

**CITY OF NEW YORK
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of the Material and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, A.I.A., Commissioner

**MEA 97-02-E
Report of Material and Equipment Acceptance Division**

**Manufacturer – Realstar SRL, Via Bizzarri 61-40010 Sala Bolognese, Bologna, Italy.
Trade Name - Realstar Dry Cleaning Machines, 11408-L Cronridge Drive, Owings Mills, MD 21117 and Realstar SRL.**

Product - Commercial Dry Cleaning Machines, non coin-operated, for use with perchlorethylene Factory Mutual Class IV dry cleaning solvent (non-flammable).

Pertinent Code Section(s) - 27-4087 and Article 6, Section 27-426.

Tests – 1. Canadian Electrical Code, CAN/CSA 22.2, No. 0-M91. 2. Safety Requirements for Commercial Laundry and Dry-Cleaning Equipment and Operations, ANSI Z8.1 – 1996. 3. Commercial Dry-Cleaning Machines, UL 664, 4th Edition, 1993.

Laboratory – Intertek Testing Services NA Inc., 24 Groton Avenue, Cortland, New York 13045-2014.

Test Reports–Reference Report No. 01005334 dated October 2, 2001.

Description - The various parts of the perchlorethylene commercial non-coin operated dry cleaning machine are assembled as a single unit on formed steel base, which may incorporate the solvent tanks. Operations of the machines may be automatic or manual. All operations are performed in a single cylindrical drum and may include washing, extracting, rinsing, or similar operation, and drying. The dry cleaning machines are dry to dry, front door loaded, closed systems with manually set automatic programming with manual override. These machines are available for operation for supply voltage 220 Vac, 3 phase, 60 Hz. The control voltage is 24 Vac, 60 Hz.

The solvent used in the cleaning process is perchlorethylene, which is non-flammable. The machines have a refrigeration unit for the drying and cool down cycles. There is no venting of perchlorethylene vapor to the outside. The machines are classified as "Fourth Generation" under New York State DEC 6NYCRR Part 232, "Perchlorethylene Dry Cleaning Facilities".

These models have a two-speed motor as the drive motor for the drum. The low speed is used during the wash cycle and the high-speed drum is used during the solvent extract cycle. They also have a pump motor for the solvent and fan motors for drying. The wash cycle is provided with reversing action during which time the basket stops rotating and reverses direction.

Main power is connected to the isolation switch in the main control enclosure to the motor starters and microprocessor-based control or card reader. All power conductors from the enclosure are enclosed in non-metallic, liquid tight, flexible conduit. All controls input and outputs are low voltage (24 Vac.) and are dressed into wiring harnesses.

The machines are provided with the filters through which the cleaning fluid is filtered during a normal cycle, and a still, which is periodically used to reclaim, the solvent. Drying is accomplished by means of steam heating and many of the mechanical operations are performed by air-operated valves and cylinders. A positive in-draft is provided (fan motor energized when door is open).

Model No.	Volume (ft ²)	Rated Capacity (lbs.)
T280	9.94	27.8
T343	12.02	33.7
T403	14.15	39.6
M280	9.94	27.8
M343	12.02	33.7
M403	14.15	39.6
M503	17.75	49.7
M703	21.25	59.5
M803	28.31	79.3

Recommendation - That the above non-coin operated dry cleaning machines be accepted on condition that all uses, locations and installations comply with New York City Building Code, specifically Section 27-4087 and Article 6, Rules of the City of New York, Chapter 5 Dry Cleaning Establishments, the New York City Electrical Code, Fire Code, the Department of Environmental Protection Rules, Intertek Testing Services Listing and the manufacturer's instructions.

All shipments and deliveries of such equipment shall be provided with a metal tag suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance April 24, 2002

Examined by Mark Juchniewicz