



Seattle Technology  
3915 152nd St NE  
Marysville, WA 98271

1.800.827.3747

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## Product Overview

The AMSCO 7053L Single-Chamber Washer/Disinfector meets the demands for the highest-volume sterile processing departments. It is designed for cleaning and intermediate-level disinfection of soiled reusable utensils, trays, bedpans, and urinals. It can also be used for rubber and plastic goods, simple hard-surfaced rigid surgical instruments (such as forceps and clamps) and other similar and related articles found in healthcare facilities. The AMSCO 7053L Washer/Disinfector powers away soils with STERIS's exclusive Category 6 spray arm technology. Washer/disinfector is compliant with ANSI/AAMI ST15883-2 and ISO 15883-2 standards for thermal disinfection. Optional automation system minimizes handling time. The USB port enables simple methods for data management.



## Features

- **Productivity:**

Fast, 27-minute instrument cycle processes up to 15 DIN trays simultaneously.

- **Safe Operation:**

Easy to load racks minimize hands-on time with shelves that load from any side. Cool touch handles are staff-friendly.

- **Efficiency:**

Environmentally friendly design uses only 39 gallons of water per cycle.

## Specifications

- **Exterior Dimensions:**

- (W x H x D): 42 x 80-3/4 x 38"  
(1067 x 2051 x 965 mm)

- **Interior Chamber Dimensions:**

- (W x H x D): 26-1/2 x 26-1/4 x 31.5"  
(673 x 667 x 800 mm)

- **Load Height:**

- 31" (787 mm) above finished floor

- **Vertical sliding power door:**

- Door is constructed of double pane tempered glass to allow operator to view chamber interior with door closed.

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## Specifications Continued

### • Vertical sliding power door continued:

- While cycle is in progress, tempered glass door remains cool to touch.
- Door is pneumatically activated using touch screens located on the control panel (one each side of unit) and is equipped with a built-in safety system.
- Each door is mounted on a compressed seal that reduces heat loss and increases heating capability.
- If a power failure occurs, door can be opened manually. A door interlock feature is provided to prevent crosscontamination.

### • Stainless-steel Pump:

Powered by a dual-speed motor. High pump speed provides equivalent capacity of a 14 hp (10.4 kW) motor, 165 U.S. gal/min at 196 ft (625 L/min at 60 m) head pressure. Dual speed motor provides equivalent capacity of a 3.5 HP (2.6 kW) motor, 90 U.S. gal/min at 46 ft (341 L/min at 14 m) head pressure. Pump impeller is mounted directly on motor shaft and does not require additional bearings. Pump motor is equipped with a drip-proof frame, magnetic starter, overload protection and sealed bearings (not requiring periodic lubrication). Pump, spray system and all recirculating piping are of stainless-steel construction.

### • Wash Chamber:

- Chamber is constructed of 16-gauge, 316L stainless steel (No. 4 finish), argon-welded and polished.
- Chamber is of sanitary-type design (horizontal fixed surfaces are sloped, overlapping metal sheets) for complete drainability and to reduce hard-to-clean locations.
- Single-walled, insulated construction of chamber exterior reduces heat loss and noise level to the work area.
- Rotary spray assemblies are positioned (one at top and one at bottom of chamber, each measuring 24-3/8" [620 mm] long) to reach all load surfaces. Spray assemblies are easily removable without tools to aid in cleaning and maintenance.
- Depending on type of rack accessory in chamber, manifold connector (located at bottom of chamber) automatically connects to accessory at start of each cycle.
- 3-W LED light, mounted within an explosion/vapor-proof enclosure, illuminates chamber interior.

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## Specifications Continued

### ● Sump:

- Constructed of 316L stainless steel with 9.0 gal (34 L) capacity.
- Removable stainless-steel filter in chamber sump prevents debris from entering pump and piping system.
- Heating coil (steam or electric) at the bottom of the wash chamber (sump) raises and maintains water temperature up to 185°F (85°C) during the Wash phase and up to 194°F (90°C) during the Thermal Rinse phase.

