

**SPECIFICATION
FOR
CLEANING EQUIPMENT, CARPET**

(This specification is released for procurement purposes until revised or rescinded.)

SCOPE

This specification covers hot water extraction carpet cleaning equipment that is used in schools, institutions, and office buildings where periodic carpet cleaning is required.

I. CLASSIFICATION

Machines under this specification shall be classified as follows:

Type I	Portable
	Size 1, 8 gal. minimum solution tank capacity
	Size 2, 14 gal. minimum solution tank capacity
Type II	Self-contained
Type III	Automatic (self-propelled, electric)

II. APPLICABLE STANDARDS

The following document(s) of issue in effect on the date of the Invitation For Bids shall form a part of this specification:

Occupational Safety and Health Act standard No. 29 CFR 1910.95

U.S. Department of Labor
200 Constitutional Avenue, NW
Washington, DC 20210

Applicable State OSHA Standards

N.C. Department of Labor
OSHA Division
4 West Edenton Street
Raleigh, NC 27611

The Carpet and Rug Institute Seal of Approval Program (CRI)

CRI
PO Box 2048
Dalton, GA 30722
Or online at <http://www.carpet-rug.com/>

III. REQUIREMENTS

A. GENERAL

This specification covers hot water extraction carpet cleaning equipment complete with all necessary operating accessories customarily furnished by the manufacturer with extractors of this type whether stipulated herein or not, to enable the unit to function reliably and efficiently in sustained operation.

1. HOUSING

The housing shall be sturdily constructed and mounted on casters and/or wheels for easy maneuverability and handling. All working parts shall be easily accessible for any necessary maintenance servicing.

2. SOLUTION AND RECOVERY TANKS

The solution supply tank and vacuum (recovery) tank shall be separate compartments within the housing. Each tank shall be leakproof and constructed for optimum resistance to chemicals, dirt, detergents and any other abrasive or deteriorating substances normally encountered in cleaning carpets.

Tank capacities shall be as specified in the applicable Table in Section III.B. The vacuum (recovery) tank shall have a drain valve, or other means, for complete removal of the recovered water and the tank shall have an automatic overflow cut off device to eliminate recovered water spills. A tank drain hose shall be provided where a drain valve is utilized.

3. CLEANING OPERATION

The cleaning cycle shall consist of the pressurized controlled spraying of a cleaning solution mixture into the carpet and the efficient removal of the dirt and solution immediately thereafter.

The solution supply control lever or handle shall be conveniently located and easily operated to allow the correct amount of cleaning solution to be sprayed through a jet system into the carpet. Cleaning width, hose length, pump pressure, vacuum motor waterlift, and the number of spray jets shall be as specified in the applicable Table in Section III.B.

Carpet extraction equipment shall have a minimum of Bronze Seal of Approval from the Carpet and Rug Institute. Written verification of compliance with this requirement is to be provided to the state or the using agency upon its request and in the manner specified, such as by copy of the certification.

4. ELECTRICAL

Motor(s) shall be wired for operation on 115 volts, 60 hertz, single phase. Power cord shall be non-marking, rubber or plastic covered, heavy duty three conductor type. Cord length to be as specified in the applicable table in Section III.B. A cord strain relief device shall be provided.

5. SAFETY

Each machine, including cord, shall conform to UL Standard 1017, or equivalent tests by other agencies and laboratories approved by the North Carolina Department of Insurance to safety test and label electrical and mechanical equipment. The appropriate approval and listing number shall be supplied by the bidder. Each machine shall conform to the OSHA Standard No. 29 CFR 1910.95.

6. OPTIONAL EQUIPMENT

Optional equipment shall include the following, and the machine shall be furnished with same if specified in the Invitation for Bid:

TYPE I MACHINES:

1. Hand tool for cleaning upholstery, stairs or limited space areas by the hot water extraction method. The minimum effective cleaning width of this hand tool shall be 3.5". The tool shall be complete with all fittings for easy hook-up to the solution and vacuum lines.

TYPE II AND TYPE III MACHINES:

1. Vacuum and supply hoses with cleaning wand to conform to the applicable requirements in Table 1, Section III.B..

2. Hand tool for cleaning upholstery and limited space areas by the hot water extraction method. The minimum effective cleaning width of this hand tool shall be 3.5". The tool shall be complete with all fittings for easy hook-up to the solution and vacuum lines."

7. TECHNICAL DOCUMENTATION

Technical documentation shall be provided to demonstrate compliance with the following requirements:

- A) All performance and dimensional requirements listed in section III.B. (applicable tables).
- B) Compliance with 29 CFR 1910.95.

Manufacturer's specification sheet(s) or technical publication(s) are acceptable. Products bid must meet or exceed all specifications. Individual specifications and requirements must be addressed. A general statement such as "compliance with all requirements" is not acceptable.

All written documentation including safety placards, manuals, labels, and other such written communication on or about this equipment shall be supplied in English.

B. PERFORMANCE AND DIMENSIONAL REQUIREMENTS

TABLE 1
TYPE I - PORTABLE MACHINES
MINIMUM REQUIREMENTS

MACH. SIZE	POWER CORD LENGTH	CLEANING WIDTH	SOLUTION TANK SIZE	HOSE LENGTH	PUMP PSI	SPRAY JETS	VAC. MOTOR WATERLIFT
1	25'	12"	7 GAL.	15'	100	2	134"
2	25'	12"	14 GAL.	15"	100	2	134"

TABLE 2
TYPE II - SELF CONTAINED MACHINES
MINIMUM REQUIREMENTS

POWER CORD LENGTH	CLEANING WIDTH	SOLUTION TANK SIZE	PUMP PSI	SPRAY JETS	VAC. MOTOR WATERLIFT
35'	16"	7 GAL.	100	4	117"

TABLE 3
TYPE III - AUTOMATIC MACHINES
MINIMUM REQUIREMENTS

POWER CORD LENGTH	CLEANING WIDTH	SOLUTION TANK SIZE	PUMP PSI	SPRAY JETS	VAC. MOTOR WATERLIFT
75'	18"	15 GAL.	100	4	117"

IV. WARRANTY

Machines furnished under this specification shall be new and shall be guaranteed against defects in materials, workmanship, and performance in accordance with the manufacturer's standard warranty, except that in no event shall such coverage be for less than one year. Warranty coverage shall begin on the date of delivery to the ordering agency. Warranty service shall be available at service locations within the State of North Carolina, and defective units shall be repaired or replaced during the warranty period at no cost to the owner or his representative.

Any portion of manufacturer's standard warranty that exceeds the above warranty requirements shall be in effect on the contract.

V. SERVICE, PARTS, AND MANUALS

The contractor shall furnish complete instructions for installation, operation, and maintenance including complete lists of replacement parts or assemblies, indicating manufacturer and manufacturer's part number.

VI. ACCEPTANCE INSPECTION

After the bid results are tabulated, the state reserves the right to require samples of selected units for inspection and evaluation.

VII. DELIVERY AND PAYMENT

Delivery of and payment for carpet cleaning equipment shall be in accordance with the terms and conditions of the Invitation For Bid. The contractor shall be responsible for any packing, packaging, 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 in the requisition and the Invitation For Bid:

1. Title, number, and date of this specification
2. Machine type and size (see classification)
3. Optional equipment desired (see section III.A.6)