

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Household and similar electrical appliances – Test code for the determination of airborne acoustical noise –  
Part 2-2: Particular requirements for fan heaters**

**Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien –  
Partie 2-2: Exigences particulières pour les appareils de chauffage soufflants**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

## 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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IEC 60704-2-2 has been prepared by subcommittee 59C: Electrical heating appliances for household and similar purposes, of IEC technical committee 59: Performance of household and similar electrical appliances. It is an International Standard.

This third edition cancels and replaces the second edition published in 2009. This edition constitutes a technical revision.

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

- alignment with the latest edition of IEC 60704-1:2021,
- addition of several ISO standards,
- revision of built-in-conditions,
- addition of requirements on climatic conditions and on background noise.

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

Draft	Report on voting
59C/284/CDV	59C/286/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 part 2-2 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 publication establishes the test code for fan heaters.

This part 2-2 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 part 2-2, that subclause applies as far as reasonable. Where this standard states "addition", "modification" or "replacement", the relevant requirement, test specifications or explanatory matter in IEC 60704-1:2021 shall be 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.

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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all the parts in the IEC 60704 series, 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 [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## INTRODUCTION

The measuring conditions specified in this part 2-2 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 fan heaters.

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 fan heaters.

**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 2-2: Particular requirements for fan heaters

### 1 Scope

#### *Replacement:*

This part of IEC 60704 applies to electric fan heaters, designed for placing on the floor, table or counter, etc., or for mounting.

This document does not apply to

- electric storage room heaters;
- room humidifiers;
- room dehumidifiers;
- air cleaners;
- heaters designed exclusively for industrial purposes.

For determining and verifying noise emission values declared in product specifications, refer to IEC 60704-3:2019.

### 2 Normative references

This clause of IEC 60704-1:2021 is applicable.

### 3 Terms and definitions

This clause of IEC 60704-1:2021 is applicable.

### 4 Measurement methods and acoustical environments

This clause of IEC 60704-1:2021 is applicable except as follows:

#### 4.2 Direct method

##### *Addition:*

NOTE If pure tone components are present in the noise emitted, proper precautions need to be taken as specified in ISO 3743-2.

#### 4.3 Comparison method

##### *Addition:*

NOTE If pure tone components are present in the noise emitted, proper precautions need to be taken as specified in ISO 3743-1 and 3743-2.