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# UL 710

## STANDARD FOR SAFETY

Exhaust Hoods for Commercial  
Cooking Equipment

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UL Standard for Safety for Exhaust Hoods for Commercial Cooking Equipment, UL 710

Seventh Edition, Dated April 29, 2024

### **Summary of Topics**

***This new Seventh Edition of ANSI/UL 710 dated April 29, 2024 is being issued as a binational joint standard and incorporates changes from proposal dated October 27, 2023.***

The new requirements are substantially in accordance with Proposal(s) on this subject dated October 27, 2023.

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ULC Standards  
CAN/ULC 646:2024  
Fourth Edition



ULSE Inc.  
ANSI/UL 710  
Seventh Edition

## Exhaust Hoods for Commercial Cooking Equipment

April 29, 2024

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ANSI/UL 710-2024



## **Commitment for Amendments**

This Standard is issued jointly by ULSE Inc. (ULSE) and ULC Standards. Amendments to this Standard will be made only after processing according to the Standards writing procedures by ULSE and ULC Standards.

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## Preface

This is the common ULSE and ULC Standard for Exhaust Hoods for Commercial Cooking Equipment. It is the Fourth edition of CAN/ULC 646 and the Seventh edition of UL 710.

This common Standard was prepared by UL Standards & Engagement Inc. (ULSE), ULC Standards, and the Joint UL/ULC Task Group. The efforts and support of the Joint Task Group are gratefully acknowledged.

This Standard was formally approved by the ULC Standards Committee on Kitchen Exhaust Equipment and Systems and ULSE Technical Committee on Grease Filters.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

Annex [A](#), identified as Normative, forms a mandatory part of this Standard.

NOTE: 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.

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## INTRODUCTION

### 1 Scope

1.1 These requirements cover Type I commercial kitchen exhaust hoods intended for placement over commercial cooking equipment. Exhaust hoods with and without exhaust dampers are covered by these requirements.

1.2 Exhaust hoods with and without exhaust fire actuated fire dampers are covered by these requirements.

1.3 Exhaust hoods are evaluated relative to minimum exhaust air flow required and maximum supply air flow allowed for capture and containment of cooking effluents under laboratory conditions.

1.4 Exhaust hoods may incorporate non-continuous welded joints, seams, and penetrations when evaluated by these requirements.

1.5 Exhaust hoods with fire actuated fire exhaust dampers are intended to have the exhaust fire actuated dampers automatically close to prevent exhaust duct gas temperatures from exceeding 191 °C (375 °F).

1.6 These requirements do not cover fire-extinguishing systems.

NOTE: All exhaust hoods are intended for use with fire extinguishing system units.

1.7 These requirements cover exhaust hoods provided with manually or automatically operated cleaning or washing systems. These requirements do not cover the fire extinguishing aspects of such systems.

1.8 These requirements do not cover evaluation of Ultraviolet (UV) systems for use in commercial kitchen exhaust systems. Annex A covers the requirements of these products.

1.9 These requirements do not cover evaluation of Electrostatic Precipitators (ESP's) for use in commercial kitchen ventilation. Electrostatic Precipitators (ESP's) are covered under the Standard for Electrostatic Air Cleaners, UL 867.

1.10 These requirements do not cover evaluation of commercial electric cooking appliances provided with integral recirculating systems (previously referred to as ductless hoods) and nonintegral recirculating systems, both of which are intended for installation in commercial establishments for the preparation of food. The Standard for Recirculating Systems, UL 710B, covers these products.

1.11 Exhaust hoods covered by these requirements are intended for installation in accordance with the following:

- a) The Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, NFPA 96;
- b) The National Electrical Code, NFPA 70, in the United States, and Canadian Electrical Code, Part I, CSA C22.1, in Canada; and/or
- c) Other codes such as the International Mechanical Code (IMC), National Building Code of Canada (NBC), and the Uniform Mechanical Code (UMC).

