



Designation: F 860 – 96

Standard Specification for Hot Water Sanitizing Commercial Dishwashing Machines, Multiple Tank, Rackless Conveyor Type¹

This standard is issued under the fixed designation F 860; 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 multiple tank, automatic rackless conveyor type, 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

2.2 *Federal Regulation:*

OSHA Title 29¹⁰

2.3 *American National Standards:*

ANSI S1.4 Specification for Sound Level Meters¹¹

ANSI S1.13 Methods for the Measurement of Sound Pressure Levels¹¹

2.4 *National Electrical Manufacturers Association Standards:*

NEMA ICS Industrial Controls and Systems¹²

NEMA MG-1 Motor and Generators¹²

2.5 *National Fire Protection Association Standard:*

NFPA No. 70 National Electrical Code¹³

2.6 *NSF International Standards, Criteria, and Listings:*

NSF 3 Spray Type Dishwashing Machines¹⁴

NSF 5 Commercial Hot Water Generating Equipment¹⁴

NSF 29 Detergent/Chemical Feeders For Commercial Spray Type Dishwashing Machines¹⁴

NSF 51 Plastic Materials and Components Used in Food Equipment¹⁴

NSF Criteria C-2 Special Equipment and/or Devices¹⁴

NSF Food Equipment and Related Products, Components, and Materials¹⁴

2.7 *Underwriters Laboratories Standard:*

UL 921 Commercial Electric Dishwashers¹⁵

2.8 *American Society of Sanitary Engineering Standards:*¹⁶

ASSE S1001 Pipe Applied Atmospheric Vacuum Breakers

ASSE S1004 Dishwashers

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.

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.