



# FDNY

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**Kam Chan P. E.**

Lead Engineer / Administrative Engineer of Technology Management  
Bureau of Fire Prevention

## CERTIFICATE OF APPROVAL # 5804 THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE AND EXPIRES ON April 15, 2021

April 16, 2018

Mr. William Griffin  
VP of Engineering  
Captive Aire Systems, Inc.  
4641 Paragon Park Road  
Raleigh, NC 27616

RE: Captive Aire Systems COA #5804  
F.P. Index#: 1802005 FPIMS#: 38030532

Dear Mr. Griffin:

By order of Fire Commissioner, Daniel A. Nigro 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.

**Product:** Exhaust Hoods

**Model Number:** BD-2, BLL, BL, NDI, ND-1, ND-2, ND-2W1, SND-2, VHB, CA-BSF-E, EX-BS-N, NRIH, PNI, R, S-ELS-M, VH1-Pyramid

**Pertinent Code:** New York City Fire Code Section 901.4.5

**Prescribed Tests:** UL710, ULC710, ULC-S646, and NSF/ANSI 2 Standards

**Laboratory:** ETL Testing Labs (Intertek)

**Report:**

|                  |                    |
|------------------|--------------------|
| 3054804-002      | Issued: 02/07/2005 |
| 3186625SAT-001   | Issued: 09/21/2017 |
| 102900319PRT-001 | Issued: 06/01/2017 |
| 3197081COL-001   | Issued: 10/16/2012 |

**Description:** Commercial Exhaust Hoods are used over cooking equipment. Exhaust Hoods remove heat, smoke and grease laden vapors. Hoods are ETL listed to UL 710, ULC 710, ULC-S646 and NSF/ANSI 2 standards and are built in accordance to NFPA 96.  
Hood construction shall be Type 430 stainless steel with a #3 or #4 polish on at least all exposed surfaces. Optional 304 stainless is also permitted.

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**Type 1 Hoods:** Hoods come standard with stainless steel baffle filters and a grease trough. Hoods have a grease drain system with optional removable ½ pint cup for easy cleaning. Double wall rigid insulated front reduces condensation and radiant heat transfer into the kitchen. An integral front baffle provides exceptional capture and directs grease laden vapors towards the exhaust filter bank. Front baffle also provides a built in wiring chase for optimal positioning of electrical controls and outlets on the front face of the hood without penetration hood capture area. Refer to Hood manual for optional features available on Type 1 Hoods.

**Type 2 Hoods:** Hoods are used for non-grease applications for removal of heat and vapor. Refer to Hood manual for optional features available on Type 2 Hoods.

| Model        | Description  |
|--------------|--|
| BD-2         | Type I, Low Proximity Hood. ETL listed for use over 450°F, 600°F and 700°F cooking surface temperatures.                         |
| BLL          | Type I, Low Proximity Passover Hood. ETL listed for use over 400°F and 600°F cooking surface temperatures.                       |
| BL           | Type I, Low Proximity Hood. ETL listed for use over 400°F and 600°F cooking surface temperatures.                                |
| CA-BSF-E     | Type I, Low Proximity Hood. ETL listed for use over 450°F cooking surface temperatures.  |
| EX-BS-N      | Type I, Low Proximity Hood. ETL listed for use over 600°F cooking surface temperatures.  |
| NDI          | Type I, Double Island V-Bank Hood. ETL listed for use over 400°F, 600°F and 700°F cooking surface temperatures.                  |
| ND-1         | Type I, Wall Canopy Hood. ETL listed for use over 450°F, 600°F and 700°F cooking surface temperatures.                           |
| ND-2         | Type I, Wall Canopy Hood. ETL listed for use over 450°F, 600°F and 700°F cooking surface temperatures.                           |
| ND-2WI       | Type I, Single Island Hood. ETL listed for use over 450°F, 600°F and 700°F cooking surface temperatures.                         |
| NRIH         | Type I, Round Island Hood. ETL listed for use over 450°F, 600°F and 700°F cooking surface temperatures.                          |
| PNI          | Type I, Single Island hood. ETL listed for use over 450°F cooking surface temperatures.  |
| R            | Type I, Wall Canopy Hood with Internal MUA. ETL listed for use over 400°F cooking surface temperatures.                          |
| S-ELS-M      | Type I, Low Proximity Hood. ETL listed for use over 400°F cooking surface temperatures.  |
| SND-2        | Type I, Sloped Wall Canopy Hood. ETL listed for use over 450°F and 600°F cooking surface temperatures.                           |
| VHB          | Type II, Exhaust only hood. ETL listed to be used over non grease application for removal of heat and vapor                      |
| VH1-Pyramind | Type II, Exhaust only hood with 4 sloped sides. ETL listed to be used over non grease application for removal of heat and vapor. |

Models may contain suffixes to define hood options and accessories.

## **Conditions of Approval:**

1. The exhaust hoods shall comply with all applicable requirements (including installation, operation and maintenance) of the New York City Fire Code, Electrical Code, and Construction Codes (including the Building Code, Mechanical Code, and Fuel Gas Code). In addition, the manufacturer's manual for installation, operation and maintenance, and listing requirements and limitations shall be complied with.
2. A Type II hood shall not be used where a Type I hood is required to be installed.
3. Grease filters that are removable but not an integral component of a specific listed exhaust hood shall be of a type for which a Certificate of Approval has been issued.
4. Grease filters shall be cleaned regularly in accordance with the instructions from the manufacturer's installation, operation, and maintenance manual.
5. The entire exhaust system, including exhaust hoods and grease filters, shall be inspected and cleaned at least once every three months by a person holding a Fire Department Certificate of Fitness. A record of such inspection and cleaning shall be kept on the premises for inspection.
6. Power supply and wiring for controls and luminaries shall comply with the requirements of New York City Electrical Code.

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7. Type I hoods, where required to be installed, shall be protected with a fire extinguishing system in accordance with Chapter 9 of the New York City Fire Code and Building Code.
8. The Fire Department may make periodic inspections of the above referenced products without warning to ensure that maintenance requirements are being followed. These audit inspections will be solely at the discretion of the Fire Department.
9. The Fire Department's conditions of approval shall be enumerated in the installation manuals and sales brochures that will be provided to New York City buyers, users and installers.
10. The Certificate of Approval is issued upon condition that the equipment's technology does not violate any patent, trade name / secret or other intellectual right. Products shall be Intertek listed and product manufacturer shall retain the follow up service program with Intertek Testing Services NA Inc.
11. The Fire Department Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product, as represented, meets the standards as of the date of issuance.
12. All installations shall be subject to inspection by representatives of the Bureau of Fire Prevention which may result in added requirements being imposed.
13. 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.
14. This Certificate of Approval does not grant the right to use any trademark associated with the New York City Fire Department (the letters FDNY, the FDNY Shield design, the FDNY Maltese Cross design and

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the seal of the City of New York). The unauthorized use of trademarks in connection with the sale of commercial goods or services violates federal and state laws.

15. Any end user who fails to comply with the condition as outlined in this approval will be 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.

Very truly yours,



Kam Chan, P.E.

KC: JN: COA#5804.doc