1.12 These requirements cover products rated 600 volts or less.

1.13 These requirements do not cover evaluation of the exhaust hoods with respect to their grease extraction efficiency.

NOTE: Capture efficiency of a kitchen hood filter can be measured using ASTM F2519, Standard Test Method for Grease Particle Capture Efficiency of Commercial Kitchen Filters and Extractors.

## 2 Units of Measurement

2.1 The metric unit shall be designated as the official unit for purposes of this Standard. Where values of measurement are specified in both SI and U.S. Customary units, either unit is used. In cases of dispute, the metric unit shall be used.

## 3 Components

3.1 Except as indicated in [3.2](#), a component of a product covered by this Standard shall comply with the requirements for that component.

3.2 A component is not required to comply with a requirement specified in its specific standard when it:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this Standard; or
- b) Is superseded by a requirement in this Standard.

3.3 A component shall be used in accordance with its recognized rating established for the intended conditions of use.

3.4 Specific components are recognized as being incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions for which they have been recognized.

## 4 Referenced Publications

4.1 Any undated reference to a code or standard appearing in the requirements of this Standard shall be interpreted as referring to the latest edition of that code or standard.

4.2 The following publications are referenced in this Standard:

ASTM A90, *Standard Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles*

ASTM A313/A313M, *Specification for Stainless Steel Spring Wire*

ASTM A653/A653M, *Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process*

ASTM B555, *Standard for Measurement of Electrodeposited Metallic Coating Thicknesses by the Dropping Test*

ASTM D3183, *Practice for Rubber – Preparation of Pieces for Test Purposes from Products*

ASTM D3767, *Practice for Rubber Measurement of Dimensions*

ASTM D412 REV A, *Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers Tension*

ASTM D573, *Standard Test Method for Rubber Deterioration in an Air Oven*

ASTM E230/E230M, *Standard Specification for Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples*

ASTM F2519, *Standard Test Method for Grease Particle Capture Efficiency of Commercial Kitchen Filters and Extractors*

CSA C22.1, *Canadian Electrical Code, Part I*

CSA C22.2 No. 0, *General Requirements – Canadian Electrical Code, Part II*

CSA C22.2 No. 0.17, *Evaluation of Properties of Polymeric Materials*

CSA C22.2 No. 4-04, *Enclosed and Dead-Front Switches*

CSA C22.2 No. 5, *Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures*

CSA C22.2 No. 14, *Industrial Control Equipment*

CSA C22.2 No. 18.3, *Conduit, Tubing, and Cable Fittings*

CSA C22.2 No. 66.1, *Low Voltage Transformers – Part 1: General Requirements*

CSA C22.2 No. 66.3, *Low Voltage Transformers – Part 3: Class 2 and Class 3 Transformers*

CSA C22.2 No. 68, *Motor-Operated Appliances (Household and Commercial)*

CSA C22.2 No. 77, *Motors with Inherent Overheating Protection*

CSA C22.2 No. 94.1, *Enclosures for Electrical Equipment, Non-Environmental Considerations*

CSA C22.2 No. 94.2, *Enclosures for Electrical Equipment, Environmental Considerations*

