

APPLICATION

The Caviwave Sonic Console Washer/Dryer is designed to thoroughly wash (remove tissue, blood and other contaminants), rinse and dry instruments prior to final disinfection and sterilization as required. The Caviwave Ultrasonic Cleaning System's compact design makes it suitable for use in the Operating Room, Central Supply or other high volume area to process pre-cleaned instruments.

DESCRIPTION

The Caviwave Ultrasonic Console Washer/Dryer is a freestanding instrument washer, rinser and dryer supplied in a compact stainless-steel cabinet. The Sonic Console Washer/Dryer contains all needed components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution), thoroughly rinse and adequately dry surgical instruments prior to disinfection and sterilization.

The console washer/dryer is equipped with automatic opening lids and load elevators for easy and safe instrument loading.

Cleaning and rinsing/drying chambers are positioned for either left-to-right or right-to-left workflow.

STANDARDS

The Caviwave Ultrasonic Cleaning System meets the applicable requirements of the following standards:

- **EMC Directive 89/336/EEC, 92/31/EEC, 93/68/EEC.**
- **Low Voltage Directive 73/23/EEC, 93/68/EE.**
- **ETL Listed.**
- **Underwriters Laboratories (UL) Standard 61010-1.**
- **Underwriters Laboratories (UL) Standard 61010A-2-010.**
- **Canadian Standards Association (CSA) Standard C22.2 No. 61010-1.**



(Typical only - some details may vary.)

- **Canadian Standards Association (CSA) Standard C22.2 No. 61010-2-010.**

FEATURES

The Caviwave Ultrasonic Console is wired for operation on either 208 V (60 Hz, three phase or single phase), or 240 V, 60 Hz, single phase voltage. Unit can be configured for single phase. STERIS supplies all components necessary to obtain a complete working unit ready for (but not including) installation and connection to facility service lines. The Sonic Console Washer/Dryer includes the following features:

Optimum Ultrasonic Cleaning Power is ensured by constant power output generators operating at 132 kHz and complemented with complex resonance frequencies to ensure lock-box cleaning efficiency. The generators are mounted with individual slide out modules for ease of service. Also, patented ceramically-enhanced transducer modules are bonded to the wash tank providing maximum energy transmission for instrument cleaning.

Automatic Lid and E-Z Load Tray Elevator improve safety and increase instrument loading ease. E-Z Load Tray Elevator is positioned at a convenient working height and is oriented laterally for ease of loading heavy instrument trays.

Port Flushing System processes up to six rigid lumened surgical

The Selections Checked Below Apply To This Equipment

VOLTAGES

- 208 V, 60 Hz, 3ph (Standard)
- 208 V, 60 Hz, 1ph
- 240 V, 60 Hz, 1ph

ADDITIONAL TANK SIZES

- 11-gal (42 L) Tank
- 15-gal (57 L) Tank
- 20-gal (76 L) Tank

WORK FLOW

- Left-to-Right
- Right-to-Left

ADDITIONAL TRAYS (IF REQUIRED)

- 11 gal
- 15 gal
- 20 gal

ACCESSORIES

- Seismic Design
- Additional Port Flushing Kit

Item _____ 1599

Location(s) _____

devices with both ultrasonic energy and internal flushing.

Instrument Lubrication Cycles help to keep instruments functioning properly and promote efficiency in the surgical suite. Instrument lubrication can be injected into the rinse phase.

Illuminated Main Controls include power ON/OFF, automatic fill, drain alert with cycle counter, adjustable wash cycle timer, drain actuator and lid actuator.

Locking Caster Wheels are supplied for ease of Caviwave Ultrasonic Cleaning System Sonic Console Washer/Dryer movement. The four caster wheels add 2" (51 mm) to total Sonic Console height.

Large Capacity Process Tanks (wash and rinse/dry) accept a large variety of instrument trays. One instrument tray is included with each unit. Tank weight capacity is as follows:

- 11-gal (42 L) tank holds 22 lb (10 kg) of instruments.
- 15-gal (57 L) tank holds 22 lb (10 kg) of instruments.
- 20-gal (76 L) tank holds 35 lb (16 kg) of instruments.

Weight Capacity: 11- and 15-gallon holds 22 lb (10 kg) of instruments; 20-gallon holds 35 lb (15.9 kg) of instruments.

Automatic Pushbutton Ultrasonic Drain with drain indicator light and built-in counter to provide wash cycle number tracking, alerts operator when ultrasonic tank needs drained. Adjustable cycle drain count preprogrammed to 12 cycles.

Toe Touch Control lowers the instruments into the cleaning solution and starts the processing cycle. When cycle is complete, the lid automatically opens and instrument tray is raised to unload position.

Two Chemical Probes are provided for one gallon containers of detergent and/or lubricant.

