

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Household and similar electrical appliances – Safety –
Part 2-75: Particular requirements for commercial dispensing appliances and
vending machines**

**Appareils électrodomestiques et analogues – Sécurité –
Partie 2-75: Exigences particulières pour les distributeurs commerciaux avec ou
sans moyen de paiement**

[IEC 60335-2-75:2024](https://standards.iteh.ai/IEC-60335-2-75:2024)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-75: Particular requirements for commercial dispensing appliances and vending machines

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60335-2-75 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2012, Amendment 1:2015 and Amendment 2:2018. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) alignment with IEC 60335-1:2020;
- b) conversion of some notes to normative text (Clause 1, 7.1, 19.2, 19.101);

- c) addition of requirements for electrode-type liquid heaters (Clause 1, 3.1.9, 3.6.101, 3.7.103, 13.2, 13.3, 16.2, 16.3, 19.1, 19.103 to 19.106, 22.6, 22.33, 22.115 to 22.118, 24.1.2, 27.1, Annex BB);
- d) addition of test requirements for appliances with a recommended ambient temperature above 25 °C (5.7);
- e) application of test probes 18 and 19 (8.1.1, 20.2, 22.101, B.22.3, B.22.4);
- f) addition of accessible surface temperature limits including marking of hot surfaces (7.1, 7.6, 7.12, 7.14, 7.15, 11.3, 11.8);
- g) addition of requirements to prevent simultaneous operation of multiple loads (22.114, Annex R);
- h) clarification of requirements for thermal cut-outs located in a service area (24.103).

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

Draft	Report on voting
61/7301/FDIS	61/7344/RVD

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 ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of the sixth edition (2020) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Particular requirements for commercial dispensing appliances and vending machines.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations can 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.

The following differences exist in the countries indicated below.

- 6.1: Class 0I is allowed for appliances used indoors having a rated voltage not exceeding 150 V (Japan).
- 13.2: The leakage current limits are different (Japan).
- 16.2: The leakage current limits are different (Japan).

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INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

Guidance documents concerning the application of the safety requirements for appliances can be accessed via TC 61 supporting documents on the IEC website

<https://www.iec.ch/tc61/supportingdocuments>

This information is given for the convenience of users of this International Standard and does not constitute a replacement for the normative text in this standard.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules can differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal publications, basic safety publications and group safety publications covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

NOTE 3 Standards dealing with non-safety aspects of household appliances are:

- IEC standards published by TC 59 concerning methods of measuring performance;
- CISPR 11, CISPR 14-1 and relevant IEC 61000-3 series standards concerning electromagnetic emissions;
- CISPR 14-2 concerning electromagnetic immunity;
- IEC standards published by TC 111 concerning environmental matters.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-75: Particular requirements for commercial dispensing appliances and vending machines

1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electric commercial **dispensing appliances** and **vending machines** for preparation or delivery of food, drinks and consumer products, their **rated voltage** being not more than 250 V for single-phase appliances and 480 V for other appliances including direct current (DC) supplied appliances and **battery-operated appliances**.

Examples of appliances that are within the scope of this standard are:

- bulk tea or coffee brewing machines;
- cigarette **vending machines**;
- coffee grinders for use in areas open to the public;
- commercial liquid heaters;
- coffee makers with or without integrated coffee grinder;
- coffee makers with cooling systems;
- hot and cold beverage **vending machines**;
- hot water **dispensers**;
- ice cream and whipped cream **dispensers**;
- ice **dispensers**;
- newspaper, audio or video tape or disc **vending machines**;
- packaged food and drink **vending machines**;
- refrigerated merchandisers;
- appliances incorporating **electrode-type liquid heaters**.

Appliances can have more than one function.

Other standards can be applicable for some functions such as:

- refrigeration (IEC 60335-2-89);
- heating by microwaves (IEC 60335-2-90);
- professional ice cream makers (IEC 60335-2-118).

This standard also deals with the hygiene aspects of appliances.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by users and **maintenance persons**. However, in general, it does not take into account young children playing with the appliance.

Attention is drawn to the fact that:

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements can be necessary;
- in many countries, additional requirements for appliances incorporating pressure vessels are specified;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

This standard does not apply to:

- appliances intended to be used exclusively for household purposes;
- appliances intended to be used exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- commercial coffee grinders for use in areas not open to the public (IEC 60335-2-64);
- commercial electric boiling pans (IEC 60335-2-47);
- commercial electric bains-marie (IEC 60335-2-50);
- amusement machines and personal service machines (IEC 60335-2-82);
- commercial refrigerating appliances (IEC 60335-2-89);
- appliances solely used for dispensing money;
- display cabinets;
- requirements for dispensed **potentially hazardous food** (these are covered by national health regulations in many countries).

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

IEC 60287-1-1:2023, *Electric cables – Calculation of the current rating – Part 1-1: Current rating equations (100 % load factor) and calculation of losses – General*

IEC 60320-1:2021, *Appliance couplers for household and similar general purposes – Part 1: General requirements*

IEC 60335-2-34:2021, *Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors*

IEC 60584-1, *Thermocouples – Part 1: EMF specifications and tolerances*

IEC 61558-2-4, *Safety of transformers, reactors, power supply units and combinations thereof – Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers for general applications*

ISO 1817:2022, *Rubber, vulcanized or thermoplastic – Determination of the effect of liquids*

3 Terms and definitions

This clause of Part 1 is applicable except as follows.

3.1 Definitions relating to physical characteristics

3.1.9 *Modification:* **normal operation**

Replace the first paragraph with the following:

operation of the appliance under the following conditions:

The appliance is operated in the **ready mode** until steady conditions are established and then under the most unfavourable dispensing procedure. The appliance is refilled when necessary in accordance with the instructions for use, or the **instructions for maintenance**, and the next operating period is immediately started.

