



Electrical/Electronics

New Standards & Editions

C22.2 No. 104-01, 3rd edition
Humidifiers (Bi-national, with UL 998) \$130

This standard covers humidifiers rated 600 V or less, and intended to be used in accordance with the *National Electrical Code*, ANSI/NFPA 70, and the rules of the *Canadian Electrical Code, Part I, C22.1*.

This standard covers humidifiers intended for residential and commercial use. This includes humidifiers of the centrifugal atomizing type, evaporative-media type, water-injection type, steam type, and similar types. The humidifiers may be for installation in a room, mounted on a wall or a ceiling, or for duct or plenum mounting.

The requirements apply to equipment that includes an electric heating element to heat air or water, or both.

The requirements do not apply to:

- evaporative coolers that are also intended to be used for cooling
- portable, electrode-type products, such as vaporizers, which are covered by CSA standard CAN/CSA-C22.2 No. 64, *Household Cooking and Liquid-Heating Appliances*, and UL 499, *Electric Heating Appliances*.

CAN/CSA E60335-2 standards

The following 10 standards are part of CSA's CAN/CSA-E60335 Part 2 series. These 10 particular standards cover kitchen appliances used, for example, in restaurants, canteens, and hospitals, and in commercial enterprises such as bakeries.

The electrical parts of appliances making use of other forms of energy are also within the scope of these standards.

So far as is practicable, these standards deal with the common hazards presented by these types of appliances.

These standards do not apply to continuous process appliances for the mass production of food.

CAN/CSA-E60335-2-36-01, 2nd edition
Safety of Household and Similar Electrical Appliances—Part 2-36: Particular Requirements for Commercial Electric Cooking Ranges, Ovens, Hobs and Hob Elements (Adopted IEC 60335-2-36:2000, fourth edition, with Canadian deviations) \$55

This standard deals with the safety of electrically operated commercial cooking ranges, ovens, hobs, hob elements and similar appliances not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

CAN/CSA-E60335-2-37-01, 2nd edition
Safety of Household and Similar Electrical Appliances—Part 2-37: Particular Requirements for Commercial Electric Deep Fat Fryers (Adopted IEC 60335-2-37:2000, fourth edition, 2000-02, with Canadian deviations) \$40

This standard deals with the safety of electrically operated commercial deep fat fryers, including pressurized types not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

CAN/CSA-E60335-2-38-01, 2nd edition
Safety of Household and Similar Electrical Appliances—Part 2-38: Particular Requirements for Commercial Electric Griddles and Griddle Grills (Adopted IEC 60335-2-38:2000, fourth edition, 2000-02, with Canadian deviations) \$40

This standard deals with the safety of electrically operated commercial griddles and griddle grills not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

CAN/CSA-E60335-2-39-01, 2nd edition
Safety of Household and Similar Electrical Appliances—Part 2-39: Particular Requirements for Commercial Electric Multi-purpose Cooking Pans (Adopted IEC 60335-2-39:2000, fourth edition, 2000-02, with Canadian deviations) \$35

This standard deals with the safety of electrically operated commercial multi-purpose cooking pans not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.



CAN/CSA-E60335-2-42-01, 2nd edition
*Safety of Household and Similar Electrical Appliances—
 Part 2-42: Particular Requirements for Commercial
 Electric Forced Convection Ovens, Steam Cookers
 and Steam-Convection Ovens* (Adopted IEC
 60335-2-42:2000, fourth edition, 2000-03,
 with Canadian deviations) \$40

This standard deals with the safety of electrically operated commercial forced convection ovens, steam cookers, steam-convection ovens and, exclusive of any other use, steam generators, not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

CAN/CSA-E60335-2-47-01, 2nd edition
*Safety of Household and Similar Electrical Appliances—
 Part 2-47: Particular Requirements for Commercial
 Electric Boiling Pans* (Adopted IEC 60335-2-47:2000,
 third edition, 2000-03, with Canadian deviations) \$40

This standard deals with the safety of electrically operated boiling pans not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

CAN/CSA-E60335-2-48-01, 2nd edition
*Safety of Household and Similar Electrical Appliances—
 Part 2-48: Particular Requirements for Commercial
 Electric Grillers and Toasters* (Adopted IEC
 60335-2-48:2000, third edition, 2000-03, with
 Canadian deviations) \$35

This standard deals with the safety of electrically operated commercial grillers and toasters not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

Rotary or continuous grillers and toasters and similar appliances intended for grilling by radiant heat, such as rotisseries, salamanders, etc., are within the scope of this standard.

