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Kam Chan P. E.
Lead Engineer / Administrative Engineer of Technology Management
Bureau of Fire Prevention

CERTIFICATE OF APPROVAL # 5760

THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE

AND EXPIRES ON May 25, 2023

May 26, 2020

Ms. Christa Pieper
Certification Manager
Alto-Shaam Inc.
W164 N9221 Water St.
Menomonee Falls, WI 53052

RE: Certificate of Approval#5760
F.P. Index#: 2003121B FPIMS#:40088064

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: Alto-Shaam Inc.

Product: Prefabricated Ductless Hood (option VH) on Electric Combi Oven (Combitherm)

Model Numbers: CTX4-10EVH, CTP6-10E (VH), CTC6-10E (VH), CTP10-10E (VH), CTC10-10E (VH), CTP7-20E (VH), CTC7-20E (VH), CTP10-20E (VH) and CTC10-20E (VH)

Pertinent Code Sections: New York City Fire Code Section 901.4.5

Prescribed Tests: UL 710B, UL 197, EPA 202, NSF 4, and UL 1046

Laboratory: Underwriters Laboratories, Inc.

Report: File EI80237 Vol. 1 Sec. 8 Issued: 08-11-2012 Revised: 01-11-2014
File EI80237 Vol. 1 Sec. 10 Issued: 12-27-2013 Revised: 11-26-2019
File EI59360 Vol. 1 Sec. 35 Issued: 12-17-2007 Revised: 02-03-2014

Description: The above-referenced ductless hood and combitherm unit consists of exhaust blower, metal baffle type grease filter (model T50 manufactured by Trine Corporation and approved under MEA 142-05-E) and a disposable dry-type air filter, listed to ANSI/UL 900. The recirculation hoods have a grease filter and air filter interlock switch such that the heating elements cannot engage until the filters are properly positioned. The entire cooking operation of the appliance will terminate until filter

access door is closed and filter interlock switches are activated. If the hood fails to operate, the cooking appliance is de-energized. If the pressure switch detects insufficient airflow, the unit will cease to operate and de-energize the cooking appliance. If the air filter is operated until the point of 25% filter blockage or the fan motor is not operating, the unit will cease to operate and de-energize the cooking appliance. The above-referenced ductless hood and combitherm unit includes safety switches that prevent operation if the grease filter and/or the air filter is not in place. The grease and air filter provided with listed EMB Model # 305-9076, interlock switch rated 5A minimum, 125-250 V ac. CTX4-10EVH interlock, Omron, Cat. No Z-15GQ55-B, 10A min. 250 Vac. The interlock switch is positioned such that the switch cannot be closed without proper installation of both the charcoal filters and the grease filters and enclosed in stainless steel. Disposable dry-type air filter- Replacement must be made when the filter reaches 25% oil saturation. When the air flow is restricted, the indicator light comes on. Unit will automatically shut down. This alerts the operator the fan is not operating properly the filter or fan motor requires replacement before the oven will operate. Pressure switch is UL recognized, Model # AP4085, 100,000 cycles, rated 120-277 volt, 5 amps, 1/10 hp. This switch detects air pressure drops caused by blockage or saturation and is activated whenever there is insufficient airflow or there is a 25% reduction in air flow. This switch causes a complete shutdown of oven and hood operation.

Conditions of Approval:

1. Prior to installation of the above-referenced cooking equipment, plans specifying the exact product name/model number and dimensions/specification shall be filed with and approved by New York City Department of Buildings (DOB). A copy of DOB docketed (Stamped, numbered and dated) plans shall be transmitted to the Fire Department for review and approval, as applicable.
2. Installation, use and maintenance (including cleaning) of the above-referenced cooking equipment shall comply with all applicable requirements of the New York City Fire Code, the New York City Electrical Code, the New York City Construction Codes (including the Building Code and the Mechanical Code), and the rules.
3. The above-referenced cooking equipment shall be used for light duty cooking and food warming only, and shall be provided with catalyst to limit the emission of grease-laden air. Light-duty cooking appliances as defined in the New York City Mechanical Code include gas and electric ovens (including standard, bake, roasting, revolving, retherm, convection, combination convection/steamer, countertop conveyORIZED baking/finishing, deck and pastry), electric and gas steam-jacketed kettles, electric and gas pasta cookers, electric and gas compartment steamers (both pressure and atmospheric) and electric and gas cheesemelters.
4. The cooking equipment shall be installed in an area approved by the New York City Department of Buildings.
5. Underwriters Laboratories, Inc.'s listing requirements and manufacturer's installation, operation and maintenance requirements shall be complied with.
6. The cooking equipment (including filters and catalyst) shall be inspected, cleaned and replaced if necessary, by a qualified person holding a Fire Department Certificate of Fitness. The catalyst shall

be maintained in proper working order. A record of such inspection and cleaning shall be kept on the premises for inspection.

7. All installations are subject to inspection by representatives of the Fire Department which may result in additional requirements being imposed.
8. The Fire Department's conditions of approval shall be provided to all New York City buyers, users and installers.
9. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the manufacturer or the local representative of the manufacturer.
10. The equipment's technology does not violate any patent, trade name, trade secret or other intellectual right.
11. 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.
12. 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.
13. Any end user who fails to comply with the conditions as outlined in this approval will be subject to enforcement action.

Any change in occupant's name or ownership, product name, product design, material of construction 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.

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