MISONIX
BETTER MATTERS™

May 18th, 2020

Misonix SonaStar® System

Sole Source Specifications

The Misonix SonaStar System provides the following unique features in a single system:

The SonaStar is an ultrasound system operating at a frequency of 23kHz, providing excellent hard and soft tissue removal.

The SonaStar offers multiple handpiece configurations (Curved Extended & Short Straight) capable of operating on a single generator at the same frequency. The handpieces are designed with a piezoelectric ceramic stack, which is the most efficient means of transferring electrical energy to mechanical energy. Both of the handpieces can be disassembled and fully autoclaved.

An integrated peristaltic pump is provided with every system to ensure consistent flow of irrigation. Flow rate can be varied from 1-3cc/min to 9-14cc/min, with a 25cc/min flush setting.

An integrated aspiration pump is provided with every system to ensure consistent suction. Aspiration can be varied from 12.7mm/Hg to 635mm/Hg, offering the lowest operational aspiration level among its peers enabling delicate tissue removal.

The SonaStar features the ability to adjust the intensity of the ultrasound via liner (variable) and pre-set(one/off) modes. The ultrasound can be adjusted to 14 unique setpoints.

The SonaStar system has 13 unique, single use disposable titanium probes that are designed to address different hard tissue applications.

The SonaStar allows for use in clinical applications include that of open, mini-open, and minimally-invasive-surgery (MIS), and laparoscopic approaches.

Applicators for the SonaStar are available in various sizes and configurations, including short and long. The soft tissue probes range in size from Ø1.1mm – Ø2.6mm. The SonaStar also includes multiple atraumatic hard tissue probes. Lastly, the SonaStar includes probes designed for transnasal/endonasal and laparoscopic applications.

The SonaStar system allows for the connectivity and control of various radio-frequency (RF) devices via a wireless footpedal. The wireless footpedal on the SonaStar allows for the activation of RF and ultrasound energies both independently or in unison.

The SonaStar system contains Onboard Trouble Shooting & Diagnostics allowing for the identification and resolution of issues during use.

The Dynamic Tissue Response (DTR) in SonaStar provides tissue selectively by automatically adjusts the tip vibration within milliseconds. Enabling surgeons to command the desired balance between power and selectivity by setting a single parameter, the Vibration.

In summary, the Misonix SonaStar is a versatile system capable of meeting the needs of multiple surgical specialties in a safe and reliable manner. The revolutionary ultrasonic technology of SonaStar allows for maximum control and ease-of-use. Dynamic Tissue Response (DTR) constantly monitors and adjusts the vibration of the tip to maximize performance, while preserving nerves, blood vessels and adjacent tissues.

Sincerely

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