

CHAPTER 10

SPECIFICATIONS

This chapter contains the specifications for the Sonastar XS^E Ultrasonic Aspirator, its accessories and disposable items.

10.1 Physical Dimensions

Height: 40" (102cm)
Width: 25" (63.5cm)
Depth: 19" (48cm)
Weight 120 pounds, bare console (54.5 kg)

10.2 Operation and Control

Front Panel Controls:

Power on/off.
Setup
Linear
Preset
Amplitude adjustment
Aspiration vacuum level adjustment
Irrigation flow rate adjustment

Rear Panel Controls:

Audio feedback volume control
Alarm volume control
Alarm override

Indicators and Displays:

Power-ON backlit LED indicator
Vibration, irrigation & aspiration bar LED displays
Linear, *Preset* & *Setup* LED indicators
Fault / time digital LED display
Fault / time backlit LED indicator

Modes of Operation:

Setup mode: System setup
Standby mode: Irrigation & Aspiration active
Linear mode: Linear Vibration, Irrigation & Aspiration active
Preset mode: Preset Vibration, Irrigation & Aspiration active
Suspend mode: Aspiration pump shuts down

10.3 Vibration

Frequency: 23 kHz
 Stroke maximum amplitude:
 Approximately 300 microns CE
 Approximately 200 microns SS
Linear/Preset footswitch mode w/audio feedback
 Accumulated vibration time meter
 Variable control on front panel

10.4 Irrigation and Aspiration

Irrigation:

Peristaltic pump driven
 Flow rates (approximate):
 2-10 cc/min., standard
 25 cc/min., flush
 20 cc/min., COAG with or without Vibration
 2 cc/min., 2 minutes following deactivation of vibration

 Variable control on front panel
 Coaxial flow surrounding tip
 IV pole attached to console

Aspiration:

Approximately 3-23" (75-585mm) Hg at sea level
 Pinch-off valve for 'tissue release'
 Variable control on front panel
Suspend mode shutoff after 2 minutes of inactivity; restarts on pedal activation.

10.5 Monopolar COAG

Certified Electrosurgery Units:
 ACMI Focus 640
 Valleylab Force2
 Contact your Aesculap sales representative for additional approved units.

10.6 Power Requirements

Line Voltages:
 110/115/120 VAC, 50/60 Hz.
 Must be configured to customer requirements during assembly at factory.

Current:

4 Amps max at 110/115/120 VAC

10.7 Fuse Requirements

Fuse	Fuse Type	Fuse Rating	LITTLEFUSE Part Number	Location on Rear of Console	Relevant Figures
F1	5x20 mm Fast-Acting	5A, 250V	217005	Bottom	4-4 and 4-6
F2	5x20 mm Fast-Acting	5A, 250V	217005	Bottom	4-4 and 4-6
F3	3AG Fast-Acting	5A, 250V	312005	Top	4-4 and 4-5

10.8 UL Classification

- Class I Equipment
- Type B Equipment
- Ordinary Equipment

10.9 Accessories

- Handpieces:
 - Piezoelectric transducer – 23kHz
 - Autoclavable

Physical Dimensions:

	Short Straight	Curved Extended
Length w/o probe	4.8" (13 cm)	9.5" (24.1 cm)
Diameter	.8" (2.0 cm)	.8" (2.0 cm)
Weight w/ tip	3.2 oz. (91 g)	4.16 oz. (118 g)
Cable length	17' (5.2 m)	

- Handpiece Assembly Set
 - Counter wrench and torque wrench
- Footswitch
 - Vibration Control
 - Flush Irrigation Control
 - COAG Control
 - COAG + Vibration Simultaneous Control
 - Cable length: 12' 6" (3.81m)
 - Drip, water and oil-tight
- Procedural Pack
 - Disposable Standard or Micro pack, sterile and non-sterile available
 - Pack Contents:
 - Titanium tip
 - Silicone sleeve for tip
 - Irrigation / aspiration tubing, with clips
 - Wire stylet for dislodging clogs.
 - Small o-ring for CE handpiece (may not be included in all packs)
 - Large o-ring to secure tubing to handpiece (may not be included in all packs)
- Single-Use Monopolar Handpiece Cable for electrosurgical procedures
- Optional Reusable 8mm adapter for electrosurgical procedures
- Sterilizer Case
- Aspiration Filters (Inner and Outer)

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