

# **Gas clothes dryers, volume II, type 2 clothes dryers**



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# Revision History

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# Preface

This is the fifth edition of ANSI Z21.5.2 • CSA 7.2, Gas clothes dryers, volume II, type 2 clothes dryers. It supersedes the previous editions published in 2013, 2005, 2001, and 1998.

This Standard was prepared by the Z21/CSA Joint Technical Subcommittee on Standards for Gas Clothes Dryers, under the jurisdiction of the Z21/83 Technical Committee on Performance and Installation of Gas Burning Appliances and Related Accessories, the Canadian Technical Committee on Gas Appliances and Related Accessories, and the Strategic Steering Committee on Standards for Fuel Burning Equipment, and had been formally approved by the Technical Committees, American National Standards Institute, and the Interprovincial Gas Advisory Council.

**Interpretations:** The Strategic Steering Committee on Standards for Fuel Burning Equipment has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA Group's procedures for interpretation shall be followed to determine the intended safety principle.”

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  - d) *rationale for the change.*
- 6) *To submit a request for interpretation of this Standard, please send the following information to [inquiries@csagroup.org](mailto:inquiries@csagroup.org) and include “Request for interpretation” in the subject line:*
  - 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) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

*Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at [standardsactivities.csa.ca](http://standardsactivities.csa.ca).*

## History of the development of ANSI Z21.5.2 • CSA 7.2

**Note:** *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 as a step toward harmonization with international standards.

A draft harmonized standard for Type 2 gas clothes dryers was prepared by subcommittee members and IAS U.S. staff. On December 6, 1995, the Z21/CGA Joint Gas Clothes Dryers Subcommittee reviewed by letter ballot the first draft harmonized Type 2 gas clothes dryer standard based on current coverage from the American National Standard for Gas Clothes Dryers, Volume II, Type 2 Clothes Dryers, ANSI Z21.5.2-1995, and Canadian Gas Association Standard for Gas Clothes Dryers, Commercial, CGA 7.2-1971.

The December 1995 letter ballot was approved by the joint subcommittee and a harmonized draft was distributed for industry review during January 1996.

With the formation of joint subcommittees, a Canadian Gas Association Standards Steering Committee on Gas Burning Appliances and Related Accessories was established to parallel Accredited Standards Committees Z21 and Z83, and to support the formation of joint subcommittees. Operating procedures, in accordance with American National Standards Institute procedures, for joint subcommittees were developed and subsequently approved by ANSI on April 1, 1993.

Following reconsideration and modifications of the proposed draft standard for Type 2 gas clothes dryers, in light of comments received, the joint gas clothes dryers subcommittee, at its March 6, 1996 meeting, recommended the proposed draft to the Accredited Standards Committee Z21 and the CGA Standards Steering Committee for approval.

The proposed draft of the harmonized standard for type 2 gas clothes dryers, as modified by the joint subcommittee, was approved by the Z21 Committee by letter ballot dated October 14, 1996, and by the CGA Standards Steering Committee on November 11, 1997.

The first edition of the harmonized Z21/CSA Standard for Gas Clothes Dryers, Volume II, Type 2 Clothes Dryers was approved by the Interprovincial Gas Advisory Council (IGAC), in February, 1998, and by the American National Standards Institute, Inc. (ANSI), on February 26, 1998.

The second edition was approved by the IGAC on June 25, 2001, and by ANSI on February 9, 2001.

The third edition of this Standard was approved by the IGAC on April 1, 2005 and by ANSI on December 20, 2004.

The fourth edition of this Standard was approved by the CSA Technical Committee on Gas Appliances and Related Accessories on September 5, 2012, the Z21/83 Technical Committee on Performance and Installation of Gas Burning Appliances and Related Accessories on April 23, 2013, the IGAC on June 5, 2013 and by ANSI on August 1, 2013.

This, the fifth edition of this Standard was distributed for industry review September 2012; March 2013; December 2014; and April 2015; approved by the CSA Technical Committee on Gas Appliances and

Related Accessories on May 27, 2016, the Z21/83 Technical Committee on Performance and Installation of Gas Burning Appliances and Related Accessories on June 10, 2016 the IGAC on July 8, 2016 and by ANSI on August 5, 2016.

The previous editions of the type 2 gas clothes dryers, and addenda thereto, approved by ANSI and the IGAC, are as follows:

ANSI Z21.5.2-1998 • CSA-7.2-M98 ANSI Z21.5.2a-1999 • CSA-7.2a-M99 ANSI Z21.5.2b-2000 • CSA-7.2b-M00	ANSI Z21.5.2-2001 • CSA-7.2-2001 ANSI Z21.5.2a-2003 • CSA-7.2a-2003 ANSI Z21.5.2b-2003 • CSA-7.2b-2003
ANSI Z21.5.2-2005 • CSA 7.2-2005 ANSI Z21.5.2a-2006 • CSA 7.2a-2006	ANSI Z21.5.2-2013 • CSA 7.2-2013

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

ANSI Z21.5.2-2016 • CSA 7.2-2016

**Note:** *This edition of ANSI Z21.5.2 • CSA 7.2 incorporates changes to the 2013 edition. Changes, other than editorial, are denoted by a  $\Delta$  in the margin.*

# ANSI Z21.5.2-2016 • CSA 7.2-2016

## ***Gas clothes dryers, volume II, type 2 clothes dryers***

### **1 Scope**

#### **Δ 1.1**

This Standard applies to newly produced type 2 clothes dryers (see Clause 3) hereinafter referred to as dryers, constructed entirely of new, unused parts and materials for use with:

- a) natural gas;
- b) manufactured gas;
- c) mixed gas;
- d) propane gas; and
- e) LP gas-air mixtures.

The construction of dryers for use with the above-mentioned gases is covered in Clause 4.

The performance of dryers for use with the above-mentioned gases is covered in Clause 5.

#### **1.2**

This Standard also covers all electrical equipment, wiring, and accessories built in or supplied for use with the dryer. It covers only dryers whose electrical equipment, wiring, and accessories are intended to be installed in accordance with the *National Electrical Code*, ANSI/NFPA 70, or the *Canadian Electrical Code*, CSA C22.1. This Standard covers dryers having supply voltage ratings of 120, 208, 240, 277, or 480 volts.

#### **1.3**

This Standard contains SI (Metric) corresponding to the yard/pound quantities, the purpose being to allow the Standard to be used in SI (Metric) units. (Standard for use of the International System of Units (SI): The Modern Metric System, IEEE/ASTM SI-10, or ISO 80000–1:2009 Quantities and units – Part 1: General, are used as a guide in making metric conversion from yard/pound quantities.) If a value for a measurement and a corresponding value in other units are stated, the first stated value is to be regarded as the requirement. The given corresponding value may be approximate. If a value for a measurement and corresponding value in other units are both specified as a quoted marking requirement, the first stated unit, or both shall be provided.

#### **1.4**

Special construction provisions applicable to a clothes dryer designed for use with an optional listed conversion kit are outlined under Annex A (optional).

#### **1.5**

All references to "psi" throughout this Standard are to be considered gauge pressures unless otherwise specified.