depth, EB05 is easy to implement the TUVP operation.

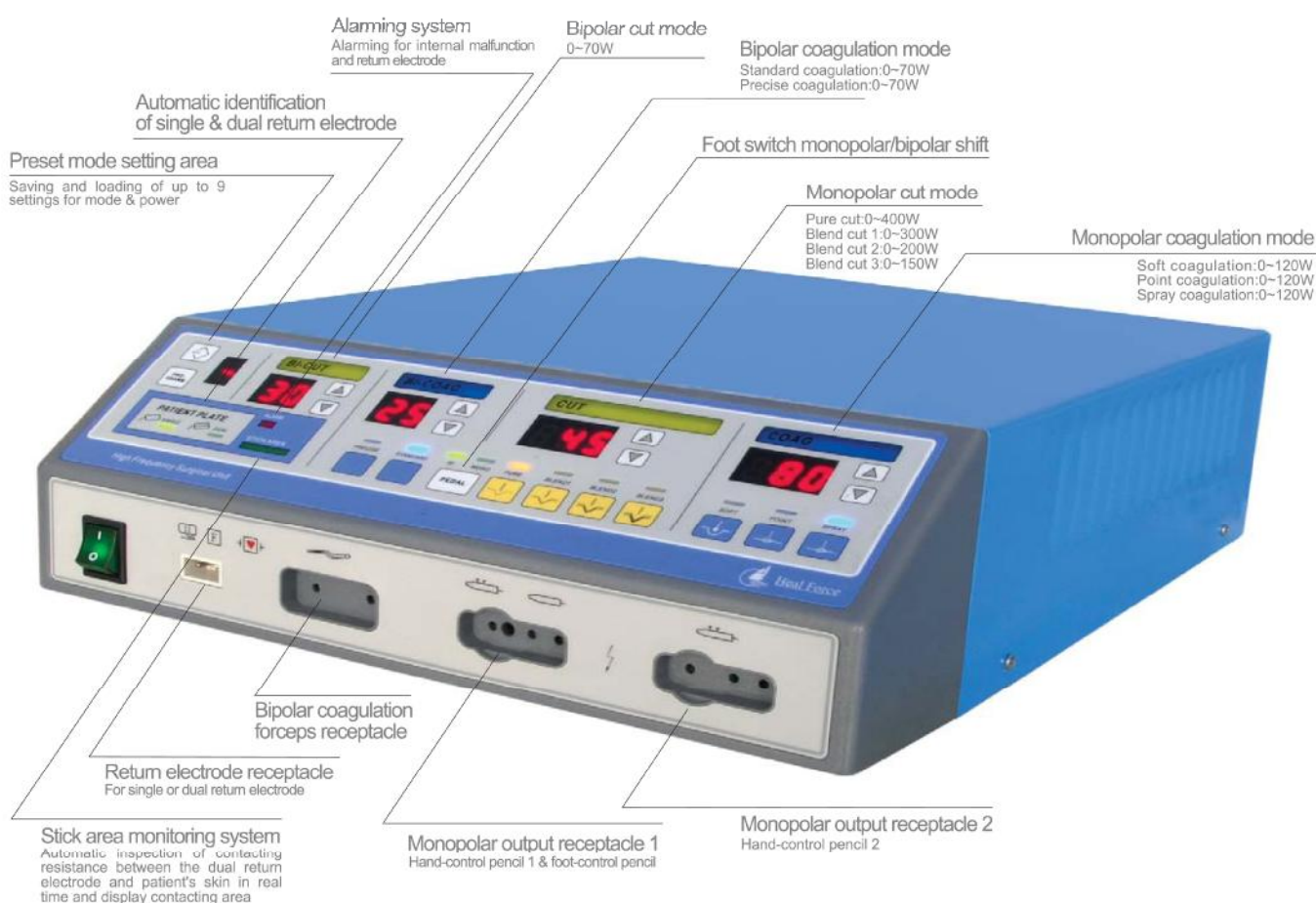
Customization

The power and working modes are customizable, and up to 9 settings of power and mode options can be saved.

Argon coagulation

Compatible with Heal Force EB05-AR argon coagulation unit, EB05 supports argon coagulation function.

