



CSA B140.12:22
National Standard of Canada



Oil-fired service water heaters for domestic hot water, space heating, and swimming pools



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Preface

This is the fifth edition of CSA B140.12, *Oil-fired service water heaters for domestic hot water, space heating, and swimming pools*. It supersedes the previous edition, published in 2003 under the title *Oil-Burning Equipment: Service Water Heaters for Domestic Hot Water, Space Heating, and Swimming Pools*. It also supersedes the third edition, published in 1976 under the title *Oil-Fired Service Water Heaters and Swimming Pool Heaters*, and the first two editions, published in 1972 and 1966 under the title *Oil-Fired Service Water Heaters*.

CSA B140.12 is one of a series of oil-burning equipment Standards providing minimum requirements for the safe operation, acceptable performance, design, construction, manufacture, marking, and testing of oil-burning equipment. It should be read in conjunction with CSA B140.0, *Oil-burning equipment: General requirements*.

The major changes in this edition include the following:

- a) The title has been changed from *Oil-Burning Equipment: Service Water Heaters for Domestic Hot Water, Space Heating, and Swimming Pools* to *Oil-fired service water heaters for domestic hot water, space heating, and swimming pools*.
- b) Reference publications have been updated (Clause [2](#)).
- c) All definitions have been deleted, and a reference has been inserted to redirect users to the definitions in CSA B140.0 (Clause [3](#)).
- d) The requirement for electrical features has been removed because it is covered in CSA B140.0.
- e) A new requirement has been added requiring appliances tested for use with biodiesel content in excess of 5% to have the burner and the fuel-delivery system components acceptable to the certification body for the blend specified (Clause [5.17](#)).
- f) The information required on the marking has been updated to include the input rate when the water heater is acceptable to the certification body for use with biodiesel content in excess of 5% (Clause [6.1](#)).
- g) The requirement for a cleanout brush or scraper being available from the manufacturer has been deleted (Clause [6.2.1](#)).
- h) Additional information has been added to the instructions (Clause [7.1](#)).
- i) Guidance has been provided to be included in the operating instructions when the water heater is acceptable to the certification body for use with biodiesel content in excess of 5% and No. 1 (kerosene) oil (Clause [7.3](#)).
- j) Guidance has been added for testing when the water heater is acceptable to the certification body for use with fuel having biodiesel content in excess of 5% and not exceeding 20% (Clause [8.2.12](#)).
- k) New requirements have been added when testing with biodiesel content in excess of 5% (Clause [8.3.4](#)).
- l) A new annex (Annex [A](#)) containing French translations for specified markings has been added.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Technical Committee on Oil-Burning Appliance Standards, under the jurisdiction of the Strategic Steering Committee on Fuels and Appliances, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.