

APPLICATION

The AMSCO 2532 Single-Chamber Washer/Disinfector with touch screen control is intended for use in the cleaning and intermediate-level disinfection of soiled reusable utensils, trays, glassware, rubber and plastic goods, simple hard-surfaced rigid surgical instruments (such as forceps and clamps) and other similar items found in healthcare facilities.

DESCRIPTION

The AMSCO 2532 Unit is a mechanical washer/disinfector that includes:

- Color touch screen microprocessor control system
- Compact space saving footprint
- Effective, fast and energy efficient cycles
- Ability to flush up to six lumened instruments per load
- Manual drop-down glass doors.

Size (W x H x D):

- Exterior Dimensions:
 28-1/2 x 78 x 28-1/2" (724 x 1981 x 724 mm)
- Chamber Dimensions:
 25 x 25-1/2 x 25-1/4" (635 x 648 x 642 mm)

Load Height:

29-3/4" (756 mm) above finished floor.

STANDARDS

The washer/disinfector meets applicable requirements of the following standards:

- CAN/CSA-C22.2 No. 61010-1, Second Edition
- UL 61010-1, Second Edition
- CAN/CSA 61010-2-040:2007
- ANSI/AAMI ST 15883-1:2009
- CSA Z15883-1:2009
- ANSI/AAMI ST 15883-2 (Draft)
- CAN/CSA-Z314.8-08:Decontamination of Reusable Medical Devices



(Typical Only - Some Details May Vary)

Governing Directive for the affixing of the CE mark:

- Medical Devices Directive 93/42/EEC as amended by 2007/47/EC

Standards Applied to Demonstrate Conformity to the Directive:

- EN/IEC 61010-1: Second Edition; EN/IEC 61326-1:2005; EN/IEC 61010-2-040:2005
- EN ISO 15883-1:2006 Washer-disinfectors - General Requirements, Definitions and Tests
- EN ISO 15883-2:2006 Requirements and Tests for Washer-disinfectors Employing Thermal Disinfection for Surgical Instruments, Anesthesia Equipment, Holloware, Utensils, Glassware, etc.

The Selections Checked Below Apply To This Equipment

VOLTAGE*

- 208 V, 60 Hz, 3-Phase
- 380/400 V, 60 Hz, 3-Phase
- 380/400/415 V, 50 Hz, 3-Phase
- 460/480 V, 60 Hz, 3-Phase

OPTIONS

- Non-Vented Unit (FH1200000002)
- Impact Printer (FH120000000000003)

* Careful consideration should be given to voltage selection prior to ordering. Later changes require substantial field modification.

ACCESSORIES

- Manifold Rack, Three-Level (FD009)
- Manifold Rack, Three-Level Equal Space (FD019)
- Manifold Rack, Two-Level Equal Space (FD038)
- Side Drain Kit (FD035)
- Barrier Wall Flange for Soiled Side (FD028)
- Flexible Utilities Connection Kit (FD027)
- Seismic Package (FD029)
- Flexible Hose Replacement Tips (FD036)

DOOR CONFIGURATION

- Double
- Single

Item _____
 Location(s) _____

STANDARD FEATURES

Manual drop-down doors are constructed of double pane tempered glass to allow operator to view chamber interior with doors closed. Interior glass is 1/4" (6 mm) thick and exterior glass is approximately 1/8" (3mm) thick. Doors remain cool to touch while cycle is in progress. Each door is mounted on a compressed seal that reduces heat loss and increases heating capability.

Stainless-steel pump provides circulation using a 3 HP (2.2 kW) motor with up to 22 psig (151 kPa) at pump outlet. Pump motor is equipped with overload protection and sealed bearings (requiring no periodic lubrication).

Pump, spray system and all recirculating hard piping are of **stainless-steel construction**.

Unit drains between rinses to minimize residue remaining on instruments. To help prevent bacterial contamination, unit drains completely between cycles.

Manifold racks are equipped with rotary spray arms positioned to reach all load surfaces. Removable end-tips ensure easy spray arm cleaning and maintenance.

Electric heating element (three 4 kW, 12 kW total) in bottom of chamber (sump) raise and maintain water temperature up to 180°F (82°C) during Wash cycle and up to 194°F (90°C) during Thermal Rinse cycle.

