



**BSI Standards Publication**

# **Household refrigerating appliances — Characteristics and test methods**

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Part 1: General requirements

**bsi.**

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## National foreword

This British Standard is the UK implementation of EN 62552-1:2020. It is derived from IEC 62552-1:2015. Together with BS EN 62552-2:2020 and BS EN 62552-3:2020, it supersedes BS EN 62552:2013, which is withdrawn.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **[C]** **[C]**.

The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Compliance with a British Standard cannot confer immunity from legal obligations.**

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### Amendments/corrigenda issued since publication

Date	Text affected
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 62552-1**

April 2020

ICS 97.030

Supersedes EN 62552:2013 (partially) and all of its  
amendments and corrigenda (if any)

English Version

**Household refrigerating appliances - Characteristics and test  
methods - Part 1: General requirements  
(IEC 62552-1:2015 , modified)**

Appareils de réfrigération à usage ménager -  
Caractéristiques et méthodes d'essai - Partie 1: Exigences  
générales  
(IEC 62552-1:2015 , modifiée)

Haushaltskühlgeräte - Eigenschaften und Prüfverfahren -  
Teil 1: Allgemeine Anforderungen  
(IEC 62552-1:2015 , modifiziert)

This European Standard was approved by CENELEC on 2020-02-24. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN 62552-1:2020 (E)**

## **European foreword**

This document (EN 62552-1:2020) consists of the text of IEC 62552-1:2015 prepared by IEC/TC 59 "Performance of household and similar electrical appliances", together with the common modifications prepared by CLC/TC 59X "Performance of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2021-02-24  
implemented at national level by publication of an  
identical national standard or by endorsement
- latest date by which the national standards (dow) 2023-02-24  
conflicting with this document have to be  
withdrawn

This standard in combination with standards EN 62552-2:2020 and EN 62552-3:2020 supersedes EN 62552:2013.

This standard shall be read in combination with standards EN 62552-2:2020 and EN 62552-3:2020.

EN 62552-1:2020 includes the following significant technical changes:

- a) Chapter D.2. Location of sensor has been modified completely
- b) Annex F Test report has been modified completely
- c) New Annex ZA Final test report was added

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62552-1:2015 are prefixed "Z".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under Standardization Request M/459 given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

## **Endorsement notice**

The text of IEC 62552-1:2015 was approved by CENELEC as a European Standard with agreed common modifications.

# Annex ZA (informative)

## Test report layout

No.:	Report - No.	Date:	dd/mm/yyyy	Type:	SomeFreezer SF1234
Test report - Household refrigeration appliance	Testing Institute:			Manufacturer:	Man-U-Fact Ltd. Somewhere Inthecity Country
	Science Lab Ltd. Anywhere Outinavillage Country				
(Requirements from EN 62552:201x and xxxx/xx/EU)	Approved by:	Name Department	Tested by:	Name Department	
		Signature		Signature	

  

Supplier name:	Man-U-Fact Ltd.
Model identifier:	xyz1234

  

Low-noise appliance:	yes/no	Efficiency class:	A - G
Wine storage appliance:	yes/no	Energy efficiency index EEI:	12,3
Other refrigerating appliance:	yes/no	Standard annual energy consumption [kWh/a]:	12,34
Design type:	built-in/freestanding	Climate class:	SN-T
Number of external doors:	1	Min. temperature*: [°C]	10
Winter setting:	yes/no	Max. temperature*: [°C]	43
Fast freezer facility:	yes/no	Combi parameter:	1,230
Anti-condensation heater type:	manual on-off /ambient/other/none	Load factor:	1,2
		Door heat loss factor:	1,23

  

Overall dimensions [mm]:	H	W	D		
	1234	x	1234	x	1234

  

All appliances	Decl.	Tested
Total volume [L]:	2345	2345

  