CAN/CSA-E60335-2-49-01, 2nd edition
*Safety of Household and Similar Electrical Appliances—
 Part 2-49: Particular Requirements for Commercial
 Electric Hot Cupboards* (Adopted IEC
 60335-2-49:2000, third edition, 2000-03,
 with Canadian deviations) \$35

This standard deals with the safety of electrically operated commercial hot cupboards, not intended for household use, their rated voltage being not more than

250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

Hot cupboards with heated tops, heated display cases, heated crockery dispensers, and heated shelves and tables are also within the scope of this standard.

CAN/CSA-E60335-2-50-01, 2nd edition
*Safety of Household and Similar Electrical Appliances—
 Part 2-50: Particular Requirements for Commercial
 Electric Bains-marie* (Adopted IEC 60335-2-50:2000,
 third edition, 2000-03, with Canadian deviations) \$35

This standard deals with the safety of electrically operated bains-marie not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

CAN/CSA-E60335-2-64-01, 2nd edition
*Safety of Household and Similar Electrical Appliances—
 Part 2: Particular Requirements for Commercial
 Electric Kitchen Machines* (Adopted CEI/IEC
 60335-2-64:1997, second edition, 1997-02,
 including Amendment 1:2000, with Canadian
 deviations) \$75

This standard deals with the safety of electrically operated commercial kitchen machines not intended for household use, their rated voltage being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

Examples of kitchen machines are:

- mixers
- liquid or food blenders
- kneaders
- beaters
- shredders
- graters
- mincers
- slicers
- peelers
- tin openers
- coffee grinders
- machines used for washing food
- portioning machines
- pastry rollers
- noodle strip cutters
- food processors.

This standard also applies to appliances that, in order to facilitate transport, are supplied in several parts (subassemblies); when assembled at the place of installation, these parts form a constructional unit without the use of any additional parts.



Nouvelles parutions en français

CAN/CSA-E60335-2-64-01, 2^e édition
*Sécurité des appareils électrodomestiques et analogues—
Partie 2 : Règles particulières pour les machines de
cuisine électriques à usage collectif* (Norme CEI/IEC
60335-2-64:1997 adoptée, deuxième édition,
1997-02, y compris l'amendement 1:2000, avec
les exigences propres au Canada) 75 \$

La présente norme traite de la sécurité des machines de cuisine électriques à usages collectif, qui ne sont pas destinées aux usages domestiques, la tension assignée des appareils n'étant pas supérieure à 250 V pour les appareils monophasés alimentés entre phase et neutre, et 480 V pour les autres appareils.

Comme exemples de machines de cuisine on peut citer : les batteurs ; les mélangeurs de liquides ou d'aliments ; les pétrins ; les fouets ; les coupe-légumes ; les râpes ; les hachoirs ; les trancheurs ; les épilucheuses ; les ouvre-boîtes ; les moulins à café ; les machines pour laver les denrées alimentaires ; les portionneuses ; les laminoirs à pâte ; les extrudeuses-coupeuses de pâtes ; les préparateurs d'aliments.

Ces appareils sont utilisés, par exemple, dans des cuisines telles que celles des restaurants, des cantines, des hôpitaux et des entreprises, commerciales telles que les boulangeries, les boucheries, etc.

Cette norme s'applique également aux appareils qui, afin d'en faciliter le transport, sont livrés en plusieurs parties (sous-ensembles) qui, une fois assemblées sur leur lieu d'installation, forment une unité de construction pouvant s'utiliser sans autres parties additionnelles.

La présente norme s'applique également à la partie électrique des appareils faisant appel à d'autres formes d'énergie.

