

# **Solid-fuel-fired central heating appliances**



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# ***Update No. 1***

***B366.1-11***

***January 2014***

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The following revisions have been formally approved and are marked by the symbol delta ( $\Delta$ ) in the margin on the attached replacement pages:

<b>Revised</b>	Clause 1.1
<b>New</b>	None
<b>Deleted</b>	None

- Update your copy by inserting these revised pages.
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# B366.1-11

## ***Solid-fuel-fired central heating appliances***

### **1 Scope**

#### **Δ 1.1**

This Standard applies to manually or automatically fuelled solid-fuel-fired central heating appliances that have provision for venting directly to the outdoors by means of flue pipes, chimneys, etc.

#### **1.2**

For the purposes of this Standard, the term “solid fuel” includes, but is not limited to, coal and biomass fuels such as cordwood, chips, sawdust, wood and paper pellets, and corn.

#### **1.3**

This Standard applies to factory- or field-assembled appliances that have been or could have been completely assembled at the manufacturer’s plant and transported in the assembled condition.

#### **1.4**

This Standard also applies to the manually or automatically fuelled solid-fuel features of a combination solid-fuel-/fuel-oil-fired appliance, where the solid-fuel features can affect the safety or performance of the oil-fired appliance. In these cases, the requirements specified in this Standard are additional to the requirements that apply to the oil-fired appliance.

#### **1.5**

This Standard also applies to outdoor-aired solid-fuel-fired appliances.

#### **1.6**

This Standard also applies to solid-fuel-fired furnaces intended to be added on directly in series at a point after the warm air leaves the forced warm air oil-, natural-gas-, or propane-fired furnace (downstream series add-on).

#### **1.7**

The requirements specified in this Standard for solid-fuel-fired add-on furnaces also apply to any additional ductwork, controls, and other equipment recommended by the add-on furnace manufacturer and intended to be added on during the installation of the furnace.

#### **1.8**

The requirements specified in this Standard for solid-fuel-fired add-on furnaces do not apply to parallel systems and upstream series add-ons (where the solid-fuel-fired furnace has been added on directly in series at a point before the air enters the existing forced warm air furnace).

#### **1.9**

This Standard also applies to solid-fuel-fired furnaces

- (a) intended to be added on directly in series at a point after the warm air leaves the existing forced warm air electric furnace (downstream series add-on); and
- (b) with a single warm air discharge meeting the requirements of CSA C22.2 No. 23.1.

## 1.10

This Standard does not cover fireplaces, incinerators, space heaters, or stoves.

## 1.11

In CSA standards, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (nonmandatory) to define their application.

## 1.12

The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

## 2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

**Note:** See also Annex C.

### **CSA (Canadian Standards Association)**

B51-09

*Boiler, pressure vessel, and pressure piping code*

B139-09

*Installation code for oil-burning equipment*

B140 series of Standards

B140.0-03 (R2008)

*Oil-burning equipment: General requirements*

B140.2.1-10

*Atomizing-type oil burners*

B140.3-1962 (R2009)

*Oil burning stoves and water heaters*

CAN/CSA B1-2.4-04 (R2009)

*Oil-fired warm-air furnaces*

B140.7-05 (R2010)

*Oil-burning equipment: Steam and hot-water boilers*

B140.10-06

*Oil-fired warm-air heating appliances for mobile housing and recreational vehicles*

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Subcommittee on Solid-Fuel-Fired Central Heating Appliances ix

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# Preface

This is the fourth edition of CSA B366.1, *Solid-fuel-fired central heating appliances*. It supersedes the previous editions, published in 1991, 1987, and 1981.

The Scope of this latest edition has been updated to apply to appliances that have an input rating not exceeding 300 kW. New requirements for outdoor central heating appliances have been added in [Clauses 15](#) and [16](#).

Portions of this Standard were adapted with permission from UL 727, *Oil-fired central furnaces*.

This Standard was prepared by the Subcommittee on Solid-Fuel-Fired Central Heating Appliances, under the jurisdiction of the Technical Committee on Installation Code for Solid-Fuel-Burning Appliances and the Strategic Steering Committee on Fire Safety and Fuel-Burning Equipment, and has been formally approved by the Technical Committee.

January 2011

## Notes:

- (1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
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  - (c) wording of the proposed change; and
  - (d) rationale for the change.

# *B366.1-11*

## ***Solid-fuel-fired central heating appliances***

### **1 Scope**

#### **1.1**

This Standard applies to manually or automatically fuelled solid-fuel-fired central heating appliances that have an input rating not exceeding 300 kW (1 000 000 Btu/h) and provide for venting directly to the outdoors by means of flue pipes, chimneys, etc.

#### **1.2**

For the purposes of this Standard, the term “solid fuel” includes, but is not limited to, coal and biomass fuels such as cordwood, chips, sawdust, wood and paper pellets, and corn.

#### **1.3**

This Standard applies to factory- or field-assembled appliances that have been or could have been completely assembled at the manufacturer’s plant and transported in the assembled condition.

#### **1.4**

This Standard also applies to the manually or automatically fuelled solid-fuel features of a combination solid-fuel-/fuel-oil-fired appliance, where the solid-fuel features can affect the safety or performance of the oil-fired appliance. In these cases, the requirements specified in this Standard are additional to the requirements that apply to the oil-fired appliance.

#### **1.5**

This Standard also applies to outdoor-aired solid-fuel-fired appliances.

#### **1.6**

This Standard also applies to solid-fuel-fired furnaces intended to be added on directly in series at a point after the warm air leaves the forced warm air oil-, natural-gas-, or propane-fired furnace (downstream series add-on).

#### **1.7**

The requirements specified in this Standard for solid-fuel-fired add-on furnaces also apply to any additional ductwork, controls, and other equipment recommended by the add-on furnace manufacturer and intended to be added on during the installation of the furnace.

#### **1.8**

The requirements specified in this Standard for solid-fuel-fired add-on furnaces do not apply to parallel systems and upstream series add-ons (where the solid-fuel-fired furnace has been added on directly in series at a point before the air enters the existing forced warm air furnace).

#### **1.9**

This Standard also applies to solid-fuel-fired furnaces

- (a) intended to be added on directly in series at a point after the warm air leaves the existing forced warm air electric furnace (downstream series add-on); and