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Project No. 2021/00979

Responsible committee: CPL/59 Performance of household electrical appliances

Interested committees:

Title: Draft BS EN IEC 62552-3/AMD2 Household refrigerating appliances - Characteristics and test methods. Part 3: Energy consumption and volume.

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- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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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.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

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 Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.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

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

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	Comment (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.	

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 62552-3/AMD2 ED1

DATE OF CIRCULATION:

2025-01-24

CLOSING DATE FOR VOTING:

2025-04-18

SUPERSEDES DOCUMENTS:

59M/139/RR

IEC SC 59M : PERFORMANCE OF ELECTRICAL HOUSEHOLD AND SIMILAR COOLING AND FREEZING APPLIANCES

SECRETARIAT:

Italy

SECRETARY:

Ms Milena Presutto

OF INTEREST TO THE FOLLOWING COMMITTEES:

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

☐ SUBMITTED FOR CENELEC PARALLEL VOTING☒ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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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 relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Amendment 2 - Household refrigerating appliances - Characteristics and test methods - Part 3: Energy consumption and volume

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

The Amendment 2 to Part 3 of International Standard IEC 62552-3 has been prepared by MT 2 Electrical household and similar cooling and freezing appliances, maintenance of performance standard, of Subcommittee 59M: Performance of electrical household and similar cooling and freezing appliances, of IEC technical committee 59: Performance of household and similar electrical appliances, under the convenorship of Mr Martien Janssen.

Milena Presutto

Secretary SC 59M

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IEC 62552-3:2015 C.2 Setup for testing and data collection

Replace the last line of the 3th paragraph with the following content:

Alternatively, at least three **defrost and recovery periods** are required and at least one of the **defrost and recovery periods** has to have the coldest **compartment** at or below **target temperature** for each **ambient temperature**.

IEC 62552-3:2015 C.4 Number of valid defrost and recovery periods

Replace the 2nd and 3rd paragraph with the following contents

Option 1: A valid value of ΔE_{df} shall be determined for each temperature control setting used for an energy determination on a single appliance in accordance with 6.8.2 and 6.8.3. The defrost and recovery period selected for each temperature control setting shall be adjacent to the steady state period used for energy determination in Annex B (this may occur before or after the steady state period for Case SS1; it shall be before the steady state period for Case SS2). A test period under Case SS1 may include part or all of Period D prior to a defrost or all or Part of Period F after a defrost. Any valid SS1 test period shall not include any data after the end of Period D and before the start of Period F for any defrost and recovery event. The representative value for ΔE_{df} for the appliance shall be the average of all valid values for test points used for energy determination.

Option 2: Where there is more extensive data available for a particular model (either through longer tests or tests on several units of the same model), then the representative value for ΔE_{df} for the appliance shall be the average of at least 3 valid values. In this case at least one value of ΔE_{df} shall have the coldest compartment at or below target temperature. A separate value for ΔE_{df} shall be determined for each ambient temperature.

Note to entry: The requirement for the number of valid defrosts has been reduced from 4 to 3 in order to reduce the test effort, as it was estimated that the effect on the final results would be marginal.

IEC 62552-3:2015/AMD1:2020 D.3 Compressor run time defrost controllers

Replace formula 26 and the first paragraph below with the following formula and content:

$$\Delta t_{df} = \frac{t_{prt} - \Delta t_{dr} - t_{dh}}{C R t_{ss}} = \frac{t_{crt} - \Delta t_{dr}}{C R t_{ss}}$$

Δt_{df} is the estimated **defrost interval** (elapsed time) for each **temperature control setting** and **ambient temperature** under test, in h, including the impact of **defrost and recovery**.

IEC 62552-3:2015 D.4.2 Variable defrost controllers – declared defrost intervals

Replace D.4.2 with the following contents: