

Atomizing-type oil burners



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Technical Committee on Oil Burning Appliances

R.W. Smith	Canadian Oil Heat Association, Whitby, Ontario	<i>Chair</i>
T. Begoske	Field Controls LLC, Brighton, Michigan, USA	<i>Vice-Chair</i>
C. Baumgartner	Natural Resources Canada, Ottawa, Ontario	
B. Blouin	UTC Canada Corporation, Division ICP, Sherbrooke, Québec	
H. Bouchard	Corporation des maîtres mécaniciens en tuyauterie du Québec, Montréal, Québec	
K.D. Cabrera	The Coleman Company Inc., Wichita, Kansas, USA	
R.L. Cane	Caneta Research, Mississauga, Ontario	
J. Gorman	CSA International, Independence, Ohio, USA	
M. Grandi	Riello Canada Incorporated, Mississauga, Ontario	
E. Grzesik	Ontario Ministry of Energy and Infrastructure, Toronto, Ontario	
A.C. Hayden	Integrated Energy Systems, SBC Energy CO, Ottawa, Ontario	
A. Herzon	Nordyne Inc., Springfield, Missouri, USA	
K. Johnson	Newmac Manufacturing Incorporated, Debert, Nova Scotia	
P.G. McKelvey	Brampton, Ontario	
R. Mosavi	Viessmann Manufacturing Company Inc., Waterloo, Ontario	
M. Rizcallah	National Research Council Canada, Canadian Codes Centre, Ottawa, Ontario	

M. Robinet	ECR International Ltd., Olsen Division, Wallaceburg, Ontario
P. Scott	Central Yukon Region Consumer & Protective Services, Whitehorse, Yukon
D.C. Stewart	Nova Scotia Department of Environment and Labour, Halifax, Nova Scotia
R. Storey	Delaur Ltd., Oakville, Ontario
R. Sumabat	Technical Standards & Safety Authority, Toronto, Ontario
J.R. Willey	Superior Energy Systems, Derby, Kansas, USA
L. Contasti	Canadian Standards Association, Mississauga, Ontario

Project Manager

Preface

This is the third edition of CSA B140.2.1, *Atomizing-type oil burners*. It supersedes the previous editions, published in 1990 and 1973 under the title *Oil Burners; Atomizing-Type*.

This Standard is one of a series addressing atomizing-type oil burners. The other Standards in the series are

- (a) CSA B140.1, *Vapourizing-type oil burners*; and
- (b) CSA B140.2.2, *Pressure atomizing oil burner nozzles*.

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

July 2010

Notes:

- (1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
- (2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purposes.
- (3) This publication was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this publication.
- (4) CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee.
- (5) All enquiries regarding this Standard, including requests for interpretation, should be addressed to Canadian Standards Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.
 - Requests for interpretation should
 - (a) define the problem, making reference to the specific clause and, where appropriate, include an illustrative sketch;
 - (b) provide an explanation of circumstances surrounding the actual field condition; and
 - (c) be phrased where possible to permit a specific “yes” or “no” answer.
 - Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are published in CSA’s periodic Info Update, which is available on the CSA Web site at www.csa.ca.

B140.2.1-10

Atomizing-type oil burners

1 Scope

1.1

This Standard applies to oil burners of the atomizing type, irrespective of size, firing rate, or grade* of fuel oil, that are designed primarily for installation in warm-air, hot-water, and steam-heating equipment.

*As classified in CSA B140.0.

1.2

This Standard may also be applied to atomizing-type oil burners intended for installation in appliances such as ovens, heaters, ranges, and special furnaces.

1.3

This Standard applies to certain components and accessories (e.g., fuel units and combustion safety controls) for atomizing-type oil burners.

1.4

This Standard does not apply to complete oil-fired units, except where atomizing-type burners are integral to the units.

1.5

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.

1.6

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 noted below.

CSA (Canadian Standards Association)

B139-09

Installation code for oil-burning equipment