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RESEARCH REPORT: RR 8110  
EFFECTIVE DATE: 03/01/2021  
EXPIRATION DATE: 03/01/2022  
Telephone: 800-554-4537

**GENERAL APPROVAL - Renewal** - Ventless hood models FSH-(2, 2A, 2A-99, 2A-99W, 2-PH, 3.5, 4, 5, 6), GVH-C, GVH-F, PO-VH, OVH-(10, 10-C, 10-FB); or Self Contained Electric Fryers with ventless hood models GEF-(400, 560 or 720)-VH, CF-(200, 400 or 500)-VH, WOG-(VH-D, VH-MP, or 20MP-VH), GBF-(35 or 50) D and/or -VH, and GBF-(2-35 or 2-50)-GVH manufactured by Giles Enterprises, Inc.

## DETAILS

These products are electrically connected, self-contained, stainless steel commercial fryers (kettle) with ventless hoods and ventless hoods for installation over approved electrical cooking appliances. Models PO-VH and OVH-10 are direct mount or ceiling hung hoods. OVH-10-C is a counter top version ventless hood. FSH models are ceiling hung or freestanding canopy type hoods. GVH-C is a counter top version; GVH-F is a freestanding canopy type hood. Each ventless hood consists of a blower, a three or four-stage grease filtration system, and contain a built-in fire extinguishing (suppression) system or are internally piped for a field installed approved fire extinguishing (suppression) system. All fire suppression systems shall be UL listed. The first-stage of filtration system is a grease baffle filter, the second is an electronic precipitator, and the third is a disposable charcoal filter. Units with the 4-stage system have a pre-filter before the electronic precipitator. There is no gas, plumbing, drain or duct through the hood. A pressure-differential type interlock system, which monitors the airflow through the hood, shuts down the appliance when the blower in the hood is not working, or a filter is missing or clogged. These products are currently listed by UL LLC and/or NSF International.

The approval is subject to the following conditions:

1. These hood systems may be installed in commercial kitchens and be used in electric commercial cooking appliances only. These products shall be installed in accordance with the Los Angeles Mechanical Code (LAMC), 2020 Edition, the manufacturer's printed instructions and this research report.

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2. A separate ventilation hood over the ventless hood is not required. No supplemental plenum outside of the listed product shall be installed. These hoods do not require any ductwork connections.
3. Detailed plans shall be submitted to Mechanical Plan Check Section for approval. Plan Check Section shall verify that the plans show that the room ventilation requirements are met. Plan submitter is responsible for providing a copy of the installation instructions and this research report to Plan Check Section at time of plan submittal. Plans shall be approved prior to the issuance of any permits and prior to beginning construction.
4. Health Department clearance shall be obtained for each installation of these products.
5. All the electrical components that are part of these products shall be currently listed for the intended use by a City of Los Angeles recognized electrical listing agency or be currently approved by the City of Los Angeles Electrical Testing Laboratory.
6. This approval applies only to the provisions of the Mechanical and Plumbing Codes. It shall not be misconstrued to be an approval under the Electrical Code or Building Code.
7. The fire extinguishing (suppression) system shall be inspected and approved by the City of Los Angeles Fire Department.
8. A field test, satisfactory to the Mechanical Inspector shall be performed to assure the operation of all safety features and devices prior to acceptance.
9. These units shall be installed in accordance with the following:
  - a. Each product shall be secured to the ground or service counter when they are in operation.
  - b. Comfort air recirculating system return air inlets shall not be located within kitchens. Minimum clearance between air outlets on these units to supply air diffusers is 10 feet and to return air registers is 6 feet.
  - c. Room ventilation shall be provided at a rate not less than the greater of the following:
    - i. A minimum of four (4) air changes shall be provided in the room where the hood is installed.
    - ii. The room in which the unit is installed shall be mechanically ventilated at the rate of 100 cfm per linear foot of the hood per manufacturer's recommendations or per Section 91.1202.0 of the Los Angeles Building Code, 2020 Edition.
  - d. Airflow rates shall conform to those outlined in Table 1 of this report.

