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Interested committees:

Title: Draft BS EN 60335-2-11 Ed.9.0 Household and similar electrical appliances - Safety

Part 2-11: Particular requirements for tumble dryers

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



61/6527/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: IEC 60335-2-11 ED9	
DATE OF CIRCULATION: 2022-06-10	CLOSING DATE FOR VOTING: 2022-09-02
SUPERSEDES DOCUMENTS:	

IEC TC 61 : SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES	
SECRETARIAT: United States of America	SECRETARY: Ms Randi Myers
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: ☐ Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: ☐ EMC ☐ ENVIRONMENT ☐ QUALITY ASSURANCE ☒ SAFETY	
☐ SUBMITTED FOR CENELEC PARALLEL VOTING	☒ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers

PROPOSED STABILITY DATE: 2025

NOTE FROM TC/SC OFFICERS:

This document is circulated according to the decisions taken at the meeting of TC 61 in Wellington – see 61/5694/RM, Bled – see 61/5848A/RM, Shanghai – see 61/5948/RM, 2020 meetings – see 61/6183/RM, and 2021 Web Series-II – see 61/6435A/RM

History refer to:

61/5605/DC and 61/5662A/INF in 61/5694/RM, item 15b

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61/5768/DC and 61/5815A/INF in 61/5848A/RM, item 11
61/5852/DC and 61/5923A/INF in 61/5948/RM, item 12
61/5984/DC and 61/6025A/INF in 61/6183/RM, item 38b
61/6319/DC and 61/6393A/INF in 61/6435A/RM, item 9a
61/6320/DC and 61/6394A/INF in 61/6435A/RM, item 9b
61/6321/DC and 61/6395A/INF in 61/6435A/RM, item 9c

CONTENTS

1		
2		
3	FOREWORD.....	4
4	INTRODUCTION.....	7
5	1 Scope	8
6	2 Normative references	9
7	3 Terms and definitions	9
8	4 General requirement.....	10
9	5 General conditions for the tests	10
10	6 Classification.....	11
11	7 Marking and instructions.....	11
12	8 Protection against access to live parts.....	12
13	9 Starting of motor-operated appliances	12
14	10 Power input and current.....	12
15	11 Heating.....	12
16	12 Charging of metal-ion batteries.....	Error! Bookmark not defined.
17	13 Leakage current and electric strength at operating temperature	14
18	14 Transient overvoltages	14
19	15 Moisture resistance	15
20	16 Leakage current and electric strength	15
21	17 Overload protection of transformers and associated circuits	15
22	18 Endurance.....	15
23	19 Abnormal operation	15
24	20 Stability and mechanical hazards.....	18
25	21 Mechanical strength	19
26	22 Construction	19
27	23 Internal wiring.....	22
28	24 Components	22
29	25 Supply connection and external flexible cords	23
30	26 Terminals for external conductors	23
31	27 Provision for earthing	23
32	28 Screws and connections	23
33	29 Clearances, creepage distances and solid insulation	23
34	30 Resistance to heat and fire	23
35	31 Resistance to rusting	24
36	32 Radiation, toxicity and similar hazards.....	24
37	Annexes	25
38	Annex R (normative) Software evaluation	26
39	Annex AA (normative) Heat pump type tumble dryers	27
40	Annex BB (normative) Equipment protection by type of protection "n"	35
41	Bibliography.....	41

43	Figure 101 – Probe for measuring surface temperatures	24
44	Figure CC.1 – Pressure/volumetric air flow curve	
45	Figure CC.2 – Standard exhaust duct	
46	Figure CC.3 – Standard exhaust simulator	
47		
48	Table 101 – Maximum temperature rises for accessible external surfaces under normal	
49	operating conditions with the door closed	14
50	Table AA.201 – Maximum temperatures for motor-compressors	29
51		

Note of the Secretary: In order to facilitate review and due to the number of DCs for this Part 2 standard, this CDV was drafted using a colour code to identify the source of the revisions as shown below:

Black means: IEC 60335-2-11 ED8.0 2019

Pink means: 61/5768/DC + 61/5815A/INF

Grey means: 61/5852/DC + 61/5923A/INF

Blue text means: 61/5984/DC + 61/6025A/INF

Green text means: 61/6319/DC + 61/6393A/INF

Brown text means: 61/6320/DC + 61/6394A/INF

Orange text means: 61/6321/DC + 61/6395A/INF

Turquoise means: guidance document for updating Part 2 standards and EG1 updates

52

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-11: Particular requirements for tumble dryers

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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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 60335-2-11 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This ninth edition cancels and replaces the eighth edition published in 2019. This edition constitutes a technical revision.

