



Designation: ~~F1202-06~~ Designation: F1202 - 11

Standard Specification for Washing Machines, Heat Sanitizing, Commercial, Pot, Pan, and Utensil Vertically Oscillating Arm Type¹

This standard is issued under the fixed designation F1202; 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.

1. Scope

1.1 This specification covers manually fed, motor-driven vertically oscillating arm type, automatically controlled, commercial pot, pan, and utensil washing machines, hereinafter referred to as “the washer.”

1.2

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 The following precautionary statement pertains only to the test methods portion, Section 9 of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

~~A120 Specification for Pipe, Steel, Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless for Ordinary Uses~~

~~53/A53M Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless~~

A167 Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip

A276 Specification for Stainless Steel Bars and Shapes

A436 Specification for Austenitic Gray Iron Castings

A554 Specification for Welded Stainless Steel Mechanical Tubing

B43 Specification for Seamless Red Brass Pipe, Standard Sizes

B75 Specification for Seamless Copper Tube

B127 Specification for Nickel-Copper Alloy (UNS N04400) Plate, Sheet, and Strip

D3951 Practice for Commercial Packaging

F760 Specification for Food Service Equipment Manuals

F1021 Specification for Feeders, Detergent, Rinse Agent, and Sanitizing Agent for Commercial Dishwashing and Glasswashing Machines

2.2 American National Standards:³

ANSI SI.4 Specification for Sound Level Meters

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

2.3 Federal Regulation:⁴

OSHA Title 29

2.4 National Electrical Manufacturers Association Standards:⁵

NEMA ICS Industrial Controls and Systems

NEMA MG-I Motors and Generators

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

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁴ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.

⁵ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.

⁵ Available from National Electrical Manufacturers Association, 2101 L St. N.W., Washington, DC 20037.

2.5 *National Fire Protection Association Standard:*⁶

NFPA/ANSI 70 National Electrical Code

2.6 *NSF International Standards:*⁷

NSF/ANSI 3 Commercial Warewashing Equipment

NSF/ANSI 5 Commercial Hot Water Generating Equipment

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

NSF Listings—Food Equipment

2.7 *Underwriters Laboratories Standard:*⁸

~~UL 921 Commercial Electric Dishwashers~~ Commercial Dishwashers

3. Terminology

3.1 *Definition:*

3.1.1 *commercial pot, pan and utensil washing machines*—~~machines that uniformly wash, rinse, and heat sanitize food preparation utensils. The machines shall be capable of removing physical soil and sanitizing multiple pots, pans, and utensils from properly racked and pre-scraped items. The machines may consist of the following principal parts: legs, wash chamber, hood, tank, doors, spray assemblies, pumps, motors, controls, piping, valves, heating equipment, and accessories.~~ machines that uniformly wash, rinse, and heat sanitize food preparation utensils. The machines shall be capable of removing physical soil from properly racked and pre-scraped items, and sanitizing multiple pots, pans, and utensils.

4. Classification

4.1 *General*—The washer shall be of the following types, styles, sizes, and classes as specified.

4.2 *Types:*

4.2.1 *Type I*—One rack capacity.

4.2.1.1 *Style A*—One door (front-loading).

4.2.1.2 *Style B*—Three doors (pass-through with front load inspection door).

4.3 *Tank Heat:*

4.3.1 *Style I*—Steam heated.

4.3.1.1 *Class A*—Injection.

4.3.1.2 *Class B*—Heat Exchange Coil.

4.3.2 *Style 2*—Electric Heat.

5. Ordering Information

5.1 Purchasers should select the preferred options permitted in this specification and include the following information in the procurement document:

5.1.1 Title, number, and date of this standard type, style, and class of machine required.

5.1.2 A pressure reducing valve, if required (see 7.4). Incoming water pressure must be specified when ordering a pressure reduction valve.

5.1.3 A standard 40°F (22°C) temperature rise steam or electric booster is required. If the required temperature rise is more than 40°F (22°C) (see 7.13), it should be specified.

5.1.4 Electrical power supply characteristics (voltage, phase, frequency) (see 7.11.3).

5.1.5 A detergent feeder, if required (see 7.14).

5.1.6 Accessory equipment, spare and maintenance parts required, as specified in order.

5.1.7 Treatment and painting, if other than specified (see 7.17).

5.1.8 When energy consumption profiles, water consumption profiles, or productivity profiles are desired (see 9.3).

5.1.9 Manufacturer's certification, when required (see Section 10).

6. Materials

6.1 All materials shall be specified as follows:

6.1.1 Materials used shall be free from defects that would adversely affect the performance or maintainability of individual components of the overall assembly. The pot, pan, and utensil washing machines shall meet the material, design, and construction requirements of NSF/ANSI 3.

⁶ Available from National Electrical Manufacturers Association, 2101 L St. N.W., Washington, DC 20037.

⁶ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02269-9101.

⁷ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02269-9101.

⁷ Available from NSF International, P.O. Box 130140, 789 N. Dixboro Rd., Ann Arbor, MI 48113-0140.

⁸ Available from NSF International, P.O. Box 130140, 789 N. Dixboro Rd., Ann Arbor, MI 48113-0140.

⁸ Available from Underwriters Laboratories (UL), 333 Pfingsten Rd., Northbrook, IL 60062.