Wine coolers	Decl.	Tested
Bottle capacity [pcs]:	1234	1234
Temperature fluctuation test passed?		yes/no
Relative humidity test passed?		yes/no

Compartment	Type	Defrosting type [auto=A, manual=M]	Star rating	Volume [L]	Recommended temperature setting [°C]	Storage test passed?	
						High temp.	Low temp.
1	4-star	A/M/n.a.	4	123,4	≤ -18	yes/no	yes/no
2	3-star	A/M/n.a.	3	123,4	≤ -18	yes/no	yes/no
3	2-star	A/M/n.a.	2	123,4	≤ -12	yes/no	yes/no
4	1-star	A/M/n.a.	1	123,4	≤ -6	yes/no	yes/no
5	0-star/ice-making	A/M/n.a.	n.a.	123,4	≤ 0	yes/no	yes/no
6	Chill	A/M/n.a.	n.a.	123,4	-3 ≤ 3	yes/no	yes/no
7	Fresh food	A/M/n.a.	n.a.	123,4	0 ≤ +4	yes/no	yes/no
8	Wine storage	A/M/n.a.	n.a.	123,4	+5 ≤ +20	yes/no	yes/no
9	Cellar	A/M/n.a.	n.a.	123,4	+2 ≤ +14	yes/no	yes/no
10	Pantry	A/M/n.a.	n.a.	123,4	+14 ≤ +20	yes/no	yes/no
11	2-star section	A/M/n.a.	n.a.	123,4	≤ -12	yes/no	yes/no
12	Variable temperature compartment	A/M/n.a.	n.a.	124,4	-	yes/no	yes/no

Energy consumption 16°C ambient temperature	Tested
Incremental defrost energy consumption $\Delta E_{df}$ [Wh]:	1,20
Defrost and recovery interval $\Delta t_{df}$ [h]:	1,20
Energy consumption $E_{16}$ [kWh/d]:	0,123

Energy consumption 32°C ambient temperature	Tested
Incremental defrost energy consumption $\Delta E_{df}$ [Wh]:	1,2
Defrost and recovery interval $\Delta t_{df}$ [h]:	1,2
Energy consumption $E_{32}$ [kWh/d]:	1,234

Energy consumption 25°C ambient temperature (low noise appliances)	Tested
Incremental defrost energy consumption $\Delta E_{df}$ [Wh]:	12,34
Defrost and recovery interval $\Delta t_{df}$ [h]:	12,0
Energy consumption $E_{25}$ [kWh/d]:	1,234

Auxiliary energy consumption [kWh/a]:	12,345
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Tested ☐ Calculated ☐

Annual energy consumption AE [kWh/a]:	Tested	Passed?
	123	yes/no

Other performance characteristics	Tested	Passed?
Temperature rise time [h]:	12	yes/no/n.a.
Freezing capacity [kg/24h]:	2,0	yes/no/n.a.
Noise emission [dB(A)]:	12,3	yes/no
Noise emission class:	A/B/C/D	yes/no
Ice-making capacity [kg/24h]:	n.a.	yes/no/n.a.

Circumvention	Case
Circumvention measures suspected?	yes/no
Tests carried out to evaluate possible circumvention devices?	yes/no

\* Minimum

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## **Annex ZB**

(normative)

### **Normative references to international publications with their corresponding European publications**

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.

NOTE Z1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE Z2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62552-2 (mod)	2015	Household refrigerating appliances - Characteristics and test methods – Part 2: Performance requirements	EN 62552-2	2020
IEC 62552-3 (mod)	2015	Household refrigerating appliances - Characteristics and test methods – Part 3: Energy consumption and volume	EN 62552-3	2020

## Annex ZZA (informative)

### Relationship between this European Standard and the ecodesign requirements of Commission Regulation (EU) 2019/2019 aimed to be covered

This European standard has been prepared under a Commission's standardisation request "Mandate to CEN, CENELEC and ETSI for Standardisation in the field of household refrigerating appliances", M/459 (2009) to provide one voluntary means of conforming to the ecodesign requirements of Commission Regulation (EU) 2019/2019 of 1.10.2019 laying down ecodesign requirements for refrigerating appliances pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulation (EC) No 643/2009 [OJEU L315/187 of 5.12.2019].

