Analyticals Medical Technologies Pvt. Ltd.

ECO®

Low Temperature · Less Damage · Painless Coagulation

ECO ENT RF Plasma Surgical System

ECO-800CI (ECO-802A) — For ENT

What is ECO RF Plasma Surgical System?

Under the low frequency electric field of 100kHz, a plasma thin layer with a thickness of about 100 μm is formed around the electrode by normal saline. The plasma thin layer is composed of high-energy ions. These particles have enough kinetic energy to break the organic molecular bonds of the target tissue and make it vaporized and cracked into gas.

The low-temperature plasma technology of ECO can realize the functions of tissue cutting, ablation and coagulation at a low temperature of 40-70°C, which can effectively avoid the defects of high temperature, deep damage, large amount of bleeding, and negative plate sticking.

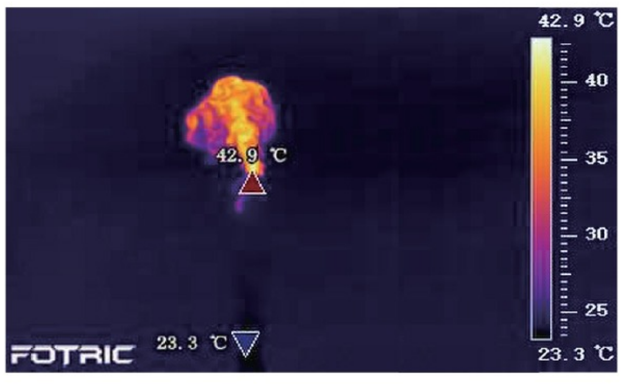
Technical Parameters
ECO-800CI (ECO-802A)

Imput Voltage	100-240V, 50/60Hz
Working Frequency	100KHz ± 10%
Output Power	Ablation cutting ≤ 350W Coagulation ≤ 150W

ECO ENT RF Plasma Surgical System - for ENT

The core algorithm can maintain a temperature as low as 42°C.

The core algorithm optimizes the power output curve, enhances coagulation, and continuously maintains a low temperature during operation.



*Thermal imaging temperature display of plasma electrode

The intelligent closed-loop control system allows for efficient and stable operation.

SP/PK arcing shortens the operation time.

SP/PK arcing can reach rapid arcing within 1-2 seconds under normal saline, with a high plasma excitation rate, shortening the operation time.

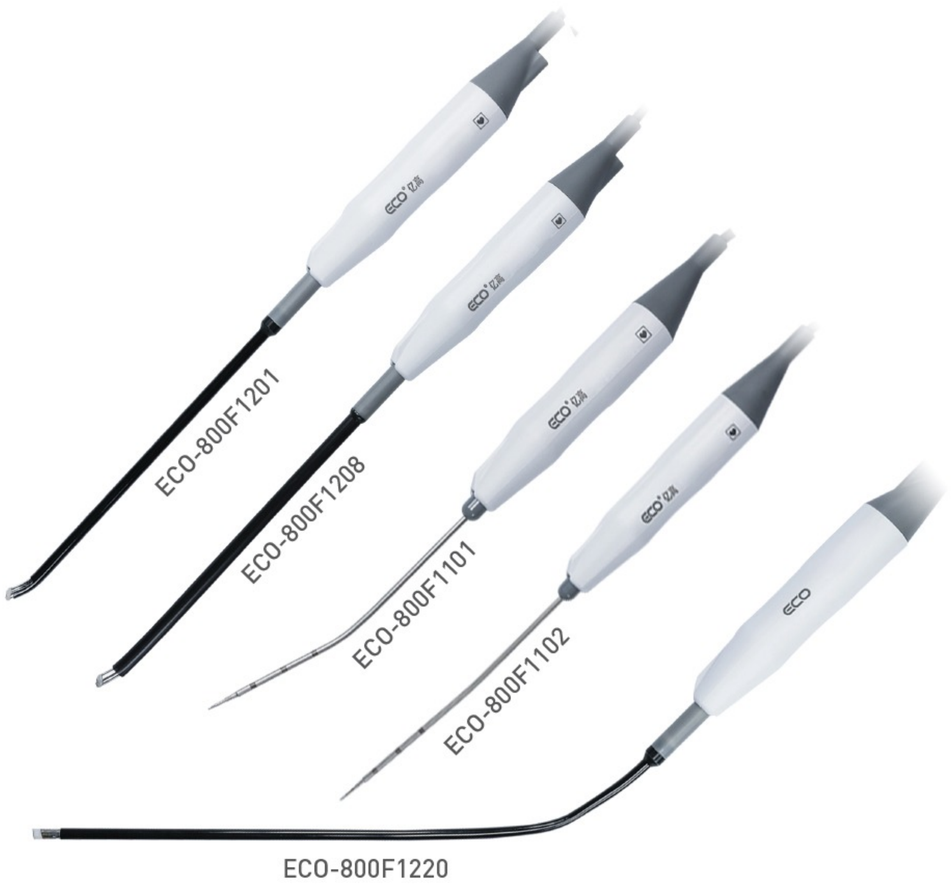
AMT

Advantage of ECO Plasma Eletrodes

Various types of electrodes and wide range of applications

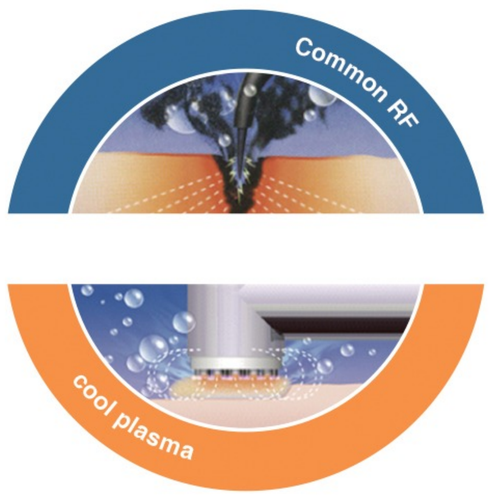
- Three stages of active tips are integrated for cutting, ablation, and coagulation. The first and second stages can be used for cutting and ablation, and all three stages can be used for coagulation.
- Electrodes are mainly used in nasal treatments, such as the removal of tonsil and adenoid, UPPP, and CAUP. The active tips of the electrodes are made of platinum materials for sharper cutting.
- Electrodes are mainly used in the cutting of laryngeal papillomas and laryngeal growths. The small-diameter and ultra-long electrode design can make the intraoperative vision clearer and the operation site more in-depth.

Model No.	Clinical Use
ECO-800F1101	Turbinate ablation
ECO-800F1102	Turbinate ablation
ECO-800F1208	Tonsillectomy, Adenoidectomy
ECO-800F1201	Tonsillectomy, Adenoidectomy
ECO-800F1220	Laryngeal lesion ablation



Comparison of ECO RF plasma and ESU

	ECO RF plasma	ESU
Working frequency	100KHz	300~40000KHz
Working temperature	40~70	About 300℃
Working medium	Normal saline	Cytochylema
Depth of damage	0.3~0.5	1.0~2.0
Postoperative effect	Minor pain, fast prognosis	Severe pain, slow prognosis



Indications

- Tonsil, adenoid surgery
- Ablation of turbinate and tongue root
- Uvulopalatoplasty
- Resection of tumors in otolaryngology and oral cavity
- Laryngeal papilloma, epiglottis cyst, laryngeal tumor, vocal cord polyps, etc.

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