



# Report of Materials and Equipment Acceptance Division

NYC Department of Buildings  
280 Broadway, New York, NY 10007  
Patricia Lancaster, FAIA, Commissioner  
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Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

## MEA 579-06-E

**Manufacturer:** Satec USA, LLC, 6 Chestnut Street, Port Monmouth, N.J. 07758

**Trade Name(s):** Satec

**Product:** Commercial dry-cleaning machines for use with Class IIIA solvents, as defined by NFPA32

**Pertinent Code Section(s):** UL 664, UL 1995, NFPA32, UL 2208 and CSA C22.2, No. 0-19991

**Prescribed Test(s):**

1. UL 664
2. UL 1995
3. NFPA32
4. UL 2208
5. CSA C22.2 NO. 0-19991

**Laboratory:** Intertek Testing Services

**Test Report(s):** ITS Report No. 3075247NYM-001, issued March 3, 2006 and Report No. 3098862NYM-004, issued July 27, 2006, revised July 31, 2006.

**Description:** Dry-cleaning machine to clean garments in commercial operation, using Class IIIA solvent as follows:

Model No.	Load Size (lbs.)	Solvent Recovery Capacity (gal/hr)	Max. Solvent Amount in System (Gal.)	No. of Tanks
AC400	40 lbs.	32 gal/hr	80	3
AC600	60 lbs.	45 gal/hr	88	3
EC400	40 lbs.	30 gal/hr	62	3
EC600	60 lbs.	45 gal/hr	89	3

Notes:

The distill and recovery sections, condenser, wash wheel, water separator and disk-filler are made from stainless steel. Front cover is made from galvanized, cold-rolled steel.

The operation of the dry-clean machines is as follows:

Garments are placed in the wash wheel and the machine is started. Solvent is pumped from the integral base tank into the wash wheel. When pre-determined liquid level is reached, solvent is circulated from the wash wheel through the filtering system for purification purposes. At the end of the pre-determined cleaning cycle, the solvent is drained back to the integral base tank or the dirty tank (tank No. 3). From the dirty tank (tank No. 3), the distill will take automatically solvent for recovery. The liquid from the garment is then is then extracted at 680 to 800 RPMs, depending on the model.

After the last bath, the machine starts spinning up to 680 to 800 RPMs. After the spinning cycle, the drying cycle starts under control of our United States patented dry control system. Our United States patented dry control system controls the heating temperature in regard to the actual solvent vapor concentration in the drying process.

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections Letter dated December 12, 2006, F.P. Index #0611049.

**Terms and Conditions:** The above-described units are accepted on condition that:

1. All requirements specified in Section §20-11 "Storage and Use of Combustible Liquids in Dry Cleaning Establishments" of Title 3 of the Rules of the City of New York (3RCNY §20-11) for dry cleaning machines with respect to the installing, use and operation shall be complied with.
2. The dry cleaning machines shall comply with applicable requirements of UL 664 "Standard for Commercial Dry Cleaning Machines" and for the use with Class IIIA solvents as defined in NFPA32 "Standard for Dry Cleaning Plants".
3. The dry cleaning machines shall comply with applicable requirements of UL 1995 "Standard for Safety Heating and Cooling Equipment" and UL 2208 "Standard for Safety Solvent Distillation Units".
4. The dry cleaning machines shall comply with applicable requirements of UL 496 "Standard for Purged and Pressurized Electrical Equipment" and UL 1604 "Standard for Electrical Equipment for Use in Class I and II, Division II, and Class III Hazardous (Classified) Locations.
5. Testing Laboratory's listing requirements and limitations shall be complied with.
6. The manufacturer's installation, maintenance procedures and limitations shall be complied with.