CSA C22.2 No. 177, *Clock-Operated Switches*

CSA C22.2 No. 248.1, *Low-Voltage Fuses – Part 1: General Requirements*

CSA C22.2 No. 248.2, *Low-Voltage Fuses – Part 2: Class C Fuses*

CSA C22.2 No. 248.3, *Low-Voltage Fuses – Part 3: Class CA and CB Fuses*

CSA C22.2 No. 248.4, *Low-Voltage Fuses – Part 4: Class CC Fuses*

CSA C22.2 No. 248.5, *Low-Voltage Fuses – Part 5: Class G Fuses*

CSA C22.2 No. 248.6, *Low-Voltage Fuses – Part 6: Class H Non-Renewable Fuses*

CSA C22.2 No. 248.7, *Low-Voltage Fuses – Part 7: Class H Renewable Fuses*

CSA C22.2 No. 248.8, *Low-Voltage Fuses – Part 8: Class J Fuses*

CSA C22.2 No. 248.9, *Low-Voltage Fuses – Part 9: Class K Fuses*

CSA C22.2 No. 248.10, *Low-voltage Fuses – Part 10: Class L Fuses*

CSA C22.2 No. 248.11, *Low-Voltage Fuses – Part 11: Plug Fuses*

CSA C22.2 No. 248.12, *Low-Voltage Fuses – Part 12: Class R Fuses*

CSA C22.2 No. 248.13, *Low-Voltage Fuses – Part 13: Semiconductor Fuses*

CSA C22.2 No. 248.14, *Low-Voltage Fuses – Part 14: Supplemental Fuses*

CSA C22.2 No. 248.15, *Low-Voltage Fuses – Part 15: Class T Fuses*

CSA C22.2 No. 248.16, *Low-Voltage Fuses – Part 16: Test Limiters*

CSA C22.2 No. 250.0, *Standard for Luminaires*

CSA C22.2 No. 4248-1, *Fuseholders – Part 5: Class G*

CSA E60730-1, *Automatic Electrical Controls – Part 1: General Requirements*

CSA E60730-2-9, *Automatic Electrical Controls – Part 2-9: Particular Requirements for Temperature Sensing Controls*

CSA E730-2-7, *Automatic Electrical Controls for Household and Similar Use – Part 2-7: Particular Requirements for Timers and Time Switches*

IAPMO, *Uniform Mechanical Code*

ICC, *I-Codes: International Mechanical Code*

IEC 61000-4-5, *Electromagnetic Compatibility (EMC) – Part 4-5: Testing and Measurement Techniques – Surge Immunity Test*

NFPA 70, *National Electrical Code*

NFPA 96, *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*

NRC, *National Building Code of Canada*

RAC, *RDH 376 – Reliability Design Handbook*

UL/ULC 33, *Heat Responsive Links for Fire-Protection Service*

UL 50, *Enclosures for Electrical Equipment, Non-Environmental Considerations*

UL 50E, *Enclosures for Electrical Equipment, Environmental Considerations*

UL 94, *Tests for Flammability of Plastic Materials for Parts in Devices and Appliances*

