



CSA C22.2 No. 128:16
National Standard of Canada
(reaffirmed 2020)



Vending machines



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Contents

Technical Committee on Consumer and Commercial Products	4
Subcommittee on Safety of Household Electrical Appliances	6
Preface	9
1 Scope	11
2 Reference publications	11
3 Definitions	15
4 General requirements	16
5 Construction	16
5.1 General	16
5.2 Mechanical strength	17
5.2.1 Enclosures	17
5.2.2 Cabinet	17
5.2.3 Enclosure impact test	17
5.2.4 Glass assemblies	17
5.3 Protection from fire hazard	18
5.3.1 Polymeric material	18
5.3.2 Electrical components	18
5.3.3 Separation from combustible material	19
5.4 Protection from shock hazard	19
5.5 Protection from mechanical hazards	20
5.6 Outdoor use	21
5.7 Mechanical assembly	23
5.8 Stability	24
5.9 Supply connections	25
5.9.1 General	25
5.9.2 Cord-connected vending machines	25
5.9.3 Permanently-connected vending machines	26
5.9.4 Strain relief	27
5.10 Bushings	27
5.11 Current-carrying parts	28
5.12 Internal wiring	28
5.12.1 General	28
5.12.2 Types of wiring	29
5.12.3 Conductor size	30
5.13 Electrical insulation	30
5.14 Motors	31
5.14.1 General	31
5.14.2 Motor overload and overheating protection	31
5.14.3 Motor overcurrent and thermal protection	32
5.15 Capacitors	32

5.16	Electric lighting equipment	33
5.16.1	Incandescent and electric discharge lighting equipment	33
5.16.2	LED lighting equipment	33
5.16.3	Incandescent lighting circuits	33
5.16.4	Electric-discharge lighting circuits	33
5.16.5	Ballasts	34
5.17	Germicidal (ultraviolet) lamps	35
5.18	Protection	35
5.18.1	Water heaters	35
5.18.2	Heaters	35
5.19	Special-use connectors	36
5.20	Switches and controls	36
5.21	Transformers and power supplies	36
5.22	Electrically operated valves and solenoids	37
5.23	Spacings	37
5.24	Separation of circuits	39
5.25	Grounding and bonding	39
5.26	Safety of refrigerating systems	39
5.27	Determination of working pressures	40
5.27.1	Normal	40
5.27.2	Abnormal	40
5.27.3	Marking	40
5.28	Protection against excessive pressure	41
5.29	Pressure-limiting devices	42
5.30	Information technology equipment	43

6 Marking 43

7 Tests 45

7.1	General	45
7.2	Rated conditions	45
7.3	Rating	46
7.4	Temperature (normal operation)	46
7.4.1	General	46
7.4.2	Temperature (refrigerated units)	47
7.4.3	Temperature (vending)	48
7.4.4	Temperature (sold-out)	48
7.4.5	Temperature (credit mechanisms)	48
7.5	Temperature (ballasts and wiring)	49
7.6	Dielectric strength	49
7.7	Leakage current	49
7.8	Temperature (abnormal operation)	50
7.8.1	General	50
7.8.2	Overload Condition	50
7.8.3	Condenser fan failure	51
7.8.4	Condenser water failure	51
7.8.5	Manual-reset pressure control	51
7.8.6	Test criteria	51
7.8.7	Test compliance	51

7.8.8	Burnout test other components	51
7.8.9	Emission of flame or molten material	52
7.9	Limited short-circuit	52
7.10	Control equipment	52
7.10.1	Overload	52
7.10.2	Endurance	53
7.11	Starting	53
7.12	Insulation resistance	54
7.13	Rain	54
7.14	Strain relief	54
7.15	Accelerated aging tests	55
7.15.1	Gaskets	55
7.15.2	Polymeric materials	55
7.16	Cabinet strength	56
7.16.1	General	56
7.16.2	Compliance criteria	56
7.16.3	Compliance criteria — Wall mount equipment	56
7.16.4	Static load	56
7.16.5	Deflection	56
7.17	Impact test	57
7.17.1	Impact test — Enclosures	57
7.17.2	Impact test — Glass assemblies	57
7.18	Overflow	58
7.19	Spill test	58
7.20	Moisture-absorption resistance	58
7.21	Printed circuit boards — Abnormal	59
7.22	Printed circuit-board coatings	60
7.22.1	General	60
7.22.2	Dielectric strength test on new samples	60
7.22.3	Dielectric strength test after aging	60
7.22.4	Dielectric strength test after humidity conditioning	60
7.22.5	Adhesion	60
7.23	Stability	60
7.24	Flexing	61
<hr/>		
Annex A (informative)	— Production pressure tests	72
Annex B (informative)	— Marking translations	73
Annex C (informative)	— Minimum design pressures	74
Annex D (informative)	— Refrigerant flammability parameters	77
Annex E (normative)	— Requirements for a refrigerated vending machine employing a flammable refrigerant in the refrigerating system	78
Annex F (informative)	— Determination of minimum circuit ampacity	89

Preface

This is the fourth edition of CSA C22.2 No. 128, *Vending machines*. It is one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*. It supersedes previous editions published in 1995, 1990, and 1963.

For general information on the Standards of the Canadian Electrical Code, Part II, see the preface of CAN/CSA-C22.2 No. 0, *General Requirements — Canadian Electrical Code, Part II*.

The major differences between this edition and the previous edition include

- a) the addition of new requirements to prevent fire/shock and mechanical hazards;
- b) new requirements for permanently-connected vending machines;
- c) a new requirement for wiring to external accessories;
- d) a new requirement for electronic protected motors;
- e) new requirements for water heaters;
- f) new requirements for transformers and power supplies;
- g) new requirements for protection against excessive pressure and pressure limiting devices;
- h) the addition of accelerated aging test requirements for gaskets and polymeric materials; and
- i) the addition of and revision to impact test requirements, as well as the addition of a spill test.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Subcommittee on Safety of Household Electrical Appliances, under the jurisdiction of the Technical Committee on Consumer and Commercial Products and the Strategic Steering Committee on Requirements for Electrical Safety.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Interpretations: The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA’s procedures for interpretation shall be followed to determine the intended safety principle.”

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:*
 - a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*
 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.

- 5) *This Standard is subject to review within five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line:*
- a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change;*
 - d) *rationale for the change.*

CSA C22.2 No. 128:16

Vending machines

1 Scope

1.1

This Standard applies to self-contained vending machines designed to be installed and used in commercial applications in nonhazardous locations in accordance with the Rules of the *Canadian Electrical Code, Part I*.

1.2

This Standard applies to both refrigerated and non-refrigerated vending machines rated 250 V or less, single-phase.

1.3

This Standard applies to vending machines designed for indoor or outdoor use.

1.4

This Standard also applies to self-contained coin, currency, or credit mechanisms, rated at not more than 250 V, single-phase, intended to be factory- or field-installed in vending machines.

1.5

The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

1.6

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.