



FDNY

BUREAU OF FIRE PREVENTION

9 Metro Tech Center, 3rd Floor

Brooklyn ,NY,11201

To: William Griffin
From : New York City Fire Department
Date Sep 1, 2022
Record ID: 2022-TMCOAP-007066-AMND



Premises Address: City-Wide

BIN

Application Type: Certificate of Approval

Amendment

Result: Certificate of Approval

CERTIFICATE OF APPROVAL # 5870

THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE

AND EXPIRES ON August 31, 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: Captive Aire Systems Inc.

Address: 4641 Paragon Park Road, Raleigh, North Carolina 27616

Product: TANK Fire Suppression System (Formerly CAS-EWC)

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

Laboratory: ETL Testing Labs (Intertek)

Prescribed Tests: UL 300

Report: 104560275SAT-003 Issued: 07/28/2021 Revised: 03/25/2022

Description: The product is a commercial kitchen fire suppression system that provides fire protection for commercial cooking appliances and hood duct and plenum. The Tank Fire Suppression extinguishing system is electrically released via a



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24V DC solenoid valve. Extinguishing system units with electrical detection, activation, and control require the use of a Listed Control Panel, which has been found acceptable for releasing device service and which is compatible with the electrical actuators used on the extinguishing system. In addition, all electrical detectors, notification devices, and pull stations are required to be Listed and compatible with the Control Panel.

The listing allows the cylinder pressure to range from a minimum pressure of 175 psig to a maximum pressure of 225 psig, with the nominal setting at 200 psig. Agent distribution supply piping length for a single cylinder is minimum of 7 ft. and maximum of 42 ft (supply line to first overlapping nozzle). A single plenum nozzle covers up to a 4 ft. wide x 10 ft. long plenum section. Additional plenum nozzles are required for larger plenum areas. V-bank hoods shall consist of two separate single bank hoods installed together such that the plenums creating the "V-bank" are isolated from each other. Each plenum of a V-bank configuration shall have its own plenum nozzle coverage. Pre-engineered fire extinguishing system units, agents, or both shall also comply with the requirements for construction and performance as applicable to specific types, designs, sizes, and arrangements. The installation, operation and maintenance manual, is Model TANK Fire Suppression Extinguishing System: manual part number A0029342, revised August 2022 Rev 19.

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 acceptance.
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 appliances 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 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.



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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, chemical composition 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