IEC 60704-2-9

Edition 2.0 2024-06
REDLINE VERSION

INTERNATIONAL STANDARD

colour inside

Household and similar electrical appliances – Test code for the determination of airborne acoustical noise –
Part 2-9: Particular requirements for electric hair care appliances

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 97.170, 17.140.20

ISBN 978-2-8322-9158-0

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – TEST CODE FOR THE DETERMINATION OF AIRBORNE ACOUSTICAL NOISE –

Part 2-9: Particular requirements for electric hair care appliances

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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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 60704-2-9:2003. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

IEC 60704-2-9 has been prepared by subcommittee 59L: Small household appliances, of IEC technical committee 59: Performance of household electrical appliances. It is an International Standard.

This second edition cancels and replaces the first edition published in 2003. This edition constitutes a technical revision.

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

a) Alignment with IEC 60704-1:2021.

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

Draft	Report on voting
59L/239/CDV	59L/253/RVC

Full information on the voting for its approval 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 was drafted in accordance with 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/publications.

A list of all parts in the IEC 60704 series, published under the general title *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise*, can be found on the IEC website.

This part 2-9 is intended to be used in conjunction with the fourth edition of IEC 60704-1:2021: *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements*.

The relevant text of IEC 60704-1:2021 as amended by this standard establishes the test code for electric hair care appliances.

This document supplements or modifies the corresponding clauses in IEC 60704-1:2021. When a particular subclause of IEC 60704-1:2021 is not mentioned in this document, that subclause applies as far as reasonable. Where this standard states "addition", "modification" or "replacement", the relevant requirements, test specification or explanatory matter in IEC 60704-1:2021 is adapted accordingly.

Subclauses or figures which are additional to those in IEC 60704-1:2021 are numbered starting from 101. Additional annexes are lettered AA, BB, etc.

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IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

The measuring conditions specified in this document provide for sufficient accuracy in determining the noise emitted and comparing the results of measurements taken by different laboratories, whilst simulating as far as possible the practical use of hair care appliances.

It is recommended to consider the determination of noise levels as part of a comprehensive testing procedure covering many aspects of the properties and performance of electric hair care appliances.

NOTE As stated in the introduction to IEC 60704-1, this test code is concerned with airborne noise only.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – TEST CODE FOR THE DETERMINATION OF AIRBORNE ACOUSTICAL NOISE –

Part 2-9: Particular requirements for electric hair care appliances

1 Scope ~~and object~~

~~This clause of Part 1 is applicable except as follows:~~

~~1.1 Scope~~

~~1.1.1 General~~

Replacement:

This part of IEC 60704 applies to electric hand-held hairdryers for household and similar use supplied from mains, which operate with a flow of air.

These particular requirements can also be applied to analogous electrically operated devices such as hairstyling appliances, which produce the airflow by a fan.

Helmet-type hairdryers are excluded from this document.

This document does not apply to hair care appliances with radiant heating.

~~1.1.2 Types of noise~~

~~*Replacement:*~~

~~ISO 3743-1, ISO 3743-2 and ISO 3744 can be used for measuring noise emitted by electric hairdryers.~~

~~1.1.3 Size of the source~~

~~*Replacement:*~~

~~The method specified in ISO 3744 is applicable to noise sources of any size (limited only by available test environment). When applying ISO 3743-1 and ISO 3743-2, care should be taken that the maximum size of the electric hair care appliance under test fulfils the requirements specified in 1.3 of ISO 3743-1 and ISO 3743-2.~~

~~1.2 Object~~

~~*Addition:*~~

~~Requirements for the declaration of noise emission values are not within the scope of this standard.~~

~~NOTE~~ For determining and verifying noise emission values declared in product specifications, see IEC 60704-3.

