



NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
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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 264-04-E

Manufacturer: Ansul Incorporated, One Stanton Street, Marinette, WI 54143-2542

Trade Name(s): Sapphire™

Product: Fire Suppression Equipment

Pertinent Code Section(s): §27-131, Subchapter 17, Reference Standard RS 17,

Prescribed Test(s): UL Standard 2166

Laboratory: Underwriters Laboratories Inc.

Test Report(s): File Ex4510, Volume 7, Section 2, issued March 15, 2004

Description:

Sapphire systems use Novec 1230 fire protection fluid to flood and suppress fires in Class A, B, and C hazards. Sapphire systems are valuable in extinguishing fires, where a clean, electrically non-conductive medium is essential or where the cleaning up of foam, water or dry chemical would be a problem. The Sapphire systems distribute Novec 1230 through a system of piping and nozzles. The design and installation of the distribution piping and nozzles must be performed by Ansul-authorized personnel only, as it is critical to the system performance.

The system components and design can be found in the UL-approved manual, P/N 570590, dated April 1, 2005. The following table is a list of the Sapphire Agent storage assemblies.

Agent Storage Assemblies

Description	Agent Quantity (lbs)	Model Number
50 lb. Sapphire Shipping Assembly	20 – 46	570633
90 lb. Sapphire Shipping Assembly	37 – 88	570634
20 lb. Sapphire Shipping Assembly	10 – 21	570635
50 lb. Sapphire Shipping Assembly	20 – 46	570636
90 lb. Sapphire Shipping Assembly	37 – 88	570637
140 lb. Sapphire Shipping Assembly	58 – 138	570638
280 lb. Sapphire Shipping Assembly	116 – 280	570639
390 lb. Sapphire Shipping Assembly	161 – 388	570640
450 lb. Sapphire Shipping Assembly	194 – 459	570641
850 lb. Sapphire Shipping Assembly	375 – 851	570586

Additional System Components

Description	Part Number
Discharge Valve – 1”	570535
Discharge Valve – 2”	570536
Discharge Valve – 3”	570588
Discharge Hose – 1”	570539
Discharge Hose – 2”	570538
Discharge Hose – 3”	69990
Union Adapter – 1”	570557
Union Adapter – 2”	570558
3” Flex Hose/Check Valve Assy.	69841
Check Valve – 1”	570566
Check Valve – 2”	570568
Solenoid Actuator	570537
Pneumatic Actuator	570550
Local Manual Actuator	570549
Bracket – 20 to 90 lb. tanks	570085
Bracket – 140 to 480 lb. tanks	570092
Bracket – 900 lb. tank	570336
1/2” Nozzle – 180 deg	570515
3/4” Nozzle – 180 deg	570516
1” Nozzle – 180 deg	570517
1 1/4” Nozzle – 180 deg	570518
1 1/2” Nozzle – 180 deg	570519
2” Nozzle – 180 deg	570520
1/2” Nozzle – 360 deg	570602
3/4” Nozzle – 360 deg	570603
1” Nozzle – 360 deg	570604
1 1/4” Nozzle – 360 deg	570605
1 1/2” Nozzle – 360 deg	570606
2” Nozzle – 360 deg	570607

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objection letter dated July 11, 2006, F.P. Index #0406051C.

Terms and Conditions: The above units are accepted on the following conditions that:

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 applications with a minimum Novec 1230 design concentration of 4.2%.**
3. Systems may 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 Ansul design manual (UL EX 4510).**
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.
7. 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.

NOTE: In accordance with Section 27-131(d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner, shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance August 17, 2006.
Examined By Donald [Signature]