



VENTILATION GUIDE

ACUNTO OVENS



KEY VENTILATION FACTS FOR ACUNTO OVENS

- ✔ All Acunto Forni SRL ovens are **intended** to be direct connected to a natural or powered draft chimney system, per NFPA 96.
- ✔ All Acunto Forni SRL ovens **do not** require a Type I or Type II hood to be installed above the oven, per manufacturer instructions and NFPA 96.
- ✔ In exhaust systems that are **four stories or higher**, a listed grease duct system (UL 1978 & UL 103) shall be provided, per NFPA 96, 14.4.2.
- ✔ In exhaust systems that **exceed 20 feet vertical or incorporate a 90° elbow**, a UL 705 & UL 762 listed rooftop restaurant exhaust fan shall be installed to ensure the exhaust of flue gasses.
- ✔ Acunto Forni SRL ovens direct connected to draft chimney systems per NFPA 96 and NFPA 211 **shall not require fixed automatic fire-extinguishing equipment**, neither for the oven appliance nor its exhaust system, per NFPA 96 14.7.2 & 14.7.4.

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Please contact American representative, Forza Forni, for further inquiries or concerns.



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DIRECT CONNECTION FOR ACUNTO OVENS

Gianni Acunto Forni SRL intends all ovens to be **direct connected** to a UL 103 and UL 1978 listed commercial kitchen grease duct in **a natural draft chimney system** per Chapters 3 and 4 of ANSI/NFPA 211 and Chapter 14 of ANSI/NFPA 96. Acunto ovens have been investigated by UL for compliance to the commercial wood fired oven standard – refractory type, UL 2162 (*See attached at the end of this document*).

In exhaust systems that exceed 20 feet vertical or incorporate a 90o elbow, a UL 705 and UL 762 listed rooftop restaurant exhaust fan should be installed to maintain adequate pressure within the system to exhaust all kitchen vapors.

Oven requires approximately 150-200 CFM in make-up air. This shall be supplied via conditioned room air.

AHJ: INTERPRETATION OF THE CODE FOR NATURAL DRAFT CHIMNEY

International Mechanical Code:

Per the "International Mechanical Code", Section 917.1, "Cooking appliances that are designed for permanent installation shall be listed, labeled and installed **in accordance with the manufacturer's installation instructions.**"...

"Solid-fuel-fired ovens shall be listed and labeled in **accordance with UL 2162.**"

UL 2162:

Per UL 2162 (*See attached at the end of this document*), "This equipment is intended to be installed in accordance with appropriate installation standards, such as the current editions of:

- ANSI/NFPA 96, "Ventilation Control & Fire Protection of Commercial Cooking Operations"
- ANSI/NFPA 211, "Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances"
- ANSI/NFPA 70, "National Electrical Code" (NEC)
- "Uniform Mechanical Code"
- "International Mechanical Code"
- "International Residential Code"
- Local codes

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AHJ: INTERPRETATION OF THE CODE FOR NATURAL DRAFT CHIMNEY (CONTINUED)

ANSI/NFPA 96:

Per Chapter 14, "Solid Fuel Cooking Operations" of the NFPA 96 document, 14.1 "Venting Application" states "Venting requirements of solid fuel cooking operations shall be determined in accordance with 14.1.1 through 14.1.7."

An examination of following sections provides that **a natural draft chimney system direct connected to the exhaust manifold of an Acunto oven complies with the International Mechanical Code and NFPA 96 document;**

