

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



AMENDMENT 1  
AMENDEMENT 1

**Household and similar electrical appliances – Safety –  
Part 2-89: Particular requirements for commercial refrigerating appliances  
with an incorporated or remote refrigerant unit or compressor**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-89: Règles particulières pour les appareils de réfrigération à usage  
commercial avec une unité de fluide frigorigène ou un compresseur incorporés  
ou à distance**



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## FOREWORD

This amendment has been prepared by sub-committee 61C: Safety of refrigeration appliances for household and commercial use, of IEC technical committee 61: Safety of household and similar electrical appliances.

The text of this amendment is based on the following documents:

FDIS	Report on voting
61C/507/FDIS	61C/510/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

**IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

## Contents

*Replace the title of Clause 3 but not the clause number, by the following:*

## Terms and definitions

### 2 Normative references

*Replace reference to IEC 60079-15 by the following:*

IEC 60079-15:2010, *Explosive atmospheres – Part 15: Equipment protection by type of protection "n"*

*Add the following new reference:*

ISO 7010:2011, *Graphical symbols – Safety colours and safety signs – Registered safety signs*

### 3 Definitions

*Replace the title of Clause 3 but not the clause number, by the following:*

## Terms and definitions

### 5 General conditions for the tests

**5.7** *Replace the first dashed item in the first paragraph of the test specification by the following:*

- 32 °C ± 2 °C on appliances of climatic class 0, 1, 2, 3, 4, 6 or 8;

### 6 Classification

**6.101** *Add the following dashed item to the requirement:*

- appliance of class 8.

### 7 Marking and instructions

**7.1** *Replace the third dashed item in the addition by the following:*

- one or more of the numerals; 0, 1, 2, 3, 4, 5, 6, 7 or 8, indicating the climatic class of the appliance;

**7.6** *Replace Symbol ISO 3864-B.3.2 and its associated text by the following:*



Symbol ISO 7010 W021

Warning; Risk of fire / flammable materials

**7.14** *Add the following new paragraph:*

The height of the letters used for the marking of the type of flammable insulation blowing gas shall be at least 40 mm.

## 8 Protection against access to live parts

8.1.1 *Delete the modification.*

## 11 Heating

11.8 *Replace the fifth paragraph in the modification by the following:*

*For appliances of climatic classes 0, 1, 2, 3, 4, 6 or 8 the temperature rises shall not exceed the values given in Table 3.*

## 21 Mechanical strength

*Add the following new subclause.*

**21.102** Shelves in appliances for displaying or storing beverages shall have adequate mechanical strength.

*Compliance is checked as follows.*

*Each shelf shall be uniformly loaded in turn with a load/unit area of 25 kg/m<sup>2</sup> for a period of 1 h.*

*During the test, the shelf deflection shall not exceed 3 mm/meter of shelf width.*

*The test is then repeated with a uniform load/unit area of 230 kg/m<sup>2</sup> or the maximum load specified by the manufacturer whichever is more onerous. The load is applied for a period of 1 h.*

*During this test, the shelf shall not fall out of position.*

*For appliances intended to display or store barrels, this test is repeated a further four times, the load being removed and the reapplied each time.*

*After the tests, the appliance shall show no damage that could impair compliance with this standard and compliance with 8.1, 15.1 and clause 29 shall not be impaired. In case of doubt, **supplementary insulation and reinforced insulation** are subjected to the electric strength test of 16.3.*

NOTE Damage to the finish, small dents that do not reduce **clearances** or **creepage distances** below the values specified in clause 29, and small chips that do not adversely affect protection against access to **live parts** or moisture, are ignored.

## 24 Components

24.1.4 *Add the following to the last paragraph of the addition:*

*They shall be marked with:*

- *name, trademark or identification mark of the manufacturer or responsible vendor;*
- *model name or type reference.*

## **Annex BB – Non-sparking “n” electrical apparatus**

*Replace the existing text of Annex BB by the following:*

Where reference is made to IEC 60079-15, the following clauses are applicable as modified below.

### **11 Supplementary requirements for non-sparking luminaires**

All of the subclauses of Clause 11 are applicable, except 11.2.4.1, 11.2.4.5, 11.2.5, 11.2.6, 11.2.7, 11.3.4, 11.3.5, 11.3.6 and 11.4.

### **16 General supplementary requirements for apparatus producing arcs, sparks or hot surfaces**

Clause 16 is applicable.

### **17 Supplementary requirements for enclosed-break devices and non-incendive components producing arcs, sparks or hot surfaces**

Clause 17 is applicable.

### **18 Supplementary requirements for hermetically sealed devices producing arcs, sparks or hot surfaces**

Clause 18 is applicable.

### **19 Supplementary requirements for sealed devices producing arcs, sparks or hot surfaces**

All of the subclauses of Clause 19 are applicable, except 19.1 and 19.6, which are replaced by the following.

#### **19.1 Non-metallic materials**

Seals are tested using 22.5. However, if the device is tested in the appliance, then 22.5.1 and 22.5.2 are not applicable. After the tests of Clause 19 in IEC 60335-2-89, by inspection, no damage that could impair the type of protection shall be evident.

#### **19.6 Type tests**

The type tests described in 22.5 shall be performed where relevant.

### **20 Supplementary requirements for restricted-breathing enclosures protecting apparatus producing arcs, sparks or hot surfaces**

Clause 20 is applicable.

## Bibliography

*Delete reference to ISO 13732-1.*

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[60335-2-89-2010-amd1-2012](#)

## AVANT-PROPOS

Le présent amendement a été établi par le sous-comité 61C: Appareils domestiques de réfrigération, du comité d'études 61 de la CEI: Sécurité des appareils électrodomestiques et analogues.

Le texte de cet amendement est issu des documents suivants:

FDIS	Rapport de vote
61C/507/FDIS	61C/510/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cet amendement.

Le comité a décidé que le contenu de cet amendement et de la publication de base ne sera pas modifié avant la date de stabilité indiquée sur le site web de la CEI sous "<http://webstore.iec.ch>" dans les données relatives à la publication recherchée. A cette date, la publication sera

- reconduite,
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- amendée.

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Le comité recommande que le contenu de cette publication soit entériné au niveau national au plus tôt 12 mois et au plus tard 36 mois après la date de publication.

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