7. The fan motor shall be explosion-proof, and fan blades constructed of non-ferrous metal.
8. The drying cleaning machines models, EazyClean EC400 & EC600 and AnyClean AC400 & AC600, shall be used only with Class IIIA solvents, with a flashpoint between 140°F and 200°F. The solvent used in the cleaning process shall be ExxonMobil DF2000, with a flashpoint of 147°F.
9. Solvent tanks shall comply and be designed to the requirements of Section §21-17 "Installation of Storage Tanks and Piping for Liquids Having Flashpoints of 100 Degrees Fahrenheit or Higher Tag. Open Cup" of Title 3 of the Rules of the City of New York (3RCNY §21-17) shall be no level-viewing glass on tanks. The combustible solvent that is stored in the three (3) tanks of each dry cleaning equipment shall not exceed the total capacity, in gallons, listed in this application.
10. Piping shall comply with 3RCNY §21-17. All lines (piping, tubing, hose) carrying solvent (liquid or vapor) shall be of steel construction. No non-metallic hose shall be used.
11. Solvent tank vent piping shall comply with 3RCNY §21-17.
12. Dry cleaning establishments shall be designed, constructed and used in compliance with Article 6 of Subchapter 7 of the New York City(NYC) Building Code and Article III , Chapter 2, §32-15(A) and §32-25(D) of the Zoning Resolution. One or more of such machines having an aggregate dry load capacity in excess of 60 pounds may be located only where permitted by the Zoning Resolution. Additionally, the installation shall comply with all applicable NYC codes, rules, regulations and testing requirements.
13. "No Smoking" signs shall be conspicuously posted throughout the dry cleaning establishment.
14. The dry cleaning machines shall be installed in an area protected by an automatic sprinkler system conforming to the requirements of the New York City Building Code. At a minimum, two (2) sprinkler heads shall be provided. The use of a domestic connection to provide water for the sprinkler system shall be subject to the approval of the Department of Buildings and shall comply with the requirements of §27-962(e) of the NYC Building Code. Additionally, if two (2) or more machines are installed, sprinkler protection as required by §27-954(q) of the NYC Building Code shall be provided.
15. The installation of these dry cleaning machines located in buildings with other occupancies shall be separated vertically and horizontally from such occupancies by partitions constructed in compliance with the requirements of the NYC Building Code, and with a fire-resistance rating not less than one (1) hour.

16. Use, inspection and testing of the dry cleaning machines shall comply with 3RCNY §20-11.
17. All filling and all emptying of drying cleaning machines with combustible liquid (Class IIIA solvent), shall be performed under the personal supervision of a person holding a Fire Department Certificate of Fitness for the Supervision, Storage and Use of Flammable and Combustible Liquids.
18. The fire protection safety control systems installed inside each dry machine shall keep solvent vapor levels to safe levels below 25 percent of LEL, and be interlocked to automatically prevent the machine from exceeding such safe level.
19. An approved type automatic clean agent extinguishing system with minimum weight of agent of five (5) pounds shall be provided to protect the drum of the dry cleaning machine within the housing of the dry cleaning equipment. The clean agent extinguishing system shall be interlocked with the dry cleaning machine's ventilation system and housing, to shut down air outlet, inlet fans, and other equipment, before the fire extinguishing system discharges.
20. The approved type automatic clean agent extinguishing system, installed inside the dry cleaning machine housing, shall be provided with a pressure-switch that shall continuously monitor the agent charge. If the agent bottle is less than full, the dry cleaning machine shall be interlocked to prevent operation, and provided with means of visual warning indicating same.
21. A permit shall be obtained from the Fire Department for the use of combustible liquid (dry clean solvent) in a dry cleaning establishment.
22. A Fire Department permit shall be obtained for the refrigeration systems above 5 horsepower that are used inside the dry cleaning machines to recover the solvent vapors and to cool the solvent.
23. Units shall be used in compliance with the Energy Conservation Construction Code of New York State.
24. All shipments and deliveries of equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and acceptable for use, as provided in Section 27-131 of the Building Code.

Final Acceptance December 22, 2006

Examined By Donald [Signature]