

Product Overview

The Steris Amsco 2532 is a single chamber washer and disinfecter. It's designed to support smaller CSSD's and ambulatory surgery centers. The Steris 2532 utilizes a full coverage spray pattern with cross pattern spray nozzles to ensure complete coverage. This washer features a drop-down loading door that allows loading and unloading trays without the need of a transfer cart and an intuitive LCD touchscreen control panel which provides clear visibility and access to critical information. The Steris Amsco 2532 is intended for use in the cleaning and intermediate-level disinfection of soiled reusable utensils, trays, glassware, rubber and plastic goods, anesthesia instruments, simple hard-surfaced rigid surgical instruments (such as forceps and clamps) and other similar items found in healthcare facilities.



Steris Amsco 2532 Washer

Features

- 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
- Removable stainless-steel filter
- Drains between rinses to minimize residue remaining on instruments

Specifications

- **Exterior Dimensions:**
 - 28-1/2 x 78 x 28-1/2" (724 x 1981 x 724 mm)
- **Interior 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.
- **Manual Drop-down Doors:**
 - 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

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Specifications Continued

- **Manual Drop-down Doors Continued:**

approximately 1/8" (3 mm) 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:**

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

- **Electric Heating Element Continued:**

to 180°F (82°C) during Wash cycle and up to 194°F (90°C) during Thermal Rinse cycle.

- **Removable Stainless-steel Filter:**

Chamber sump prevents debris from entering pump.

- **Wash Chamber:**

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 pumps are located in lower portion of washer /disinfector. 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

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● **Chemical Injection Pumps Continued:**

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:**

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,

● **Microprocessor Control System Continued:**

Utensils, AutoSink Instruments and AutoSink Utensils). Nine additional washing cycles may be programmed to meet extra Customer requirements.

● **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 /disinfector status (including current chamber temperature and time remaining in phase).
- Indicates any abnormal conditions (alarm).
- Equipped with audible warning system.

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- **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:**

Fan cooled to extend components life expectancy.

- **Language Package:**

Supplied in English, Portuguese or Spanish 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:**

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

- **Impact Printer:**

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

- **CYCLE DESCRIPTION:**

ADVISORY NOTE: We do not intend, recommend or represent in any way that this AMSCO 2532 Single-Chamber

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● **CYCLE DESCRIPTION Continued:**

Washer/Disinfector (FH13) 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

● **CYCLE DESCRIPTION Continued:**

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.

NOTE: For anesthesia goods only, the lowest Thermal Rinse temperature is 176°F (80°C).

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● **CYCLE DESCRIPTION Continued:**

• **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 (FH13) 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.

● **UTILITY REQUIREMENTS:**

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: 220 V, 60 Hz, 3-Phase, 50 Amp

380 V, 60 Hz, 3-Phase, 30 Amp

380-415 V, 50 Hz, 3-Phase, 30 Amp

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE

● **UTILITY REQUIREMENTS Continued:**

WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

● **NOTES:**

1. Customer must ensure washer/ disinfector stands on a noncombustible floor. (Floor should be level.)
2. We recommend that shutoff valves and vacuum breakers (not provided) be installed on service lines, and that disconnect switches (with lockout in OFF position; not provided) be installed in electric supply lines near the equipment.
3. Unit operating weight: approximately 682 lb (310 kg). Unit weight: 545 lb (247 kg).

● **STANDARDS:**

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

● **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

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● STANDARDS Continued:

- 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.

● INSTALLATION

AMSCO 2532 Single-Chamber Washer/Disinfector (FH13) is designed as a fully enclosed cabinet for freestanding or recessed installation. If unit is recessed through one or two barrier walls, stainlesssteel 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.

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