UL 737

STANDARD FOR SAFETY

Fireplace Stoves

UL Standard for Safety for Fireplace Stoves, UL 737

Eleventh Edition, Dated February 28, 2025

Summary of Topics

This new Eleventh Edition of ANSI/UL 737 dated February 28, 2025 incorporates editorial changes including renumbering and reformatting to align with current style.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated November 22, 2024.

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Standard for Fireplace Stoves

First Edition – June, 1968
Second Edition – November, 1971
Third Edition – April, 1975
Fourth Edition – May, 1978
Fifth Edition – March, 1982
Sixth Edition – September, 1988
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This ANSI/UL Standard for Safety consists of the Eleventh Edition.

The most recent designation of ANSI/UL 737 as an American National Standard (ANSI) occurred on February 28, 2025. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 These requirements cover fireplace stoves that are freestanding assemblies having fire chambers intended to be operated open to the room or, when equipped with doors, to be operated with the doors either open or closed.

1.2 Fireplace stoves covered by these requirements are intended for attachment to a residential chimney capable of being used for use with low heat appliances and intended for use with solid wood or coal fuels.

1.3 Fireplace stoves are intended for installation in accordance with the Standard for Chimneys, Fireplaces, Vents, and Solid Fuel Burning Appliances, NFPA 211, and in accordance with codes such as the International Mechanical Code, International Residential Code, and the Uniform Mechanical Code.

1.4 Fireplace stoves intended for use in mobile homes are to be installed in accordance with the Mobile Home Construction and Safety Standards published by the Department of Housing and Urban Development (HUD).

1.5 The product shall include:

a) A field-installed cord-connected or permanently-connected blower assembly; and

b) Other field-installed electrical accessories, rated at 250 volts or less, and intended to be employed in locations in accordance with the National Electrical Code, NFPA 70.

2 Components

2.1 General

2.1.1 A component of a product covered by this Standard shall:

a) Comply with the requirements for that component as indicated in 2.2 – 2.12;

b) Be used in accordance with its rating(s) established for the intended conditions of use;

c) Be used within its established use limitations or conditions of acceptability;

d) Additionally comply with the applicable requirements of this end product standard; and

e) Not contain mercury.

NOTE: Specific components are 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.

Exception No. 1: A component of a product covered by this Standard is not required to comply with a specific component requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product;

b) Is superseded by a requirement in this Standard; or

c) Is separately investigated when forming part of another component, provided the component is used within its established ratings and limitations.

Exception No. 2: A component complying with a UL component standard other than those cited in 2.2 – 2.12 is acceptable if:

a) The component also complies with the applicable component standard of 2.2 – 2.12; or

b) The component standard:

1) Is compatible with the ampacity and overcurrent protection requirements NFPA 70, where appropriate;

2) Considers long-term thermal properties of polymeric insulating materials in accordance with UL 746B; and

3) Any use limitations of the other component standard is identified and appropriately accommodated in the end use application. For example, a component used in a household application, but intended for industrial use and complying with the relevant component standard may assume user expertise not common in household applications.

2.1.2 A component that is also intended to perform other functions, such as over current protection, ground-fault circuit-interruption, surge suppression, any other similar functions, or any combination thereof, shall comply additionally with the requirements of the applicable UL standard(s) that cover devices that provide those functions.

Exception: Where these other functions are not required for the application and not identified as part of markings, instructions, or packaging for the appliance, the additional component standard(s) need not be applied.

2.1.3 A component not anticipated by the requirements of this Standard, not specifically covered by the component standards of 2.2 – 2.12, and that involves a potential risk of electric shock, fire, or personal injury, shall be additionally investigated in accordance with the applicable UL standard, and shall comply with 2.1.1 (b) – (d).

2.1.4 With regard to a component being additionally investigated, reference to construction and performance requirements in another UL end product standard is appropriate where that standard anticipates normal and abnormal use conditions consistent with the application of this Standard.

2.2 Attachment plugs, receptacles, connectors, and terminals

2.2.1 Attachment plugs, receptacles, appliance couplers, appliance inlets (motor attachment plugs) shall comply with UL 498.

Exception No. 1: Attachment plugs and appliance couplers integral to cord sets or power supply cords are covered under the requirements of UL 817 and need not comply with UL 498.