UL 98, *Enclosed and Dead-Front Switches*

UL 248-1, *Low-Voltage Fuses – Part 1: General Requirements*

UL 248-2, *Low-Voltage Fuses – Part 2: Class C Fuses*

UL 248-3, *Low-Voltage Fuses – Part 3: Class CA and CB Fuses*

UL 248-4, *Low-Voltage Fuses – Part 4: Class CC Fuses*

UL 248-5, *Low-Voltage Fuses – Part 5: Class G Fuses*

UL 248-6, *Low-Voltage Fuses – Part 6: Class H Non-Renewable Fuse*

UL 248-7, *Low-Voltage Fuses – Part 7: Class H Renewable Fuses*

UL 248-8, *Low-Voltage Fuses – Part 8: Class J Fuses*

UL 248-9, *Low-Voltage Fuses – Part 9: Class K Fuses*

UL 248-10, *Low-Voltage Fuses – Part 10: Class L Fuses*

UL 248-11, *Low-Voltage Fuses – Part 11: Plug Fuses*

UL 248-12, *Low-Voltage Fuses – Part 12: Class R Fuses*

UL 248-13, *Low-Voltage Fuses – Part 13: Semiconductor Fuses*

UL 248-14, *Low-Voltage Fuses – Part 14: Supplemental Fuses*

UL 248-15, *Low-Voltage Fuses – Part 15: Class T Fuses*

UL 248-16, *Low-Voltage Fuses – Part 16: Test Limiters*

UL 353, *Limit Controls*

UL 489, *Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures*

UL 508, *Industrial Control Equipment*

UL 514B, *Conduit, Tubing, and Cable Fittings*

UL 555, *Fire Dampers*

UL 705, *Power Ventilators*

UL 710, *Exhaust Hoods for Commercial Cooking Equipment*

UL 710B, *Recirculating Systems*

UL 723, *Test for Surface Burning Characteristics of Building Materials*

UL 746A, *Polymeric Materials – Short Term Property Evaluations*

UL 864, *Control Units and Accessories for Fire Alarm Systems*

UL 867, *Electrostatic Air Cleaners*

UL 917, *Clock-Operated Switches*

UL 935, *Fluorescent-Lamp Ballasts*

UL 969, *Marking and Labeling Systems*

UL 991, *Safety Tests for Safety-Related Controls Employing Solid-State Devices*

UL 1004-1, *Rotating Electrical Machines – General Requirements*

UL 1004-2, *Impedance Protected Motors*

UL 1004-3, *Thermally Protected Motors*

UL 1004-7, *Electronically Protected Motors*

UL 1029, *High-Intensity-Discharge Lamp Ballasts*

UL 1046, *Grease Filters for Exhaust Ducts*

UL 1598, *Luminaires*

UL 1995, *Heating and Cooling Equipment*

UL 1998, *Software in Programmable Components*

UL 2111, *Overheating Protection for Motors*

UL 2395, *Adhesives for Use in Heating and Cooling Appliances to Secure Thermal Insulation Materials*

UL 4248-5, *Fuseholders – Part 5: Class G*

UL 5085-1, *Low Voltage Transformers – Part 1: General Requirements*

UL 5085-3, *Low Voltage Transformers – Part 3: Class 2 and Class 3 Transformers*

UL 60730-1, *Automatic Electrical Controls – Part 1: General Requirements*

UL 60730-2-7, *Automatic Electrical Controls – Part 2-7: Particular Requirements for Timers and Time Switches*

UL 60730-2-9, *Automatic Electrical Controls – Part 2-9: Particular Requirements for Temperature Sensing Controls*

ULC 102, *Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies*

ULC 102.2, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and Assemblies*

ULC-S112, *Standard Method of Fire Test of Fire-Damper Assemblies*

ULC 527, *Control Units for Fire Alarm Systems*

ULC-S645, *Power Roof Ventilators for Commercial and Institutional Kitchen Exhaust Systems*

ULC-S649, *Grease Filter for Commercial and Institutional Kitchen Exhaust Systems*

## 5 Glossary

5.1 For the purpose of this Standard the following definitions apply.

5.2 **CIRCUIT, HIGH-VOLTAGE** – A circuit having characteristics in excess of those of a low-voltage circuit. See [5.3](#).

5.3 **CIRCUIT, LOW-VOLTAGE** – A circuit involving a potential of not more than 30 volts rms alternating-current (42.4 volts peak or direct current), and supplied by a primary battery or by a Class 2 transformer or by a combination of transformer and fixed impedance which, as a unit, complies with all the performance requirements for a Class 2 transformer.

5.4 **COMBUSTIBLE MATERIAL** – Material made of or surfaced with wood, compressed paper, plain fibers, or other material that will ignite and burn, as applied to materials adjacent to or in contact with heat-producing appliances, grease duct and vent connectors, steam and hot water pipes, and warm air ducts. Such material shall be considered as combustible even though flame proofed, fire-retardant treated, or plastered.

5.5 **COOKING APPLIANCE** – Cooking device used in kitchen operated by gas and/or electricity.

a) **APPLIANCE, LIGHT-DUTY** – Appliance with a light duty rating. Light-duty cooking appliances, as defined in the IMC, includes gas and electric ovens (including standard, bake, roasting, revolving, retherm, convection, combination convection/steamer, countertop conveyORIZED baking/finishing, deck, and pastry), electric and gas steam-jacketed kettles, electric and gas pasta cookers, electric and gas compartment steamers (both pressure and atmospheric) and electric and gas cheesemelters.

