



Designation: F 857 – 96

Standard Specification for Hot Water Sanitizing Commercial Dishwashing Machines, Stationary Rack Type¹

This standard is issued under the fixed designation F 857; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

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

1.2 The values stated in inch-pound units are to be regarded as the standard. The SI values given in parentheses are provided for information only.

2. Referenced Documents

2.1 ASTM Standards:

- A 29 Specification for Steel Bars, Carbon and Alloy, Hot-Wrought and Cold-Finished, General Requirements for²
- A 120 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated (Galvanized) Welded and Seamless, for Ordinary Uses³
- A 167 Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip⁴
- A 276 Specification for Stainless and Heat-Resisting Steel Bars and Shapes²
- A 436 Specification for Austenitic Gray Iron Castings⁵
- A 554 Specification for Welded Stainless Steel Mechanical Tubing⁶
- A 582 Specification for Free-Machining Stainless and Heat-Resisting Steel Bars, Hot-Rolled or Cold-Finished²
- B 43 Specification for Seamless Red Brass Pipe, Standard Sizes⁷
- B 75 Specification for Seamless Copper Tube⁷
- B 127 Specification for Nickel-Copper Alloy (UNS NO 4400) Plate, Sheet, and Strip⁸
- F 760 Specification for Food Service Equipment Manuals⁹
- F 861 Specification for Commercial Dishwashing Racks⁹

2.2 Federal Regulations:

OSHA Title 29¹⁰

2.3 American National Standards:¹¹

ANSI S1.4 Specification for Sound Level Meters

ANSI S1.13 Methods for the Measurement of Sound Pressure Levels

2.4 National Electrical Manufacturers Association Standards:¹²

NEMA ICS Industrial Controls and Systems

NEMA MG-1 Motors and Generators

2.5 National Fire Protection Association Standards:¹³

NFPA No. 70 National Electrical Code

2.6 NFS International Standards, Criteria, and Listings:¹⁴

NSF 3 Spray Type Dishwashing Machines

NSF 5 Commercial Hot Water Generating Equipment

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

NSF 51 Plastic Materials and Components Used in Food Equipment

NSF Criteria C-2 Special Equipment and/or Devices

NSF Food Equipment and Related Products, Components, and Materials

2.7 Underwriters Laboratories Standard:¹⁵

UL 921 Commercial Electric Dishwashers

2.8 American Society of Sanitary Engineering Standards:¹⁶

ASSE 1001 Pipe Applied Atmospheric Vacuum Breakers

ASSE 1004 Dishwashers

3. Terminology

3.1 Definition:

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 01.05.

³ Discontinued, see 1986 *Annual Book of ASTM Standards*, Vol 01.01.

⁴ *Annual Book of ASTM Standards*, Vol 01.03.

⁵ *Annual Book of ASTM Standards*, Vol 01.02.

⁶ *Annual Book of ASTM Standards*, Vol 01.01.

⁷ *Annual Book of ASTM Standards*, Vol 02.01.

⁸ *Annual Book of ASTM Standards*, Vol 02.04.

⁹ *Annual Book of ASTM Standards*, Vol 15.07.

¹⁰ *Code of Federal Regulations*, Chapter XVII, Part 1910, available from Superintendent of Documents, Government Printing Office, Washington, DC 20402.

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

¹² Available from National Electrical Manufacturers Assn., 2101 “L” Street, N.W., Washington, DC 20037.

¹³ Available from National Fire Protection Assn., Batterymarch Park, Quincy, MA 02269.

¹⁴ Available from NSF International, P.O. Box 130140, Ann Arbor, MI 48113-0140.

¹⁵ Available from Underwriters Laboratories, Inc., 333 Pfingsten Road, Northbrook, IL 60062.

¹⁶ Available from American Society of Sanitary Engineering, P. O. Box 9712 Bay Village, OH 44140.