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ANSI Z21.17-1998 (reaffirmed 2019) • CSA 2.7- M98 (reaffirmed 2019)

American National Standard/CSA Standard for Domestic Gas conversion Burners



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AMERICAN NATIONAL STANDARD ANSI Z21.17-1998

CSA STANDARD CSA 2.7-M98

DOMESTIC GAS CONVERSION BURNERS

First Edition - 1998

This Standard is based on the Standards for

Domestic Gas Conversion Burners, ANSI Z21.17-1991 Addenda ANSI Z21.17a-1993 ANSI Z21.17b-1994 and

APPROVED

Domestic Gas Conversion Burners, CGA 2.7-M86 January 1989 (R1996)



November 10, 1998

American National Standards Institute, Inc.

IGAC

September 21, 1998 Interprovincial Gas Advisory Council Effective in Canada April 1, 2000

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Published - November 1998

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PREFACE

This publication represents a basic standard for safe operation, substantial and durable construction, and acceptable performance of vented gas fireplace heaters. It is the result of years of experience in the manufacture, testing, installation, maintenance, inspection and research on vented gas fireplace heaters designed for utilization of gas. There are risks of injury to persons inherent in appliances that, if completely eliminated, would defeat the utility of the appliance. The provisions in this standard are intended to help reduce such risks while retaining the normal operation of the appliance.

Nothing in this standard is to be considered in any way as indicating a measure of quality beyond compliance with the provisions it contains. It is designed to allow compliance of vented gas fireplace heaters, the safety construction and performance of which may exceed the various provisions specified herein. In its preparation, recognition has been given to possibilities of improvement through ingenuity of design. As progress takes place, revisions may become necessary. When they are believed desirable, recommendations or suggestions should be forwarded to the Chairman of Accredited Standards Committee Z21/83, 8501 East Pleasant Valley Road, Cleveland, Ohio 44131, or the Chairman of (Interim CSA) Gas Equipment Standards Steering Committee, 178 Rexdale Boulevard, Etobicoke, Ontario, Canada M9W 1R3.

Safe and satisfactory operation of vented gas fireplace heaters depends to a great extent upon its proper installation, use and maintenance. It should be installed, as applicable, in accordance with the *National Fuel Gas Code, ANSI Z223.1*; the *Natural Gas Installation Code, CAN/CGA-B149.1*; the *Propane Installation Code, CAN/CGA-B149.2*.

Users of this American National Standard/CSA Standard are advised that the devices, products and activities within its scope may be subject to regulation at the Federal, Territorial, Provincial, state or local level. Users are strongly urged to investigate this possibility through appropriate channels. In the event of a conflict with this standard, the Federal, Territorial, Provincial, state or local regulation should be followed.

THIS STANDARD IS INTENDED TO BE USED BY THE MANUFACTURING SECTOR AND BY THOSE APPLYING THE EQUIPMENT AND BY THOSE RESPONSIBLE FOR ITS PROPER INSTALLATION. IT IS THE RESPONSIBILITY OF THESE USERS TO DETERMINE THAT IN EACH CASE THIS STANDARD IS SUITABLE FOR AND APPLICABLE TO THE SPECIFIC USE THEY INTEND.

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EFFECTIVE DATE: An organization using this standard for product evaluation as a part of its certification program will normally establish the date by which all products certified by that organization should comply with this standard. In Canada the Standards Committee and the Interprovincial Gas Advisory Council normally stipulate an effective date for the standard.

HISTORY OF THE DEVELOPMENT OF THE STANDARD FOR DOMESTIC GAS CONVERSION BURNERS

(This History is informative and is not part of the standard.)

With the onset of the Free Trade Agreement between the United States and Canada on January 2, 1988, significant attention was given to the harmonization of the United States and Canadian safety standards addressing gas-fired equipment for residential, commercial and industrial applications. It was believed that the elimination of the differences between the standards would remove potential trade barriers and provide an atmosphere in which North American manufacturers could market more freely in the United States and Canada. The harmonization of these standards was also seen step toward harmonization international standards. Joint subcommittees were established to facilitate the standards harmonization process between the United States and Canada.

At its August 22, 1995 meeting, the Z21 Subcommittee on Standards for Domestic Gas Conversion Burners reviewed a draft by-national standard for gas conversion burners which was subsequently distributed for review and comment December 1995.

The first draft harmonized standard was based on current coverage form the American National Standard for Domestic Gas Conversion Burners, ANSI Z21.17-1991, Addenda ANSI Z21.17a-1993 and Addenda ANSI Z21.17b-1994, plus the National Standard of Canada for Domestic Gas Conversion Burners, CAN/CGA 2.7-M86.

Following reconsideration and modification of the proposed draft standard, in light of comments received, the domestic gas conversion burner subcommittee by letter ballot dated November 15, 1997 recommended the proposed draft standard to Accredited Standards Committee Z21/83 and the (Interim CSA) Standards Steering Committee for approval.

The proposed draft of the harmonized standard for gas conversion burners, as modified by the subcommittee, was approved by the Z21/83 Committee by letter ballot dated February 26, 1998, and by the (Interim CSA) Standards Steering Committee by letter ballot dated August 6, 1998.

The first edition of the American National Standard/CSA Standard for Domestic Gas Conversion Burners was approved by the Canadian Interprovincial Gas Advisory Council on September 21, 1998, and by the American National Standards Institute, Inc., on November 10, 1998

The following identifies the designation and year of the harmonized standard:

ANSI Z21.17 • CSA 2.7-M98

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NOTE

This standard contains SI (Metric) equivalents to the yard/pound quantities, the purpose being to allow the standard to be used in SI (Metric) units. ($ASTM\ E380$ or $CAN/CSA\ Z234.1$ are used as a guide in making metric conversion from yard/pound quantities.) If a value for a measurement and an equivalent value in other units, the first stated is to be regarded as the requirement. The given equivalent value may be approximate. If a value for a measurement and an equivalent value in other units, are both specified as a quoted marking requirement, the first stated unit, or both shall be provided.

AMERICAN NATIONAL STANDARD/CSA STANDARD FOR DOMESTIC GAS CONVERSION BURNERS

PART I

CONSTRUCTION

1.1 SCOPE

- 1.1.1 This standard applies to newly produced domestic gas conversion burners constructed entirely of new, unused parts and materials and having input ratings at normal inlet test pressure of not more than 400,000 Btu per hour (117 228 W):
 - a. For use with natural gas;
 - b. For use with manufactured gas;
 - c. For use with mixed gas;
 - d. For use with liquefied petroleum gases; and
 - e. For use with LP gas-air mixtures.

The construction of conversion burners for use with the above-mentioned gases is covered under Part I.

The performance of conversion burners for use with the above-mentioned gases is covered under Part II.

- 1.1.2 If a value for measurement as given in this standard is followed by an equivalent value in other units, the first stated value is to be regarded as the specification.
- 1.1.3 Exhibit A contains provisions that are unique to the United States.
- 1.1.4 Exhibit B contains provisions that are unique to Canada.
- 1.1.5 Exhibit C contains a list of standards specifically referenced in this standard, and sources from which these reference standards may be obtained.
- 1.1.6 All references to "psi" throughout this standard are to be considered gage pressures, unless otherwise specified.

1.2 ASSEMBLY

1.2.1 The general assembly of burners and accessories shall be of a neat and workmanlike character with all parts well fitted.