

**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, F.A.I.A., Commissioner

**MEA 1-04-E
Report of Material and Equipment Acceptance Division**

Manufacturer- Fike Corporation, 704 South 10th Street, Blue Springs, MO 64015.

Trade Name- ECARO-25.

Product- Clean Agent Fire Suppression.

Pertinent Code Sections – §27-133, Reference Standard RS 17-3.

Prescribed Tests – UL 2166 and NFPA 2001.

Laboratories – Underwriters Laboratories Inc. and Factory Mutual Research.

Test Reports – UL File Ex4623, Project 03NK19974 issued March 14, 1995, revised November 21, 2003; UL letter dated November 14, 2003; FM System Approval Recognition Letter, Project ID 3014476 (no date).

Description- ECARO-25 is a clean agent fire suppression system utilizing HFC-125 as the fire extinguishing agent. HFC-125 is an EPA SNAP listed item and is listed in NFPA 2001 as an acceptance clean agent for use in occupied spaces. HFC-125 is manufactured by DuPont™ and marketed under their trade name of FE-25™. The design concept is utilized on “Total Flood” hazards containing Class A, B, and C fires. ECARO-25 product, together with NYMEA approved Detection and Control equipment, make up a complete system. ECARO-25 products completing the system are identified in the UL Listed and FM Approved Design Manual, Part Number 06-285, Equipment – Section 1. The following are the pertinent ECARO-25 part numbers with description:

Model Number	Description
70-108	10 lb. Container Assembly
70-098	20 lb. Container Assembly
70-089	35 lb. Container Assembly
70-152	60 lb. Container Assembly
70-153	100 lb. Container Assembly
70-041	125i lb. Container Assembly
70-077	215i lb. Container Assembly
70-154	215 lb. Container Assembly
70-155	375 lb. Container Assembly
70-156	650 lb. Container Assembly
70-157	1000 lb. Container Assembly

02-9830	Low Pressure Switch
02-2980	1" Check Valve
02-4158	2" Check Valve
02-4157	3" Check Valve
80-035	1/4" Nozzle (360 Degree) Engineered
80-036	3/8" Nozzle (360 Degree) Engineered
80-037	1/2" Nozzle (360 Degree) Engineered
80-038	3/4" Nozzle (360 Degree) Engineered
80-039	1" Nozzle (360 Degree) Engineered
80-040	1 1/4" Nozzle (360 Degree) Engineered
80-041	1 1/2" Nozzle (360 Degree) Engineered
80-042	2" Nozzle (360 Degree) Engineered
80-043	1/4" Nozzle (180 Degree) Engineered
80-044	3/8" Nozzle (180 Degree) Engineered
80-045	1/2" Nozzle (180 Degree) Engineered
80-046	3/4" Nozzle (180 Degree) Engineered
80-047	1" Nozzle (180 Degree) Engineered
80-048	1 1/4" Nozzle (180 Degree) Engineered
80-049	1 1/2" Nozzle (180 Degree) Engineered
80-050	2" Nozzle (180 Degree) Engineered
70-1353-11	Liquid Level Indicator, 125i lb. Container Assembly
70-1353-15	Liquid Level Indicator, 215i lb. Container Assembly
70-1353-18	Liquid Level Indicator, 215 lb. Container Assembly
70-1353-27	Liquid Level Indicator, 100 & 375 lb. Container Assembly
70-1353-38	Liquid Level Indicator, 650 lb. Container Assembly
70-1353-49	Liquid Level Indicator, 1000 lb. Container Assembly
10-1832	Agent Release Module
70-1651	Gas Cartridge Actuator

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 15, 2004, F.P. Index No. 0409055A.

Recommendations - That the above units be accepted on condition that:

1. Any future New York City Building/Fire Code revision regarding the use of HFC-125 fire suppression agent shall require re-evaluation of this product by Department of Buildings and the Fire Department.

2. All engineered ECARO-25 systems must be calculated with Fike ECARO-25 Flow Calculation Software Version 3.00.0000 as specified in FM Approvals.
3. Only these engineering units on UL Certification of File EX4623 dated November 21, 2003 may be used in accordance with NFPA 2001 Standard of 2004.
4. Installation and maintenance shall comply with all applicable New York City Building/Fire codes, rules, regulations and testing requirements, including, but not limited to, 3RCNY Section 15-08 and RS 17-3 of the Administrative Code.
5. Factory Mutual Approvals and Underwriters Laboratories Inc.'s listing requirements and limitations shall be adhered to.
6. Manufacturer's installation, maintenance procedures and limitations shall be complied with.

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 acceptable for use, as provided in Section 27-131 of the Building Code.

Final Acceptance June 23, 2005.
Examined by Donald J. [Signature]