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

- alignment with IEC 60335-1:2020;
- conversion of some notes to normative text (Clause 1, Annex AA);
- implement new definitions to type of appliances (3.5.102, 3.5.103, 3.5.104);
- implement requirements for base fire containment due to fluff or lint accumulation (Clause 19.104, Annex CC, Annex DD);
- specific requirements have been added in clause 22.51 for remote operation;
- specific requirements have been added in clause 24 for motor running capacitors

- new modifications in Annex R;
- update of requirements for appliance that use flammable refrigerants in Clause 21 and Clause 22 of Annex AA;
- Implement new requirements for non-sparking “n” electrical apparatus in Annex BB.

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

Draft	Report on voting
61/xx/CD	61/xx/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.

The language used for the development of this International Standard is English.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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 unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of the sixth edition (2020) 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 tumble dryers.

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.

The National Committees are requested to note that for this publication the stability date is 2025.

THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE PUBLICATION STAGE.

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.

The following differences exist in the countries indicated below.

- 3.1.9: The textile material has different dimensions (USA).
- 6.2: Tumble dryers are not required to be IPX4 (USA).
- 7.12: Actual articles of clothing can be specified instead and warnings are required to be marked on the appliance regarding the use of chemicals for cleaning (USA).
- 11.2: The test condition is different (USA).
- 11.7: This test is continued until steady conditions are established and different criteria are used to determine when steady conditions are reached (USA).
- 19.4: The test is different (USA).
- 19.9: A running overload test is carried out on automatically controlled tumble dryers (USA).
- 20.102: When considering accessibility to rotating drums, the maximum drum volume is 60 dm³ and the maximum door opening is 200 mm (USA).
- 20.103: This test is different (USA).
- 22.104: The test is different (USA).
- 27.1: Earthing terminals and contacts are allowed to be electrically connected to the neutral conductor of a tumble dryer (USA).

Note of the Secretary: National Committees are asked to reconfirm their in some countries notes. They will be deleted unless reconfirmed

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.

Guidance documents concerning the application of the safety requirements for appliances can be accessed via TC 61 supporting documents on the IEC website

<https://www.iec.ch/tc61/supportingdocuments>

This information is given for the convenience of users of this International Standard and does not constitute a replacement for the normative text in this standard.

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 publications, basic safety publications and group safety publications 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.

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 which 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.

NOTE 3 Standards dealing with non-safety aspects of household appliances are:

- IEC standards published by TC 59 concerning methods of measuring performance;
- CISPR 11, CISPR 14-1 and relevant IEC 61000-3 series standards concerning electromagnetic emissions;
- CISPR 14-2 concerning electromagnetic immunity;
- IEC standards published by TC 111 concerning environmental matters.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-11: Particular requirements for tumble dryers

1 Scope

This clause of Part 1 is replaced by the following.

This **part of IEC 60335** deals with the safety of electric **tumble dryers** intended for household and similar purposes, their **rated voltage** being not more than 250 V for single-phase appliances and 480 V for other appliances.

NOTE 101 This standard applies to the drying function of washing machines having a drying cycle.

This standard also deals with the safety of **heat pump type tumble dryers**. These appliances may use **flammable refrigerants**. Additional requirements for these appliances are given in normative Annex AA.

Appliances not intended for normal household use but which 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.

NOTE 102 Examples of such appliances are tumble dryers for communal use in blocks of flats or in launderettes.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons.

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 103 Attention is drawn to the fact that

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

NOTE 104 This standard does not apply to

- 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);
- appliances incorporating steam generating devices in which steam is produced at a pressure exceeding 50 kPa.

- **battery-operated appliance**

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

IEC 60584-1, *Thermocouples – Part 1: EMF specifications and tolerances*

ISO 817, Refrigerants – Designation and safety classification

3 Terms and definitions

This clause of Part 1 is applicable except as follows.

3.1 Definitions relating to physical characteristics

3.1.9 Replacement:

normal operation

operation of the appliance under the following conditions:

The appliance is operated filled with textile material having a mass in the dry condition equal to the maximum load stated in the instructions.

The textile material consists of pre-washed double-hemmed cotton sheets having dimensions approximately 70 cm × 70 cm and a specific mass between 140 g/m² and 175 g/m² in the dry condition. The textile material is soaked with water having a temperature of 25 °C ± 5 °C and a mass equal to that of the textile material.

If the drying function can automatically follow the washing function in a washing machine, the appliance is not separately loaded. The appliance is operated with the maximum quantity of textile material stated in the instructions for the combined washing-drying cycle.

