R7005-17

Sustainability standard for household clothes drying appliances

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Association of Home Appliance Manufacturers
AHAM 7005-2017
Second Edition

CSA Group
CSA R7005-17
First Edition

Underwriters Laboratories Inc.
UL 7005
Second Edition

Sustainability Standard for Household Clothes Drying Appliances

June 22, 2017

ANSI/UL 7005-2017

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Preface

This is the first edition of CSA R7005, the second edition of UL 7005, and the most recent version of AHAM 7005, Sustainability Standard for Household Clothes Drying Appliances.

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

This standard was prepared by CSA Technical Committee on Sustainability of Household Appliances under the jurisdiction of CSA Strategic Steering Committee on Business Management and Sustainability and has been formally approved by the CSA Technical Committee.

The environmental performance of household clothes drying appliances is commonly evaluated on the single environmental attribute of electricity consumption during use. This Standard takes a multi-attribute, life cycle approach to measuring a broad spectrum of environmental and social impacts of household clothes drying appliances as a means of assessing sustainability performance. The multi-attribute approach was developed using representative product life cycle assessment (LCA) information along with other key factors such as hot-spot or hot-button analyses influencing product environmental performance. The attributes and criteria in this Standard are drawn from a much larger list and reflect the understanding of the attributes and criteria that are most prominent in sustainable performance and over which the manufacturers of these products have control. This approach, detailed in Annex A, determined the environmental attributes of household clothes drying appliances for inclusion in this Standard. The authors acknowledge that revisions to this standard will be considered periodically and that future editions may consider a broader range of sustainability criteria.

It has been contemplated by all parties that this Standard will be updated to reflect new U.S. Department of Energy or Natural Resources Canada minimum energy performance standards for household clothes drying appliances products. Many of the measurements included in this Standard are unique and have not been conducted on other appliance categories. The Standard's committees expect to learn much from the application of this Second Edition in subsequent years. The use of this Standard and self-assessment by household clothes drying appliances manufacturers and external third-party assessment bodies will be used to improve the Standard in drafting the second and subsequent editions.

This Standard was written specifically for products placed on the market in the United States and Canada. At the present time, a number of the calculations are based on systems and designs of products in North America.

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Foreword

The Association of Home Appliance Manufacturers (AHAM), CSA Group, and Underwriters Laboratories Inc. (UL), as a Task Force, under the jurisdiction of the AHAM Major Appliance Engineering Council, CSA Group Strategic Steering Committee on Business Management and Sustainability, and UL Environment, collaborated with experts and stakeholders to initiate development of product standards for home appliances as the first step in a broader product sustainability initiative. The overall goal of this family of standards is to provide meaningful product sustainability performance information to consumers and stakeholders. It is intended for this initiative to drive innovation and continual improvement in the sustainability performance of home appliances by empowering consumers. This Standard is based on product life cycle information and consideration for consumer expectations. It provides information for consumers, governments, retailers, and other program developers to help distinguish between products based on environmental criteria.

AHAM, CSA Group, and UL would like to acknowledge the assistance of PE INTERNATIONAL and Five Winds Strategic Consulting whose staff served as experts and project managers.

AHAM

The Association of Home Appliance Manufacturers (AHAM) represents manufacturers of major, portable and floor care home appliances, and suppliers to the industry in the U.S. and Canada. AHAM's membership includes over 150 companies throughout the world. AHAM is also a standards development organization, accredited by the American National Standards Institute (ANSI) and authors numerous appliance performance testing standards used by manufacturers, consumer organizations and governmental bodies to rate and compare appliances. AHAM administers several appliance rating verification programs, employing third party laboratories. AHAM's consumer safety education program has educated millions of consumers on ways to properly and safely use appliances such as portable heaters, clothes dryers, and cooking products.

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Canadian Standards Association (operating as "CSA Group") is a not-for-profit membership-based association serving business, industry, government, and consumers in the global marketplace. As a solutions-oriented organization, we work around the world to develop standards that address real needs, such as enhancing public safety and health, advancing the quality of life, helping to preserve the environment, and facilitating trade.

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1 Scope

1.1 This Standard covers clothes drying appliances for households included within the scope of the U.S. Department of Energy (DoE) and Natural Resources Canada (NRCan) minimum energy performance requirements. This includes the following product categories:

a) electric clothes dryers; and

b) gas clothes dryers.

NOTE: Presently gas dryers are not a regulated product in Canada for energy efficiency.

1.2 The clothes dryers covered by this definition include:

a) vented gas;

NOTE: Presently gas dryers are not regulated product in Canada for energy efficiency.

b) ventless or vented electric (standard), 124.6 L (4.4 ft^3) or greater capacity;

c) ventless or vented electric, compact (120 V) (less than 124.6 L (4.4 ft^3) capacity);

d) vented electric, compact (240 V) (less than 124.6 L (4.4 ft^3) capacity); and

e) vented electric, compact (240 V) (less than 124.6 L (4.4 ft^3) capacity).

1.3 This Standard excludes water-cooled electric ventless clothes dryers.

2 General

2.1 In this Standard, "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 (non-mandatory) to define their application.

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3 References

3.1 Normative references

3.1.1 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.

AHAM (Association of Home Appliance Manufacturers)

ANSI/AHAM-HLD-1-2010
Performance Evaluation Procedures for Household Tumble Type Clothes Dryers

Canadian Competition Bureau

Competition Act, R.S.C. 1985, c. C-34

Consumer Packaging and Labelling Act, R.S.C. 1985, c. C-38

CDP (Carbon Disclosure Project)

Investor Initiatives

Supply Chain Program

Water Program

CSA Group

CAN/CSA C361-16
Energy performance and drum volume of household electric clothes dryers NOTE: The current Canadian Energy Efficiency regulations refer to CAN/CSA-C361-92. This reference is expected to be updated in the next amendment.

CAN/CSA-ISO 14001:16
Environmental management systems - Requirements with guidance for use

PLUS 14021-2008
Environmental claims: A guide for industry and advertisers

DEFRA (UK Department for Environment, Food and Rural Affairs)

Reducing the environmental impact of clothes cleaning, December 2009

European Parliament and the Council of the European Union

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (cited as Directive 2011/65/EU)

Ecodesign of Laundry Dryers: Preparatory studies for Ecodesign requirements of Energy-using-Products (EuP) – Lot 16, December 2008

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