Exception No. 2: Plugs, receptacles, connectors, and terminals for specialty applications (e.g. data processing or communications) and located in a low-voltage circuit, complying with Section 33, Separation of Circuits, and not involving the risk of fire or personal injury need not comply with UL 758.

2.2.2 Quick-connect terminals, both connectors and tabs, for use with one or two 22 – 10 AWG copper conductors, having nominal widths of 2.8, 3.2, 4.8, 5.2, and 6.3 mm (0.110, 0.125, 0.187, 0.205, and 0.250 inch), intended for internal wiring connections in appliances shall comply with UL 310.

Exception No. 1: Other sizes of quick-connect terminals shall be investigated with respect to crimp pull out, insertion-withdrawal, temperature rise, and all tests shall be conducted in accordance with UL 310.

Exception No. 2: Plugs, receptacles, connectors, and terminals for specialty applications (e.g. data processing or communications) and located in a low-voltage circuit, complying with Section 33, Separation of Circuits, and not involving the risk of fire or personal injury need not comply with UL 758.

2.2.3 Wire connectors shall comply with UL 486A-486B.

Exception: Plugs, receptacles, connectors, and terminals for specialty applications (e.g. data processing or communications) and located in a low-voltage circuit, complying with Section 33, Separation of Circuits, and not involving the risk of fire or personal injury need not comply with UL 758.

2.2.4 Splicing wire connectors shall comply with UL 486C.

Exception: Plugs, receptacles, connectors, and terminals for specialty applications (e.g. data processing or communications) and located in a low-voltage circuit, complying with Section 33, Separation of Circuits, and not involving the risk of fire or personal injury need not comply with UL 758.

2.2.5 Equipment wiring terminals for use with all alloys of copper, aluminum, or copper-clad aluminum conductors, shall comply with UL 486E.

Exception: Plugs, receptacles, connectors, and terminals for specialty applications (e.g. data processing or communications) and located in a low-voltage circuit, complying with Section 33, Separation of Circuits, and not involving the risk of fire or personal injury need not comply with UL 758.

2.2.6 Terminal blocks shall comply with UL 1059, and, if applicable, be suitably rated for field wiring.

Exception No. 1: A fabricated parts performing the function of a terminal block need not comply with UL 1059 if the part complies with the requirements of Section 30, Field Supply Connections; Section 32, Internal Wiring; and Section 36, Insulating Material.

Exception No. 2: Plugs, receptacles, connectors, and terminals for specialty applications (e.g. data processing or communications) and located in a low-voltage circuit, complying with Section 33, Separation of Circuits, and not involving the risk of fire or personal injury need not comply with UL 758.

2.2.7 Female devices (such as receptacles, appliance couplers, and connectors) that are intended, or that may be used, to interrupt current in the end product, shall be suitably rated for current interruption of the specific type of load, when evaluated with its mating plug or connector. For example, an appliance coupler that can be used to interrupt the current of a motor load shall have a suitable horsepower rating when tested with its mating plug.

Exception: Plugs, receptacles, connectors, and terminals for specialty applications (e.g. data processing or communications) and located in a low-voltage circuit, complying with Section 33, Separation of Circuits, and not involving the risk of fire or personal injury need not comply with UL 758.

2.3 Boxes and raceways

2.3.1 Electrical boxes and the associated bushings and fittings, and raceways, of the types specified in Chapter 3 of NFPA 70 and that comply with the relevant UL standard (such as UL 514A, UL 514C, UL 514D) and 2.1.1 – 2.1.4 are considered to fulfill the requirements of this Standard.

Exception: Enclosures complying with Section 27, Enclosure, of this end product standard is considered to meet the intent of this requirement.

2.4 Capacitors and filters

2.4.1 The component requirements for a capacitor are not specified. A capacitor complying with UL 810, is considered to fulfill the requirements of 18.1.

2.4.2 Electromagnetic interference filters with integral enclosures that comply with UL 1283, are considered to fulfill the requirements of 18.1.

Exception: A capacitor that complies with Section 35, Capacitors, of this end product standard is considered to meet the intent of this requirement.

2.5 Controls

2.5.1 General

2.5.1.1 Auxiliary controls shall be evaluated using the applicable requirements of this end product standard.

2.5.1.2 Operating (regulating) controls shall be evaluated using the applicable component standard requirements specified in 2.5.2 – 2.5.5, and if applicable unless otherwise specified in this end product standard. Operating controls that rely upon software for the normal operation of the end product where deviation or drift of the control may result in a hazard, such as a speed control unexpectedly changing its output, shall comply with:

a) UL 991; and UL 1998; or

b) UL 60730-1.

