

Electric clothes dryers



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Electric clothes dryers



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Standard for Safety for Electric Clothes Dryers

Twelfth Edition, Dated July 30, 2021

Summary of Topics

This is the Twelfth Edition of Standard for Electric Clothes Dryers dated July 30, 2021.

The requirements are substantially in accordance with Proposal(s) on this subject dated October 16, 2020 and April 16, 2021.

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CSA Group
CSA C22.2 No. 112:21
Twelfth Edition



Underwriters Laboratories Inc.
UL 2158
Sixth Edition

Electric Clothes Dryers

July 30, 2021



ANSI/UL 2158-2021

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PREFACE

This is the harmonized CSA Group and UL Standard for Electric Clothes Dryers. It is the twelfth edition of CSA C22.2 No. 112 and the sixth edition of UL 2158. This edition of CSA C22.2 No. 112 supersedes the previous edition published in 2018. This edition of UL 2158 supersedes the previous edition published in 2018.

The major differences between this edition and the previous edition include the addition of requirements for entrapment, stability test and anti-tip devices, heating test and surface temperature, dryers provided with a water inlet valve, UL 510A insulating tape, acoustic insulation and heat pump clothes dryers and motor controls for commercial appliances. This edition also includes the clarifications and revisions to risk of fire definition, thermocouples, mean value of input current, change-of-resistance method, leakage current, cool down period, base fire containment test, nichrome wire test, protective controls, metal enclosure thickness, cord-connected appliance requirements, airflow for base fire containment and endurance cycles for control devices.

This harmonized Standard was prepared by CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Committee for Laundry Standards and the Association of Home Appliance Manufacturers (AHAM) are gratefully acknowledged.

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

This Standard was reviewed by the CSA Subcommittee on Clothes-Drying Machines, under the jurisdiction of the CSA Technical Committee on Consumer and Commercial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee.

Application of Standard

Where reference is made to a specific number of samples 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 for CSA Group and UL.

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.

Reasons for Differences From IEC

This standard provides requirements for electric clothes dryers for use in accordance with the electrical installation codes of Canada and the United States. This standard does not employ any IEC standard for base requirements.

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.

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Electric Clothes Dryers

1 Scope

1.1 This Standard applies to electric clothes dryers intended to be used in nonhazardous locations in accordance with CSA C22.1, *Canadian Electrical Code, Part I* (CE Code, Part I) and the (U.S.) *National Electrical Code* (NEC), on circuits having a nominal voltage not exceeding 600 V.

Note: Wherever practical, for convenience, the term "appliance" has been used in lieu of "clothes dryer" or "machine".

1.2 This Standard applies to both cord-connected and permanently connected appliances. The appliances covered by this Standard are intended for use by the general public not specifically trained in the use of the appliance, regardless of the mode by which its operation is initiated. They are for use in households and for commercial purposes, including appliances provided with coin-, ticket-, or card-operated mechanisms, laundry centers and combination washer-dryers.

1.3 This Standard applies to tumbling clothes dryers and non-tumbling clothes dryers, such as drying cabinets, as well as both vented clothes dryers and non-vented clothes dryers, such as condensation-type and heat pump clothes dryers. Additional requirements for heat pump clothes dryers are given in Supplement [SD](#).

1.4 This Standard does not apply to industrial and institutional type appliances. Industrial or institutional appliances are covered under the scope of *Electric Commercial Clothes-Drying Equipment*, UL 1240.

Note: Industrial and institutional type appliances are not intended for use by the general public, but only by trained or supervised personnel.

2 Normative References

2.1 Products covered by this Standard shall comply with the referenced installation codes and standards noted in this clause.

2.2 Where reference is made to any Standards, such reference shall be considered to refer to the latest editions and revisions thereto available at the time of printing unless otherwise specified.

CSA Group Standards

C22.1-21
Canadian Electrical Code, Part I

C22.2 No. 0:20
General Requirements – Canadian Electrical Code, Part II

C22.2 No. 0.1:19
General Requirements for Double-Insulated Equipment

C22.2 No. 0.2:16
Insulation Coordination