



Standard Specification for Powered Pot, Pan and Utensil Washing Sinks¹

This standard is issued under the fixed designation F2643; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This specification covers commercial powered pot, pan and utensil washing sinks.

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 *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

[A29/A29M Specification for General Requirements for Steel Bars, Carbon and Alloy, Hot-Wrought](#)

[A120 Specification for Pipe, Steel, Black and Hot-Dipped Zinc-Coated \(Galvanized\) Welded and Seamless for Ordinary Uses; Replaced by A 53 \(Withdrawn 1987\)](#)³

[A167/A240/A240M Specification for ~~Stainless Chromium and Heat-Resisting Chromium-Nickel~~ \[Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications\]\(#\) \(Withdrawn 2014\)](#)

[A276 Specification for Stainless Steel Bars and Shapes](#)

[A436 Specification for Austenitic Gray Iron Castings](#)

[A554 Specification for Welded Stainless Steel Mechanical Tubing](#)

[A582/A582M Specification for Free-Machining Stainless Steel Bars](#)

[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](#)

[F760 Specification for Food Service Equipment Manuals](#)

[F2379 Test Method for Energy Performance of Powered Open Warewashing Sinks](#)

2.2 *Federal Regulations:*⁴

[OSHA Title 29 Chapter XVII, Part 1910](#)

2.3 *American National Standards:*⁵

[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:*⁶

[NEMA ICS Industrial Controls and Systems](#)

[NEMA MG-1 Motors and Generators](#)

2.5 *National Fire Protection Association Standards:*⁷

[NFPA No. 70 National Electrical Code](#)

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

Current edition approved Oct. 1, 2009 Aug. 1, 2015. Published October 2009 September 2015. Originally approved in 2007. Last previous edition approved in 2007 2009 as F2643—07-F2643 – 09. DOI: 10.1520/F2643-09.10.1520/F2643-15.

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 The last approved version of this historical standard is referenced on www.astm.org.

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

⁵ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.

⁶ Available from National Electrical Manufacturers Association (NEMA), 1300 N. 17th St., Suite 1752, Rosslyn, VA 22209, http://www.nema.org.

⁷ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, http://www.nfpa.org.

2.6 *NSF International Standards:*⁸

[NSF/ANSI 2 Food Equipment](#)

[NSF/ANSI 51 Plastic Materials and Components Used in Food Equipment](#)

[NSF Listings Food Equipment](#)

2.7 *Underwriters Laboratories Standards:*⁹

[UL 921 Commercial Electric Dishwashers](#)

2.8 *American Society of Sanitary Engineering-ASSE International Standards:*¹⁰

[ASSE 1001 Pipe Applied Atmospheric Vacuum Breakers](#)

3. Terminology

3.1 *Definitions:*

3.2 *powered pot, pan and utensil washing sink, n*—an all-purpose, stainless steel water basin with electrically powered water pump(s) and multiple high flow water nozzles designed for cleaning pots, pans and utensils.

⁸ Available from NSF International, P.O. Box 130140, 789 N. Dixboro Rd., Ann Arbor, MI 48113-0140, <http://www.nsf.org>.

⁹ Available from Underwriters Laboratories (UL)-UL LLC, 333 Pfingsten Rd., Northbrook, IL 60062-2096, <http://www.ul.com>.

¹⁰ Available from ASSE International, 901 Canterbury, Suite A, Westlake, OH 44145, 18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448, info@asse-plumbing.org.

3.2.1 *Discussion—*

The main washing basin holds 50 to 100 gal (189 to 379 L) of heated water. The unit may or may not feature a scrapper sink (with or without a disposer), rinse tank, sanitizing tank, or a drain table, or a combination thereof. The machines shall consist of the following principal parts: legs, wash basin, rinse basin, sanitizing basin, clean and soiled end drain boards, spray nozzles, pump, motor, controls, and piping. May or may not be provided with an electric heater, faucet, pre-rinse spray hose and other accessories.

4. Classification

4.1 *General*—Powered pot, pan and utensil washing sink shall be of the following types, styles, classes, size, and capacity group, as specified:

4.2 *Types:*

4.2.1 *Type I (Right-to-Left)*—This machine is designed with the utensil flow from the right to the left as you are facing the machine.

4.2.2 *Type II (Left-to-Right)*—This machine is designed with the utensil flow from the left to the right as you are facing the machine.

4.3 *Styles and Classes:* <http://www.astesia.com/catalog/standards/sist/d4e28b8d-c9c8-413e-b7ee-d028dd3937cc/astm-f2643-15>

4.3.1 *Style 1* (electrically heated wash tank).

4.3.1.1 *Class A* (single temperature set point)

4.3.1.2 *Class B* (dual temperature set points)

4.3.2 *Style 2* (no heat).

4.4 *Size and Capacity:* Sizes are as follows:

4.4.1 *Drainboards, soiled and clean ends*—(typically 12, 18, 20, 24, 30, 36, 42, 48, 54, or 60 in. (30, 46, 51, 61, 76, 91, 107, 122, 137, or 152 cm))

4.4.2 *Scrapper section*—(typically 20 or 36 in. (51 or 91 cm)). May or may not be provided with a disposer.

4.4.3 *Wash Sink*—(typically 30, 32, 36, 42, 48, 54, or 60 in. (76, 81, 91, 107, 122, 137, or 152 cm)).

4.4.4 *Rinse Sink*—(typically 15, 18, 20, 24, 30, or 36 in. (38, 46, 51, 61, 76, or 91 cm)).

4.4.5 *Sanitizer Sink*—(typically 18-1/2, 20, 24, 30, or 36 in. (47, 51, 61, 76, or 91 cm)).

4.5 All powered pot, pan and utensil washing sinks of the same classification, model, or material list designation furnished with similar options under a specific purchase order shall be identical to the extent necessary to ensure interchangeability of component parts, assemblies, accessories, and spare parts.

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,

5.1.2 Type, and size machine required, including width of each sink section and drainboards (see 4.1),

5.1.3 Noise level requirements, if other than specified (see 11.2),

5.1.4 When a service-supply valve is required (see 7.4),

5.1.5 When overflows are required (see 7.7),