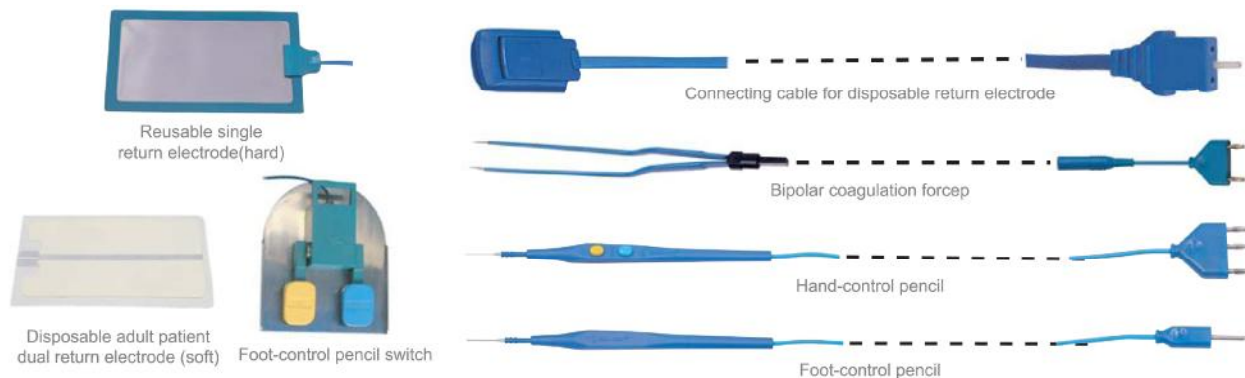
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EB05 Technical Specifications

Working Mode	Power	Max.Open Voltage/Vp-p	Load
Monopolar Cut			
Pure cut	400W	2300V	500Ω
Blend cut1	300W	2700V	500Ω
Blend cut2	200W	3200V	500Ω
Blend cut3	150W	3700V	500Ω
Monopolar Coagulation			
Soft	120W	3400V	500Ω
Point	120W	5600V	500Ω
Spray	120W	8500V	500Ω
Bipolar Cut			
Standard	0-70W	1450V	500Ω
Bipolar Coagulation			
Standard	0-70W	360V	200Ω
Precise	0-70W	240V	500Ω
Dimensions(W×H×D)	525×410×160mm		
Weight	15Kg		
Rated Voltage	230V/50Hz, 110V/60Hz(optional)		