Removable stainless-steel filter in chamber sump prevents debris from entering pump.

Wash chamber is constructed of argon-welded 20-gauge, #304 L, stainless steel (No. 4 finish). Chamber inhibits corrosive action of detergent, and is easy to clean, with no enameled surfaces to chip or crack should an object be accidentally dropped in chamber.

Chemical injection pumps (three) are located in lower portion of washer/disinfecter. Pumps allow use of Prolystica® 2X Concentrate cleaning products. Each concentrated product is two times the concentration of a traditional product, therefore two times less chemical is injected to properly process cycles.

Peristaltic pumps automatically add 1/8 to 2 oz/gal (1.0 to 16 mL/L) of regular chemicals to chamber. Pumps give flexibility to wash cycle with a neutral process, an enzyme process, a dual alkaline/enzyme and enzyme/neutralizer process or to vary chemical used depending upon load. One pump is dedicated to lubricant to be injected during Thermal Rinse phase.

A low-level sensor is included to indicate when container detergent level is low or when insufficient chemical is available for next cycle.

Control monitors volume of chemicals injected and indicates if this parameter meets specified criteria during all specific phases.

High-capacity air blower delivers heated (240°F [116°C]) fresh air through unit piping and manifold rack to promote complete drying. Fresh air is drawn through a HEPA filter.

Microprocessor control system is equipped with a touch screen Customer interface. This 5.7" (115 mm) color touch screen is mounted at eye level above chamber on load side, allowing easy monitoring of all wash cycles. Control system monitors and controls all phases of each programmed cycle. Control system includes four factory pre-programmed and validated cycles (Instruments, Utensils, AutoSink Instruments and AutoSink Utensils). Nine additional washing cycles may be programmed to meet extra Customer requirements.

The microprocessor control system features:

- Locking program cycle parameters with access code.
- Service mode for preventive maintenance testing and to facilitate troubleshooting.
- Built-in service diagnostic program to permit system calibration and verification of component operations.
- Security lock-out feature that enables programs and temperatures to be locked and unchangeable without the proper access code.
- Cycle data is stored as a protection against power disruption.
- Permits operator to monitor current washer/disinfecter status (including current chamber temperature and time remaining in phase).
- Indicates any abnormal conditions (alarm).
- Equipped with audible warning system.

Removable front service panels provide easy access to all piping, valves, electrical components and wiring. Servicing from sides of unit is not required.

A vented unit is supplied. Chamber vapors are exhausted to the building exhaust system through a 4.0" (102 mm) OD vent connection located on top of washer.

Drain discharge cool down ensures water drained at end of each phase, from chamber sump to building drain system, does not exceed 140°F (60°C). If water temperature in sump is higher than 140°F (60°C), cold water is automatically added to reduce water temperature discharged into building drain system.

Electrical control box is fan cooled to extend components life expectancy.

Language package is supplied in English, German, Spanish, French or Italian as requested: incorporating display messages, printouts, manuals and instructions. Other languages may be available on request.

Resistive Temperature Devices (RTD) sense temperature inside chamber. These signals, converted into electrical impulses, provide accurate control inputs and readouts throughout entire program. Individual temperature calibrations can be made by a trained service technician.

Pressure switches are used to monitor chamber sump water level. If pressure switch and/or temperature sensor failure occurs, alarm sounds and message is printed.

CYCLE DESCRIPTION

ADVISORY NOTE: *STERIS does not intend, recommend or represent in any way that this AMSCO 2532 Single-Chamber Washer/Disinfector be used for the terminal disinfection or sterilization of any regulated medical device. These Washer/Disinfectors are intended only to perform an initial step in the reprocessing of soiled, reusable medical devices. If medical devices contact blood or compromised tissues, such devices must be terminally reprocessed in accordance with current good hospital practices before each use in human patients.*

Items to be cleaned are placed on appropriate accessory manifold rack and pushed into chamber, automatically coupling with manifold solution transfer system. Operator closes door. Once a program is selected and START is pressed, unit proceeds through treatment schedule and automatically shuts off at cycle completion. A display message and audible alarm indicate load is ready to be removed.

