

Heating and cooling equipment



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Fourth Edition

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October 14, 2011



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Preface

This is the harmonized CSA and UL standard for Heating and Cooling Equipment. It is the fourth edition of CSA–C22.2 No. 236 and the fourth edition of UL 1995. This edition of CSA–C22.2 No. 236 and UL 1995 supersedes the previous editions published in 1995, 1990 and 2005.

This harmonized standard was prepared by Canadian Standards Association and Underwriters Laboratories Inc. The efforts and support of the heating and cooling equipment industry, the Air Conditioning and Refrigeration Institute (ARI), and the Heating, Refrigerating, and Air Conditioning Institute of Canada (HRAI) are gratefully acknowledged.

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

This Standard was reviewed by the CSA Subcommittee on Appliances for Air-Conditioning for Household and Similar Purposes, under the jurisdiction of the CSA Technical Committee on Consumer and Commercial Products and the CSA Strategic Steering Committee on the Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committees. It was also reviewed by the UL Standards Technical Panel 1995 and processed according to the method of development, revision, and implementation of UL standards for safety.

This Standard has been approved as a National Standard of the U.S.A. by the American National Standards Institute (ANSI).

Where reference is made to a specific number of specimens to be tested, the specified number is to be considered a minimum quantity.

Note: 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 purpose.

Level of harmonization

This Standard is published as an identical Standard. An identical Standard is a standard that is exactly the same in technical content except for national differences resulting from conflicts in codes and governmental regulations. Presentation is word for word except for editorial changes.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

UL Effective Date

This standard is now in effect for all products except for paragraphs 1.11, 2.1, 18.2, 18.10, 20.1, 20.12, 20.18, 26.10, 26.20, 28, 30.15, 31, item (j) of 37.3, 38.16, 48.1, 52, 54.2, 54.3, 56.3, 56.4, 61.5 – 61.8 and 80 which become effective on October 14, 2014.

A UL effective date is one established by Underwriters Laboratories Inc. and is not part of the ANSI approved standard.

CSA Effective Date

The effective date for CSA International will be announced through CSA *Informs* or a CSA certification notice.

Heating and cooling equipment

1 Scope

1.1 These requirements apply to the following stationary equipment for use in nonhazardous locations rated 7200 V or less, single- or 3-phase, and remote control assemblies for such equipment:

- a) Heat pumps, for heating and cooling with or without factory, or field-installed electric resistance heaters, or hot water or steam heating coils.
- b) Air conditioners for cooling with or without factory, or field-installed electric resistance heaters, or hot water or steam heating coils.
- c) Cooling portion and associated components of combination heating and cooling equipment employing gas-, oil-, or gas-oil-fired heating means. However, the requirements for the construction and performance of the gas-, oil-, or gas-oil-fired heating means, and their associated components, are to conform to the particular standards covering such heating equipment and components.
- d) Liquid chillers and compressor-evaporator or liquid chiller assemblies intended for use with remote condensers.
- e) Condensing units intended for connection to a remote nonspecified evaporator and compressor units intended for connection to a remote nonspecified evaporator and condenser.
- f) Add-on heat pumps for comfort heating or heating and cooling.
- g) Heat pump water heaters and refrigerant desuperheaters, and packaged heat pump water heaters consisting of a heat pump water heater and an associated storage tank.
- h) Fan units and fan coil units for comfort heating and/or comfort cooling.
- i) Room fan heater units, central heating furnaces, and similar fixed electric space heating for comfort heating.

1.2 The units referenced in Clause 1.1(g), self-contained heat pumps and air conditioners may be cord-connected if they

- a) are for indoor use only;
- b) are rated 250 V or less, single phase, with a marked rating of 24 A or less; and
- c) comply with Clause 1.11.

1.3 A fan unit includes a motor-operated fan or blower and is intended to be connected to a duct system that supplies conditioned air for environmental heating and/or cooling. Such a unit may have air-controlled dampers, but does not include a factory-installed heat exchanger or any other integral heating or cooling means.