- e. All cooking appliances shall be installed with not less than the minimum clearances specified by the manufacturer's printed instructions.
  - f. The electrical cooking appliances used under these hoods shall be interlocked with the hood by field wiring in accordance to the Los Angeles Electrical Code, 2020 Edition. An electrical permit is required for this work, for any other field wiring, required for the installation of this unit, for any electrically interconnected appliance and for any electrical wiring as referenced in this research report.
  - g. Only UL listed metal-framed grease filters and UL Class 1 air filters shall be used in these products.
  - h. A pressure differential type interlock system shall be installed in the unit in order to prevent the hood and the cooking appliance from operating if any filter is clogged, missing or removed.
  - i. A listed fire extinguishing (suppression) system shall be part of the hood and interlocked with the hood to serve the grease filters, charcoal filter and the electric cooking equipment as required by the Los Angeles Mechanical Code, Section 95.510, 2020 Edition. This system shall be inspected and approved by the City of Los Angeles Fire Department. The hood shall shut down when the fire extinguishing (suppression) system is not operational.
  - j. The clearance from the surrounding combustible materials to these products shall comply with the requirement of UL listing and the hood shall have a clearance of at least 18 inches to combustible material per the LAMC, 2020 Edition.
10. All Giles hoods covered by this report meet or exceed the requirements of the EPA 202 grease emissions test when installed with commercial electric cooking appliances meeting the power input, temperature and surface area limitations as established by a City of Los Angeles recognized listing agency. Only such equipment shall be installed under these hoods in compliance with Section 13.2.6 of NFPA 96.
  11. Waste liquid in the condensate tank shall be disposed of in an approved manner. The condensate tank shall be emptied daily into an approved grease interceptor.
  12. Each unit shall be maintained on a service contract. Service shall include the change-out of the charcoal filters. The grease filters shall be replaced as needed.
  13. The unit when operated shall be maintained in clean working order by trained personnel.
  14. Cleaning instructions with operating instructions shall be included with each shipped unit.
  15. Each product shall be permanently labeled with the manufacturer's name "Giles Enterprises, Inc.", the appropriate model number and the "UL" certification mark where visible after installation for inspection purposes.

Giles Enterprises, Inc.  
RE: Ventless Hoods

## **DISCUSSION**

The Mechanical Testing Laboratory reviewed recent test reports and current listing certificates. These products have been tested in compliance with UL 197, UL 710B and/or NSF 4 and are listed by UL LLC and/or NSF International. The material and construction are equivalent to that prescribed by the Los Angeles Municipal Code in quality, strength, effectiveness, durability and safety.

For this General Approval to be valid on any individual construction project in the City of Los Angeles, an engineer or inspector of the Department of Building and Safety must make a determination that all conditions of the General Approval required to provide equivalency have been met in the case of each construction project under consideration.

This approval is granted under Sections 95.103.0, 95.105.0, 95.302.0, 95.313.0, 95.507.0, 95.508.0, 95.509.0, and 95.510.0 of the Los Angeles Mechanical Code, 2020 Edition.

Approved:



Irene Pool  
Mechanical Testing Laboratory  
Permit and Engineering Bureau

**GILES ENTERPRISES, INC.  
RR-8110**

**TABLE 1: AIRFLOW DATA**

<b>Model</b>	<b>Minimum Exhaust (cfm)</b>	<b>Maximum Exhaust (cfm)</b>
CF-200-VH	267	382
CF-400-VH	347	495
CF-500-VH	389	556
WOG-20MP-VH	230	329
WOG-VH-MP	345	493
WOG-VH-D	345	493
PO-VH	314	448
OVH-(10, 10-C, 10-FB)	215	307
FSH-(3.5, 4, 5, 6)	818	1168
FSH-(2, 2A, 2A-99, 2A99W, 2-PH)	347	495
GEF-(400, 560 or 720)-VH	510	680
GBF-(35 or 50)D and/or -VH	510	680
GBF-(2-35 or 2-50)-GVH	393	560
GVH-C & GVH-F	393	560