Ultra Clean Systems™

Ultrasonic Cleaner Model 1522

Ultra Clean Systems Model 1522 is a double-basin, four-tray floor model ultrasonic cleaning system for cleaning flat surgical instruments, up to 48 lumen instruments, and up to 16 da Vinci® robotic instruments in a detergent solution. This ultrasonic features auto-fill, auto-flush (lumen cycle only), and auto-drain functions.

Application

The Model 1522 ultrasonic cleaning system is designed for the removal of minute biological debris from difficult-to-clean areas of surgical devices, including da Vinci S, Si, and EndoWrist® robotics.

Use of this product should follow removal of gross debris. Following ultrasonic cleaning, lumen instruments are automatically flushed and air purged[1] (nonlumen instruments must be rinsed manually) before proceeding to the next step in the cleaning process prior to terminal sterilization. IFUs for the use of this device, as well as surgical and laboratory devices, should always be closely followed.

Intended Use

Designed to remove bioburden and fine debris from surgical instruments postsurgery.

Standards and Codes

This ultrasonic cleaning system meets the applicable requirements of the following:

- CSA C22.2 No. 61010-1
- UL 61010-1
- Uniform plumbing code
- OSHA standards for noise emissions
- FCC standards for radiated interference

Key Features

Stainless Steel Construction

Exterior panels are type 304, 14-gauge stainless steel with a #3 polished finish. The sonic cleaning chamber is constructed of type 304 stainless steel polished to a mirror finish.

Titanium Rod Transducers

Our Model 1522 incorporates titanium rod transducers that are integrated into the basins to provide a wide distribution of cavitation energy. This feature reduces wash cycle times in your department and avoids workflow bottlenecks.

Automated Controls

A Program Logic Controller (PLC) controls operation through each cycle's various parameters.

Lid Sensor Verification

An onscreen prompt will let the operator know if the lid is not secure. The basin lid must be closed prior to initiating the timed phase of the wash cycle.

Capacity

Model 1522 cleans up to 48 lumen intruments or 16 da Vinci robotic instruments, and has a 50-lb (22.7-kg) weight capacity.

Automatic Fill

The basin begins to fill with water automatically.

Fill Monitoring

The basin filling sequence is monitored by an onboard processor. An onscreen alarm will notify operators of any potential problems.

Automatic Detergent Delivery

The wash cycle program automatically injects the recommended amount of enzymatic detergent during the wash cycle (preset at 1 oz per gallon).

Automatic Drain

The basin will drain after the completion of each lumen/robotic cycle.

Liquid Level Sensor

A liquid level sensor is provided to ensure proper liquid level depth for ultrasonic cleaning.

Overflow Protection Sensor

Model 1522 features an overflow protection system that stops the cycle when a basin high water level is encountered and will automatically drain water from the basin to a safe level.

Audible Cycle Alert

At the end of the wash cycle, an audible alert will occur. Alert duration can be adjusted.

Preset Cycle Timer

Cycle times are preset for 8 and 13 minutes.

Touchscreen Controls

Operators can select the cycle, start a cycle, and monitor progress from the touchscreen display.

Water Flush and Air Purge

Flushing and air purging[1] are performed automatically upon completion of a lumen wash cycle. Nonlumen instruments need to be manually rinsed with the spray attachment.

Controls

The control panel features the following switches and indicators for the operator:

- On/Off power switch with On indicator light
- LCD touchscreen display
- Flow Control dials
- USB port for optional UCS-Verify process verification software

Cycle Overview

1. Ultrasonic cleaning cycle time is preset for 8 minutes for a short wash cycle and 13 minutes for a long instrument wash cycle, and can be adjusted to suit your department's needs.
2. Basin automatically fills with water. Basins are independently operable.
3. Liquid depth will be monitored throughout to assure proper cleaning coverage of trays.
4. This system is not intended for terminal sterilization.

1. Air purging happens automatically if the facility is equipped with air. Air is not supplied by the ultrasonic cleaner.

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