



# FDNY

**BUREAU OF FIRE PREVENTION**

**9 Metro Tech Center, 3rd Floor**

**Brooklyn, NY, 11201**

To: Jamie McNally  
From: New York City Fire Department  
Date: Jul 26, 2022  
Record ID: 2022-TMCOAP-003979-AMND



Premises Address: City-Wide

BIN

Application Type: Certificate of Approval

Amendment

Result: Certificate of Approval

## **CERTIFICATE OF APPROVAL # 5646**

**THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE**  
**AND EXPIRES ON July 25, 2025**

By order of Fire Commissioner and pursuant to Section 112 of the New York City Fire Code, the following equipment or material may be acceptable for use provided the conditions outlined below are in full compliance.

**Manufacturer:** Kidde-Fenwal, Inc.

**Product:** Wet Chemical Fire Suppression System

**Trade Name:** Kidde WHDR Wet Chemical Fire Suppression Systems

**Model No. Description Part Number**

WHDR-125 1.33 gallon wet chemical cylinder/valve assembly 87-120001-001

WHDR-260 2.66 gallon wet chemical cylinder/valve assembly 87-120002-001

WHDR-400S 4.0 gallon short wet chemical cylinder/valve assembly 87-120003-001

WHDR-400M 4.0 gallon medium wet chemical cylinder/valve assembly 87-120006-001

WHDR-600 6.0 gallon wet chemical cylinder/valve assembly 87-120005-001

**Pertinent Code Sections:** New York City Fire Code Section 904 (including Section 904.5)



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**Laboratory:** Underwriters Laboratories, Inc.

**Prescribed Tests:** UL 1254, 4<sup>th</sup> Edition, Revision date 01-30-2015, UL 300, 3rd Edition, Revision date 12-16-2014

**Report:** File EX3559 Issued: 10-12-1995 Revised: 01-05-2022

**Description:** The Kidde Fire Systems Wet Chemical Fire Suppression System utilizes a Kidde- Fenwal Aqueous Potassium Carbonate (APC) based wet chemical agent designed to provide fire protection for commercial cooking operations. It is a pre-engineered group of mechanical and electrical components for installation by an authorized Kidde Fire systems distributor. The system can be activated electrically, using a tested and listed 24 Vdc control panel. Both automatic detection devices and manual release can be used on control panels. Cylinders are actuated from stored high-pressure nitrogen. Upon actuation, the wet chemical is discharged through agent distribution piping and specially designed nozzles positioned throughout the protected area, including appliances, plenum and ductwork. The Kidde Fire Systems WHDR Wet Chemical Fire Suppression System is listed to UL 300. Storage temperature limits are from 0°F to 120°F. The design, installation, operation and maintenance (DIOM) manual, which includes the components list for Kidde Fire Systems WHDR Wet Chemical Suppression System, is WHDR Wet Chemical Fire Suppression System: DIOM manual part number 87-122000-001, revised April 2009, including the following addenda.

- Addendum 06-237229-001, Installing a Double Tee Pulley on the XV Control System
- Addendum 87-122000-002, Supplement to WHDR Wet Chemical Fire Suppression System Design, Installation, Operation and Maintenance Manual.
- Addendum 87-122000-003 Rev. AA & Addendum 87-122000-004 for Chain Broiler Rev. AB
- Addendum 06-237853-001, Wet and Dry Chemical Fire Suppression Systems Valve Rebuild Kit Addendum, Rev. Oct. 2021, revised in UL 3559 dated 01/05/2022
- Addendum 87-122000-005, Vent Plug Inspection and Maintenance Addendum, Rev. Oct. 2021, revised in UL 3559 dated 01/05/2022

## Conditions Of Approval

1. Prior to installation of the above-referenced fire extinguishing system, plans shall be filed with the Fire Department for review and approval.
2. Installation, use and maintenance of the above-referenced wet chemical fire extinguishing system shall comply with all applicable requirements of the New York City Fire Code, the New York City Construction Codes (including the Building Code and Mechanical Code), the New York City Electrical Code, and the rules.
3. The shutdown of fuel and power to the kitchen area is required upon system activation. Exhaust fans in the ventilation are not required to be shutdown. Makeup air supplied internally to a hood is required to be shutdown.
4. Installation and maintenance of the above-referenced wet chemical fire extinguishing system shall be performed by a licensed fire suppression piping contractor holding a current training certificate from the manufacturer.
5. The listing requirements and the manufacturer's requirements for installation, use and maintenance of the above-referenced system shall be complied with.
6. All applicable automatic equipment interlocks with fuel shutoffs, ventilation controls, alarms, smoke and heat vents, and



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other features necessary for proper operation of the fire extinguishing system shall be provided as required by the design and installation standard utilized for the hazard.

7. At least once a month, an inspection shall be conducted by a trained and knowledgeable person to assess whether the system is in good working order. A licensed master fire suppression piping contractor properly trained and having knowledge of the installation, operation and maintenance of the specific fire extinguishing system shall inspect, test, service and otherwise maintain such system in accordance with New York City Fire Code Section 904 (including Referenced Standard NFPA 17A) and the manufacturer's specifications and servicing manuals at least on a semiannual basis. Tests shall include a check of the detection system, alarms and releasing devices, including manual stations and other associated equipment. Extinguishing agent containers shall be weighed to verify the required amount of agent. Stored pressure-type units shall be checked for the required pressure. The cartridge of cartridge-operated units shall be weighed and replaced at intervals specified by the manufacturer.

8. Certificate of Approval number shall be plainly and permanently stamped or otherwise affixed upon each product by the manufacturer or the local representative of the manufacturer.

9. All installations shall be subject to inspection by representatives of the Fire Department which may result in additional requirements being imposed. The Fire Department may make periodic inspections of the above-referenced products without warning. These audit inspections will be solely at the discretion of the Fire Department.

10. The Fire Department may make periodic inspections of the above-referenced equipment without notice.

11. The Fire Department may withdraw this approval at any time in the event there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of this resolution or as represented in your application.

12. The Fire Department's conditions of approval shall be provided to all New York City buyers, users and installers.

13. The Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product is acceptable as of the date of issuance.

14. Any end user who fails to comply with the conditions as outlined in this approval is subject to enforcement action.

Any change in company name or ownership, product name, material of construction, chemical composition, product design, or model number of any product included on this certificate must be immediately reported to this Department in writing.

KC:JN

By Order of,  
Chief of Fire Prevention