

**MAJAPIDAMIS- JA MUUD TAOLISED ELEKTRISEADMED.  
OHUTUS. OSA 2-65: ERINÕUDED  
ÕHUPUHAUSTUSSEADMETELE**

**Household and similar electrical appliances - Safety -  
Part 2-65: Particular requirements for air-cleaning  
appliances (IEC 60335-2-65:2002 +  
IEC 60335-2-65:2002/A1:2008 +  
IEC 60335-2-65:2002/A2:2015)**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 60335-2-65:2003+A1+A11+A2+A12:2022 sisaldab Euroopa standardi EN 60335-2-65:2003 ja selle muudatuste A1:2008, A11:2012, A2:2022 ja A12:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 60335-2-65:2003+A1+A11+A2+A12:2022 consists of the English text of the European standard EN 60335-2-65:2003 and its amendments A1:2008, A11:2012, A2:2022 and A12:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.  Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 02.10.2003, muudatused A1 02.07.2008, A11 24.08.2012, A2 12.08.2022 ja A12 12.08.2022.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.  Date of Availability of the European standard is 02.10.2003, for A1 02.08.2008, A11 24.08.2012, A2 12.08.2022 and A12 12.08.2022.
Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega <b>A1</b> <b>A1</b> .  Muudatusega A11 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega <b>A11</b> <b>A11</b> .  Muudatusega A2 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega <b>A2</b> <b>A2</b> .  Muudatusega A12 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega <b>A12</b> <b>A12</b> .  Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags <b>A1</b> <b>A1</b> .  The start and finish of text introduced or altered by amendment A11 is indicated in the text by tags <b>A11</b> <b>A11</b> .  The start and finish of text introduced or altered by amendment A2 is indicated in the text by tags <b>A2</b> <b>A2</b> .  The start and finish of text introduced or altered by amendment A12 is indicated in the text by tags <b>A12</b> <b>A12</b> .  The standard is available from the Estonian Centre for Standardisation and Accreditation.

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ICS 23.120

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July 2003, July 2008, August 2012,  
August 2022, August 2022

ICS 23.120

Supersedes EN 60335-2-65:1995 + A1:2001

English Version

**Household and similar electrical appliances - Safety - Part 2-65:  
Particular requirements for air-cleaning appliances (IEC 60335-  
2-65:2002 + IEC 60335-2-65:2002/A1:2008 + IEC 60335-2-  
65:2002/A2:2015)**

Appareils électrodomestiques et analogues - Sécurité -  
Partie 2-65: Règles particulières pour les épurateurs d'air  
(CEI 60335-2-65:2002 + IEC 60335-2-65:2002/A1:2008 +  
IEC 60335-2-65:2002/A2:2015)

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Teil 2-65: Besondere Anforderungen für  
Luftreinigungsgeräte (IEC 60335-2-65:2002 + IEC 60335-2-  
65:2002/A1:2008 + IEC 60335-2-65:2002/A2:2015)

This European Standard was approved by CENELEC on 2003-05-01. Amendment A1 was approved by CENELEC on 2008-05-01. Amendment A11 was approved by CENELEC on 2011-12-21. Amendment A2 was approved by CENELEC on 2022-05-04. Amendment A12 was approved by CENELEC on 2021-10-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard and its amendments 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**

## Foreword

The text of the International Standard IEC 60335-2-65:2002 (61/2174/FDIS), prepared by IEC Technical Committee 61, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 60335-2-65 on 2003-05-01.

This European Standard replaces EN 60335-2-65:1995 + A1:2001.

The following dates are applicable:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2004-05-01
- date on which national standards  
conflicting with the EN have to be withdrawn (dow) 2006-05-01

This part 2 has to be used in conjunction with EN 60335-1, Household and similar electrical appliances – Safety – Part 1: General requirements. It was established on the basis of the 2002 edition of that standard. Amendments and revisions of Part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of Part 1.

