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C22.2 No. 113-12

Fans and ventilators

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Preface

This is the ninth edition of CSA C22.2 No. 113, *Fans and ventilators*, one of a series of Standards issued under Part II of the *Canadian Electrical Code*. It supersedes the previous editions, published in 2010, 2008, 1984, 1982, 1981, 1976, 1974, and 1959.

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

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 Fans and Ventilators, under the jurisdiction of the Technical Committee on Consumer and Commercial Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

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”.

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C22.2 No. 113-12

Fans and ventilators

1 Scope

1.1

This Standard applies to fans and ventilation equipment that is

- (a) cord-connected, rated at not more than 250 V;
- (b) permanently-connected to supply circuits of 600 V and less, single-phase or three-phase;
- (c) used in non-hazardous locations;
- (d) used in household, commercial, agricultural, or industrial locations;
- (e) used indoors or outdoors; and
- (f) used in accordance with the Rules of the *Canadian Electrical Code, Part I*.

1.2

This Standard applies to roof and wall-mounted power ventilators, exhaust and filter units consisting of an air-circulating fan and a mechanical filter, fans for use in unattended areas, clothes dryer booster fans for use in the exhaust duct of household clothes dryers, blowers intended for household, commercial or industrial use, and air curtains without any heating.

1.3

This Standard applies to air-circulating-type fans and ventilators, such as desk, pedestal, hassock, utility, suitcase, and ceiling fans.

1.4

This Standard applies to fans such as wall insert, ceiling insert, attic, duct, bathtub and shower stall, household range hoods or canopies, household down-draft fans, and window fans. It also applies to fan-type air-to-air heat exchangers, component fans including extra-low voltage component fans, and to commercial fans and blowers used for carpet cleaning or flood restoration and remediation.

1.5

This Standard does not apply to the following:

- (a) air conditioning equipment;
- (b) electric air heaters;
- (c) fan coil units;
- (d) humidifiers;
- (e) evaporative coolers;
- (f) electrostatic or ionizer air cleaners;
- (g) blowers of particulate matter;
- (h) air-to-air heat exchangers with gas or oil-fired heating means;
- (i) air curtains with heaters;
- (j) fans and ventilators intended to exhaust flammable vapours; and
- (k) fans and ventilators intended to be used with vehicle exhaust systems.

1.6

Throughout this Standard, the term “fan” also includes ventilators.