

INTERNATIONAL STANDARD

IEC 60704-2-6

Second edition
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Household and similar electrical appliances – Test code for the determination of airborne acoustical noise –

Part 2-6: Particular requirements for tumble-dryers

*Appareils électrodomestiques et analogues –
Code d'essai pour la détermination du bruit aérien –*

*Partie 2-6:
Règles particulières pour les sèche-linge à tambour*

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
TEST CODE FOR THE DETERMINATION OF AIRBORNE
ACOUSTICAL NOISE –**
Part 2-6: Particular requirements for tumble dryers

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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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International Standard IEC 60704-2-6 has been prepared by subcommittee 59D: Home laundry appliances, of IEC technical committee 59: Performance of household electrical appliances.

This second edition cancels and replaces the first edition published in 1994 and constitutes a technical revision.

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

FDIS	Report on Voting
59D/224/FDIS	59D/227/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 2-6 is intended to be used in conjunction with IEC 60704-1, 2nd edition 1997: *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements.*

The relevant text of Part 1 as amended by this standard establishes the test code for tumble dryers.

This Part 2-6 supplements or modifies the corresponding clauses in IEC 60704-1. When a particular subclause of Part 1 is not mentioned in this part 2-6, 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 shall be adapted accordingly.

Subclauses or figures which are additional to those in Part 1 are numbered starting from 101. 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.

The committee has decided that the contents of this publication will remain unchanged until 2005. At this date, the publication will be

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

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

The measuring conditions specified in this part of IEC 60704 provide for sufficient accuracy in determining the levels of noise emitted and comparing the results of measurements taken by different laboratories, whilst simulating as far as possible the practical use of tumble dryers.

It is recommended to consider the determination of noise levels as part of a comprehensive testing procedure covering many aspects of properties and performance of household tumble dryers.

Compared to the first edition (1994) of this Part 2-6, the second edition considers the noise during a complete drying cycle.

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

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

Part 2-6: Particular requirements for tumble dryers

1 Scope and object

This clause of Part 1 is applicable except as follows.

1.1 Scope

1.1.1 General

Replacement:

This standard applies to single unit electric tumble dryers for household and similar use intended for placing on the floor against a wall, for building in or placing under a counter, a kitchen work-top or under a sink, for wall-mounting or for mounting on a counter. For the purpose of this standard, washer-dryer combinations, when operated as a dryer, are considered as a tumble dryer.

Limitations for the use of this test code are given in 1.1.1 of IEC 60704-1.

1.1.2 Types of noise

Replacement:

ISO 3743-1, ISO 3743-2 and ISO 3744 can all be used for measuring noise emitted by tumble dryers.

1.1.3 Size of the 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 shall be taken that the maximum size of the tumble dryer 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 101 For determining and verifying noise emission values declared in product specifications, see IEC 60704-3.

1.3 Measurement uncertainty

Replacement:

The estimated values of standard deviations of sound power levels, determined according to this standard, are:

Standard deviation dB	
σ_r (repeatability)	σ_R (reproducibility)
0,4	0,8

Addition:

1.101 Standard deviation for declaration and verification

For the purpose of determining and verifying declared noise emission values, according to IEC 60704-3, the following values apply for the:

- standard deviation of production σ_P ;
- total standard deviation σ_t ;
- reference standard deviation σ_M .

Standard deviation dB		
σ_P	σ_t	σ_M
0,7 – 1,0	1,1 – 1,3	1,5

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

IEC 61121:2000, *Tumble dryers for household use – Methods for measuring the performance*

ISO/3055:1985, *Kitchen equipment – Coordinating sizes*

ISO 7235:1991, *Acoustics – Measurement procedures for ducted silencers – Insertion loss, flow noise and total pressure loss*