Note 101 to entry: Cotton having a water content not exceeding 10 % is considered to be in the dry condition. Cotton conditioned for 24 h in still air, having a temperature of 20 °C ± 2 °C, a relative humidity between 60 % and 70 % and a pressure between 860 mbar and 1 060 mbar, will contain approximately 7 % water.

A **steam generator** intended to be filled by hand is filled according to the instructions, water being added to maintain the steam generation.

A **steam generator** intended to be filled automatically is connected to the water mains.

3.5 Definitions relating to types of appliances

3.5.101

tumble dryer

appliance in which textile material is dried by tumbling in a rotating drum through which heated air is blown

~~3.5.102~~

~~condensation-type tumble dryer~~

~~tumble dryer in which the air used for the drying process is dehumidified by cooling~~

3.5.102

condensation-type tumble dryer

tumble dryer in which the air used for the drying process is dehumidified by passing over an ambient heat exchanger and then recirculated through the load in a closed loop system

302 Note 1 to entry: A **condensation-type tumble dryer** is based on resistive heating element(s).

303 **3.5.103**

304 **vented-type tumble dryer**

305 **tumble dryer** in which the air that is used for the drying process is exhausted from the appliance
306 via an air duct

307 **3.5.104**

308 **heat pump type tumble dryer**

309 **tumble dryer** that uses a refrigerating system incorporating sealed motor-compressors for
310 carrying out the drying process

311 Note 1 to entry: A **heat pump type tumble dryer** can contain resistive heating element(s).

312 **3.6 Definitions relating to parts of an appliance**

313 **3.6.101**

314 **steam generator**

315 device in which steam is produced at a pressure not exceeding 50 kPa and in which the
316 pressure drops to atmospheric pressure when the steam is not supplied

317 **3.8 Definitions relating to miscellaneous matters**

318 **3.8.101**

319 **cool down period**

320 final part of the **tumble dryer** cycle where the drum is continuously rotated with reduced power
321 to the heating element and with air circulation in order to reduce the possibility of spontaneous
322 combustion of the clothes load

323 Note 1 to entry: Continuous rotation does not mean rotation in same direction if the intended operation is to reverse
324 direction in normal use.

325 **3.8.102**

326 **cheesecloth**

327 bleached cotton cloth running approximately 34 g/m² with a thread count in the range of
328 10 – 13 threads/cm by 9 - 12 threads/cm

329 **3.8.103**

330 **flammable refrigerant**

331 refrigerant with a flammability classification A2L, A2 or A3 in accordance with ISO 817

332 Note 1 to entry: For refrigerant blends that have more than one flammability classification, the most unfavourable
333 classification is taken for the purposes of this definition.

334 **4 General requirement**

335 This clause of Part 1 is applicable.

336 **5 General conditions for the tests**

337 This clause of Part 1 is applicable **except as follows**.

338 **5.2 Addition:**

339 *If the tests of 19.104 are carried out, two additional samples are needed.*

6 Classification

This clause of Part 1 is applicable except as follows.

6.2 Addition:

Appliances shall be at least IPX4.

7 Marking and instructions

This clause of Part 1 is applicable except as follows.

7.1 Addition:

The appliance shall be marked with symbol ISO 7000-0790 (2004-01) or with the substance of the following:

Read the instructions

7.10 Addition:

If the **off position** is only indicated by letters, the word "off" shall be used.

7.12 Addition:

The instructions shall state

- the maximum mass of dry textile material in kilograms to be used in the appliance;
- that the **tumble dryer** is not to be used if industrial chemicals have been used for cleaning;
- that the lint trap must be cleaned frequently, if applicable;
- that lint must not to be allowed to accumulate around the **tumble dryer** (not applicable for appliances intended to be vented to the exterior of the building);
- that adequate ventilation must be provided to avoid the back flow of gases into the room from appliances burning other fuels, including open fires (this instruction is not required if the **tumble dryer** discharges the air into the room).

If symbol ISO 7000-0790 (2004-01) is used, its meaning shall be explained.

The instructions shall include the substance of the following.

- Do not dry unwashed items in the tumble dryer.
- Items that have been soiled with substances such as cooking oil, acetone, alcohol, petrol, kerosene, spot removers, turpentine, waxes and wax removers should be washed in hot water with an extra amount of detergent before being dried in the tumble dryer.
- Items such as foam rubber (latex foam), shower caps, waterproof textiles, rubber backed articles and clothes or pillows fitted with foam rubber pads should not be dried in the tumble dryer.
- Fabric softeners, or similar products, should be used as specified by the fabric softener instructions.
- Remove all objects from pockets such as lighters and matches.
- Fill steam generators only with liquids specified by the manufacturer.

The instructions shall include the substance of the following warning: