

Avante Citadel 180

Electrosurgical Unit

The power you need,
at an affordable price point

The Avante Citadel 180 is an ideal choice for facilities who want a budget-friendly electrosurgical unit without sacrificing features. By offering 180 watts of power, instead of the standard and often unnecessary 300, the Citadel 180 is available at a value in today's market. Often, 180 watts is more than enough power for procedures in Plastic Surgery, Endoscopy, Laparoscopy, Gynecology, Dermatology, ENT, Ophthalmology and Urology.

FEATURES

- › Stable, 180-watt power supply with unique tissue feedback technology maintains set power over a wide range of tissue types.
- › Patient return electrode monitor increases patient safety by preventing electrode site burns.
- › Self-diagnostic protocols help to ensure all parts and accessories are properly functioning.
- › Spray coagulation function provides homogenous, efficient coagulation over a large area.
- › Soft / Desiccate Coagulation setting allows for faster cutting with coag, ideal for thicker tissues.
- › Monopolar and bipolar capable with the appropriate accessories.
- › Efficiently Navigate through various surgical modes with the easily-programmable user interface.
- › Durable, waterproof pedals.
- › Optional — Remote power settings allow operators to change mode and power settings from the sterile field.
- › Optional — Timeout function automatically stops the HF output in the event of an unintended activation.
- › Optional — Argon beam coagulation, ultrasonic aspirator, smoke evacuator, suction irrigation module.



SPECIFICATIONS



Weight:
< 11 lbs (5 kg)



Dimensions:
15" x 12" x 4.5"
(38 x 30.5 x 11.5 cm)



Operating Voltage:
180-265 V AC

Max Power Input:
1000 VA

Fuse:
4 A

UPS Backup:
1 KVA

OPTIONAL ACCESSORIES

- › Bipolar footswitch
- › Monopolar footswitch
- › ESU Pens and Pencils
- › Grounding pads

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Monopolar Autocut

Pure Sine wave 390 kHz

Sp Cut: Programmable Pulse or continuous output, 200 W at 300 Ω , CF 1.5

Pure: Continuous output, 200 W at 300 Ω , CF 1.5

Blend: Bursts repeating at 29 kHz 55% ON cycle, 120 W at 300 Ω , CF 2.5

Monopolar Coag

Damped Sine wave 460 kHz

Soft: Repetition Frequency 62 kHz, 80 W at 500 Ω , CF 5.0

Fulgurate: Repetition Frequency 34 kHz, 80 W at 500 Ω , CF 7.0

Spray: Randomized Repetition Frequency 34 kHz < f < 50 kHz, 80 W at 500 Ω , CF 8.0

Feedback System

3 Microprocessor Controlled 6SENSE Technology with sampling rate about 4000 sense/second

Maximum output power deviation < 15% or 5 watts, whichever is greater at any setting with PER-98

Bipolar

Pure Sine wave 390 kHz

Micro: Lower output voltage, 50 W at 100 Ω , CF 1.5

Macro: Higher output voltage, 50 W at 100 Ω , CF 1.5

Leakage Currents

RF leakage current: Monopolar < 150 mA rms, Bipolar < 60 mA rms

Low frequency leakage currents: Normal polarity, intact ground < 10 μ A, Normal polarity, ground open < 50 μ A

PREM System

Measuring Frequency: 85 kHz \pm 10 kHz

Measuring current: < 10 μ A

Acceptable Resistance Range: Dual Area PREM Patient Return Electrode 10-35 Ω , Single Area Patient Return Electrode: < 10 Ω