



Standard Specification for Noncarbonated Mechanically Refrigerated Beverage Dispenser (Visible Product)¹

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

1. Scope

1.1 This specification covers counter-top model noncarbonated beverage dispensers that are mechanically refrigerated and have rigid, transparent, impact-resistant containers to afford a visual display of the beverage dispensed. The beverage dispensers covered by this specification are intended to circulate, cool, and dispense noncarbonated beverages such as pulpy juices, frozen concentrates, and syrup drinks.

1.2 The following safety hazard caveat pertains only to the test method portion, Section 11, 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:

D 3951 Practice for Commercial Packaging²

F 760 Specification for Food Service Equipment Manuals³

F 1166 Practice for Human Engineering Design for Marine Systems, Equipment and Facilities⁴

2.2 NSTA Standard:

NSTA Pre-Shipping Test Procedures⁵

2.3 ANSI/NSF International Standards:

NSF Standard No. 18, Manual Food and Beverage Dispensing Equipment⁶

NSF Standard No. 51, Plastic Materials and Components Used in Food Equipment⁶

2.4 ANSI/UL Standards:

UL Standard No. 471, Commercial Refrigerators and Freezers⁷

UL Standard No. 969, Marking and Labeling Systems⁷

2.5 ANSI Standard:

ANSI Z1.4, Sampling Procedures and Tables for Inspection by Attributes⁸

2.6 Military Standards:

MIL-STD-167/1 Mechanical Vibrations of Shipboard Equipment Type I—Environmental and Type II—Internally Excited

MIL-STD-461 Requirements For the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment

MIL-STD-1399/300 Interface Standard for Shipboard Systems, Section 300A, Electric Power, Alternating Current

3. Terminology

3.1 Definitions:

3.1.1 *aeration system*—a type of circulation system that causes the beverage to cascade across the top and down the sides of the bowl interior incorporating air into the beverage.

3.1.2 *beverage dispenser*—a beverage dispenser is a commercial appliance designed to deliver a beverage.

3.1.3 *circulation system*—the system that moves the beverage within the bowl to ensure proper cooling and mixing.

3.1.4 *whippers*—a mechanical device used to beat air into a beverage so as to change its properties from a liquid drink to a frothy drink.

4. Classification

4.1 *General*—The beverage dispensers shall be of the following types, classes, styles, sizes, and electrical ratings:

4.2 Types:

4.2.1 *Type I*—Dispenser with circulation system and with overhead spray type aeration system (for syrup drinks and other nonfoaming beverages).

¹ This specification is under the jurisdiction of ASTM Committee F26 on Food Service Equipment and is the direct responsibility of Subcommittee F26.03 on Storage and Dispensing Equipment.

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² *Annual Book of ASTM Standards*, Vol 15.09.

³ *Annual Book of ASTM Standards*, Vol 15.07.

⁴ *Annual Book of ASTM Standards*, Vol 01.07.

⁵ Available from National Safe Transit Association, 6022 West Touhy Ave., Chicago, IL 60648.

⁶ Available from National Sanitation Foundation, NSF Building, Ann Arbor, MI 48105.

⁷ Available from the Underwriters Laboratories Inc., 1655 Scott Blvd., Santa Clara, CA 95050; 333 Pfingsten Road, Northbrook, IL 60062; 1285 Walt Whitman Road, Melville, L.I., NY 11746; or 2602 Tampa East Blvd., Tampa, FL 33619.

⁸ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.