This part 2 supplements or modifies the corresponding clauses of EN 60335-1, so as to convert it into the European Standard: Safety requirements for electric air-cleaning appliances.

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 of Part 1 is to be adapted accordingly.

NOTE 1 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.;
- subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letter Z.

NOTE 2 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.

There are no special national conditions causing a deviation from this European Standard, other than those listed in Annex ZA to EN 60335-1.

There are no national deviations from this European Standard, other than those listed in Annex ZB to EN 60335-1.

## Endorsement notice

The text of the International Standard IEC 60335-2-65:2002 was approved by CENELEC as a European Standard without any modification.

**A1 Amendment A1 foreword**

The text of document 61/3533/FDIS, future amendment 1 to IEC 60335-2-65:2002, prepared by IEC Technical Committee 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60335-2-65:2003 on 2008-05-01.

The following dates are applicable:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009-02-01
- date on which national standards conflicting with the amendment have to be withdrawn (dow) 2013-05-01

This amendment supplements or modifies the corresponding clauses of EN 60335-2-65:2003.

There are no special national conditions causing a deviation from this amendment.

There are no national deviations from this amendment.

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**Endorsement notice**

The text of amendment 1:2008 to the International Standard IEC 60335-2-65:2002 was approved by CENELEC as an amendment to the European Standard without any modification.

In the Bibliography, add the following note to the standard mentioned:

ISO 13732-1                      NOTE Harmonized as EN ISO 13732-1:2006 (not modified).



## **A11 Amendment A11 foreword**

This document (EN 60335-2-65:2003/A11:2012) has been prepared by CLC/TC 61, "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which the amendment has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2013-02-24
- latest date by which the national standards conflicting  
with the amendment have to be withdrawn (dow) 2014-12-21

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012, EN 60335-2-65:2003 and EN 60335-2-65:2003/A1:2008.

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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 this document.





## **A<sub>2</sub>** Amendment A2 European foreword

This document (EN 60335-2-65:2003/A2:2022) consists of the text of IEC 60335-2-65:2002/A2:2015 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2023-02-12  
implemented at national level by publication of an  
identical national standard or by endorsement
- latest date by which the national standards (dow) 2025-08-12  
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Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

### **Endorsement notice**

The text of the International Standard IEC 60335-2-65:2002/A2:2015 was approved by CENELEC as a European Standard. **A<sub>2</sub>**

## **A12 Amendment A12 European foreword**

This document (EN 60335-2-65:2003/A12:2022) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has (dop) 2023-02-12  
to be implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2025-08-12  
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# CONSOLIDATED VERSION

# VERSION CONSOLIDÉE



**Household and similar electrical appliances – Safety –  
Part 2-65: Particular requirements for air-cleaning appliances**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-65: Règles particulières pour les épurateurs d'air**



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# CONSOLIDATED VERSION

# VERSION CONSOLIDÉE



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**Household and similar electrical appliances – Safety –  
Part 2-65: Particular requirements for air-cleaning appliances**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-65: Règles particulières pour les épurateurs d'air**

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ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2-65: Particular requirements for air-cleaning appliances**

## FOREWORD

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This part of International Standard IEC 60335 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This second edition cancels and replaces the first edition published in 1993 and its amendment 1 (2000). It constitutes a technical revision.

This bilingual version, published in 2005-09, corresponds to the English version.

The text of this standard is based on the following documents:

FDIS	Report on voting
61/2174/FDIS	61/2255/RVD

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



The French version of this standard has not been voted upon.

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 fourth edition (2001) 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 electric air-cleaning appliances.

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 following differences exist in the countries indicated below.

- 8.1.4: The measurement method and maximum energy discharge are different (USA).
- 16.101: The test is different (USA).
- 22.101: This test is not carried out (USA).
- 24.101: The contact separation need not be in accordance with IEC 61058-1 (USA).
- Clause 32: This test is only applicable for portable appliances (USA).

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

The contents of the corrigendum 1 of July 2004 have been included in this copy.