~~**2 Normative references**~~

~~This clause of Part 1 is applicable.~~

IEC 60704-2-9

Edition 2.0 2024-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Household and similar electrical appliances – Test code for the determination of airborne acoustical noise –
Part 2-9: Particular requirements for electric hair care appliances

Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien –
Partie 2-9: Exigences particulières pour les appareils électriques destinés aux soins des cheveux



IEC 60704-2-9:2024-06(en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – TEST CODE FOR THE DETERMINATION OF AIRBORNE ACOUSTICAL NOISE –

Part 2-9: Particular requirements for electric hair care appliances

1 Scope

Replacement:

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Helmet-type hairdryers are excluded from this document.

This document does not apply to hair care appliances with radiant heating.

For determining and verifying noise emission values declared in product specifications, see IEC 60704-3.

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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APPAREILS ÉLECTRODOMESTIQUES ET ANALOGUES – CODE D'ESSAI POUR LA DÉTERMINATION DU BRUIT AÉRIEN –

Partie 2-9: Exigences particulières pour les appareils électriques destinés aux soins des cheveux

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L'IEC 60704-2-9 a été établie par le sous-comité 59L: Petits appareils domestiques, du comité d'études 59 de l'IEC: Aptitude à la fonction des appareils électrodomestiques et analogues. Il s'agit d'une Norme internationale.

Cette deuxième édition annule et remplace la première édition parue en 2003. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

a) Alignement sur l'IEC 60704-1:2021.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
59L/239/CDV	59L/253/RVC

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/publications/.

Une liste de toutes les parties de la série IEC 60704, publiées sous le titre général *Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien*, se trouve sur le site web de l'IEC.

Cette partie 2-9 est destinée à être utilisée conjointement avec la quatrième édition de l'IEC 60704-1:2021: *Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien – Partie 1: Exigences générales*.

Le texte correspondant de l'IEC 60704-1:2021, modifié par la présente norme, constitue le code d'essai pour les appareils électriques destinés aux soins des cheveux.

Le présent document complète ou modifie les articles correspondants de l'IEC 60704-1:2021. Lorsqu'un paragraphe particulier de l'IEC 60704-1:2021 n'est pas mentionné dans ce document, ce paragraphe s'applique pour autant qu'il soit raisonnable. Lorsque la présente norme spécifie "addition", "modification" ou "remplacement", les exigences, modalités d'essai ou commentaires correspondants de l'IEC 60704-1:2021 sont adaptés en conséquence.

Les paragraphes ou les figures qui s'ajoutent à ceux de l'IEC 60704-1:2021 sont numérotés à partir de 101. Les annexes complémentaires sont appelées AA, BB, etc.

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INTRODUCTION

Les conditions de mesure spécifiées dans le présent document assurent une exactitude suffisante pour la détermination du bruit émis et lors de la comparaison des résultats des mesures dans différents laboratoires, tout en reproduisant, dans la mesure du possible, l'utilisation pratique des appareils destinés aux soins des cheveux.

Il est recommandé de considérer la détermination des niveaux de bruit comme faisant partie d'une procédure d'essais d'ensemble couvrant de nombreux aspects des propriétés et de l'aptitude à la fonction des appareils électriques destinés aux soins des cheveux.

NOTE Comme indiqué dans l'introduction de l'IEC 60704-1, le présent code d'essai concerne uniquement le bruit aérien.

APPAREILS ÉLECTRODOMESTIQUES ET ANALOGUES – CODE D'ESSAI POUR LA DÉTERMINATION DU BRUIT AÉRIEN –

Partie 2-9: Exigences particulières pour les appareils électriques destinés aux soins des cheveux

1 Domaine d'application

Remplacement:

La présente partie de l'IEC 60704 s'applique aux sèche-cheveux électriques tenus à la main pour usages domestiques et analogues, alimentés à partir du réseau et fonctionnant avec un flux d'air.

Ces exigences particulières peuvent également s'appliquer aux appareils électriques analogues tels que les appareils de coiffure dont le flux d'air est produit par un ventilateur.

Les casques sèche-cheveux sont exclus du présent document.

Le présent document ne s'applique pas aux appareils destinés aux soins des cheveux à chauffage rayonnant.

Pour la détermination et la vérification des valeurs d'émission sonore déclarées dans les spécifications de produit, voir l'IEC 60704-3.