Safety Interlocks and Controls are provided to ensure complete operator safety.

Front and Side Service Access Doors are supplied on the unit for ease of any maintenance procedures. Access doors are scratch and dent resistant and sound dampened. Front doors have automatic power cut-off feature to protect components when doors open.

Distilled Water and Instrument Lubricating Spray provides proper instrument lubrication extending instrument life.

The Rinse Chamber provides the following:

- External water spray
- Internal flushing
- Pure water rinse* and lubrication
- Filtered compressed air through lumen devices.
- Heated circulate air through tank chamber.

**If pure water is not available, facility tap water is used.*

The base language of this document is ENGLISH. Any translations must be made from the base language document.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning our annual maintenance programs. Under the terms of these programs, preventive maintenance, adjustments and replacement of worn parts are provided on a scheduled basis to help ensure optimal equipment performance and help minimize untimely or costly schedule interruptions. STERIS maintains a worldwide staff of well-equipped, factory-trained technicians to provide these services, as well as on-site installation, training and expert repair services. Contact STERIS for details.

NOTES

1. Pipe sizes shown indicate terminal outlets only. Building service lines (not provided by STERIS) must supply the specified pressures and flow rates.
2. STERIS recommends that a dedicated, grounded electrical circuit be provided for each unit. Extension cord and plug use is not recommended.
3. Approximate net weight:
 - » Model CR2-01/02: 825 lb (374 kg).
 - » Model CR2-15: 900 lb (408 kg).
 - » Model CR2-20: 950 lb (430 kg).
4. Sonic Console Washer must be mounted on a hard, level surface.
5. Caviwave Sonic Console Washer/Dryer is manufactured for STERIS by Crest Ultrasonics.

UTILITY REQUIREMENTS

Electrical

208 or 240 V, 60 Hz, 1-Phase (4 Wire) or 3-Phase (5 Wires including Neutral and Ground).

Drain

1-1/4" NPT CPVC Male Slip (trap and waste lines are not provided by STERIS).

Distilled (Purified) Water (Optional)

1/2" NPT CPVC Male Slip (15-50 psi); 100-120°F (38-49°C).

Hot Water

1/2" NPT CPVC Male Slip (15-50 psi); 100-120°F (38-49°C).

Cold Water

1/2" NPT CPVC Male Slip (15-50 psi); 40-60°F (4-16°C).