- **14.1.1** Where solid fuel cooking equipment is required by the manufacturer to have a natural draft, the vent shall comply with Section 14.4.
 - Acunto Forni ovens are designed for connection to a natural draft chimney system. The oven incorporates an integral hood system which captures all smoke vapors and exhausts them to outside of the building via the UL 1978 listed chimney system attached to the exhaust manifold port located on top of the oven.
- **14.1.4** Natural draft ventilation systems and power-exhausted ventilation systems shall comply with Sections 14.3, 14.4, and 14.6.
 - Acunto Forni ovens can and should be installed in compliance with these Sections. In the instance where a power-exhausted ventilation system is needed, install a fan complying with UL 705 and UL 762 listed roof top restaurant exhaust fan standards.
- **14.1.5** Where a solid fuel cooking appliance allows effluent to escape from the appliance opening, this opening shall be covered by a hood and an exhaust system that meets the requirements of Sections 14.3, 14.4, and 14.6.
 - Acunto Forni ovens do not allow effluent to escape from the appliance opening. All ovens are built with a natural hood constructed from refractory cement at the oven mouth. A natural draft is created by the movement of air due to the positive pressure system created by heat pressure within the oven.
- **14.1.6** Solid fuel cooking operations shall have spark arresters to minimize the passage of airborne sparks and embers into plenums and ducts.
 - Acunto Forni can supply spark arresters to our clients to facilitate this requirement.
- **14.1.7** Where the solid fuel cooking operation is not located under a hood, a spark arrester shall be provided to minimize the passage of sparks and embers into flues and chimneys.
 - See response to 14.1.6.

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AHJ: FIRE SUPPRESSION CODE REQUIREMENTS

The following NFPA 96 Sections of Chapter 14 provide that **fixed automatic fire-extinguishing equipment are not required for Acunto Forni ovens or their exhaust systems** when installed per installation instructions outlined in this document:

- **14.6.1** Exhaust system requirements shall comply with Chapter 8 for hooded operation or shall be installed in accordance with the manufacturer's recommendation for unhooded applications.
 - Acunto Forni ovens shall be installed per Chapters 3 and 4 of NFPA 211 and Chapter 14 of NFPA 96 as an unhooded, direct-connected exhaust system.
- **14.7.2** Where acceptable to the authority having jurisdiction, solid fuel-burning cooking appliances constructed of solid masonry or reinforced Portland or refractory cement concrete and vented in accordance with Chapters 3 and 4 of NFPA 211, "Standard for Chimney's Fireplaces, Vents, and Solid Fuel-Burning Appliances, shall not require fixed automatic fire-extinguishing equipment.
 - Per UL 2162, Acunto Forni ovens are solid fuel burning wood fired ovens of refractory cement construction. Therefore, **automatic fire suppression equipment is not required to protect the oven.**
- **14.7.4** Where acceptable to the authority having jurisdiction, solid fuel-burning cooking appliances constructed of solid masonry or reinforced Portland or refractory cement concrete and vented in accordance with Chapters 3 and 4 of NFPA 211, "Standard for Chimney's Fireplaces, Vents, and Solid Fuel-Burning Appliances, shall not require automatic fire-extinguishing equipment for the protection of grease removal devices, hoods and duct systems.
 - Per UL 2162, Acunto Forni ovens are solid fuel burning wood fired ovens of refractory cement construction. Therefore, automatic fire suppression equipment is not required to protect the exhaust system.

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CERTIFICATE OF COMPLIANCE

Certificate Number 20141021-MH48941
Report Reference MH48941-20130129
Issue Date 2014-OCTOBER-21

Issued to: GIANNI ACUNTO FORNI SRL
Via F Persico 20
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This is to certify that representative samples of COOKING APPLIANCES, WOOD FIRED
See addendum page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Standard for "Commercial Wood-Fired Baking Ovens - Refractory Type" ANSI/UL 2162 and ULC/ORD-C2162-13.

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

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LCJX.GuideInfo Cooking Appliances, Wood Fired

[View Listings](#)[Page Bottom](#)

[Heating Appliances] Cooking Appliances, Wood Fired

[See General Information for Heating Appliances](#)

USE AND INSTALLATION

This category covers wood-fired cooking appliances, including broilers, ranges, rotisseries, ovens, and the like, as identified in the individual certifications, and intended for use in commercial establishments such as restaurants or for outdoor residential use. These appliances are intended to burn solid wood only, including particulate wood products. Some equipment may be provided with door assemblies, floor protectors and wall shields, adjustable flue-gas dampers, or other optional features as specified in the manufacturer's installation and operating instructions.