**A1 AMENDMENT A1 FOREWORD**

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

The text of this amendment is based on the following documents:

FDIS	Report on voting
61/3533/FDIS	61/3585/RVD

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

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- withdrawn,
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- amended.

NOTE 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.

**A2 AMENDMENT A2 FOREWORD**

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

The text of this amendment is based on the following documents:

FDIS	Report on voting
61/4837/FDIS	61/4875/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

NOTE 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. **A1** 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. **A1**

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.

**A1** 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. **A1**

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.

**A12** This European amendment A12 supplements or modifies the corresponding clauses of:

— EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 (Part 1)

— EN 60335-2-65:2003+A1:2008+A11:2012+A2:2022 (Part 2) **A12**

**A11** The principle objectives of Low Voltage Directive, 2006/95/EC, are covered in this standard. The essential safety requirements of the Machinery Directive 2006/42/EC have also been taken into account for appliances covered by this part. **A11**

## HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-65: Particular requirements for air-cleaning appliances

#### 1 Scope

This clause of Part 1 is replaced by the following.

Ⓐ<sub>11</sub> This European Standard deals with the safety of electric **air-cleaning appliances**, their maximum **rated voltages** being not more than 250 V for single phase and 480 V for others.

Appliances and machines intended to be used in household, commercial applications, in shops, in light industry and on farms, are within the scope of this standard.

Additional requirements for appliances and machines intended for commercial use are given in Annex ZE.

NOTE Ⓐ<sub>12</sub> Z101 Ⓐ<sub>12</sub> Examples of appliance for household environment are appliances for typical housekeeping functions used in the household environment and appliances for typical housekeeping functions used by non expert users:

- in shops, offices and other similar working environments;
- in farm houses;
- by clients in hotels, motels and other residential type environments;
- in bed and breakfast type environments.

NOTE Ⓐ<sub>12</sub> Z102 Ⓐ<sub>12</sub> Household environment includes the dwelling and its associated buildings, the garden, etc.

NOTE Ⓐ<sub>12</sub> Z103 Ⓐ<sub>12</sub> Appliances built into building ventilation system are also within the scope of this standard. Ⓐ<sub>11</sub>

Ⓐ<sub>12</sub> This document deals with the reasonably foreseeable hazards presented by appliances and machines that are encountered by all persons. However, in general, it does not take into account:

- **children** playing with the appliance;
- the use of the appliance by **young children** and **very young children**;
- the use of the appliance by **older children** without supervision.

It is recognized that **very vulnerable people** may have needs beyond the level addressed in this document. Ⓐ<sub>12</sub>

NOTE 101 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 102 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);
- air-cleaning systems incorporated in the building structure.

## 2 Normative references

**A2** This clause of Part 1 is applicable except as follows.

*Addition:*

ISO 4892-2:2013, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps*

ISO 4892-4:2013, *Plastics – Methods of exposure to laboratory light sources – Part 4: Open-flame carbon-arc lamps* **A2**

## 3 **A2** Terms and definitions **A2**

This clause of Part 1 is applicable except as follows.

### 3.1.9 *Replacement:*

#### **normal operation**

operation of the appliance as supplied or with high-voltage output circuits short-circuited, whichever is more unfavourable

#### 3.101

##### **air-cleaning appliance**

self-contained appliance having a filter system that may incorporate means for ionizing the air

#### **A2** 3.102

##### **UV-C emitter**

radiating source constructed to emit non-ionizing electromagnetic energy at wavelengths of 100 nm to 280 nm

#### 3.103

##### **UV radiation air-cleaning appliance**

appliance that incorporates **UV-C emitters** to inactivate air-borne microbes **A2**

## 4 General requirement

This clause of Part 1 is applicable.

## 5 General conditions for the tests

This clause of Part 1 is applicable except as follows.

**5.101** *Appliances are tested as **motor-operated appliances**.*

## 6 Classification

This clause of Part 1 is applicable.

## 7 Marking and instructions

This clause of Part 1 is applicable except as follows.