

**SPECIFICATION
FOR
WASHER, LAUNDRY, COMMERCIAL SERVICE,
DOMESTIC DESIGN**

(This specification is released for procurement purposes until revised or rescinded.)

SCOPE

This specification covers the requirements, materials, performance and capacities for washers of the top loading type.

The washer shall be capable of continuous use such as may be encountered in school, institutional and university residence hall laundry rooms, and shall be of domestic type design. It shall be capable of thoroughly washing, rinsing and extracting the specified load of soiled laundry.

I. CLASSIFICATION

The washers covered by this specification are of the following type and sizes (capacity):

TYPE - Top Loading	(Minimum)
Class 1	14#
Class 2	18#

II. APPLICABLE STANDARDS

The following documents of issue in effect on the date of the Invitation for Bids shall form a part of this specification:

UL-1206 - Coin Operated and Commercial Clothes Washing Equipment

Underwriters' Laboratories, Inc. (UL)
Publications Stock
333 Pfingsten Road
Northbrook, IL 60062

MG-2 - Motor and Generators

National Electrical Manufacturers Assn. (NEMA)
155 East 44th Street
New York, NY 10017

NEC-70 Standard

National Electric Code (NEC)
60 Batterymarch Street
Boston, MA 02210

III. REQUIREMENTS

A. DESIGN

The design and construction shall conform to the general and detail requirements as specified hereinafter. The equipment shall be a currently standard product of an established manufacturer, except for such deviations as called for in this specification. All accessories and components normally furnished commercially with the standard product offered under this specification shall be in the same quantity and of the same quality as furnished commercially with the standard product.

B. CAPACITY

The capacity of the washer shall be based on pounds per cubic foot of cylinder volume (gross) as follows:

Class	Capacity (lbs.)	(Approx.) Lbs. Per Cubic Foot of Cylinder Volume	(Approx.) Gross Cylinder Volume-Cubic Feet
1	14	6	2.3
2	18	6.5	2.75

C. SAFETY REQUIREMENTS AND PROVISIONS

The washer shall be equipped with the following safety features:

1. Loading door safety feature to either automatically stop washer when door is opened in extract cycle, or prevent opening the door during extract cycle.
2. All electrical components shall be approved by Underwriters' Laboratories as applicable. A U/L approved, 3-wire grounding cord and plug not less than 4' in length shall be furnished attached to the machine upon delivery. All electrical connections shall meet the requirements of U/L and National Electrical Code.
3. A safety switch or other means to prevent damage to the washer when an out of balance condition develops shall be provided.
4. When specified, a positive and instant on/off switch in lieu of other controls shall be operational cycle, and then the switch is returned to "on" position, the machine will resume the cycle without resetting the controls.

D. CONTROLS

The controls shall be provided as follows and shall be conveniently located, accessible from the front of the washers.

1. "On/off" control or switch, when specified.
2. Water temperature control. Selection of not less than hot, cold, and warm water wash temperatures and automatic selection of cold water rinse.
3. Automatic cycle control. Automatic wash, rinse and extract cycling shall be provided in conjunction with the water temperature control. This control shall automatically turn off the washer at the end of the complete cycle.

Cycles shall be provided for at least normal and permanent press cycles.

4. Fixed water level. Cycle control timing mechanism shall not function until proper amount of water for the load has been reached.
5. Complete drainage of the washer after each wash and rinse phase of the cycle shall be provided.
6. Coin or special operation. When specified the machine shall be equipped for coin, ticket or other special operation. When coin or other meter or control devices are furnished security locks shall be furnished. On orders for multiple machines, the meters shall be master keyed and keys furnished unless otherwise specified.

E. CONSTRUCTION

1. Washtub and basket shall be of porcelain enamel, stainless steel or poly-propylene free from rough edges and burrs.
2. Cabinet and framing members shall be of steel and shall be provided with a corrosion resistant finish.
3. Color of the exposed exterior finish shall be white unless otherwise specified.
4. Unless otherwise specified, washer shall not require bolting to floor and shall be provided with leveling devices, one in each of the four corners of the base. Provision for bolt down installation shall be furnished when specified in Invitation for Bids.

F. PLUMBING HOSES

1. Washer shall be furnished with water fill hoses having standard 3/4" threaded hose connections, one for hot water and one for cold water and must be of sufficient length to connect to faucets placed 36" from floor and 24" to either side of machine.
2. A drain hose shall be provided unless otherwise specified. This hose shall have a "u" shaped discharge end and shall be of sufficient length to discharge into a standpipe 36" above floor and 24" to either side of the machine.

G. MOTOR, BEARINGS, SEALS, AND PUMP

1. Drive motor shall be of ample horsepower and conform to the applicable requirements of the National Electrical Manufacturer's Association Standard (NEMA). Motor shall have built-in automatic reset, thermal overload protector and shall be of the permanently lubricated type.
2. All rotating shafts shall operate on permanently lubricated or self-lubricating bearings which shall be sealed.
3. Seals shall be provided, where required by the design of the washer and the drive train, to exclude water from the drive train and lubricant from the washing chamber and prevent leakage of either onto floor.
4. Pump shall be v belt or direct driven from the driven motor and shall be designed to empty the washer in approximately two minutes. The pump shall be of the

permanently lubricated type and shall have the impeller and housing constructed of or coated with a corrosion resistant material.

H. ELECTRICAL

All voltages will be single phase, 60 cycle, alternating current. It shall be the responsibility of the successful bidder to furnish equipment specifically designed for operation at the voltage indicated.

IV. WARRANTY

The contractor warrants that all equipment furnished under this specification will be new and of good material and workmanship. Parts found to be defective free of negligence or accident, will be replaced free of charge for a period of 12 months. Warranty for service and labor for installation of replacement parts shall be for 60 days.

V. SERVICE, PARTS, AND MANUALS

The contractor shall provide at least one owner/operator's manual and provide for prompt delivery of repair parts. The services of a qualified service representative shall be available to the owner within 48 hours after requesting this service.

VI. ACCEPTANCE EVALUATION AND QUALITY ASSURANCE

Upon receipt of the machines or completion of installation as required by the terms of the contract, the owner or his authorized representative shall immediately arrange for an acceptance inspection for compliance with the provisions of this specification.

VII. DELIVERY AND PAYMENT

Delivery of and payment for equipment furnished under this specification shall be in accordance with the terms and conditions of the Invitation for Bids. The contractor shall be responsible for any packaging, packing, or protection required to insure safe delivery in an undamaged condition.

VIII. ORDERING DATA

Purchasers should exercise any desired option offered herein and should specify the following:

1. Title, number, and date of this specification.
2. Class (capacity) of washer desired.
3. Color required if not white.
4. If washer is to be furnished and delivered, or furnished, delivered, and installed and left ready for use.
5. If coin operated ticket operated or any other special type operation is desired. Details of coin denominations and/or other special operation.
6. Type electric current to be used.
7. If bolt down installation is required.
8. If warm water rinse is required.
9. If on/off type control or switch is required in lieu of types described in Item 5 above.
10. If other than Top Loading type is required.
11. Any special clothes to be washed.
12. If drain hose not required.
13. If agency requires inspection by Quality Assurance Representative.