

Environmental Choice^M Program Panel Review Process

VERIFICATION AND LICENSING CRITERIA CCD-008



Product Type: Indirect Fired Domestic Hot Water Tanks

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:

“**Indirect Fired Domestic Hot Water Tanks**” means a hot water storage tank which uses a heat source that is physically separate from the tank (for example, heat from a boiler instead of heat from a burner at the base of the tank). These tanks can range in capacity from 150 litres to 450 litres.

“**ODP**” (Ozone Depletion Potential) means the ratio of calculated ozone column change for each mass unit of a gas emitted into the atmosphere relative to the calculated depletion for a mass unit of the reference gas CFC-11. Figures are provided in Table I at the end of this document;

“**Stand-by-loss**” represents the amount of heat lost from the stored water prior to its use.

General Requirements

2. In order to minimize the solid waste burden, conserve resources, and reduce quantities and impacts of toxic substances and other pollutants associated with packaging, the ECP requires the submission of an attestation of commitment to the objectives of the National Packaging Protocol.
3. To be authorized to carry the EcoLogo^M, the *Indirect Fired Domestic Hot Water Tanks* 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

4. To be authorized to carry the EcoLogo, the *Indirect Fired Domestic Hot Water Tanks* must:
 - (a) demonstrate a stand-by-loss of less than:
 - i) 60 watts per hour for tanks up to 200 litre storage capacity;
 - ii) 120 watts per hour for tanks with storage capacities greater than 200 and less than 450 litres;
 - (b) use polyurethane foam insulation blowing agents with an ODP of zero;
 - (c) meet the performance requirements of:
 - i) IAS Z-21 10.1b 1994: *Gas Water Heaters: Storage Water Heaters with Input Ratings of 75,000 Btu/h or less*; or
 - ii) IAS Z-21 10.3b 1994: *Gas Water Heater: Storage with Input Ratings Above 75000 Btu/hr , Circulating & Instantaneous Water Heaters*.

Verification

5. 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.
6. 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

8. 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.
9. 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.
10. 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*.

TABLE I
OZONE DEPLETING POTENTIALS AND GLOBAL WARMING POTENTIALS OF
SOME SELECTED BLOWING AGENTS

| SUBSTANCE | ODP ¹ |
|------------------|------------------|
| CO ₂ | - ³ |
| CH ₄ | - ³ |
| H ₂ O | - ³ |
| N ₂ O | - ³ |
| CFC-11 | 1.0 |
| CFC-12 | 1.0 |
| CFC-113 | 0.8 |
| CFC-114 | 1.0 |
| CFC-115 | 0.6 |
| HCFC-22 | 0.055 |
| HCFC-123 | 0.02 |
| HCFC-124 | 0.022 |
| HCFC-141b | 0.11 |
| HCFC-142b | 0.065 |
| HFC-134a | - ³ |
| HFC-152a | - ³ |

¹ Source: Fourth *Handbook for the International Treaties for the Protection of the Ozone Layer. Fourth Edition (1996)*. Ozone Secretariat. United Nations Environment Programme

² Source: *Climate Change 1995. The Science of Climate Change*. Edited by J.T. Houghton et al. Contribution of Working Group I to the Second Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press.

³ Assumed to be zero

Note: Plastic thermal insulation products that are manufactured using blowing agents not listed above can be certified subject to availability of ODP data from accredited sources. To have a product certified using an agent not listed above please contact a technical representative at the at TerraChoice Environmental Marketing Inc. (613) 247-1900. You will be asked to provide the ODP data as well as its source.