



Designation: F 953 – 94 (Reapproved 1998)

Standard Specification for Commercial Dishwashing Machines (Stationary Rack, Dump Type) Chemical Sanitizing¹

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1. Scope

1.1 This specification covers manually fed, spray-type, stationary rack, automatically controlled, dump type, chemical sanitizing commercial dishwashing machines.

2. Referenced Documents

2.1 ASTM Standards:

A 167 Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip²

A 276 Specification for Stainless Steel Bars and Shapes²

A 554 Specification for Welded Stainless Steel Mechanical Tubing³

A 582 Specification for Free-Machining Stainless Steel Bars²

B 127 Specification for Nickel-Copper Alloy (UNS NO4400) Plate, Sheet, and Strip⁴

F 760 Specification for Food Service Equipment Manuals⁵

2.2 OSHA Standard:⁶

Title 29, Code of Federal Regulations (CFR), Chapter XVII, Part 1910

2.3 NSF Standards:⁷

ANSI/NSF 3 Commercial Spray-Type Dishwashing and Glasswashing Machines

ANSI/NSF 29 Detergent/Chemical Feeders for Commercial Spray-Type Dishwashing Machines

NSF Listing Food Equipment

2.4 UL Standards:⁸

UL 921 Commercial Electric Dishwashers

UL 969 Marking and Labeling Systems

2.5 ASSE Standard:⁹

Std. No. 1004 Dishwashers

2.6 ANSI Standard:¹⁰

301 Preferred Diameters of Wire Terminations of Capacitors and Resistors

3. Terminology

3.1 Definitions:

3.1.1 *commercial dishwashing machines*—machines that uniformly wash, rinse, and sanitize eating and drinking utensils. The machines shall be capable of removing physical soil and sanitizing multiple use eating and drinking utensils. The dishwashing machines normally consist of the following principal parts: Legs, wash chamber hood, tank, doors, spray assemblies, pumps, motors, controls, piping, valves, chemical sanitizing equipment, and accessories.

4. Classification

4.1 *Types, Styles, Classes, and Groups*—Dishwashing machines shall be of the following types, styles, classes, size, and capacity groups as specified:

4.1.1 *Type I*—Straight-through model, 34 in. nominal table height. This machine is used in line with table on each side.

4.1.1.1 *Style A*—Single rack.

4.1.1.2 *Size and Capacity*, 19¾ by 19¾-in. (nominal) racks at minimum of 36 racks per hour.

4.1.1.3 *Style B*—Double rack.

4.1.1.4 *Size and Capacity*, 19¾ by 19¾-in. (nominal) racks at minimum of 72 racks per hour.

4.1.2 *Type II*—Corner model, 34 in. nominal table height. This machine is used in corner placement forming a 90° table on each side.

4.1.2.1 *Style A*—Single rack.

4.1.2.2 *Size and Capacity*, 19¾ by 19¾-in. (nominal) racks at minimum of 36 racks per hour.

4.1.2.3 *Style B*—Double rack.

4.1.2.4 *Size and Capacity*, 19¾ by 19¾-in. (nominal) racks at minimum of 72 racks per hour.

4.1.3 *Type III*—Under counter, front load. This machine may be installed under counters.

¹ This specification is under the jurisdiction of ASTM Committee F-26 on Food Service Equipment and is the direct responsibility of Subcommittee F26.01 on Cleaning and Sanitation Equipment.

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² Annual Book of ASTM Standards, Vol 01.03.

³ Annual Book of ASTM Standards, Vol 01.01.

⁴ Annual Book of ASTM Standards, Vol 02.04.

⁵ Annual Book of ASTM Standards, Vol 15.07.

⁶ Available from Superintendent of Documents, Government Printing Office, Washington, DC 20402.

⁷ Available from NSF International, P.O. Box 130140, Ann Arbor, MI 48113-0140.

⁸ Available from Underwriters Laboratories, Inc., 333 Pfingsten Road, Northbrook, IL 60062.

⁹ Available from American Society of Sanitary Engineering, P. O. Box 9712, Bay Village, OH 44140.

¹⁰ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.