Dans la mesure du possible, la présente norme traite des risques ordinaires présentés par ces types d'appareils.

La présente norme ne s'applique pas :

- aux appareils construits exclusivement pour des usages industriels ;
- aux appareils à fonctionnement continu pour la préparation en masse d'aliments.

Amendments

CAN/CSA-C22.2 No. 0.17-00
Evaluation of Properties of Polymeric Materials
Revision of the inside and outside front covers, and the title page.

CAN/CSA-C22.2 No. 227.1-97/UL 1653
Electrical Nonmetallic Tubing
Revision of the inside and outside front covers, and the title page.

Modifications publiées en français

CAN/CSA-C22.2 n° 0.17-00
Évaluation des propriétés des matières polymères
Des modifications ont été apportées à la première de couverture, à la deuxième de couverture ainsi qu'à la page titre.

CAN/CSA-C22.2 n° 227.1-97/UL 1653
Tubes électriques non métalliques
Des modifications ont été apportées à la première de couverture, à la deuxième de couverture ainsi qu'à la page titre.

Proposed New Projects

For more information about the proposed development of the following new project, contact Michael Henville at 416-747-2227 or michael.henville@csa.ca:

- **C22.2 No. 236, 3rd edition**
Heating and Cooling Equipment

For more information about the proposed development of the following new projects, contact John O'Neill at 416-747-4042 or john.oneill@csa.ca:

- **C199, 3rd edition**
Three-Phase Network Distribution Transformers
- **C301.1, 2nd edition**
Single-Phase Submersible Distribution Transformers
- **C301.2, 2nd edition**
Three-Phase Submersible Distribution Transformers



Drafts

Please note: Public comments about the draft standards and proposed amendments listed in this issue are due by February 19, 2002.

To receive copies of the following draft standards or proposed amendments, or to offer comments, contact Annie Pereira at 416-747-4094 or annie.pereira@csa.ca:

- **C2, 9th edition**
Single-Phase and Three-Phase Liquid-Filled Distribution Transformers
- **C2.2, 1st edition**
Pole-Mounted Single-Phase Distribution Transformers for Electric Utilities
- **C9, 4th edition**
Dry-Type Transformers
- **C22.2 No. 18.1, 1st edition**
Metal Outlet Boxes
- **C22.2 No. 126.1, 2nd edition**
Metal Cable Tray Systems
- **C22.2 No. 130, 1st edition**
Requirements for Electrical Resistance Heating Cables, and Heating Device Sets
- **C22.2 No. 227.1-97, Proposed amendments**
Electrical Nonmetallic Tubing
Proposed amendment to Clause 7.5.1.1.
- **C227.3, 4th edition**
Low Profile, Single-Phase, Pad-Mounted Distribution Transformers with Separable Insulated High-Voltage Connectors
- **C227.4, 2nd edition**
Three-Phase, Pad-Mounted Distribution Transformers with Separable Insulated High-Voltage Connectors
- **CAN/CSA-E598-2-1-98**
Proposed amendments to Canadian deviations
Luminaires—Part 2: Particular Requirements—Section 1: Fixed General Purpose Luminaires.
Amendment to Clause 1.1
- **CAN/CSA-E598-2-3-98**
Proposed amendments to Canadian deviations
Luminaires—Part 2: Particular Requirements—Section 3: Luminaires for Road and Street Lighting.
Amendment to Clause 3.1

Drafts (cont'd)

- **CAN/CSA-E598-2-6-98**
Proposed amendments to Canadian deviations
Luminaires—Part 2: Particular Requirements—Section 6: Luminaires with Built-in Transformers for Filament Lamps. Amendment to Clause 6.1
- **CAN/CSA-E598-2-17-98**
Proposed amendments to Canadian deviations
Luminaires—Part 2: Particular Requirements—Luminaires for Stage Lighting, Television and Film Studios (Outdoor and Indoor). Amendment to Clause 17.1
- **CAN/CSA-E598-2-19-98**
Proposed amendments to Canadian deviations
Luminaires—Part 2: Particular Requirements—Air-handling Luminaires (Safety Requirements). Amendment to Clause 19.1