Instruments and Utensils cycles (developed and validated to provide a total cleaning solution by pairing advanced washing technology with Prolystica 2X Concentrate cleaning products) phases are as follows:

- **Pre-Wash** – Cold water enters sump from building supply. Once sump fills, pre-wash water is recirculated and sprayed over load for selected time interval. At phase completion, water is sent to drain.
- **Wash** – Hot water enters sump from building supply and selected amount of enzymatic cleaner is added. Once water level is reached, solution is recirculated and sprayed over load. Solution is heated while recirculating. Once set temperature is reached, neutral detergent is injected. At phase completion, solution is sent to drain.
- **Rinse** – Hot water enters sump from building supply. Once sump fills, rinse water is recirculated and sprayed over load for selected time interval. At phase completion, water is sent to drain.
- **Thermal Rinse** – Pure water enters sump from building supply. If selected, instrument lubricant is added during this filling part of phase. Rinse water is heated and maintained 180-194°F (82-90°C). Once desired temperature is reached, rinse water is recirculated and sprayed over load for selected time interval. At phase completion, water is sent to drain.
- **HEPA-Filtered Drying** – Air is circulated through racks and chamber for set time. Air is directed through racks for fast drying. Temperature is factory set but is adjustable: at LOW - 180°F (82°C); HIGH - 240°F (116°C).

SAFETY FEATURES

AMSCO 2532 Single-Chamber Washer/Disinfector is equipped with **safety lockout feature** so program cannot start unless door is fully closed. Door is mechanically interlocked during cycle and cannot be opened until cycle completion.

INSTALLATION

AMSCO 2532 Single-Chamber Washer/Disinfector is designed as a fully enclosed cabinet for freestanding or recessed installation.

If unit is recessed through one or two barrier walls, stainless-steel barrier flanges are included to provide a finished wall appearance. Barrier wall flange for soiled side is available as an accessory.

Top utility connections facilitate installation. All utilities (except drain connections) are connected at top of unit.

OPTIONAL FEATURES

Non-Vented Unit is equipped with a cold water condenser. Vapor is exhausted through this condenser to room eliminating need for unit venting.

Impact Printer, if provided, produces an easy-to-read printed record of whether load was properly processed at the preset temperature, as well as a complete list of the alarm and abort in-cycle messages.

ACCESSORIES

Seismic anchorage system includes a seismic report for proper installing and securing of washer/disinfector to the building floor. Washer/disinfector is designed to comply with Seismic Zone 3 and 4 requirements.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning annual maintenance programs. Under 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. Customer must ensure washer/ disinfector stands on a noncombustible floor. (Floor should be level.)
2. STERIS recommends that shutoff valves and vacuum breakers (not provided by STERIS) be installed on service lines, and that disconnect switches (with lockout in OFF position; not provided by STERIS) be installed in electric supply lines near the equipment.
3. Unit operating weight: approximately 682 lb (310 kg). Unit weight: 540 lb (245 kg).

UTILITY REQUIREMENTS

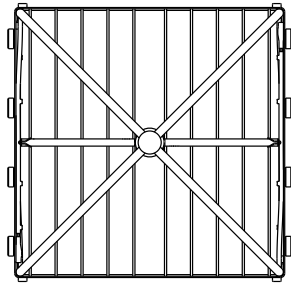
IMPORTANT: Refer to equipment drawing 10044018 for details.

Hot Water:	1/2" NPT
Cold Water:	1/2" NPT
Ventilation:	4" (102 mm) O.D.
Drain:	Recommended minimum 3" (76 mm) drain outlet.
Pure Water:	1/2" NPT
Electricity:	208 V, 60 Hz, 3-Phase, 60 Amp 380-400 V, 60 Hz, 3-Phase, 30 Amp 460-480 V, 60 Hz, 3-Phase, 30 Amp 380-415 V, 50 Hz, 3-Phase, 30 Amp

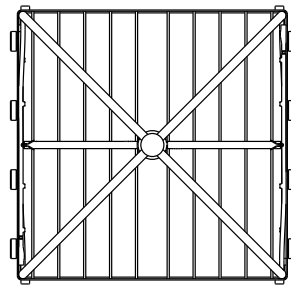
Dimensions are typical - drawing is not to scale.

