

INCH-POUND
A-A-59191
12 May 1998

COMMERCIAL ITEM DESCRIPTION

URN, COFFEE, SINGLE AND TWIN, AUTOMATIC, ELECTRIC (NAVAL SHIPBOARD)

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. SCOPE

This commercial item description (CID) covers counter-mounted automatic coffee urns intended for brewing coffee and dispensing coffee and hot water for Naval shipboard use.

2. CLASSIFICATION

Type 1: Single compartment

Type 2: Twin compartment

Size 1: 3 gallons each compartment

Size 2: 6 gallons each compartment

3. SALIENT CHARACTERISTICS

3.1 Design and construction. The urn shall have either one or two coffee compartments and one water heating compartment. The urn shall automatically brew coffee and operate via push-button control. The following functions shall be performed automatically:

- Heating the water
- Spraying a measured amount of hot water over the ground coffee
- Refilling the water compartment
- Maintaining the brewed coffee temperature
- Delivering brewed coffee and hot water to the faucets
- Agitating the coffee at the end of the brew cycle

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any other data which may improve this document should be sent to: Commander, Naval Sea Systems Command, 2531 Jefferson-Davis Highway, Arlington, VA 22242-5160.

AMSC N/A

FSC 7310

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A-A-59191

The water compartment shall be nonpressurized and shall have a capacity of not less than 8 gallons for size 1 urns, and not less than 12 gallons for size 2 urns. The urn shall be provided with a special brewing device or adapter to automatically brew one-half of the compartment capacity. The spray-over temperature of the water shall be between 195°F and 210°F. The spray head shall evenly distribute water over the ground coffee without overspraying or pocketing. The spray-over device and piping shall deliver the required amount of water to brew urn grind coffee (also referred to as drip or universal grind) in not greater than 6 minutes, and regular grind coffee in not greater than 13 minutes. The solids in the brewed coffee shall be between 1.15 and 1.32 percent of the total weight of the brew in each compartment. The urn shall maintain brewed coffee at a temperature between 180°F and 190°F. Initial heat-up time shall be not greater than 50 minutes, and recovery time between brews shall be not greater than 15 minutes, based on an incoming water temperature of 70°F. The urn shall be provided with low water protection which shuts off electric power when the water level drops below a point considered to be detrimental to the unit. The urn shall have a liquid level sight glass with a guard for each coffee compartment and water compartment. The urn shall thermostatically control water temperature at an operating range of 175°F to 220°F. The urn shall alternatively use both paper and muslin leacher bags, and shall be provided with a stainless steel leacher assembly. If muslin filter bags are supplied, at least six shall be provided. The urn, including coffee and water compartments and covers, shall have a thickness of not less than 20-gauge stainless steel. Other metal fittings and hardware shall be brass with chrome-nickel plating or stainless steel, except as required below. The urn shall be not greater than 36 inches wide by 20 inches deep by 31 inches high. The urn shall be provided with one coffee faucet per compartment and one hot water faucet. Coffee faucets shall be gravity fed, while the hot water faucet may be gravity fed or tap water fed. The urn shall have 4-inch stainless steel legs for level support, provided with means for secure mounting to a counter. The urn shall be heated by immersion-type heating elements rated for the specified voltage, frequency, and phase. Heating elements shall be replaceable after installation of the urn.

3.2 Inclined operation. The urn shall operate satisfactorily (in accordance with the requirements of this CID) with no spillage of liquid or product, or contact of liquid with the leacher, when filled with the specified amount of brew and test-operated for 30 seconds inclined at an angle of 15° (30° when specified for submarines) each side of the vertical in each of the two vertical planes at right angles to each other. (Shipboard requirement, see 7.2)

3.3 Accessibility. The unit shall be physically and visually accessible from the front for operation and for normal maintenance with tools, test equipment, and replacement parts. No special tools shall be required for access or parts replacement.

3.4 Faucets. Faucets shall be anti-splash, self-closing with replaceable seat cups or washers, and operable through temperatures up to 220°F. The clearance between the bottom of the compartment faucets and the drip trough splash cover shall be between 11 and 13 1/4 inches. Handles and knobs subject to temperatures above 120°F shall be plastic.

