

Environmental Choice^M Program
Panel Review Process
VERIFICATION AND LICENSING CRITERIA
CCD-011



Product Type: Vented Gas Fireplaces

Preamble

The Environmental Choice Program is designed to support a continuing effort to improve and/or maintain environmental quality by reducing energy and materials consumption and by minimizing the impacts of pollution generated by the production, use and disposal of goods and services available to Canadians.

Fireplaces emit a variety of substances that are toxic or have other potential environmental impacts. These substances include, *inter alia*, carbon dioxide (CO₂), carbon monoxide (CO), soot, and nitrogen oxides (NO_x). While many of these issues relate to the combustion of any relevant fuel, the consequences are often worse when the fuel is wood. These issues may be addressed through marketing of fireplaces that burn natural gas, and which do so in a manner that produces fewer emissions.

Based on a review of currently available life cycle information, the following product category requirements will produce an environmental benefit through a reduction of harmful emissions to the environment.

Notice

Throughout this document, any reference to a standard or guideline means to its latest edition.

The Environmental Choice^M Program (ECP) reserves the right to accept equivalent test data for the test methods specified in this document.

Interpretation

1. In this set of requirements, please note the following definitions:

“ANSI”, means American National Standards Institute.

“CGA”, means the Canadian Gas Association.

“Direct Vent Gas-fireplace”¹, means a Vented Gas-fireplace including: combustion connections and flue gas connections between the appliance and the vent intake terminal; a vent-air intake terminal for installation outdoors, constructed such that all air for combustion is obtained from the outdoor atmosphere

^{1,2} Source: CGA Standard P.4-1998 p.2

and all flue gases are vented to the outside. The circulation of heated room air may be through natural convection or mechanical means.

“Draft Hood Gas-fireplace”², means a vented gas fireplace equipped with a draft hood or a draft diverter, in which combustion air and dilution air are drawn from a heated space, and the products of combustion combine with dilution air within the appliance, are discharged from a vent collar into a vertical stack.

“Efficiency (%)” means the maximum output in Btu/h divided by the maximum input, expressed as a percentage. Efficiencies are determined using the methodology provided in *CGA P. 4.1 Testing Method for Measuring AFUE of Vented Home Heating Equipment*.

“Net-energy loss”, means the hourly loss of heat to the outside as calculated from input energy and Fireplace Efficiency.

“Open-front Gas-fireplace”³, means a vented gas-fireplace other than direct-vent, and has neither a draft hood nor a draft diverter; mixing of flue products with combustion air occurs in the firebox.

“Power-vent Gas Fireplace”⁴, means a Gas-fireplace equipped with an induced draft fan to assist in venting combustion products.

“Vented Gas-fireplace”⁵, means a vented appliance that allows the view of flames and provides the simulation of a solid fuel fireplace. Simulation of solid fuel fireplace means simulation of logs or coal. The circulation of heated room air may be by gravity or mechanical means. Vented Gas Fireplaces include *Gas Fireplace-Vented, Gas Fireplace-Draft Hood, Gas Fireplace-Direct Vent, Open Front* and *Power Vent*.

General Requirements

2. To be authorized to carry the EcoLogo^M, the *Vented Gas-fireplace* must:
 - (a) meet or exceed all applicable governmental and industrial safety and performance standards; and
 - (b) be provided in such a manner that all steps of the process, including the disposal of waste products arising therefrom, will meet the requirements of all applicable governmental acts, by laws and regulations including, for facilities located in Canada, the *Fisheries Act* and the *Canadian Environmental Protection Act (CEPA)*.

Product Specific Requirements

3. To be authorized to carry the EcoLogo, the *Vented Gas-fireplace* must:
 - (a) meet the requirements of :

³ Source: CGA Standard P.4-1998 p.2

- CGA 2.22-M96/ANSI Z21.50-1996, *Vented Gas-fireplaces*; and
 - CGA 2.22a-M97/ANSI Z21.50a-1997, *Addenda to CGA 2.22-M96*
- (b) demonstrate a *Net-energy loss* of less than 9719 Btu / hr, when measured according to one of the following:
- CAN-2.1-86(R1996) - *Gas Fired Vented Room Heaters*
 - CAN/CGA-2.5-M86 (R1996) - *Gas Fired Gravity and Fan Type Vented Wall Furnaces*
 - CAN/CGA-2.19-M81 (R1996) - *Gas Fired Gravity and Fan Type Direct Vented Wall Furnaces*
- (c) demonstrate an *Efficiency* of at least 61.2% when measured according to one of the following:
- CAN-2.1-86(R1996) - *Gas Fired Vented Room Heaters*
 - CAN/CGA-2.5-M86 (R1996) - *Gas Fired Gravity and Fan Type Vented Wall Furnaces*
 - CAN/CGA-2.19-M81 (R1996) - *Gas Fired Gravity and Fan Type Direct Vented Wall Furnaces*

Verification

4. To verify a claim that a service meets the criteria listed in this document, the ECP will require access, as is its normal practice, to relevant quality control and production records and the right of access to production facilities on an announced basis.
5. Compliance with requirement 3(b) shall be attested to by a signed statement of the Chief Executive Officer or the equivalent officer of the licensee. The ECP shall be advised in writing immediately by the licensee of any noncompliance which may occur during the term of the license. On the occurrence of any noncompliance, the license may be suspended or terminated as stipulated in the license agreement.

Conditions for EcoLogo Use

6. The EcoLogo may appear on retail or wholesale products, signs or sign boards, point-of-purchase displays, delivery vehicles, and any accompanying advertising or corporate literature provided the service meets the requirements in this document.
7. All licensees and authorized users must comply with the ECP's *Guide to Proper Use of the EcoLogo^M* regarding the format and usage of the EcoLogo.
8. Any accompanying advertising must conform with the relevant requirements stipulated in this guideline, the license agreement and the ECP's *Guide to Proper Use of the EcoLogo^M*.
10. It is recommended that criteria statement appear with the EcoLogo whenever the EcoLogo is used in association with the *Vented Gas-fireplace*. The intent of this statement is to provide clarification as to why the product was certified and to indicate constraints to which the certification is limited. This is to ensure no ambiguity over, or misrepresentation of, the reason(s) for certification.

ECP suggested criteria statement wording for this product type is “*Vented Gas-fireplace*”. The licensee may propose other wording for the criteria statement, but any such proposed wording must be approved by the Environmental Choice Program.

INACTIVE