Radio Frequency Electrosurgical Generator

MEDTRONIC AEX

ABOUT

The **Medtronic AEX** Generator is an electrosurgical unit designed to power compatible monopolar and bipolar instruments from a single system. It delivers radiofrequency energy for cutting and coagulation, as well as RF energy with saline for hemostatic sealing of soft tissue and bone. A built-in peristaltic pump controls saline delivery during procedures using compatible handpieces. The color touchscreen allows users to adjust power levels and select saline flow settings, while a one-touch Prime function prepares connected handpieces for use. The generator is compatible with Medtronic Aquamantys and PlasmaBlade handpieces.





FEATURES

Monopolar and Bipolar Output: Powers specified monopolar and bipolar instruments simultaneously.

Built-In Saline Pump: Peristaltic pump delivers saline alongside RF energy for hemostatic sealing and coagulation.

Adjustable Bipolar Power: Provides output from 20 to 220 W, with 5 W adjustments from 20 to 100 W and 10 W adjustments from 100 to 220 W.

Cut, Coag, and Transcollation Modes: Supports monopolar cutting, coagulation, and Transcollation, with output up to 90 W.

Touchscreen Controls: Color display provides access to power adjustments, Low, Medium, and High saline flow settings, and the one-touch Prime function.

Medtronic AEX Generator

SPECIFICATIONS

DIMENSIONS

Height: 6.5 in (16.5 cm)

Width: 14.5 in (36.8 cm)

Depth: 17 in (43.2 cm)

Weight: Less than 20 lb (9 kg)

DISPLAY

Type: Color LCD touch screen

Diagonal: 7 in (17.8 cm)

Height: 3.5 in (8.9 cm)

Width: 6 in (15.2 cm)

RF OUTPUT

Bipolar Power: 20 to 220 W (5 W steps from 20 to 100 W, 10 W steps from 100 to 220 W)

Monopolar Power: Cut, Coag, and Transcollation up to 90 W

Cut Modes: Low Cut (Peak), Medium Cut (Pure), and High Cut (Blend)

Coag Modes: Low Coag (Pinpoint) and High Coag (Spray)

Hemostatic Sealing: Simultaneous RF energy and saline, monopolar or bipolar

Output Configuration: Isolated (RF floating)

SALINE DELIVERY

Pump: Built-in rotary peristaltic pump

Flow Rates: Low, medium, and high, preset to match the power setting

Priming: One-touch prime button for Transcollation handpieces

CONNECTIONS

Handpiece Receptacles: PlasmaBlade and Combo (7-pin) and Aquamantys (3-pin)

Patient Return Electrode: 2-pin receptacle with connection status illumination

Simultaneous Use: Two handpieces can be activated at the same time

Footswitch: Optional AEX wireless footswitch

USB Port: Software updates and usage data download

SAFETY FEATURES

Return Electrode Monitoring: Continuously monitors patient return electrode contact quality and disables output with an audible and visible alarm if contact is lost

Handpiece Recognition: PlasmaBlade handpieces carry an embedded chip that sets their default settings

POWER REQUIREMENTS

Voltage: 100 - 240 VAC (115/230 VAC nominal)

Frequency: 50/60 Hz

Maximum Current: 8 - 4 A

Cooling: Forced air (fan)