Once this standard is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of this standard given in Table ZZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding ecodesign requirements of that Regulation and associated EFTA Regulations.

**Table ZZA.1 – Correspondence between this European Standard and Commission Regulation (EU) 2019/2019 of 1.10.2019 laying down ecodesign requirements for refrigerating appliances pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulation (EC) No 643/2009 [OJEU L315/187 of 5.12.2019] and Commission's standardisation request "Mandate to CEN, CENELEC and ETSI for Standardisation in the field of household refrigerating appliances", M/459 (2009)**

<b>Ecodesign requirements of Regulation No 2019/2019 [OJEU L315/187 of 5.12.2019]</b>	<b>Clause(s) / sub-clause(s) of this EN</b>	<b>Remarks/ Notes</b>
Annex II, 2 c) Marking of compartments	Clause 5.2	Marking for frozen compartments
Annex II, 2 e) 2-star sub-compartments or 2-star sections	Clauses 3.3.16., 3.3.16.2, 3.3.16.4, 3.3.17	
Annex II, 2 f) 4-star compartments	Clause 3.3.16.4	

**EN 62552-1:2020 (E)**

<b>Ecodesign requirements of Regulation No 2019/2019 [OJEU L315/187 of 5.12.2019]</b>	<b>Clause(s) / sub-clause(s) of this EN</b>	<b>Remarks/ Notes</b>
Article 4.4 Variable temperature compartment	Clause 3.3.4 and Annex B.2.5.2	
Annex II.4(n) Climatic class classification	Clause 4	
Art 4.4, Annex II.1(a), Table 1 and (b), Table 2 Energy consumption determination for low noise refrigerator	Clause 3.1.Z11	

**WARNING 1:** Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2:** Other Union legislation may be applicable to the products falling within the scope of this standard.



## Annex ZZB (informative)

### Relationship between this European Standard and the energy labelling requirements of Commission Delegated Regulation (EU) 2019/2016 aimed to be covered

This European standard has been prepared under a Commission's standardisation request "Mandate to CEN, CENELEC and ETSI for Standardisation in the field of household refrigerating appliances", M/459 (2009) to provide one voluntary means of conforming to the energy labelling requirements of Commission Delegated Regulation (EU) 2019/2016 of 11.3.2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of refrigerating appliances and repealing Commission Delegated Regulation (EU) No 1060/2010 [OJEU L315/102 of 5.12.2019].

Once this standard is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of this standard given in Table ZZB.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding energy labelling requirements of that Regulation and associated EFTA Regulations.

**Table ZZB.1 – Correspondence between this European Standard and Commission Delegated Regulation (EU) 2019/2016 of 11.3.2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of refrigerating appliances and repealing Commission Delegated Regulation (EU) No 1060/2010 [OJEU L315/102 of 5.12.2019] and Commission's standardisation request "Mandate to CEN, CENELEC and ETSI for Standardisation in the field of household refrigerating appliances", M/459 (2009)**

Energy labelling Requirements of Regulation No 2019/2016 [OJEU L315/102 of 5.12.2019]	Clause(s) / sub-clause(s) of this EN	Remarks/ Notes
Annex V, Table 6 (compartment parameters); Annex VI, Table 7 (compartment specifications) Variable temperature compartment	Clause 3.3.4 Annex B.2.5.2	
Annex V, Table 6 (general product parameters) Climate class classification	Clause 4	
Annex III, 1.2, VI.; Annex V, Table 6 (general product parameters); Annex VI, Table 7 (General product specifications) Energy consumption for low noise refrigerator	Clause 3.1.Z11	

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