### ● Chemical injection pumps:

- Pumps are optimized to use Prolystica® Ultra Concentrate (PUC) chemicals. Each ultra concentrated product is 10 times more concentrated than equivalent traditional product; so, 10 times less chemical is injected per cycle.
- The Washer/Disinfector comes with one enzyme and one detergent injection peristaltic pump which automatically add a selected quantity of chemical from 1/40 to 2 oz/gal (0.2 to 16 mL/L).
- Pumps give flexibility to dual wash combining PUC enzyme and PUC detergent.

### ● Chemical Injection Pumps Continued:

- One injection peristaltic pump is dedicated to automatically add a selected quantity of lubricant during Thermal Rinse phase.
- If desired, up to two additional chemical pumps can be added, giving flexibility to wash with neutral process, alkaline process, or to vary chemical used, depending on load type.
- Pumps are positioned near chemical containers. A low-level sensor is included to indicate when the detergent level in the container is low, or when insufficient chemical is available for the next cycle.
- 100' (30 m) extension tubes are included to pump chemicals from canisters installed in a remote location to the washer/ disinfector.
- Control monitors volume of chemicals injected and indicates if this parameter meets specified criteria during all specific phases.

### ● Microprocessor Control System:

Equipped with a touch screen Customer interface. This 8.4" (213 mm) color touch screen is mounted at eye level beside chamber door (both sides of unit) and tilted for better visibility,

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### ● **Microprocessor Control System Continued:**

allowing easy monitoring of all wash cycles. Control system monitors and controls all phases of each programmed cycle.

### ● **Microprocessor Control System Features:**

- 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. Data may be downloaded from controller using supplied USB ports.
- Permits operator to monitor current washer/disinfector status (including current chamber temperature, circulating pressure and time remaining in phase).
- Indicates any abnormal conditions (alarm).
- Equipped with audible warning system.

### ● **Technical Control Data:**

• Control system consists of two microcomputer printed circuit boards located within washer/disinfector.

### ● **Technical Control Data Continued:**

- Control system backs up all cycle memory for up to 300 cycles. If power failure occurs during cycle, control battery backup system verifies that cycle memory is retained.
- Resistance Temperature Detectors (RTDs) sense temperature inside chamber. These signals, converted into electrical impulses, provide accurate control inputs and readouts throughout entire cycle. Individual temperature calibrations can be made by a trained service technician. If temperature sensor failure occurs, alarm sounds and message is recorded (printer is an accessory).
- Water level sensors monitor water level of chamber sump. If water level sensor failure occurs, alarm sounds and message is recorded (printer is an accessory).

### ● **Top Utility Connections (except drain connections) Facilitate Installation.**

All utilities (including vent, steam, electric, water and compressed air) are connected on the top of the washer. Top water injection gives a secure

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## Specifications Continued

### ● Top Utility Connections Continued:

air gap of 31-1/2" (800 mm). Backflow preventers are not required for hot and pure water.

### ● Front Service Panels:

Provide easy access to piping, valves, electrical components and wiring. Service from side of unit is not required.

### ● Drying System:

Uses uniquely designed four-sided inflow drying pattern to produce high-flow air curtain. Air curtain provides broad, efficient, drying within wash chamber. Recycled and non-recycled air is manifolded and circulated through piping and accessory providing energy efficient system while ensuring complete chamber air coverage. Fresh air is drawn through a HEPA filter. Drying system includes a 3 hp (2.2 kW) blower, to remove vapor from chamber prior to opening doors, and three electric heaters totaling 11.8 kW to heat and maintain chamber air temperature.

### ● Vented System:

Exhausts chamber vapors to building exhaust system through a 3.0" (76 mm) OD vent connection located at top of washer.

### ● Pure Water Rinse Supply:

Available for custom cycles. Washer/Disinfector is equipped with Pure Water Stainless-Steel Supply Valve. Pure water from facility is sprayed over load under pump pressure for 15 seconds (adjustable from 15 seconds to 15 minutes). Up to four Pure Water Rinse treatments can be selected per cycle with recirculated water. Pure water can also be used for thermal disinfection stage and is heated to 194°F (90°C) using either steam or electric heaters.

### ● Drain Discharge Cool Down:

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

### ● Barrier Wall Flange Kit:

(FD148) consists of four 3-1/2" (89 mm) stainless-steel side flanges and two stainless-steel top flanges

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### ● Barrier Wall Flange Kit Continued:

To seal opening between washer/disinfector and wall (on both sides).