Dimensions are inches (mm)

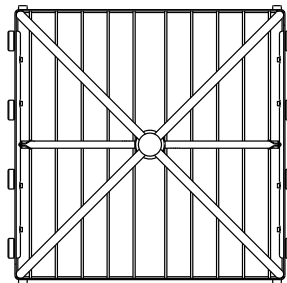
TOP VIEW



(FD009)



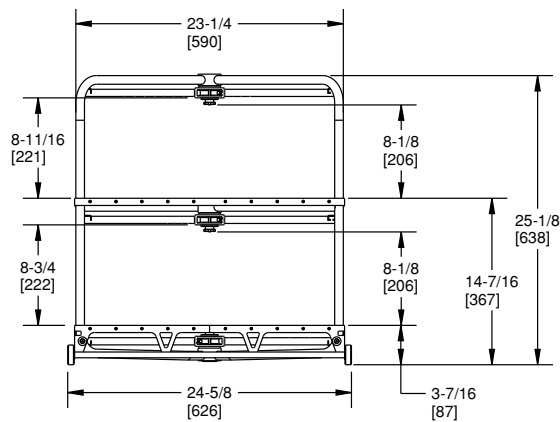
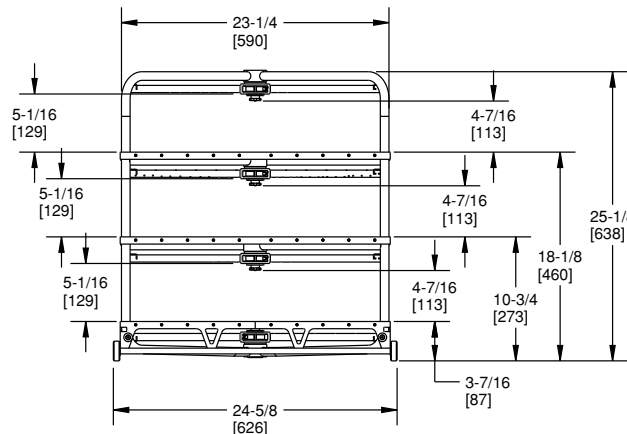
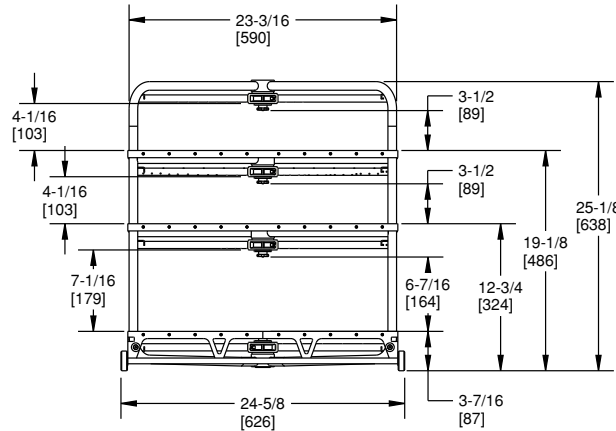
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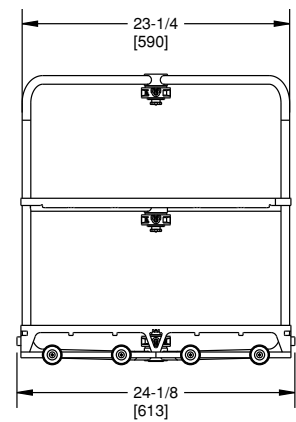
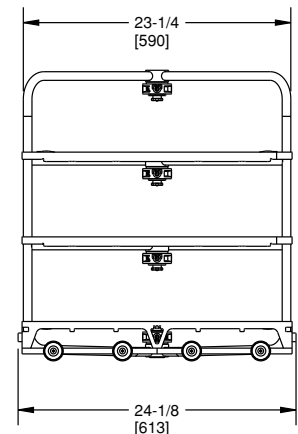
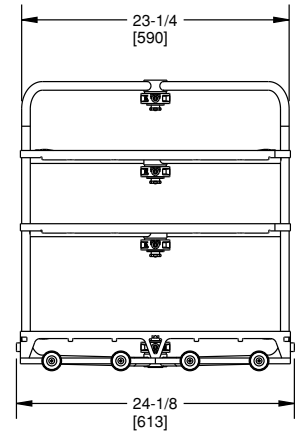
(FD038)

ACCESSORIES

FRONT VIEW



SIDE VIEW



For Further Information, contact:



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