Reaffirmed Standards

- C22.2 No. 9.0-96 (R2001)
General Requirements for Luminaires
- C22.2 No. 13-1962 (R2001)
Transformers for Luminous-Tube Signs, Oil- or Gas-Burner Ignition Equipment, Cold-Cathode Interior Lighting
- CAN/CSA-C22.2 No. 15-M91 (R2001)
Electrically Heated Warming Pads
- C22.2 No. 46-M1988 (R2001)
Electric Air-Heaters
- C22.2 No. 59.1-M1987 (R2001)
Fuses (Both Plug and Cartridge-Enclosed Types)
- C22.2 No. 59.2-M1986 (R2001)
Supplemental Fuses
- C22.2 No. 59.3-M90 (R2001)
DC Rated Fuses
- C22.2 No. 60-M1990 (R2001)
Arc Welding Equipment
- C22.2 No. 66-1988 (R2001)
Specialty Transformers
- C22.2 No. 81-M90 (R2001)
Electric Irons
- CAN/CSA-C22.2 No. 94-M91 (R2001)
Special Purpose Enclosures
- CAN/CSA-C22.2 No. 106-M92 (R2001)
HRC Fuses



Reaffirmed Standards (cont'd)

CAN/CSA-C22.2 No. 144-M91 (R2001)
Ground Fault Circuit Interrupters

CAN/CSA-C22.2 No. 165-92 (R2001)
Electric Boilers

C22.2 No. 178-1978 (R2001)
Automatic Transfer Switches

CAN/CSA-C22.2 No. 218.1-M89 (R2001)
Spas, Hot Tubs and Associated Equipment

C22.2 No. 226-92 (R2001)
Protectors in Telecommunication Networks

CAN/CSA-C22.2 No. 235-M89 (R2001)
Supplementary Protectors

C22.2 No. 239-97 (R2001)
Control and Instrumentation Cables

CAN/CSA-C22.2 No. 1010.2.010A-97 (R2001)
*Amendment 1 to CAN/CSA-C22.2 No. 1010.2.010-94,
"Safety Requirements for Electrical Equipment for
Measurement, Control, and Laboratory Use—Part 2-010:
Particular Requirements for Laboratory Equipment for
the Heating of Materials"*

CAN/CSA-C22.2 No. 1010.2.020A-97 (R2001)
*Amendment 1 to CAN/CSA-C22.2 No. 1010.2.010-94,
"Safety Requirements for Electrical Equipment for
Measurement, Control, and Laboratory Use—Part 2-010:
Particular Requirements for Laboratory Centrifuges"*

CAN/CSA-E257-94 (R2001)
Fuseholders for Miniature Cartridge Fuse-links

CAN/CSA-E335-2-18-94 (R2001)
*Guide for Preparing Safety Requirements for Battery-
Powered Motor-Operated Appliances and Their Charging
and Battery Assemblies*

CAN/CSA-E335-2-19-94 (R2001)
*Battery-Powered Shavers, Hair Clippers and Similar
Appliances and Their Charging and Battery Assemblies*

CAN/CSA-E335-2-20-94 (R2001)
*Battery-Powered Tooth-Brushes and Their Charging and
Battery Assemblies*

CAN/CSA-E342-1-95 (R2001)
*Safety Requirements for Electric Fans and Regulators—
Part 1: Fans and Regulators for Household and Similar
Purposes*

CAN/CSA-E967-94 (R2001)
*Safety of Electrically Heated Blankets, Pads and Similar
Flexible Heating Appliances for Household Use*

Certification Notices

Please note: ► Notices marked with an arrowhead are new in this issue.

Effective Date	Subject	Title
March 1, 2002	Interim certification requirements for flexible light cable systems.	Lighting Products No. 37
June 1, 2002	Publication of CAN/CSA-C22.2 No. 745-1 and -2 (<i>Portable Electric Tools</i>), and CAN/CSA-C22.2 No. 745-3 and -4 (<i>Portable Battery-Operated Tools</i>).	Electrical Tools No. 6