



SCIENTEK

# Ultrasonic Cleaners

## SONI-Tek Series

### Clean even the hard-to-reach areas with SCIENTEK Ultrasonic Cleaners

SONI-Tek™ Ultrasonic Cleaners use ultrasonic energy to provide cavitation for intense scrubbing of delicate items such as lumen instruments, optical eye surgery, and dental equipment. Delivering three times the industry standard (132 kHz) of micromechanical scrubbing action, SCIENTEK Ultrasonics efficiently clean hard-to-reach internal passages and heavily soiled external surfaces, ensuring your instruments are thoroughly cleaned and protected.

#### The Cleaning Power of Sonics

Our exclusive ceramically enhanced transducers ensure uniform cleaning throughout the tank by sweeping the ultrasonic frequency 3 kHz, creating overlapping ultrasonic waves that provide more consistent cleaning. Ultrasonic energy introduced into a solution causes alternating patterns of low and high pressure phases. During the low pressure phase, bubbles or vacuum cavities form. In the subsequent high pressure phase, these bubbles implode violently. This is called cavitation.



Cavitation provides an intense scrubbing action that leads to unsurpassed cleaning speed and consistency. Additionally, the bubbles are small enough to penetrate even microscopic crevices, cleaning them thoroughly and consistently. As a result, ultrasonic cleaning is one of the most effective and efficient methods you can use for cleaning a wide array of parts, without abrasive contact materials on your part's surface.

#### Technology That Moves

- Ceramically enhanced transducer technology
- Homogeneous sound field, energy distribution, and prevention of standing waves using frequency modulation (sweep)
- 58 kHz and 132 kHz frequencies provide precision cleaning and rinsing options
- Drain valve assembly available for tank capacities of 2.5 gallons and higher
- Digital power control of the ultrasonic generator provides consistent cleaning results regardless of tank temperature

## Standard Features

- Heated process tank maintains 120° F temperature
- Low liquid level protection
- Headers for cleaning cannulated instruments
- Automatic, self-raising tray for loading instruments
- Auto open/close lid cover with indicator
- Door and panel interlock switches for operator protection

## Smart Series

- PLC control module touchscreen HMI interface
- 4 programmable cycles
- Dual frequency 58/132 kHz powering 2000 watts of transducer arrays
- Autofill with detergent injection pumps
- Drain cycle high velocity flush with low pressure indicator
- 10 port standard lumen manifold cleaning capable
- Incoming water filter inlet
- Integrated lid spray rinse assembly in final process step prior to opening

## Acute Series

- PLC control module with digital timer control
- Push button control switches
- 132 kHz frequency powers 1500 watts of transducer arrays
- Autofill with a venturi injector
- Automatic gravity flow drain
- Flushing pump unit for 10 port manifold
- Kick start plate for hands free operation

## Accessories and Cleaning Solutions

- Chem-Crest™ cleaning solutions
- Extended hose assemblies for detergent containers
- Low protection notification level switches for 10L detergent bottle use
- Trays and baskets
- Flush and hose kit assemblies

## Stainless Steel Trays and Device Baskets

With a perf size of 3/16 of an inch and solid side walls, these trays are designed to allow for multiple items to be cleaned in a single cycle.

All baskets are equipped with built-in handles to facilitate easy loading and unloading on elevator platforms.

## Technical Data

Model	US100S	US100SL   US100SR	US150T	US150TL   US150TR	US200EX	US200EXL   US200EXR
<b>Function</b>	Wash	Wash   Rinse   Dry	Wash	Wash   Rinse   Dry	Wash	Wash   Rinse   Dry
<b>Tank Dimensions</b> L x W x H - inches   mm	9.5 x 19.75 x 3.5 242 x 500 x 90	9.5 x 19.75 x 3.5 242 x 500 x 90	11.75 x 23.75 x 3.5 297 x 603 x 90	11.75 x 23.75 x 3.5 297 x 603 x 90	11.75 x 23.75 x 3.5 297 x 603 x 90	11.75 x 23.75 x 3.5 297 x 603 x 90
<b>Unit Dimensions</b> L x W x H - inches   mm	30 x 35 x 34.5 762 x 889 x 876	68 x 35 x 34.5 1727 x 889 x 876	36 x 35 x 34.5 914 x 889 x 876	72 x 35 x 34.5 1829 x 889 x 876	36 x 35 x 34.5 914 x 889 x 876	72 x 35 x 34.5 1829 x 889 x 876
<b>Tank Quantity</b>	1	2	1	2	1	2
<b>Tank Capacity</b> gallons   liters	15   56.8	15   56.8	20   75.7	20   75.7	17   64.4	17   64.4
<b>Available Frequency</b>	132 kHz	132 kHz	132 kHz	132 kHz	58   132 kHz	58   132 kHz
<b>Sonic Power</b> avg wattage	1000	1000	1500	1500	2000	2000
<b>Heat Power</b> wattage	1000	1000	2000	2000	2000	2000
<b>Voltage</b> 3ph/50-60Hz	208V	208V	208V	208V	208V	208V

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