



Household Electric Dishwashers

AHAM DW-1- 2019



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PREFACE

The Association of Home Appliance Manufacturers develops standards in accordance with AHAM's "Policy and Procedures Governing Technical Standards" which states:

"AHAM Standards shall be in the best interest, mutually, of consumers who use appliances, the industries which provide and service appliances, and other interested parties. They shall relate to actual use conditions and be technically and scientifically sound."

Use or observance of AHAM standards is voluntary.

This standard contains:

Test procedures that may be applied to any brand or model of household electric dishwashers. Results of tests in accordance with this standard may be publicly stated.

Recommended levels of performance which are considered important to include but which, necessarily, are recommendations only.

With regard to safety, AHAM recommends that all appliance products -- both major and portable -- manufactured or marketed in the United States be submitted to a Nationally Recognized Testing Laboratory (NRTL¹) for inspection and listing in conformance with the safety standards and procedures followed by such laboratories. The relevant standard for dishwashers is ANSI/UL 749, CAN/CSA C22.2 No. 167 "Standard for Safety, Household Dishwashers," latest edition.

AHAM welcomes comments and suggestions regarding this standard. Any standard may be reviewed and improved as needed. All standards must be updated or reconfirmed at least every five years. Any interested party, at any time, may request a change in an AHAM standard. Such request should be addressed to AHAM's president, and should be accompanied by a statement of reason for the request and a suggested alternate proposal.

¹ The Occupational Safety and Health Administration (OSHA) recognizes laboratories that have the necessary qualifications to perform safety testing and certification of specific products covered within a scope of recognition as Nationally Recognized Testing Laboratories (NRTL).

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1. PURPOSE

This standard establishes uniform, repeatable procedures or standard methods for measuring specified product characteristics of household electric **dishwashers**.

The standard methods provide means to compare and evaluate different brands and models of household electric **dishwashers** regarding characteristics significant to product use.

The standard methods and the recommended levels of performance are not intended to inhibit improvement and innovation in product testing, design or performance.

2. SCOPE

2.1 This standard only applies to **automatic** and **non-automatic** household **dishwashers** as defined in 3.2.3.

2.2 This standard includes definitions, methods for testing and evaluating **dishwasher** cleaning performance, a reference to testing for safety and methods of testing and recommended levels for inlet and drain tubing of household electric **dishwashers** of the types indicated. The standard also includes recommendations for the **dishwasher** drain connection to a food waste disposer, inlet and drain tubing tests, references to energy and water consumption measurement methods, and safety.

This standard does not specify test methods for determining energy consumption, water consumption, drying performance, or sound levels or noise for **dishwashers**.

3. DEFINITIONS

3.1 Dishwasher. A machine which washes, rinses, and (when drying process is included) dries dishware, glassware, **flatware** and cooking utensils by chemical, mechanical, and/or thermal means.

3.2 Dishwasher Types

3.2.1 Installation

3.2.1.1 Built-In. A **built-in dishwasher** is a **dishwasher** which is permanently connected to the household water supply lines and may be installed to the electrical supply either permanently or with a power cord.

3.2.1.2 Portable. A **portable dishwasher** is a **dishwasher** which is not permanently connected to the household water and electric supply lines. It may be mounted on wheels and easily moved from one place to another in normal use.

This definition includes **dishwashers** intended to be used on a countertop or table.

3.2.1.3 Convertible. A **convertible dishwasher** is a **portable dishwasher** which has been specifically designed so that, with modifications, it may be “converted” or changed readily to be permanently installed, placed and used as any other **built-in dishwasher**.

3.2.1.4 Free-Standing. A **free-standing dishwasher** is a **dishwasher** of the **built-in** or **convertible** type provided with a top and side enclosure, installed as a free-standing unit instead of under the kitchen work surface or countertop, and may or may not be

permanently connected to the household water and electric supply.

3.2.2 Loading

3.2.2.1 A **front opening dishwasher** is a type of a **dishwasher** with a front door or drawer opening through which the machine is loaded or unloaded.

3.2.2.2 A **top opening dishwasher** is a type of **dishwasher** with a top cover or lid that is raised to provide an opening through which the machine is loaded or unloaded.

3.2.3 Operation

3.2.3.1 An **automatic dishwasher** is one in which, after one setting of controls, performs a complete cycle and stops without further attention by the user.

3.2.3.2 A **non-automatic dishwasher** is one which requires some manual operation or resetting of the controls during the **cycle** in order to complete a **cycle**.

3.2.4 Size Classification

3.2.4.1 Standard. A **dishwasher** with a capacity of **8 place settings** or more.

3.2.4.2 Compact. A **dishwasher** with a capacity of less than **8 place settings**.

3.3 Dishwasher Capacity (also referred to as the “**table setting** capacity” of the household electric dishwasher). The number of **place settings** and **serving pieces** that may be placed in a **dishwasher** in accordance with 5.2.

3.4 Place Setting. The dishware, glassware and **flatware** for one person. It consists of the items shown in Table 1 (See Appendix C).

Table 1 – Place setting
(See Appendix A for sources.)

Item	Company / Designation
<u>Dishware</u>	
1 cup – 7 fl oz (207 ml)	Arzberg # 1382 00001 4732
1 saucer - 5.5 in (14.0 cm)	Arzberg # 1382 00001 4731
1 dinner plate - 10 in (25.4 cm)	Corelle® # 5256294
1 bread and butter plate - 6.7 in (17.0 cm)	Corelle® # 5256286
1 fruit bowl - 10 oz (296 ml)	Corelle® # 5256297
<u>Glassware - Clear, No Pattern</u>	
1 ice tea glass - 12.5 fl oz (355 ml)	Libbey # 551HT
<u>Flatware</u>	
1 knife - solid handle	WMF # 12.0803.6047
1 dinner fork	WMF # 12.1905.6040
1 salad fork	WMF # 12.1964.6040
2 teaspoons	WMF # 12.1910.6040