
Gospodinjski in podobni električni aparati - Varnost - 2-98. del: Posebne zahteve za vlažilnike zraka - Dopolnilo A11

Household and similar electrical appliances - Safety -- Part 2-98: Particular requirements for humidifiers

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke -- Teil 2-98: Besondere Anforderungen für Luftbefeuchter

Appareils électrodomestiques et analogues - Sécurité -- Partie 2-98: Règles particulières pour les humidificateurs

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Ta slovenski standard je istoveten z: EN 60335-2-98:2003/A11:2019

ICS:

13.120	Varnost na domu	Domestic safety
97.030	Električni aparati za dom na splošno	Domestic electrical appliances in general

SIST EN 60335-2-98:2003/A11:2019 en,fr

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EUROPEAN STANDARD

EN 60335-2-98:2003/A11

NORME EUROPÉENNE

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ICS 97.030

English Version

Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers

Appareils électrodomestiques et analogues - Sécurité -
Partie 2-98: Règles particulières pour les humidificateurs

Sicherheit elektrischer Geräte für den Hausgebrauch und
ähnliche Zwecke - Teil 2-98: Besondere Anforderungen für
Luftbefeuchter

This amendment A11 modifies the European Standard EN 60335-2-98:2003; it was approved by CENELEC on 2019-04-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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EN 60335-2-98:2003/A11:2019 (E)

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European foreword

This document (EN 60335-2-98:2003/A11:2019) 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 to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-04-16
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-04-16

EN 60335-2-98:2003/A11:2019 is to be read in conjunction with EN 60335-1:2012 and its amendments, which is referred to in this text as "Part 1".

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012 including its amendments and EN 60335-2-98:2003, EN 60335-2-98:2003/A1:2005 and EN 60335-2-98:2003/A2:2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] 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.

For the relationship with EU Directive see informative Annex ZZ, which is an integral part of this document.

EN 60335-2-98:2003/A11:2019 (E)**1 Modification to the Scope**

Replace Note 101 by the following:

NOTE Z101 Examples of appliances that are within the scope of the standard are

- **ultrasonic humidifier,**
- **impeller humidifier,**
- **evaporation humidifier,**
- **steam vaporizer humidifier.**

Replace the fourth paragraph including the two dashed items by the following:

This standard 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 **very young children,**
- the use of the appliance by **young children** without supervision.

It is recognized that **very vulnerable people** may have needs beyond the level addressed in this standard.

2 Modification to Clause 3

Add the following new definitions:

3.Z101**ultrasonic humidifier**

appliance that nebulises water by means of ultrasound vibrations

3.Z102**impeller humidifier**

appliance that nebulises water by means of a high-speed rotating disk

3.Z103**evaporation humidifier**

appliance that evaporates water by creating airflow over or through a moistened material

3.Z104**steam vaporizer humidifier**

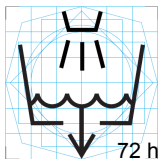
appliance that evaporates water by heating it up to the boiling point

3 Modification to Clause 7, Marking and instructions**7.1 Addition:**

Add a further dashed item:

- If the appliance is an **ultrasonic humidifier** or **impeller humidifier**, it shall be marked with the symbol "Clean the water tank every 3 days" or by similar text.

7.6 Addition:



Clean the water tank every three days



[symbol IEC 60417-5575 (2007-01)] filter cleaning/changing

7.12 Replace the addition by the following:

The instructions shall include details regarding filling, cleaning and descaling.

If symbols referred to in 7.1 or 7.6 of this amendment are used, then their meaning shall be explained in the instructions.

The instructions shall state the substance of the following:

- Be aware that high humidity levels may encourage the growth of biological organisms in the environment.
- Do not permit the area around the humidifier to become damp or wet. If dampness occurs, turn the output of the humidifier down. If the humidifier output volume cannot be turned down, use the humidifier intermittently. Do not allow absorbent materials, such as carpeting, curtains, drapes, or tablecloths, to become damp.
- Unplug the appliance during filling and cleaning.
- Never leave water in the reservoir when the appliance is not in use.
- Empty and clean the humidifier before storage. Clean the humidifier before next use.

The instructions for **ultrasonic humidifiers** and **impeller humidifiers** shall state the substance of the following:

Warning: Micro-organisms that may be present in the water or in the environment where the appliance is used or stored, can grow in the water reservoir and be blown in the air causing very serious health risks when the water is not renewed and the tank is not cleaned properly every 3 days.

The instructions for **ultrasonic humidifiers** and **impeller humidifiers** not provided with specific antibacterial features shall state the substance of the following:

- Empty the tank and refill every third day. Before refilling, clean it with fresh tap water or cleaning agents if required by the manufacturer. Remove any scale, deposits, or film that has formed on the sides of the tank or on interior surfaces, and wipe all surfaces dry.
- The instructions for **ultrasonic humidifiers** and impeller humidifiers provided with specific antibacterial components to be added to the water, shall state, if relevant, the type or characteristics of the antibacterial component to be used and shall clarify that these additives shall be added to the water at each refilling.

The instructions for **steam vaporizer humidifier** shall state the substance of the following:

- Keep the appliance out of the reach of children. Steam and boiling water may cause burns.

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The instructions for **electrode-type appliances** shall include the substance of the following:

- the composition and quantity of solution to be used and advice not to use an excessive amount of salt;
- the appliance is not to be operated from a d.c. supply.

7.14 Addition:

The height of the symbols "Clean the water tank every three days" and "IEC 60417-5575 (2007-01)" shall be at least 12 mm.

The height of the text "Clean the water tank every three days" shall be 8 mm measured on the capital letters.

7.15 Addition:

The symbol or the text for "Clean the water tank every three days" shall be clearly visible from the outside of appliance in normal use.

4 Modification to Clause 22, Construction

Add the following new subclauses:

22.Z101 Water reservoirs of **ultrasonic** or **impeller type humidifiers** not provided with specific antibacterial features shall be constructed so that every internal surface in touch with water is easily accessible for cleaning.

Inspection is made by using test probe B of EN 61032, which should be able to access all surfaces and within 3 mm of any corners.

22.Z102 Ultrasonic and impeller humidifiers not provided with specific antibacterial features shall give an audible and visible indication after a maximum interval of 3 days since last refill and every time when the appliance is energised. The indication shall remain until action by the user (e.g. cleaning and filling the container with fresh water or resetting the alarm) is taken.

Compliance is checked by inspection.

22.Z103 For **ultrasonic and impeller humidifiers** provided with specific antibacterial features (e.g. by construction, by chemical additives, etc.), the manufacturer shall deliver a declaration, with supporting documentation, to give evidence of the effectiveness of antibacterial features.

Compliance is checked by inspection of the documentation delivered.

22.Z104 Appliances shall be constructed so that lubricants are prevented from polluting the water in the reservoir.

Compliance is checked by inspection.