3.5 Electrical requirements. The unit shall operate on 440 VAC, 60 Hz, three-phase power, as defined in MIL-STD-1399, Section 300, and shall have provisions for making direct (hardwired) connections for electric power (2 conductors) and for equipment grounding (1 conductor). All outermost metallic surfaces shall be grounded via the equipment grounding connection. The grounding resistance between any exposed metallic surfaces and the common ground point shall be not greater than 0.1 ohm. Electrical components, other

than the hermetically sealed motor, shall be provided in accordance with NEMA 250, Type 13 or equivalent enclosure protection. Metal parts of electrical components and enclosures shall be inherently corrosion resistant or shall be treated and processed for corrosion resistance in accordance with IEEE Standard 45. (Shipboard requirement, see 7.2)

3.5.1 Power rating. The urn shall be rated in the range of 12 to 15 kW.

3.6 High voltage labels. A label reading "Danger-High Voltage" shall be affixed to the outer case assembly, on or adjacent to each service access cover near one of the fasteners securing the cover. In addition, a warning label in accordance with UL 969 shall be placed near the high voltage components inside the equipment. This label shall include, but not be limited to the following texts:

- Danger-High Voltage.
- Power supply must be disconnected before servicing.
- Access covers must be in place before use.
- Service should be performed by authorized personnel only.

3.7 Standards compliance. The unit shall be in accordance with and certified to meet the applicable requirements of NSF 4, UL 197, and UL 969.

3.8 Cleaning brush. A flexible brush suitable for cleaning faucets, pipes, shank connections, and gage glasses shall be provided with each urn.

3.9 Label plates. The unit shall be provided with a data nameplate and an instruction plate, both attached to the front of the unit. They shall be readily visible during normal operating use and shall not adversely affect the life and utility of the unit.

3.9.1 Data nameplate. The data nameplate shall contain the manufacturer's name, model, serial number, date manufactured, and any other information needed to uniquely identify the unit.

3.9.2 Instruction plate. The instruction plate shall provide instructions for start-up, operation, and shut-down.

3.10 Finish. Stainless steel shall have a number 4 or better standard commercial finish, in accordance with ASTM A 480. Surfaces of the coffee containers in contact with brewed coffee shall have a number 8 mirror finish or electropolish finish.

4. REGULATORY REQUIREMENTS

The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation.

5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The product provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market, or the same product that has been delivered to the Government for shipboard use on a previous procurement. The Government reserves the right to require proof of such compliance.

A-A-59191

6. PACKAGING

Preservation, packing, and marking shall be as specified in the contract or purchase order.

7. NOTES

7.1 Ordering data.

- Title, number, and date of this CID
- Type and size required
- When required, manuals shall be in accordance with ASTM F 760

7.2 Shipboard requirement. Whenever a "(Shipboard requirement)" is included in a paragraph under SALIENT CHARACTERISTICS, it is meant that the requirement is something that is not normally offered to the commercial market by the manufacturer.

7.3 Source of documents.

7.3.1 Military documents. Copies of documents required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.

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

7.3.2 American Society for Testing and Materials (ASTM) Standards. ASTM Standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM A 480 - General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip
ASTM F 760 - Food Service Equipment Manuals

7.3.3 National Sanitation Foundation International (NSF) Standards. NSF Standards are available from the National Sanitation Foundation International, 3475 Plymouth Road, P.O. Box 130140, Ann Arbor, MI 48113-0140.

NSF 4 - Commercial Cooking, Rethermalization and Powered Hot Food
Holding and Transport Equipment

7.3.4 Underwriters Laboratories (UL) Standards. UL Standards are available from the Underwriters Laboratories Inc., 333 Pfingston Road, Northbrook, IL 60062.

UL 197 - Commercial Electric Cooking Appliances
UL 969 - Marking and Labeling Systems

7.3.5 The Institute of Electrical and Electronic Engineers (IEEE) Standards. IEEE Standards are available from The Institute of Electrical and Electronic Engineers, 445 Hose Lane, P.O. Box 1331, Piscataway, NJ 08855-1331.

IEEE 45 - IEEE Recommended Practice for Electric Installations on
Shipboard

7.4 Suggested sources of supply. Manufacturers of products known to meet the requirements of this CID are listed below. However, competition is not limited to these companies.

A-A-59191

American Metal Ware
1835 Raymond Drive
Northbrook, IL 60082

Blickman Equipment Corporation
2017 Kerrigan Avenue
Union City, NJ 07087

Wilbur Curtis Co. Inc.
1781 Indian Street
Los Angeles, CA 90063-2523

MILITARY INTERESTS:

Custodian:
Navy - SH
Army - GL

CIVIL AGENCY COORDINATING ACTIVITY:
GSA-FSS

Preparing activity:
Navy - SH
(Project 7310-0887)