



The **Covidien Force FX-C** is an electro-surgical generator, also referred to as the Covidien Force FX electro-surgical generator C, that provides isolated output power for cutting, desiccating, and fulgurating tissue during bipolar and monopolar surgery. This Valleylab ESU automatically senses resistance and adjusts the output voltage to maintain a constant effect across different tissue densities. This adjustment is only available in bipolar or cut modes and is based on the power setting and the level of tissue resistance. It features 3 bipolar modes, 3 monopolar cut modes, 3 monopolar coag modes, and supports simultaneous coagulation. The Covidien Force ESUs support the use of CUSA System 200 , CUSA EXcel+ , and CUSA handpieces with the CUSA electro-surgical module.

Features

- Instant Response™ technology ensures that the power delivered remains virtually constant, regardless of the tissue type
- Improved performance at lower power settings minimizes the risk of tissue damage and neuromuscular stimulation
- Three internal microcontrollers reduce system reaction time and increase the system's processing speed
- Spray coagulation voltage of no more than 9000 volts peak-to-peak output for broad, but superficial coagulation with limited capacitive coupling
- A Power Efficiency Rating (PER) of approximately 98 for accurate and consistent cut performance
- Three cut modes, all controlled by Instant Response™ technology, offer surgeons a variety of choices:
- Four coag modes:
- Three bipolar modes:
- Versatile system that is uniquely compatible with other devices, including:
- Compatible with and used as the electro-surgical energy source for:
- Compatible with, and the exclusive electro-surgical generator for, the Computer Motion Hermes™ Voice Command system



Specifications

Dimensions

Height: 4.375 in (11.1 cm)
Width: 14 in (35.6 cm)
Depth: 18 in (45.7 cm)
Weight: 18 lbs (<8.2 kg)

Operating Parameters

Ambient Temperature Range: 10° to 40° c (50° to 104° F)
Relative Humidity: 30% to 75%, noncondensing
Atmospheric Pressure: 700 to 1060 millibars
Warm-up time: If transported or stored at temperatures outside the operating temperature range, allow one hour for the generator to reach room temperature before use.

Low Frequency Leakage

Source current, patient leads, all outputs tied together.
Normal polarity, intact chassis ground: < 10 µA
Normal polarity, ground open: < 50 µA
Reverse polarity, ground open: < 50 µA
Sink current, 140V applied, all inputs: < 50 µA

Transport and storage

Atmospheric Temperature range: -40° to 70° C f40°:10 158° F)
Relative humidity: 10% to 100%, condensing
Atmospheric Pressure: 500 to 1060 millibars
Duration of Storage: If stored longer than one year, the battery must be replaced (Refer to Battery Replacement in Section 7) and a full checkout, including calibration, must be completed before use.

Input Power Requirments

Operating range is 85 to 132 AC volts. Maximum current is 7 amperes in Cut and 4 amperes in Coag.

Rem Contact Quality Monitoring System

Measurement Frequency: 80 kHz ± 10 kHz
Measurement Current: Less than 10 µA
Acceptable Resistance Ranges:
 REM™ pad – 5-135 ohms
 Non-REM™ pad – less than 20 ohms
Acceptance range is 5-135 ohms after REM PolyHesive II return electrode is applied.
Adaptive REM™: REM™ trip is baseline impedance plus 40%. For example, if the baseline impedance is 30 ohms, the upper-level trip approximately 42 ohms. If the pad-patient impedance falls below the baseline impedance, a new baseline is established.