

**SLOVENSKI STANDARD**  
**SIST EN IEC 60335-2-43:2021****01-januar-2021****Nadomešča:****SIST EN 60335-2-43:2003****SIST EN 60335-2-43:2003/A1:2007****SIST EN 60335-2-43:2003/A2:2009**

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**Gospodinjski in podobni električni aparati - Varnost - 2-43. del: Posebne zahteve za sušilnike oblačil in držala za brisače**

Household and similar electrical appliances - Safety - Part 2-43: Particular clothes dryers and towel rails

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Appareils électrodomestiques et analogues - Sécurité - Partie 2-43 : Exigences particulières pour les appareils de séchage du linge et les sèche-serviettes

<https://standards.iteh.ai/en/standards/SIST-EN-IEC-60335-2-43-2021/c478-449d-8f6d-93235ee924f2/sist-en-iec-60335-2-43-2021>**Ta slovenski standard je istoveten z: EN IEC 60335-2-43:2020****ICS:**

13.120	Varnost na domu	Domestic safety
97.060	Aparati za nego perila	Laundry appliances

**SIST EN IEC 60335-2-43:2021**                      **en**

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EUROPEAN STANDARD

EN IEC 60335-2-43

NORME EUROPÉENNE

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ICS 13.120; 97.060

Supersedes EN 60335-2-43:2003 and all of its  
amendments and corrigenda (if any)

English Version

## Household and similar electrical appliances - Safety - Part 2-43: Particular requirements for clothes dryers and towel rails (IEC 60335-2-43:2017)

Appareils électrodomestiques et analogues - Sécurité -  
Partie 2-43: Règles particulières pour les appareils de  
séchage du linge et les sèche-serviettes  
(IEC 60335-2-43:2017)

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Teil 2-43: Besondere Anforderungen für  
Kleidungs- und Handtuchtrockner  
(IEC 60335-2-43:2017)

This European Standard was approved by CENELEC on 2017-11-15. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

**EN IEC 60335-2-43:2020 (E)****European foreword**

This document EN IEC 60335-2-43:2020 consists of the text of IEC 60335-2-43:2017 edition 4.0 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-04-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-10-11

This document supersedes EN 60335-2-43:2003 and all of its amendments and corrigenda (if any).

This standard is not linked to European legislation unless it is used in conjunction with A11.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of EN IEC 60335-2-43:2020/A11:2020.

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**Endorsement notice**

2021

The text of the International Standard IEC 60335-2-43:2017 was approved by CENELEC as a European Standard without any modification.



# INTERNATIONAL STANDARD

iTeh STANDARD

Household and similar electrical appliances – Safety –  
Part 2-43: Particular requirements for clothes dryers and towel rails

**PREVIEW**  
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SIST EN IEC 60335-2-43:2021

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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2-43: Particular requirements for  
clothes dryers and towel rails**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60335-2-43 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This fourth edition cancels and replaces the third edition published in 2002 including its Amendment 1 (2005) and its Amendment 2 (2008). This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- requirements for clothes dryers intended for drying footwear or gloves have been introduced (1, 3.1.9, 6.2, 11.8, 19.1, 19.13, 19.101, 19.102, 22.40, 23.3).

The text of this International Standard is based on the following documents:

CDV	Report on voting
61/5290/CDV	61/5376A/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fifth edition (2010) of that standard.

NOTE 1 When “Part 1” is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for clothes dryers and towel rails.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states “addition”, “modification” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

## INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

## HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-43: Particular requirements for clothes dryers and towel rails

#### 1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electric clothes dryers for drying textiles on racks located in a warm airflow, **clothes dryers** intended for drying footwear or gloves and to electric **towel rails**, for household and similar purposes, their **rated voltage** being not more than 250 V.

NOTE 101 The clothes racks can be fixed or free-standing in a cabinet. The air circulation can be natural or forced.

Appliances not intended for normal household use but that nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
  - physical, sensory or mental capabilities; or
  - lack of experience and knowledgeprevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 103 This standard does not apply to

- spin extractors (IEC 60335-2-4);
- tumble dryers (IEC 60335-2-11);
- appliances intended exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

#### 2 Normative references

This clause of Part 1 is applicable.

#### 3 Terms and definitions

This clause of Part 1 is applicable except as follows.

### 3.1.9 Replacement:

#### normal operation

operation of the appliance under the following conditions

Textiles positioned over the racks or rails in accordance with the instructions. The textiles are pre-washed, double-hemmed cotton sheets having dimensions approximately 700 mm × 700 mm and a specific mass between 140 g/m<sup>2</sup> and 175 g/m<sup>2</sup> in the dry condition.

Four layers of textiles are used for appliances having a heated surface supporting the textiles. One layer is used for appliances in which the textiles are dried by a warm airflow.

Note 101 to entry: In case of doubt, the cotton sheets are conditioned for at least 24 h at a temperature of 20 °C ± 5 °C and a relative humidity of (60 ± 5) %.

For **clothes dryers** intended for drying footwear or gloves, having loads that cover all of the air outlets, if any, the air outlets are blocked with a number of layers of textile material that results in the most unfavourable condition without operation of a **protective device**.

### 3.5 Additional definitions:

#### 3.5.101

##### clothes dryer

appliance that does not have a mechanical action such as tumbling or spinning that is intended to dry clothes by air flow

Note 1 to entry: These appliances may also be suitable to dry footwear, gloves and the like.

#### 3.5.102

##### towel rail

appliance to hold, warm and dry towels

Note 1 to entry: These appliances may also be suitable to dry swimwear, bath robes or the like.

### 3.6 Additional definition:

#### 3.6.101

##### free space

space with a volume exceeding 60 l where a child can be entrapped and which is accessible after opening any door or lid and removing any **detachable internal part**, including shelves and containers

Note 1 to entry: In calculating the volume, a space with any single dimension not exceeding 150 mm or any two orthogonal dimensions, each of which do not exceed 200 mm, is ignored.

## 4 General requirement

This clause of Part 1 is applicable.

## 5 General conditions for the tests

This clause of Part 1 is applicable.

## 6 Classification

This clause of Part 1 is applicable except as follows.

### 6.2 Addition: