

MÜÜGIAUTOMAATIDE ENERGIATARBIMINE

Energy consumption of vending machines (IEC 63252:2020)

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-EN IEC 63252:2020 +A11:2024 sisaldab Euroopa standardi EN IEC 63252:2020 ja selle muudatuse A11:2024 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 63252:2020+A11:2024 consists of the English text of the European standard EN IEC 63252:2020 and its amendment A11:2024.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 04.09.2020, muudatus A11 23.08.2024.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 04.09.2020, for A11 23.08.2024.
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EN IEC 63252 + A11

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2020, August 2024

ICS 27.015; 97.130.20

Supersedes EN 50597:2018 and all of its amendments
and corrigenda (if any)

English Version

**Energy consumption of vending machines
(IEC 63252:2020)**

Consommation d'énergie des distributeurs automatiques
(IEC 63252:2020)

Energieverbrauch von Verkaufsautomaten
(IEC 63252:2020)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

European foreword

The text of document 59/730/FDIS, future edition 1 of IEC 63252, prepared by IEC/TC 59 "Performance of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63252:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-05-17
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-08-17

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 62552 (series)	NOTE	Harmonized as EN 62552 (series)
ISO 23953-1	NOTE	Harmonized as EN ISO 23953-1
ISO 23953-2	NOTE	Harmonized as EN ISO 23953-2

A11 Amendment A11 European foreword

This document (EN IEC 63252:2020/A11:2024) has been 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 implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-02-23
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2027-08-23

This document amends EN IEC 63252:2020.

It includes the following significant changes:

- Introduction of a definition of refrigerated vending machine;
- Refinement of the set up of category 4 and 6 machines for testing (5.1);
- Clarification of the placing of M-cans (5.4);
- Clarification of the product loading procedure and introduction of the option for using cans other than 330 ml (5.5);
- Clarification of product storage temperatures (5.6);
- Clarification of the practical definition of stabilization (5.7);
- Clarification of the testing procedure for machines without an energy saving mode (6.3.2);
- Clarification of energy measurement test procedure (6.3.3);
- Modification of the definition of volume (6.4);
- Introduction of an equation for the calculation of energy consumption for machines without energy saving mode (Clause 7);
- Modification of the calculation of energy consumption to provide consumption per day rather than per year (Clause 7);
- Clarification of the definition of category 6 machines;
- Editorial improvement regarding consistent use of terms;
- Introduction of dated normative references;
- and updated Annexes ZZA and ZZB.

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This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annexes ZZA and ZZB, which are an integral part of this document.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website. **A11**

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Energy consumption of vending machines

Consommation d'énergie des distributeurs automatiques



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Energy consumption of vending machines

Consommation d'énergie des distributeurs automatiques

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ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
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Table ZZB.1 — Correspondence between this European Standard and Commission Regulation (EU) No 2019/2024 of 1 October 2019 pursuant to Directive 2009/125/EC of the European Parliament and of the Council and Commission’s standardization request ‘M/582/ ‘C (2022) 2764 final’29

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ENERGY CONSUMPTION OF VENDING MACHINES

FOREWORD

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International Standard IEC 63252 has been prepared by IEC technical committee 59: Performance of household and similar electrical appliances.

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

FDIS	Report on voting
59/730/FDIS	59/736/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

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ENERGY CONSUMPTION OF VENDING MACHINES

1 Scope

This document defines methods for the measurement of energy consumption of vending machines, whether or not fitted with refrigerating appliances.

The standard applies (but is not limited) to the categories of machines shown in Table 1.

Table 1 – Vending machine categories

Category	Machine type
1	Refrigerated closed-fronted can and bottle machines where the products are held in stacks
2	Refrigerated glass-fronted can and bottle, confectionery and snack machines
3	Refrigerated glass-fronted machines entirely for perishable foodstuffs
4	Refrigerated dual-temperature glass-fronted machines
5	Confectionery and snack machines that are not refrigerated
6	Combination machines consisting of two machines in the same housing and powered by one chiller

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The following types of vending machine are excluded from this document:

- drink machines dispensing hot and/or cold drinks into cups;
- machines with a food-heating function;
- vending machines operating at temperatures below 0 °C; or
- any machine including one or more of these compartments.

For verification purposes, it is essential to apply all of the tests specified to a single unit. The tests can also be made individually for the study of a particular characteristic.

This document does not deal with any characteristics of machine design other than energy consumption.

2 Normative references

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.

IEC 60335-1, *Household and similar electrical appliances – Safety – Part 1: General requirements*

IEC 60335-2-75, *Household and similar electrical appliances – Safety – Part 2-75: Particular requirements for commercial dispensing appliances and vending machines*

ISO 5149-2, *Refrigerating systems and heat pumps – Safety and environmental requirements – Part 2: Design, construction, testing, marking and documentation*

ISO 5149-3, *Refrigerating systems and heat pumps – Safety and environmental requirements – Part 3: Installation site*

EN 50564, *Electrical and electronic household and office equipment – Measurement of low power consumption*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 Terms relating specifically to the vending process

3.1.1 cabinet

enclosure within a vending machine in which the product is held ready to be sold

3.1.2 automatic energy-saving mode

mode of a vending machine in which energy-reducing measures are automatically applied as a result of operational controls fitted by the manufacturer

Note 1 to entry: These could include light or movement sensors.

Note 2 to entry: Timers or other controls that can be adjusted by the company operating the machine do not qualify as automatic, unless they have a permanent minimum configuration level that cannot be overridden by the company, in which case they may be operational at their minimum configuration for the automatic energy-saving mode test.

3.1.3 health control cut-out function

function fitted in machines intended entirely for the storage and vending of perishable foodstuffs, or with a compartment for the storage and vending of such foodstuffs, that prevents vending of foodstuff if the machine or compartment experiences a time/temperature condition outside that permitted under food safety regulations

3.1.4 loading filling

process of putting products into the vending machine

Note 1 to entry: This can require the door of the machine to be open.

3.1.5 manufacturer's instructions

instructions that accompany the machine, including advice on installation of the machine at the final operating location

3.1.6 perishable foodstuffs

foods, such as dairy products, sandwiches and plated meals that are required to be kept chilled under food safety regulations