Lids and covers of **appliances of the professional type** and of **appliances of the supervised type** are placed in their intended positions.

Coffee makers are operated with their container filled with the **rated capacity** of water, or connected to the water mains, if applicable. Coffee makers with a heated surface intended to keep the liquid warm are operated with or without the container, whichever is the more unfavourable.

For appliances incorporating **electrode-type liquid heaters**, each **electrode-type liquid heater** is supplied from a container filled with water having a conductivity in the conductivity range assigned to the heater by the manufacturer. Unless otherwise specified, the supply containers are filled with water having a conductivity equal to the upper limit of the assigned conductivity range at a temperature of $15\text{ °C} \pm 5\text{ °C}$.

Note 1 to entry: The appropriate conductivity can be obtained by adding sodium chloride to the water.

3.1.101

rated pressure

pressure assigned to the pressurized parts of the appliance by the manufacturer

3.5 Definitions relating to types of appliances

3.5.101

dispensing appliance

appliance intended to deliver or make available food, drinks or other consumer products

Note 1 to entry: The appliance can also prepare the products.

Note 2 to entry: The dispensing operation can be initiated manually or by means such as coins or credit cards.

3.5.102

vending machine

dispensing appliance that is operated by coins, credit cards or other means of payment

3.5.103

appliance of the professional type

dispensing appliance that is only intended to be used by trained personnel such as kitchen or bar staff

3.5.104**appliance of the supervised type**

dispensing appliance that is intended to be maintained by trained personnel but can be used by other persons in a location where its use is overseen

Note 1 to entry: Dining rooms in restaurants are examples of such locations.

3.5.105**espresso coffee maker**

coffee maker in which water is heated and forced through the ground coffee by steam pressure or by means of a pump

Note 1 to entry: **Espresso coffee makers** can have an outlet for supplying steam or hot water.

3.6 Definitions relating to parts of an appliance**3.6.2 Replacement:****detachable part**

part that can be removed without the aid of a **tool**, a part that is removed in accordance with the instructions for use or the **instructions for maintenance**, even if a **tool** or **access key** is necessary for removal, or a part that does not fulfil the test of 22.11

Note 1 to entry: If a part has to be removed for installation purposes, this part is not considered to be detachable even if the instructions state that it is to be removed.

Note 2 to entry: A part that can be opened is considered to be a part that can be removed.

3.6.101**electrode-type liquid heater**

liquid heater in which a conductive liquid is heated by a current flowing through it

3.6.102**functional surface**

surface that is intentionally heated by an internal heat source and has to be hot to carry out the function for which the appliance is intended

Note 1 to entry: An example is the heated sheath of a tubular heating element or the warming plate of a coffee machine.

3.7 Definitions relating to safety components**3.7.3 Replacement:****thermal cut-out**

device that during abnormal operation limits the temperature of the controlled part by automatically opening the circuit, or reducing the current, and is constructed so that its setting cannot be altered by the user or the **maintenance person**

3.7.101**access key**

key or other means that gives access to the **maintenance area** but does not give access to the **service area**

Note 1 to entry: "Other means" includes a **tool** or operation by codes or signals produced by optical or electro-magnetic sources.

3.7.102**override key**

key or other means that is used to render an interlock inoperative

3.7.103**isolating transformer**

transformer, the input winding of which is electrically separated from the output winding by an insulation of at least equivalent to **double insulation** or **reinforced insulation**, that is intended to supply an appliance or circuit at a voltage higher than **safety extra-low voltage**

3.8 Definitions relating to miscellaneous matters**3.8.101****ready mode**

state of the appliance when filled as intended with ingredients or products, energized and ready for use, cash boxes and overflow containers being empty

3.8.102**instructions for maintenance**

instructions explaining how to carry out **maintenance operations** in the **maintenance area**

3.8.103**maintenance person**

person who maintains the appliance in accordance with the **instructions for maintenance**

3.8.104**user area**

area where access is gained without the use of an **access key** or a **tool**

Note 1 to entry: The **user area** of **appliances of the supervised type** is determined with **detachable parts** and other movable parts, such as doors and lids, in position as in normal use.

Note 2 to entry: **Appliances of the professional type** have no **user area**.

3.8.105**maintenance area**

area where access can only be gained by the use of an **access key**

3.8.106**service area**

area where access cannot be gained by the use of an **access key** alone

3.8.107**potentially hazardous food**

food which includes natural or synthetic ingredients that are capable of supporting rapid and progressive growth of pathogenic or toxin producing micro-organisms

Note 1 to entry: Examples of **potentially hazardous food** are milk, eggs, meat, poultry, shellfish, crustaceans, and their products, either raw or heat treated, as well as food of plant origin that is ready for consumption without the need for any further preparation or processing.

Note 2 to entry: Food can become **potentially hazardous food** during processing, for example when powdered ingredients are mixed with water or when food is stored at incorrect temperature.

Note 3 to entry: **Potentially hazardous food** does not include:

- candy, nuts, gum and similar confectionery;
- cookies, crackers and similar bakery products;
- instant-coffee, chocolate, cocoa and sugar;
- food having a pH level of not greater than 4,6 or a water activity (A_w) value not greater than 0,85 at 25 °C;
- food maintained at a temperature not exceeding 5 °C for periods specified by the producer, but for not more than 5 days;
- food maintained at a temperature above 65 °C or below –18 °C;
- food in hermetically sealed containers;
- food that has been processed to prevent spoilage.