Air

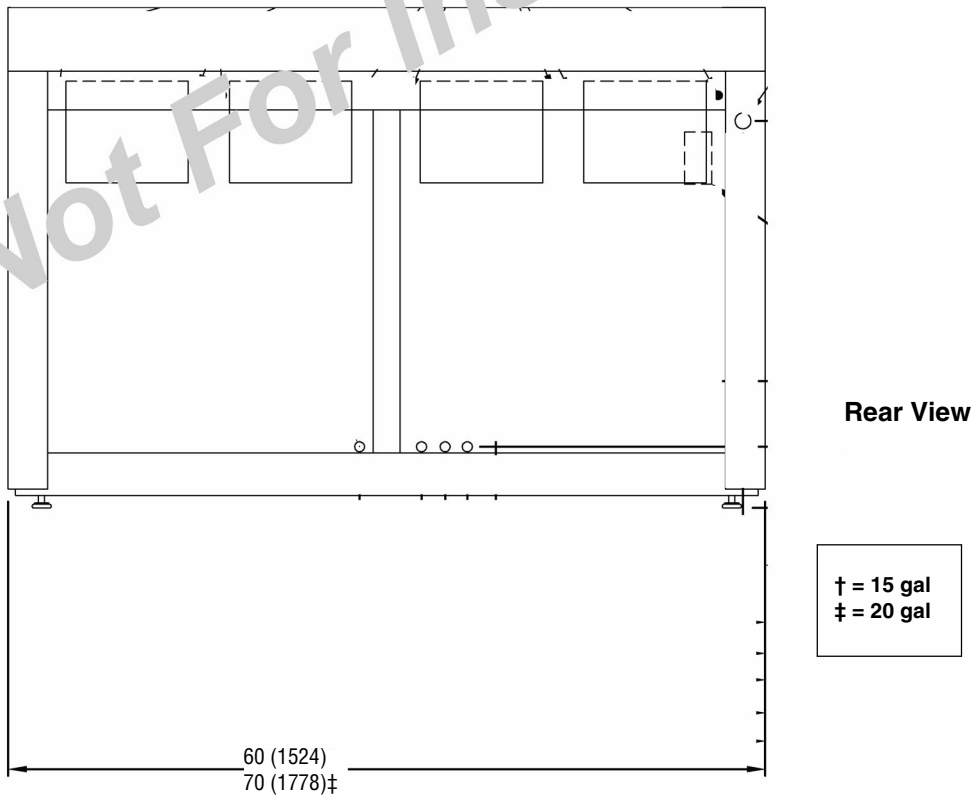
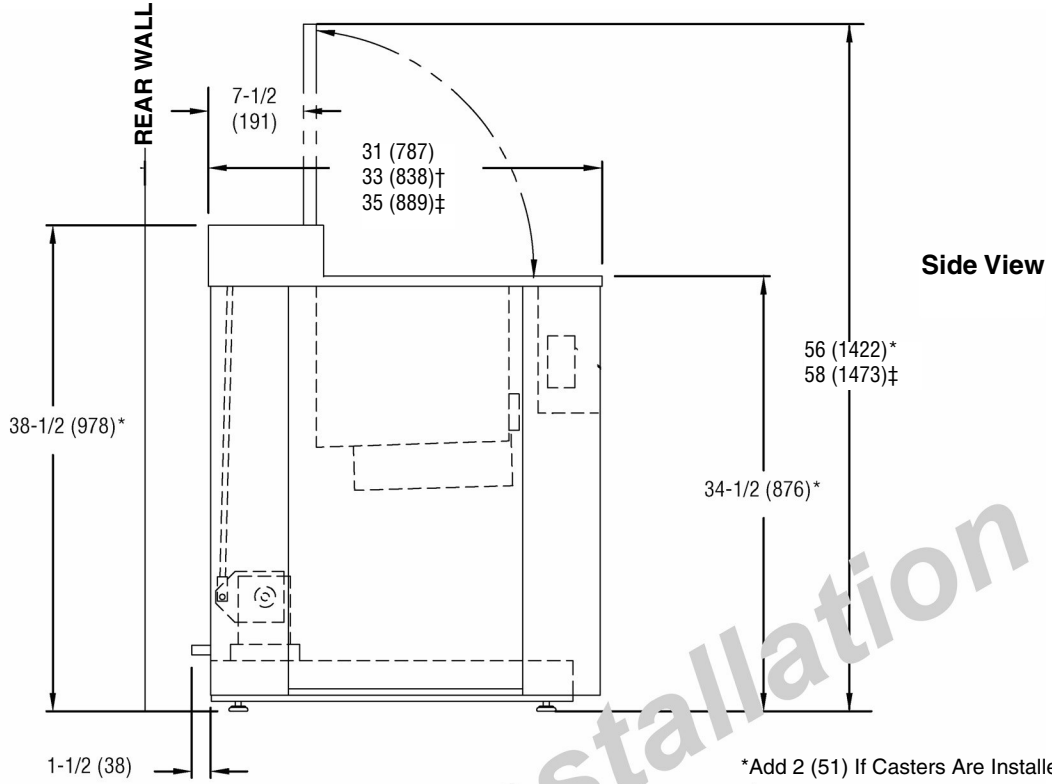
1/2" NPT Brass (25-30 psi) (5-7 cfm)

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

Request Equipment Drawings for Installation Details

Dimensions are typical –
drawing is not to scale.

Dimensions are inches (mm)



TECHNICAL DATA

MODEL	POWER REQUIREMENTS (Amps)†			SONIC POWER (Watts)	SHIP WEIGHT	FLUID CAPACITY	HEAT LOSS (BTU)	TRAY SIZE L x W x D*
	208 V		240 V					
	1 PH	3 PH	1 PH					
CR2-01 LR	35.5	30.7	34.8	750	1019 lb (462 kg)	11 gal (42 L)	1600	20 x 10-1/2 x 3-1/2" (508 x 267 x 89 mm)
CR2-02 RL	35.5	30.7	34.8	750	1019 lb (462 kg)	11 gal (42 L)	1600	20 x 10-1/2 x 3-1/2" (508 x 267 x 89 mm)
CR2-15 LR	35.5	30.7	34.8	1000	1210 lb (549 kg)	15 gal (57 L)	1725	20 x 13-1/2 x 3-1/2" (508 x 343 x 89 mm)
CR2-15 RL	35.5	30.7	34.8	1000	1210 lb (549 kg)	15 gal (57 L)	1725	20 x 13-1/2 x 3-1/2" (508 x 343 x 89 mm)
CR2-20 LR	41.9	37.1	41.7	1500	1379 lb (626 kg)	20 gal (76 L)	2100	24 x 13-1/2 x 3-1/2" (610 x 343 x 89 mm)
CR2-20 RL	41.9	37.1	41.7	1500	1379 lb (626 kg)	20 gal (76 L)	2100	24 x 13-1/2 x 3-1/2" (610 x 343 x 89 mm)

*Maximum tray size

†Amp value is actual current drain. Disconnect should be at least 25% more. See **Technical Data**.

For Further Information, contact:



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