b) **APPLIANCE, MEDIUM-DUTY** – Appliance with a medium duty rating. Medium-duty cooking appliances, as defined in the IMC, includes electric discrete element ranges (with or without oven), electric and gas hot-top ranges, electric and gas griddles, electric and gas double-sided griddles, electric and gas fryers (including open deep fat fryers, donut fryers, kettle fryers and pressure fryers), electric and gas conveyor pizza ovens, electric and gas tilting skillets (braising pans) and electric and gas rotisseries.

c) **APPLIANCE, HEAVY-DUTY** – Appliance with an heavy duty rating. Heavy-duty cooking appliances, as defined in the IMC, includes electric under-fired broilers, electric chain (conveyor) broilers, gas under-fired broilers, gas chain (conveyor) broilers, gas open-burner ranges (with or without oven), electric and gas wok ranges, and electric and gas over-fired (upright) broilers and salamanders.

d) **APPLIANCE, EXTRA HEAVY-DUTY** – Appliance with an extra heavy-duty rating. Extra heavy-duty cooking appliances, as defined in the IMC, includes appliances utilizing solid fuel such as wood, charcoal, briquettes, and mesquite to provide all or part of the heat source for cooking.

5.6 FILTER BLANKS – A solid panel that is used in place of a grease filter to eliminate airflow through a section of hood.

5.7 FITTING – A device intended to provide a liquid tight seal around penetrations.

5.8 GREASE FILTER – A removable component of the grease removal system intended to capture grease and direct it to a safe collection point.

5.9 GREASE REMOVAL DEVICE – A product or system of components designed and installed in a Type 1 hood intended to process vapors, gases, and/or air as it is drawn through such device(s) by collecting the airborne grease particles and concentrating them for further action at some future time, leaving the exiting air with a lower amount of combustible matter.

5.10 HOOD – A device designed to capture and contain cooking effluent which includes grease, smoke, steam, heat, and vapor for exhausting through a grease duct. Hoods are divided between Type I and Type II.

5.11 HOOD – TYPE I – A hood for collecting and removing grease effluents and smoke. The following styles are commonly available:

a) BACKSHELF OR PROXIMITY HOOD – A wall mounted hood with its front lower lip in low proximity over the appliance(s) and the hood is typically set back from the front edge of the cooking appliance(s).

b) COMPENSATING HOOD – A Hood having integral (built-in) make-up air supply. The make-up air supply is supplied from one or more of the following: short-circuit flow inside the hood, air curtain flow from the bottom of the front face, the rear or side of the hood, or the rear, front, or sides of the cooking equipment.

c) DOUBLE ISLAND CANOPY HOOD – A hood over back-to-back appliances or appliance lines. The hood is suspended such that it abuts no walls and overhangs both the fronts and the sides of the appliance(s).

d) EYEBROW HOOD – A hood mounted directly to the top/front of an appliance above the opening(s) or door(s) from which effluent is emitted.

e) PASS-OVER HOOD – A hood that is a form of a backshelf hood constructed low enough to pass food over the top.

f) SINGLE ISLAND CANOPY HOOD – A hood placed over a single appliance or single appliance line. The hood abuts no walls and overhangs both the fronts and the sides of the appliance(s).

g) WALL CANOPY HOOD – A hood mounted against a wall above a single appliance or line of appliance(s) and overhangs the front and the sides of the appliance(s).

h) VENTILATED CEILING – A ventilated ceiling is a hood which is typically installed so that the bottom edge of the hood is flush with the ceiling height.

5.12 HOOD – TYPE II – A hood for collecting and removing steam, vapor, heat and odors.

5.13 LUMINAIRE (FIXTURE) – A complete lighting unit consisting of a lamp or lamps, together with the parts designed to distribute the light, to position and protect the lamps and ballast (where applicable), and to connect the lamps to the power supply.

5.14 PENETRATIONS – The routing of metallic piping into or through exhaust hoods or ducts for connection to a fire extinguishing system or waterwash system.