LAPMASTER®
Precision Surfacing Solutions

Ultrasonic Terminology

Ultrasonic Cleaning
This is the name given to the cleaning process where high frequency sound waves are used to create microscopic bubbles within a liquid medium.

Cavitation
Cavitation is when the microscopic bubbles during the ultrasonic cleaning process reach a size where they cannot support their own density causing them to implode.

Analogue Control
The name given to a manually controlled ultrasonic cleaning unit. The cycle length is determined by a manually set timer and is set prior to each cycle start.

Digital Control
Is the name given to a software controlled ultrasonic cleaning unit. Parameters such as temperature and time are stored by the unit meaning operation requires a single button press to begin each cleaning cycle.

Ultrasonic Cleaning Validation
When there is sufficient hard evidence (e.g. Printout) available to confirm that the cleaning process was completed successfully.

Un-Validated Ultrasonic Cleaning
This is when there is no hard evidence to confirm that the cleaning process was completed successfully.

Benchtop Cleaning Unit
A benchtop is a small to medium sized unit which has a small enough foot print to be placed onto a work surface or benchtop

Ultrasonic Bath
This is the name given to a pressed metal container used to contain the liquid medium on an ultrasonic cleaner.

Ultrasonic Tank
This is the name given to a fabricated metal container used to contain the liquid medium on an ultrasonic cleaner.

Submersible Transducer
The name given to a metal case which houses a series of piezo ceramic transducers. These cases are submerged into existing tanks and are powered by an ultrasonic generator.

Ultrasonic Generator
Used to create and transmit an electric current of the desired level to the submersible transducer.

Ultrasonic Frequency
This is the name given to the sound frequency created by an ultrasonic transducer. It is beyond the range of the human ear, and thus ultrasonic.

Ultrasonic Detergent
The agents which are added to the water contained within the ultrasonic cleaner in order to intensify the cleaning action created by cavitation.

HTM2030
This is the set of government guidelines created in 1997, which set out the processes and equipment requirements for surgical instrument decontamination.

Cleaning Cycle
The name given to the time it takes for an ultrasonic cleaner to complete its designated cleaning process.

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