This equipment is intended to be installed in accordance with appropriate installation standards, such as the current editions of:

- ANSI/NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations"
- ANSI/NFPA 211, "Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances"
- ANSI/NFPA 70, "National Electrical Code" (NEC)
- "Uniform Mechanical Code"
- "International Mechanical Code"
- "International Residential Code"
- Local codes

Installation is intended to be accomplished by a qualified agency - one who is engaged in, and is responsible for (or is thoroughly familiar with) the installation and operation of solid-fuel-burning heating and/or cooking appliances and who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the Authority Having Jurisdiction.

Installation is intended to be in strict accordance with the markings on the appliance and the manufacturer's installation instructions furnished with the appliance, including (as applicable) markings and instructions pertaining to clearances, types of adjacent surfaces, and proper vent installation. Equipment suitable for built-in installation, side-by-side mounting, or stacking is indicated in the installation instructions. Some equipment is intended to be placed on noncombustible floors, or on combustible floors covered with an insulating, noncombustible floor protector as specified in the manufacturer's installation instructions, ANSI/NFPA 96 and ANSI/NFPA 211.

All equipment, but especially equipment that may emit grease-laden vapors, is intended to be provided with an exhaust ventilating system in accordance with ANSI/NFPA 96. See Exhaust Hoods with Exhaust Dampers ([YXZR](#)), Exhaust Hoods Without Exhaust Dampers ([YYCW](#)) or Grease Ducts for Restaurant Cooking Appliances ([YYGQ](#)). Exhaust hood assemblies covered under these categories are intended to be installed in accordance with the manufacturer's installation instructions and ANSI/NFPA 96 and the NEC, as applicable.

All exhaust hoods are marked relative to minimum exhaust airflow and maximum supply airflow directed into the hood and/or out the bottom (if provided). Airflow rates are established under draft-free laboratory conditions. Greater exhaust and/or lesser supply airflow rates may be required for each specific installation to obtain complete vapor and smoke removal.

FACTORS NOT INVESTIGATED

The structural and sanitation properties of the appliance, the toxicity of the products of combustion, the physiological effects on persons consuming food products prepared or served by use of these appliances, the structures in which the appliance may be installed, and the toxicity of coatings have not been investigated.

PRODUCT IDENTITY

One of the following product identities appears on the product:

Wood-fired Equipment Part (for appliances that require additional parts to complete the installation)

Wood-fired Oven

Other product identities may be used as shown in the individual certifications.

RELATED PRODUCTS

See:

Gas-Wood-fired Food Service Equipment ([LGRC](#))

Gas-fired Food Service Equipment ([LGQX](#))

Heaters, Ranges, Household, Electric ([KRMX](#))

ADDITIONAL INFORMATION

For additional information, see Heating Appliances ([KTCR](#)) and Heating, Cooling, Ventilating and Cooking Equipment ([AAHC](#)).

REQUIREMENTS

The basic standard used to investigate products in this category is [ANSI/UL 2162](#), "Commercial Wood-Fired Baking Ovens - Refractory Type."

UL MARK

The Certification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Certification and Follow-Up Service. The [Certification Mark](#) for these products includes the UL symbol, the words "CERTIFIED" and "SAFETY," the geographic identifier(s), and a file number.

Additional Certification Markings

Appliances that require additional parts to complete the installation include the statement:

For Use with [Company name] Certified Wood-fired Equipment Parts

Alternate UL Mark

The Listing Mark of UL on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, the product name, such as "Wood-fired Oven," or other appropriate product name as shown in the individual Listings, and for appliances that require additional parts to complete the installation, the statement "For Use With [Company Name] Listed Wood-fired Equipment Parts." (+)

(+) Each additional part includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the product name "Wood-fired Equipment Part."

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