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Interested committees:

Title: Draft BS EN 63086-2-3 Ed.1.0 Household and similar electrical air cleaning appliances - Methods for measuring the performance

Part 2-3: Particular requirements for reduction of microorganisms

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



59N/66/CD

COMMITTEE DRAFT (CD)

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2025-05-09

SUPERSEDES DOCUMENTS:

59N/20/NP, 59N/59/RVN

IEC SC 59N : ELECTRICAL AIR CLEANERS FOR HOUSEHOLD AND SIMILAR PURPOSES

SECRETARIAT:

United States of America

SECRETARY:

Mr Wayne Morris

OF INTEREST TO THE FOLLOWING COMMITTEES:

TC 34

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

Environment

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Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 2-3: Particular requirements for reduction of microorganisms

NOTE FROM TC/SC OFFICERS:

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 2-3: Particular requirements for reduction of microorganisms –**FOREWORD**

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Internal

IEC 63086-2-3 has been prepared by subcommittee 59N: Electrical air cleaners for household and similar purposes, of IEC technical committee 59: Performance of household and similar electrical appliances, in co-operation with ISO technical committee 142: Cleaning equipment for air and other gases. It is an International Standard.

It is published as a double logo International Standard.

This first edition cancels and replaces IEC PAS 63086-3-1 published in 2023.

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

Draft	Report on voting
XX/XX/XXXX	XX/XX/XXX

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 the ISO/IEC Directives, JTC 1 Supplement available at www.iec.ch/members_experts/refdocs and www.iso.org/directives

INTRODUCTION

Further reading:

DIN/TS 67506, *Disinfection of room air with UV radiation - UV-C sary air units*

ISO/CD 16000-43, *Indoor air - Part 43: Standard method for assessing the reduction rate of culturable airborne fungi by air purifiers using a test chamber*

EN 12353:2013, *Chemical disinfectants and antiseptics - Preservation of test organisms used for the determination of bactericidal (including Legionella), mycobactericidal, sporicidal, fungicidal and virucidal (including bacteriophages) activity*

GB 21551.3:2010, *Antibacterial and cleaning function for household and similar electrical appliance - Particular requirements of air cleaner*

JEM 1467:2015, *Air cleaners of household and similar use*

ANSI/AHAM AC-5:2022, *Method for assessing the reduction rate of key bioaerosols by portable air cleaners using an aerobiology test chamber*

WHO Laboratory biosafety manual

Further reading:

DIN/TS 67506, *Disinfection of room air with UV radiation - UV-C sary air units* [1]

ISO/CD 16000-43, *Indoor air - Part 43: Standard method for assessing the reduction rate of culturable airborne fungi by air purifiers using a test chamber* [2]

EN 12353:2013, *Chemical disinfectants and antiseptics - Preservation of test organisms used for the determination of bactericidal (including Legionella), mycobactericidal, sporicidal, fungicidal and virucidal (including bacteriophages activity*EN 12353:2013 [3]

GB 21551.3:2010, *Antibacterial and cleaning function for household and similar electrical appliance - Particular requirements of air cleaner* [4]

JEM 1467:2015, *Air cleaners of household and similar use* [5]

ANSI/AHAM AC-5:2022, *Method for assessing the reduction rate of key bioaerosols by portable air cleaners using an aerobiology test chamber* [6]

WHO Laboratory biosafety manual [7]

Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 2-3: Particular requirements for reduction of microorganisms –

1 Scope

This part of IEC 63086 specifies test methods for measuring the performance of household and similar electrical [air cleaners](#) intended for the reduction and/or inactivation of [microbe / microorganism](#) ([bacterium](#), [virus](#), and/or [fungus](#)).

This document does not apply to appliances intended to be used in medical, veterinary, pharmaceutical applications.

This document does not address sanitization, [disinfection](#) and/or sterilization measures.

This document does not support by itself any health-related claims or conclusions about prevention or treatment of a disease or health improvement.

This document specifies methods that enable reproducible measurements. These derived measurement results can only be used for a relative statement. Absolute statements, i.e. health-related claims or conclusions about prevention or treatment of a disease or health improvement, are reserved for explicit regulatory action after a medical assessment.

NOTE At this time the standard does not include any release of [microbe / microorganism](#) or the measurement of byproducts.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 63086-1:2020, *Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 1: General requirements*

IEC 63086-1:2020/AMD1:2023,

IEC 63086-2-1:2024, *Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 2-1: Particular requirements for determination of reduction of particles*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*

ISO 16000-36:2018, *Indoor air — Part 36: Standard method for assessing the reduction rate of culturable airborne bacteria by air purifiers using a test chamber*

EN 13098:2000, *Workplace atmospheres - Guidelines for measurement of airborne microorganisms and endotoxin*

ASTM E2197:2017, *Standard Quantitative Disk Carrier Test Method for Determining Bactericidal, Virucidal, Fungicidal, Mycobactericidal, and Sporocidal Activities of Chemicals*

ASTM E3273:2021, *Standard Practice for assessment of microbial survival and inactivation in indoor air using an aerobiology chamber*