

APPLICATION

The Caviwave Ultrasonic Cleaning System Cleaner is designed to thoroughly clean (remove tissue, blood and other contaminants) instruments prior to final disinfection and sterilization. The Caviwave Ultrasonic System's compact design makes it suitable for use in the Central Supply or other instrument preprocessing areas to clean instruments prior to a washing cycle.

DESCRIPTION

The Caviwave Ultrasonic Cleaning System is a freestanding instrument cleaner supplied in a compact stainless-steel cabinet. The Ultrasonic Cleaner contains all needed components to effectively clean (utilizing ultrasonic cavitation in a detergent-balanced wash solution) surgical instruments prior to disinfection and sterilization. The Cleaner is equipped with an automatic opening lid and load elevator for ergonomic, easy and safe instrument loading.

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



(Typical only - some details may vary.)

FEATURES

The Caviwave Ultrasonic Cleaning System is wired for operation on either 208 V (60 Hz, three phase or single phase) or 240 V (60 Hz, single phase) voltage and shipped with power cord. STERIS supplies all components necessary to obtain a complete working unit ready for installation and connection to facility service lines. The Cleaner includes the following features:

Optimum Ultrasonic Cleaning Power is ensured by constant power output generators operating at 132 kHz with complex resonance frequencies to ensure 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 and unloading ease. E-Z Load Tray Elevator is positioned at a convenient working height and is oriented laterally for ease of loading and unloading heavy instrument trays.

The Selections Checked Below Apply To This Equipment

VOLTAGES

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

TANK SIZES

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

ACCESSORIES

- Seismic Tie-Down (CR1212)
- Replacement Port Flushing Kit (CR1219)
- Replacement Instrument Tray
 - 15-gal (57 L) Tray (CR1216)
 - 20-gal (76 L) Tray (CR1217)

Item _____

Location(s) _____

Port Flushing System processes up to 10 rigid lumened surgical devices with both ultrasonic energy and internal flushing.

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 movement.

Large Capacity Process Tank accepts a large variety of instrument trays. One instrument tray is included with each unit. Tank weight capacity is as follows:

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

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

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.

Safety Interlocks and Controls help to ensure operator safety.

Front and Side Service Access Panels 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.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning our annual maintenance program. Under the terms of the program, 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 operating weight:
 - » Model CR115: 741 lb (317 kg).
 - » Model CR120: 741 lb (317 kg).
4. Sonic Cleaner must be mounted on a hard, level, non-combustible surface.
5. STERIS requires as a minimum a 2" floor drain: recommends a 6" diameter x 6" deep floor sink.

UTILITY REQUIREMENTS

Refer to equipment drawings (764335-351 and 764335-353) for installation details and specifications.

Electrical*

208 V, 60 Hz, 3-Phase; 208 or 240 V, 60 Hz, 1-Phase.

Drain

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

Hot Water

1/2" FPT CPVC (35-38 psi); 110-120°F (43-49°C).

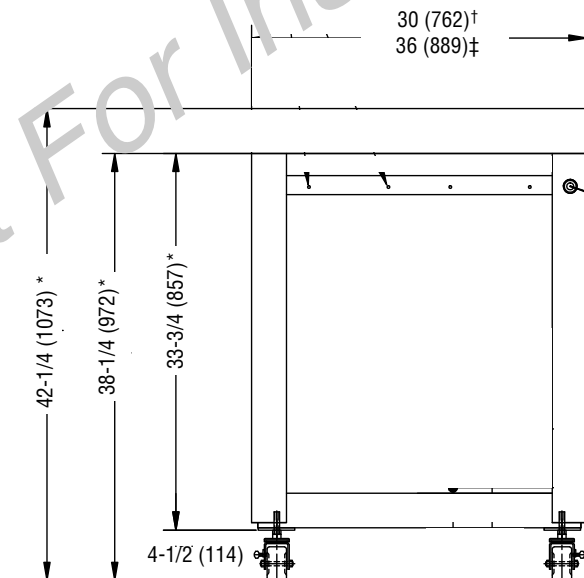
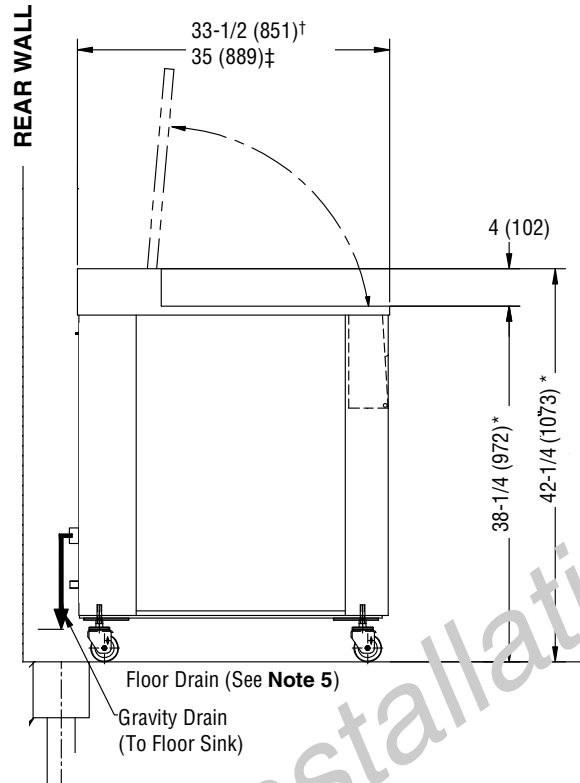
* Units must be ordered specifying required voltage and phase.

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

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

Refer to the Following Equipment Drawing for Installation Details

Equipment Drawing Number	Equipment Drawing Title
764335-351	Caviwave 15-W Ultrasonic Cleaner
764335-353	Caviwave 20-W Ultrasonic Cleaner



† = 15 gal
‡ = 20 gal
* ±1 (± 25)

Dimensions are typical – drawing is not to scale.

Dimensions are inches (mm)

TECHNICAL DATA

MODEL	POWER REQUIREMENTS (Amps)†			SONIC POWER (Watts)	SHIP WEIGHT	TANK FLUID CAPACITY	HEAT LOSS (BTU)	TRAY SIZE L x W x D*
	208 V		240 V					
	1 PH	3 PH	1 PH					
CR115		10		1000	696 lb (316 kg)	15 gal (57 L)	225	20 x 13-1/2 x 3-1/2" (508 x 343 x 89 mm)
CR1152081	14			1000	696 lb (316 kg)	15 gal (57 L)	225	20 x 13-1/2 x 3-1/2" (508 x 343 x 89 mm)
CR1152401			13	1000	696 lb (316 kg)	15 gal (57 L)	225	20 x 13-1/2 x 3-1/2" (508 x 343 x 89 mm)
CR12		16		1000	841 lb (382 kg)	20 gal (76 L)	275	24 x 13-1/2 x 3-1/2" (610 x 343 x 89 mm)
CR122081	20			1000	841 lb (382 kg)	20 gal (76 L)	275	24 x 13-1/2 x 3-1/2" (610 x 343 x 89 mm)
CR122401			19	1000	841 lb (382 kg)	20 gal (76 L)	275	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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