



NYC Department of Buildings
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Report of Materials and Equipment Acceptance Division

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 6-06-E

Manufacturer: Kidde-Fenwal, Inc., 400 Main Street, Ashland, MA 01721

Trade Name(s): Kidde Fire Systems and Fenwal Protection Systems

Product: Engineered Fire Suppression System, designed for use with 3m™ Novec™ 1230 Fire Protection fluid

Pertinent Code Section(s): Subchapter 17 and Reference Standard 17-3

Prescribed Test(s): UL Standard 2166

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): UL File Ex 4764-Project 04NK11456 and 04NK30023, Issued 2-02-05, Revised 4-4-05.

Description – The engineered fire suppression system designed for use with 3M Novec 1230 Fluid is design to total flood and suppress fires in specific hazards or equipment, located where an electricity non-conductive agent is required, where extinguishing capability with low weight is a factor and where the hazard is normally occupied by personnel. Novec 1230 Fluid is an acceptable alternative to Halon and is approved by the EPA and NFPA for use in Fire suppression systems. The Novec 1230 fluid is stored in a pressurized cylinder and actuated by a control head. Upon discharge the fluid is released and distributed to the fire hazard through a piping system and discharged through nozzles that control the rate and flow of agent. System design requires the use of engineered software by the installer.

All system components and system design limitations are outlined in the UL approved manual, P/N 45-N1230M-001 and 44-NV1230-001. Main system components are listed below with all others outlined in the system manual referenced above.

Description	Part Number
10 LB Capacity Cylinder Assembly	45-100010-001, 44-100010-001
20 LB Capacity Cylinder Assembly	45-100020-001, 44-100020-001
40 LB Capacity Cylinder Assembly	45-100040-001, 44-100040-001
70 LB Capacity Cylinder Assembly	45-100070-001, 44-100070-001
125 LB Capacity Cylinder Assembly	45-10012X-001, 44-10012X-001
200 LB Capacity Cylinder Assembly	45-10020X-001, 44-10020X-001
350 LB Capacity Cylinder Assembly	45-10035X-001, 44-10035X-001
600 LB Capacity Cylinder Assembly	45-10060X-001, 44-10060X-001
900 LB Capacity Cylinder Assembly	45-10090X-001, 44-10090X-001
1-1/2" Cylinder Valve	45-140000-001, 44-140000-001
2" Cylinder Valve	45-150000-001, 44-150000-001
3" Cylinder Valve	45-170000-001, 44-170000-001
1-1/2" Discharge Flex Hose	283898-000
2" Discharge Flex Hose	283899-000
3" Stainless Steel Discharge Flex Hose	06-118225-001
10 and 20 LB Cylinder Strap	283945-000
40 and 70 LB Cylinder Strap	283934-000
125 and 200 LB Cylinder Strap	235317-001
350 LB Cylinder Strap	281866-000
600 LB Cylinder Strap	294651-000
900 LB Cylinder Strap	236125-001
Pressure Operated Control Head	878737
Electric Control Head, Stackable (Ex Proof)	486500-010
Electric Control Head 24 VDC	890181
3-Way Directional Valves (1/2, 3/4 1 inch)	90-220030-00X, 93-220030-00X
3- Way Directional Valves (1-1/4, 1/2, 2 in)	99-220031-00X, 93-220031-00X
3-Way Directional Valves (3, 4 inch)	90-220032-00X, 93-220032-00X
180 Stainless Steel Nozzles	45-19461X-XXX, 44-19461X-XXX
360 Stainless Steel Nozzles	45-19462X-XXX, 44-19462X-XXX
180 Brass Nozzles	45-19471X-XXX, 44-19471X-XXX
360 Brass Nozzles	45-19472X-XXX, 44-19472X-XXX

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 April 13, 2006, F.P. Index # 0512037B.

Terms and Conditions: That the above units are accepted on condition that all use:

1. Installation and use shall comply with the applicable New York City codes, rules, regulations etc. and in particular with 3RCNY 15-08 of 1996 "Clean Agent Extinguishing Systems" except as modified by conditions of this letter and RS 17-3 requirements.
2. Systems may be used for Class **A and C fire application with a minimum NOVEC 1230 design concentration of 4.2%.**
3. Systems can be used for **Class B fire applications with a minimum NOVEC 1230 concentration specified in Table A.5.4.3. of NFPA 2001 of 2004, and Kidde-Fenwal design manual (UL Ex 4674).**
4. NFPA 2001 of 1996 is modified by section 1.5.1.2. of NFPA 2001 of 2004 that limits the use of Novec 1230 (FK 5-1-12) agents in normally occupied protected space to NOAEL 10% concentration or less.
5. Underwriters Laboratory Inc's requirements and limitations shall be complied with.
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 July 18, 2006

Examined by



