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Group**

**C22.2 No. 164-18**

# **Electric sauna heating equipment**

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***Electric sauna heating equipment***



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# Preface

This is the second edition of CSA C22.2 No. 164, *Electric sauna heating equipment*, issued by CSA Group under the *Canadian Electrical Code, Part II*. It supersedes the previous edition published in 1991.

The major differences between this edition and the previous edition include

- a) updates to the markings and installation instructions;
- b) updates to the sharp test apparatus;
- c) updates to the current-carrying parts;
- d) updates to the reference publications; and
- e) reformatting to the latest editorial guidelines.

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*.

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 Sauna and Sauna Heaters, under the jurisdiction of the Technical Committee on Consumer and Commercial Products and the Strategic Steering Committee on Requirements for Electrical Safety.

**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 CSA committee interpretation has not already been published, CSA Group’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](mailto: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](http://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](mailto: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; and*

d) *rationale for the change.*

# C22.2 No. 164-18

## ***Electric sauna heating equipment***

### **1 Scope**

#### **1.1**

This Standard applies to permanently-connected electric sauna (dry bath) heating equipment rated 300 V or less, designed to be installed and used in non-hazardous locations in accordance with the Rules of the *Canadian Electrical Code, Part I*.

#### **1.2**

This Standard applies to the following electric sauna heating equipment:

- a) a sauna heater unit intended for fixed installation in a special room that is built or assembled in the field to conform to the manufacturer's size specifications; and
- b) the combination of a sauna heater or heater unit and a prefabricated, factory-built room or cabinet in which the assembled combination can be specified for field installation, or that can be supplied with a power supply cord and intended to be fastened in place or located in a dedicated space. The room may be arranged so that it can be taken apart for shipment.

#### **1.3**

Clauses 4 to 7 apply to the heater unit described in Clause 1.2 a). Clause 8 applies to the combination of a sauna heater or heater unit and the room or cabinet as described in Clause 1.2 b).

#### **1.4**

The requirements in Clauses 4 to 7 do not apply to steam bath equipment.

#### **1.5**

Throughout these requirements, the term "heater" is used broadly to refer to any sauna heater or heater unit, including its associated control assembly.

#### **1.6**

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.

#### **1.7**

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.

### CSA Group

C22.1-15

*Canadian Electrical Code, Part I*

CAN/CSA-C22.2 No. 0-10 (R2015)

*General Requirements – Canadian Electrical Code, Part II*

C22.2 No. 0.4-17

*Bonding of electrical equipment*

C22.2 No. 0.15-15

*Adhesive labels*

C22.2 No. 8-13,

*Electromagnetic interference (EMI) filters*

C22.2 No. 14-13

*Industrial control equipment*

C22.2 No. 21-14

*Cord sets and power supply cords*

C22.2 No. 24-15

*Temperature-indicating and -regulating equipment*

C22.2 No. 46-13

*Electric air heaters*

C22.2 No. 55-15

*Special use switches*

C22.2 No. 72-10 (R2014)

*Heater elements*

C22.2 No. 77-14

*Motors with inherent overheating protection*

C22.2 No. 100-14

*Motors and generators*

C22.2 No. 111-10 (R2015)

*General use snap switches*