



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-007164-AMND



Premises Address: City-Wide

BIN

Application Type: Certificate of Approval

Amendment

Result: Certificate of Approval

CERTIFICATE OF APPROVAL # 5877

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

Trade Name: CORE Fire Protection System

Product: CORE Total Flood Fire Protection System

Model Number: CORE

Pertinent Code Sections: New York City Fire Code Section 901.4.5

Testing Laboratory: Intertek Testing Services

Prescribed Tests: UL 864, ULC S527, UL 300



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Report: File No. 3132231SAT-004 Issued: 01/30/2008 Revised: 06/19/2018
101196419NYM-001 Issued: 07/31/2013 Revised: 03/28/2019
104229452COL-002 Issued: 02/26/2020 Revised: 08/21/2020

Description: The CORE Fire Protection System is a pre-engineered, fire system that utilizes a water spray system and chemical surfactant for fast flame knock-down and suppression. In the event of a fire in the exhaust hood, duct, or pollution control unit, CORE Protection is activated. If the exhaust hood, duct, or pollution control unit Firestat senses a temperature higher than its internal set point or a rapid rate of rise is detected, an electric signal is sent to the CORE Fire System Cabinet. An electric water solenoid mounted in the manifold is energized allowing the flow of water to the exhaust hood, duct, or pollution control unit. At the same time, surfactant is continually injected into the water stream to help suppress the fire. Once the fire system is activated, a "Fire System Activated" light is illuminated on the CORE Fire System Cabinet and an audible alarm sounds. A timer is also energized upon fire system activation. The timer is factory set for 15 minutes and keeps the water spray system running a minimum of 15 minutes. The fire system is electrically operated and thus requires a battery backup system. The battery backup will automatically energize upon a loss of power. The battery backup will monitor the fire system circuit for a minimum of 24 hours and be able to operate the fire system circuit for a minimum of 30 minutes. Once power is restored, the battery will automatically recharge. The installation, operation and maintenance manual, is CORE Pre-Engineered Fire Protection System: manual part number A0011052, revised August 2022 Rev 78.

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 pre-engineered 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. Automatic equipment interlocks, ventilation controls, 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.
4. The listing requirements and the manufacturer's requirements for installation, use and maintenance of the above-referenced system shall be complied with.
5. 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.
6. 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 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.
7. Certificate of Approval number shall be plainly and permanently stamped or otherwise affixed upon each product by the



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manufacturer or the local representative of the manufacturer.

8. 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.

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

10. 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.

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

12. 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.

13. 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