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**Gospodinjski in podobni električni aparati - Postopek preskušanja za ugotavljanje zvočnega hrupa v zraku - 2-14. del: Posebne zahteve za hladilnike, zamrzovalne omare in zamrzovalnike - Dopolnilo A2**

Amendment 2 - Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-14: Particular requirements for refrigerators, frozen-food storage cabinets and food freezers

Elektrische Geräte für den Hausgebrauch und ähnliche Zwecke - Prüfvorschrift für die Bestimmung der Luftschallemission - Teil 2-14: Besondere Anforderungen an Kühlgeräte, Tiefkühlgeräte und Gefriergeräte

<https://standards.iteh.ai/catalog/standards/sist/416fe3d7-a24f-4197-b7c1-d6eb2b975a2a/sist-en-60704-2-14-2013-oprA2-2023>

Amendement 2 - Appareils électrodomestiques et analogues - Codes d'essai pour la détermination du bruit aérien - Partie 2-14: Exigences particulières pour les réfrigérateurs, conservateurs et congélateurs

**Ta slovenski standard je istoveten z: EN 60704-2-14:2013/prA2:2023**

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**ICS:**

17.140.20	Emisija hrupa naprav in opreme	Noise emitted by machines and equipment
97.040.30	Hladilni aparati za dom	Domestic refrigerating appliances

**SIST EN 60704-2-14:2013/oprA2:2023 en**





PROJECT NUMBER: <b>IEC 60704-2-14/AMD2 ED2</b>	
DATE OF CIRCULATION: <b>2023-06-02</b>	CLOSING DATE FOR VOTING: <b>2023-08-25</b>
SUPERSEDES DOCUMENTS: <b>59M/150/CD, 59M/154/CC</b>	

IEC SC 59M : PERFORMANCE OF ELECTRICAL HOUSEHOLD AND SIMILAR COOLING AND FREEZING APPLIANCES	
SECRETARIAT: Italy	SECRETARY: Ms Viktorija Krastinyte
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING
<b>Attention IEC-CENELEC parallel voting</b> The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	

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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: <b>Amendment 2 – Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-14: Particular requirements for refrigerators, frozen-food storage cabinets and food freezers</b>
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PROPOSED STABILITY DATE: 2026

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1                   **HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –**  
2                   **TEST CODE FOR THE DETERMINATION**  
3                   **OF AIRBORNE ACOUSTICAL NOISE –**  
4

5                   **Part 2-14: Particular requirements for refrigerators,**  
6                   **frozen-food storage cabinets and food freezers**  
7

8                   **Amendment 2**  
9

10  
11           **1.1.1 General**  
12

13           Replace the existing content with the following new content:  
14

15           *Addition:*

16           These particular requirements apply to refrigerating appliances (fitted with their accessories)  
17           for household and similar use, supplied from the mains or from batteries.

18           Note: This standard does not apply to air conditioners.

19           **1.1.2 Types of noise**  
20

21           Replace the existing content with the following new content:  
22

23           *Replacement:*

24           The methods specified in ISO 3743-1, ISO 3743-2 and ISO 3744 can be used for measuring  
25           noise emitted by refrigerating appliance.

26           **1.1.3 Size of the source**  
27

28           Replace the existing content with the following new content:  
29

30           *Replacement:*

31           The method specified in ISO 3744 is applicable to noise sources of any size. When applying  
32           ISO 3743-1 and ISO 3743-2, care should be taken to ensure that the maximum size of the  
33           refrigerating appliance under test fulfils the requirements specified in 1.2 of ISO 3743-1:2010  
34           and 1.3 of ISO 3743-2:1994.

35  
36           **3.101**  
37

38           Replace the existing content with the following new content:  
39

40           **running period**

41           for a **refrigerating appliance** with compressor, period which begins when the compressor  
42           turns on and ends when the compressor turns off.

43 for a **refrigerating appliance** without compressor, period which begins when the cooling  
44 system turns on and ends when the cooling system turns off.

45 If, however, the compressor or the cooling system (in appliances without compressor) runs for  
46 longer than 4 h, an aperiodic behaviour with no specific running period can be identified.

47

48 **Add the following sub-clause:**

49 **3.105**

50 **refrigerating appliance**

51 insulated cabinet with one or more compartments that are controlled at specific temperatures  
52 and are of suitable size and equipped for household use, cooled by natural convection or a  
53 forced convection system whereby the cooling is obtained by one or more energy-consuming  
54 means

55 Note 1 to entry: From the point of view of installation, there are various types of household refrigerating appliances  
56 (free-standing, portable, wall-mounted, built-in, etc.).

57

58 **6.4.2**

59 Replace the existing content with the following new content:

60 *Replacement:*

61 For determining noise emission of an appliance, it shall be operated at the following  
62 compartment internal temperatures.

- 63 • fresh-food storage compartment:  $4\text{ °C} \pm 2\text{ K}$
- 64 • food freezer compartment with independent setting:
  - 65 3- or 4-star-compartment:  $-18\text{ °C} \pm 2\text{ K}$
  - 66 2-star-compartment:  $-12\text{ °C} \pm 2\text{ K}$
  - 67 1-star-compartment:  $-6\text{ °C} \pm 2\text{ K}$
  - 68 0-star-compartment:  $0\text{ °C} \pm 2\text{ K}$
- 69 • chill compartment with independent setting:  $2\text{ °C} \pm 2\text{ K}$
- 70 • Wine storage or cellar compartment with independent setting:  $13\text{ K} \pm 2\text{ K}$  below ambient  
71 temperature. If temperature setting is not possible within this tolerance, the temperature  
72 difference shall be close to 13 K, but in any case larger than 11 K
- 73 • Pantry compartment:  $8\text{ K} \pm 2\text{ K}$  below ambient temperature. If temperature setting is not  
74 possible within this tolerance, the temperature difference shall be close to 8 K, but in any  
75 case larger than 6 K
- 76 • food freezer, chill, wine storage, cellar and pantry compartments without separate setting:  
77 no limitation

78

79 NOTE (for Draft only) The temperature difference to ambient temperature is derived from related tests according  
80 to IEC 62552-3 to get similar operating conditions. The ambient temperature is assumed 25°C according to IEC  
81 62552-3. Compartment temperatures are given in IEC 62552-3. For food freezer compartments with 1 to 4 stars the  
82 difference is increased by 2 K due to considerer asymmetrical tolerances in IEC 62552-3.

83

84 These temperatures shall be measured with temperature probes, the sensors of which are  
85 inserted in the centre of solid cylinders made of brass or tin-covered copper having a mass of  
86  $25\text{ g} \pm 5\%$  and of minimum external area (diameter = height = about 15,2 mm), located in the  
87 geometric centre of the compartments; they shall be considered to be the mean values over  
88 the temperature control cycle.

89 Appliances with two compressors shall be tested with both compressors in the running period.