Standard Accessories

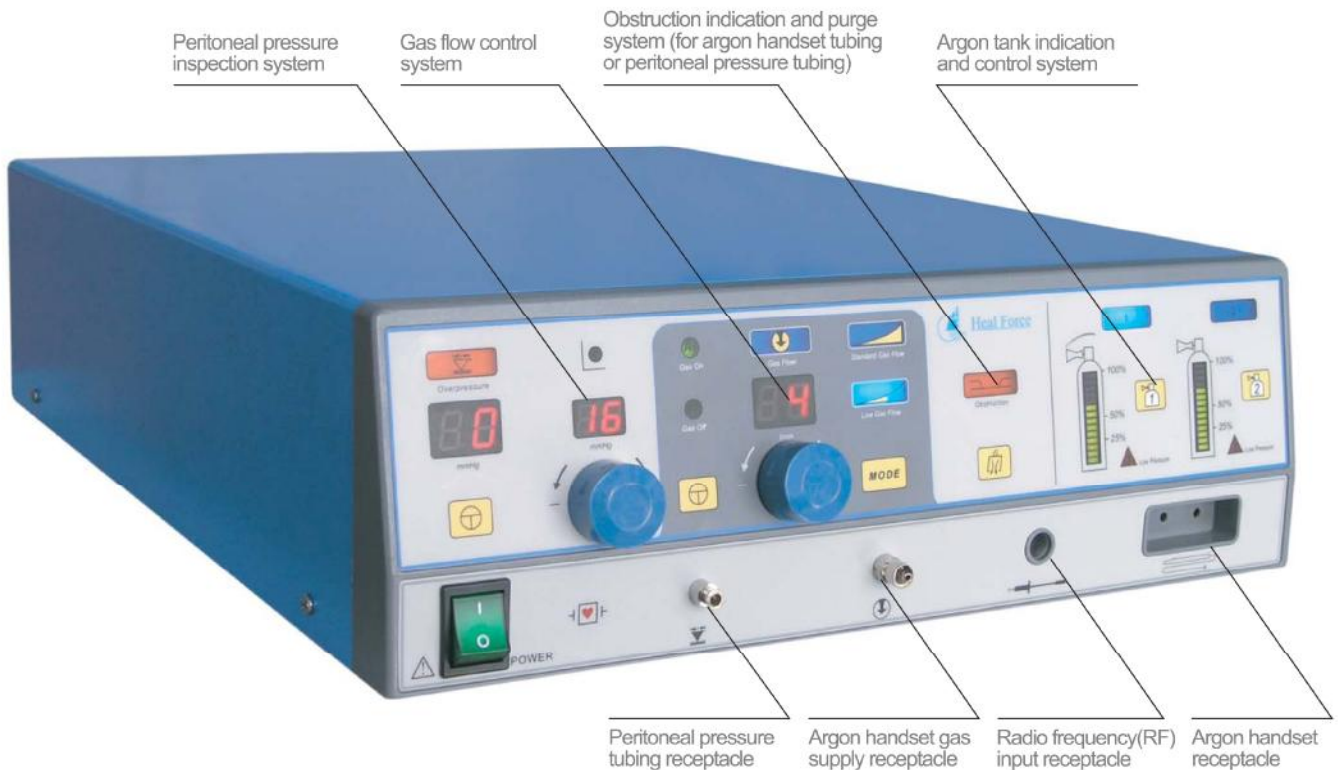


Optional Accessories



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EB05-AR Argon Coagulation Unit



Features

The EB05-AR argon coagulation unit, an optional accessory for Heal Force EB05 high frequency surgical unit, is designed to provide controllable argon flow over the active electrode.

With the help of EB05-AR, the surgeons can expect:

- Non-contact procedure, no sticking of the instrument tip to the tissue
- Effective surface coagulation and hemostasis
- Controllable penetration depth
- Extremely low risk of perforation
- Low level of carbonization and smoke, very little pollution and odor
- Few complications

Overpressure System

The low gas mode (0.5~4 LPM) of EB05-AR is beneficial for laparoscopic operation to avoid excessive peritoneal pressure, in addition, a peritoneal pressure tube is also available for real time peritoneal pressure inspection to cut off gas in case of overpressure.

Gas Flow Options

Two gas flow modes are optional for the argon-enhanced electrosurgeries, besides the standard gas flow mode (range 0.5~12LPM), which is universally use in routine surgical applications, the low gas flow mode (0.5~4 LPM) is also available for laparoscopic operations to avoid overpressure.

Functions on Control Panel

- Overpressure system (active in low gas mode only)
- System purge control
- Gas flow control
- Gas tank indicators and control
- Receptacles for gas line, RF input, peritoneal pressure tubing and handset

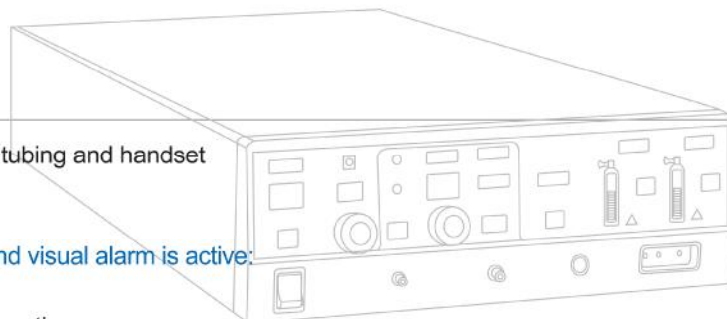
Alarm System

In case of the following errors or problems, the audio and visual alarm is active:

- Handset tubing obstruction
- Overpressure of gas flow, especially in laparoscopic operations
- Peritoneal pressure tubing obstruction

Automatic Gas Tank Switch

The system is able to switch to backup gas tank automatically in case the pressure of working gas tank drops below threshold, without interruption of gas flow in handset.



EB05-AR Technical Specifications

Gas Flow Ranges		Overpressure Monitoring	
Low Flow Mode	0.5~4LPM±15% of full scale	Audio and visual alarm, threshold customerizable	
Standard Flow Mode	0.5~12LPM±15% of full scale	Storage & Shipping Conditions	
Working Conditions		Temperature	-40°C~+55°C
Temperature	10°C~40°C	Relative Humidity(RH)	≤95%
Relative Humidity(RH)	≤80%	Air Pressure	500kPa~1060kPa
Air Pressure	860kPa~1060kPa	Weight and Dimensions	
Power Supply	AC230/50Hz, AC110/60Hz(optional)	Net Weight	12.5Kg
Gas Filters		Dimension(L×W×H)	555×410×155mm
Internal - 0.3 micron, external - 5 micron			

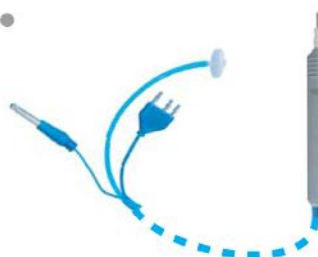
Standard Accessories



EB05 interface cable



Argon gas tank regulator assembly



Argonplus handset



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