

ESSE 3 Power 420D Electrosurgical unit

Germany Technology & Italian Design

Monopolar/bipolar Electrosurgical
Up-to-date technology personalized design concept
Excellent performance Simple Operation

Power 420 D electrosurgical units adopt the latest power density feedback technology and the mass type neutral plate electrode safety technique and is characterized by clear cutting and reliable coagulation.



Work Mode

■ Pure cut

When small power is set, it is suitable for no thermal burn accurate cut, such as cosmetic surgery and scar cutting. When bigger power (80-180W) is set, it is suitable for gynecology and obstetrics and urinary electrotome surgeries.

■ Blend cut

It has coagulation effect while cutting and is widely used to surgical operations such as general, cardiac, celioscope . Ysteroscope and urinary surgeries. Having adopted the power density feedback technology, the above two modes have advantages of high efficiency, low power consumption.

■ Low voltage output specially

designed for surgical operation with celioscope, ysteroscope .etc. Greatly reduce risks inherent to such operations.

■ Bipolar macro mode (bipolar electrosiccion) is specially designed for surgical operation with celioscope, ysteroscope. Etc.

■ It is equipped with mass type neutral plat electrode monitor and control system which is proven safety by clinical applications worldwide.



MAIN CHARACTERISTICS

- ★ PC double closed-loop controlled, enlarged constant power scope (nearly 200W at 100-2000Ω, and the performance of the machine is conformed to Medical Electric Safety Standard IEC60601-1 and IEC60601-2 -2 and Requirement of Compatibility of Electromagnetism IEC60601-1-2, is TUV-CE certified.
- ★ Multifunctional, both monopolar and bipolar available, wide spectrum of application from the infantile operation. Through fine operation to large operation; low voltage feature especially suitable surgical operations with celioscope, hysteroscope, and electrocision; owing to lighter thermal burn, smog during operation reduced.
- ★ Equipped with power density feedback system, smaller power in pure cut mode can meet the requirement of vaporization electrocision. And preset small power in blend cut mode can meet the requirement of general surgical operations without the need of adjusting the power frequently.
- ★ Electrocoagulation: adopting narrow 4 us coagulation pulse, fast and effective coagulation is effected.
- ★ Control mode: in monopolar mode, it can be controlled either by hand or by foot; mechanical interlocking for the output terminal can effectively prevent from error operation during surgery; no need for chargeover from monopolar to bipolar or vice versa during operation.
- ★ Safety device: apart from dual plate mass type monitor and control system which can eliminate any burns caused by poor contact between the patient's skin and the neutral plate, double closed-loop control for power is provided, thus, even occurs a single malfunction, the output power can be guaranteed within the preset range.
- ★ Dual insulation effected by on-off circuit and radiofrequency output is provided for the main circuit and the safety of the doctor and the patient is fully guaranteed.

MAIN TECHNICAL PARAMETER

- 1、 Type of the apparatus: Mode CF, Class 1, common apparatus for prevention and elimination of vibration.
- 2、 Working frequency; 512 KHZ , work mode: interval loading and continuous operating, temporary loading rate: 10S/30S.
- 3、 Output power:

Model	Pure Cut (500Ω)	Blend 1 (500Ω)	Blend 2 (500Ω)	Blend 3 (500Ω)	Mono-corg (500Ω)	Bipolar Standard (100Ω)	Macro bipolar (200Ω)
POWER 420D	350W	250W	200W	120W	120W	50W	80W

- 4、 Power supply : single-phase AC230V±23V, 60Hz±1Hz,max, current max ≤ 3.5A
- 5、 Boundary dimension: 456x382x186;package dimension: 605x530x255
- 6、 Net weight: Master machine11.5Kg, foot pedal switch 3.2 Kg; gross weight 19.5Kg
- 7、 Operation conditions: ambient temperature 5-40 Degree, humidity≤80% RH, tmospheric Pressure 860hpa-1060hpa
- 8、 Transportation and storage conditions: ambient temperature: -40-55 Degree, humidity≤95%RH Atmosphere pressure 500-1060hpa