

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Household and similar electrical appliances – Test code for the determination of airborne acoustical noise –  
Part 2-13: Particular requirements for range hoods and other cooking fume extractors**

**Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien –  
Partie 2-13: Exigences particulières pour les hottes de cuisine et autres extracteurs de fumée de cuisine**



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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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## CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope and object.....	6
2 Normative references.....	7
3 Terms and definitions .....	8
4 Measurement methods and acoustical environments .....	8
5 Instrumentation.....	9
6 Operation and location of appliances under test .....	9
7 Measurement of sound power levels .....	12
8 Calculation of sound pressure and sound power levels .....	12
9 Information to be recorded .....	13
10 Information to be reported.....	13
Annexes .....	16
Annex A (normative) .....	16
Figure 101 – Standard load for cooking fume extractors.....	14
Figure 102 – Example of standard stand.....	14
Figure 103 – Standard load for cooking fume extractors with an external fan.....	15
Table 101 – Standard deviations of sound power levels .....	7
Table 102 – Standard deviations for declaration and verification .....	7

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
TEST CODE FOR THE DETERMINATION OF AIRBORNE  
ACOUSTICAL NOISE –****Part 2-13: Particular requirements for range hoods  
and other cooking fume extractors**

## FOREWORD

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International Standard IEC 60704-2-13 has been prepared by subcommittee 59K: Performance of household and similar electrical cooking appliances, of IEC technical committee 59: Performance of household and similar electrical appliances.

This third edition cancels and replaces the second edition published in 2011. This edition constitutes a technical revision.

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

- a) change of title, scope and definitions 3.103 and 3.104: the standard is dealing with cooking fume extractors (this covers range hoods and down-draft systems);
- b) exhaust pipe of down-draft systems specified;

- c) built-in recirculation-air range hoods with an air outlet device specified;
- d) Annex AA has been deleted.

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

CDV	Report on voting
59K/272/CDV	59K/283/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.

This Part 2-13 is intended to be used in conjunction with IEC 60704-1:2010 (3rd edition), *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements*.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60704-1.

This Part 2-13 supplements or modifies the corresponding clauses in IEC 60704-1, so as to establish the test code for cooking fume extractors. When a particular subclause of Part 1 is not mentioned in this Part 2-13, that subclause is applicable as far as reasonable. Where this standard states "addition", "modification" or "replacement", the relevant requirements, test specifications or explanatory matter in Part 1 are to be adapted accordingly.

Subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1. Additional annexes are lettered AA, BB, etc.

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.

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.

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.

## INTRODUCTION

The measuring conditions specified in this part of IEC 60704 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 household range hoods and other cooking fume extractors.

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 household range hoods and other cooking fume extractors.

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 2-13: Particular requirements for range hoods and other cooking fume extractors

### 1 Scope and object

This clause of Part 1 is applicable except as follows:

#### 1.1 Scope

##### 1.1.1 General

*Addition:*

These particular requirements apply to electrical range hoods and other cooking fume extractors for household and similar use intended for filtering the air of a room or for exhausting the air out of a room, including their accessories and their component parts. It also applies to cooking fume extractors with an external fan which may be mounted inside or outside of the room where the range hood is located or a down-draft system that is arranged beside, behind or under the cooking surface.

##### 1.1.2 Types of noise

*Replacement:*

The methods specified in ISO 3743-1, ISO 3743-2 and ISO 3744 can be used for measuring noise emitted by cooking fume extractors.

##### 1.1.3 Size of source

*Replacement:*

The method specified in ISO 3744 is applicable to noise sources of any size. When applying ISO 3743-1 and ISO 3743-2, care should be taken that the maximum size of the cooking fume extractor under test fulfils the requirements specified in 1.2 of ISO 3743-1 and 1.3 of ISO 3743-2.

#### 1.2 Object

*Addition:*

This standard describes the determination of the noise emission of household cooking fume extractors under normal operating conditions and at the highest fan speed setting for normal use.

NOTE 101 If a boost position is incorporated, this is not taken into account (see 6.5 of IEC 61591:1997).

NOTE 102 A boost position is a setting of a control for occasional use, which results in a higher temporary fan speed (see 6.5 of IEC 61591:1997).

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