### ● CYCLE DESCRIPTION

**ADVISORY NOTE:** *STERIS does not intend, recommend or represent in any way that this AMSCO 7053L Single-Chamber Washer/Disinfector be used for the terminal disinfection or sterilization of any regulated medical device. AMSCO 7053L Washer /Disinfector is intended only to perform an initial step in the processing of soiled, reusable medical devices. If medical devices contact blood or compromised tissues, such devices must be terminally processed in accordance with good hospital practices before each use in human patients.*

- Once treatment cycle is selected, washer/disinfector automatically processes load through standard phases (additional phases are included in certain treatment cycles depending on unit configuration) as described on Cycle Charts and in supplied Operator Manual. AMSCO 7053L Single-Chamber Washer/Disinfector enables Customers to use Dual Wash phase combining PUC enzyme and PUC detergent in the same filling which accelerates cycle time and reduces water consumption.

### ● SAFETY FEATURES

Vertical chamber doors are equipped with an obstruction sensor to detect any door obstruction. If obstruction is present, door automatically opens. The washer/disinfector is equipped with a safety lockout feature so a cycle cannot start unless the door is fully closed. If the door is opened during a cycle, all utility services to chamber are shut off, and the cycle stops. Door interlock feature is provided to prevent crosscontamination. Door interlock feature allows only one door to be opened at a time whenever power is on. When the cycle is in process, door interlock prevents either door from being opened. Access to the load is then restricted. Safety stop pushbutton(s), one on the load and one on the unload side, automatically stop all unit operation when pressed. Building electrical supply disconnect switch must be used to shut off power to the unit before servicing.

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### ● NOTES

1. Machine is shipped in one crate (W x H x L): 47.5 x 93.5 x 47.5" (1207 x 2375 x 1207 mm).
2. Customer must ensure the washer/disinfector stands on a noncombustible floor (floor should be level).
3. Customer must provide utility connections with shutoff disconnects within 2' (0.6 m) of equipment perimeter and below ceiling deck or purchase Installation Kit.
4. We recommends vacuum breakers (not provided) be installed on service lines, and disconnect switches (with lockout in OFF position; not provided) be installed in electric supply lines near the equipment.
5. For all ventilation ducting from the washer/disinfector, we recommend installation of a dedicated, corrosionproof, flexible watertight duct (3" [76 mm] OD) to the exterior of the building, sloped toward the washer/disinfector.
6. Minimum ceiling height for removal of doors is 94" (2388 mm).
7. STERIS recommends illumination of the service area along with providing a convenience outlet for maintenance.
8. Noise level of 60.2 dB.
9. Operating Weight: 1330 lb (605 kg).

### ● STANDARDS

- **The AMSCO 7053L Single-Chamber Washer/Disinfector complies with the following standards:**
- **As Certified by Intertek:**
  - CAN/CSA-C22.2 No. 61010-1, Second Edition:2004
  - CAN/CSA-C22.2 No. 61010-2-040 First Edition:2007
  - UL 61010-1:2005
- **Governing Directive for the Affixing of the CE Mark:**
  - Medical Devices Directive 93/42/EEC as amended by 2007/47/EC
  - Machinery Directive 2006/42/ECStandards Applied to Demonstrate Conformity to the Directive:
  - IEC 61010-1 Second Edition (2001), EN 61326-1, 2013, IEC 61326-1 Second Edition (July 2012) and IEC 61010-2-040:2005
  - EN ISO 15883-1:2006, ANSI/AAMI ST15583-1:2009 and CAN/CSA Z15883-1:2009 Washer-Disinfectors – General Requirements, Definitions and Tests

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### ● STANDARDS Continued:

- EN ISO 15883-2:2006, ANSI/AAMI ST15583-2:2013 and CAN/CSA Z15883-2:2009 Requirements and Tests for Washer-Disinfectors Employing Thermal Disinfection for Surgical Instruments, Anesthesia Equipment, Holloware, Utensils, Glassware, etc.
- CAN/CSA-Z314.8-2008: Decontamination of Reusable Medical Devices

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