2.5.1.3 Protective (limiting) controls shall be evaluated using the applicable component standard requirements specified in 2.5.2.2.

2.5.2 Electromechanical and electronic controls

2.5.2.1 An operating (regulating) control, other than as specified in 2.5.3 – 2.5.5, shall comply with:

a) UL 244A;

b) UL 873; or

c) UL 60730-1.

2.5.2.2 Protective (limiting) controls shall comply with UL 353.

2.5.3 Motor and speed controls

2.5.3.1 A control used to start, stop, regulate or control the speed of a motor shall comply with the:

a) UL 244A;

b) UL 873;

c) UL 508;

d) UL 61800-5-1; or

e) UL 60730-1.

2.5.4 Temperature controls

2.5.4.1 A temperature control shall comply with the:

a) UL 244A;

b) UL 873;

c) UL 508; or

d) UL 60730-1 and UL 60730-2-9.

2.5.4.2 A temperature sensing positive temperature coefficient (PTC) or negative temperature coefficient (NTC) thermistor, that performs the same function as an operating or protective control shall comply with UL 1434.

2.5.4.3 A thermal cutoff shall comply with UL 60691.

2.5.5 Timer controls

2.5.5.1 A timer control shall comply with the:

a) UL 244A; or

b) UL 60730-1 and UL 60730-2-7.

2.6 Cords, cables, and internal wiring

2.6.1 A cord set or power supply cord shall comply with UL 817.

2.6.2 Flexible cords and cables shall comply with UL 62. Flexible cord and cables are considered to fulfill this requirement when preassembled in a cord set or power supply cord complying with UL 817.

2.6.3 Internal wiring composed of insulated conductors shall comply with UL 758.

Exception No. 1: Insulated conductors need not comply with UL 758 if they comply with one of the following:

a) UL 44;

b) UL 83;

c) UL 66; or

d) the appropriate UL standard(s) for other insulated conductor types specified in Chapter 3, Wiring Methods and Materials, of NFPA 70.

Exception No. 2: Insulated conductors for specialty applications (e.g. data processing or communications) and located in a low-voltage circuit, complying with Section 33, Separation of Circuits, and not involving the risk of fire or personal injury need not comply with UL 758.

2.7 Overcurrent protection

2.7.1 Fuses shall comply with UL 248-1; and the applicable UL 248 Part 2 (e.g. UL 248-5). Defined use fuses that comply with UL 248-1 and another appropriate UL standard for the fuse are considered to fulfill this requirement.

2.7.2 Fuseholders shall comply with UL 4248-1, and the applicable Part 2 (e.g. UL 4248-9).

2.7.3 Circuit breakers shall comply with UL 489.

Exception: Circuit breakers used in telecommunications circuitry that comply with UL 489A, need not comply with UL 489.

2.7.4 Circuit breakers having integral ground fault circuit interrupter capability for protection against electrical shock shall additionally comply with UL 943.

2.7.5 Supplementary protectors shall comply with UL 1077.

2.7.6 Fusing resistors shall comply with UL 1412.

2.8 Polymeric materials and enclosures

2.8.1 Unless otherwise specified in this end product standard, polymeric electrical insulating materials and enclosures shall comply with the applicable requirements of UL 746C.

2.8.2 Metallized or painted polymeric parts or enclosures shall comply with the applicable requirements of UL 746C. This requirement is not applicable to exterior surfaces of polymeric enclosure materials or parts provided that the metallized coating or paint does not offer a continuous path for an internal flame to propagate externally.

2.9 Power supplies

2.9.1 A Class 2 power supply shall comply with one of the following:

a) UL 1310; or

b) UL 60950-1, with an output marked "Class 2", or that complies with the limited power source (LPS) requirements and is marked "LPS"; or

c) UL 62368-1, marked “Class 2” or the equivalent.

2.9.2 A non-Class 2 power supply shall comply with one of the following:

a) UL 1012; or

b) UL 60950-1; or

c) UL 62368-1.

2.10 Printed wiring boards

2.10.1 Printed wiring boards, including the coatings, shall comply with UL 796.

Exception: A printed-wiring board in a Class 2 nonsafety circuit is not required to comply with the bonding requirements in UL 796 if the board is separated from parts of other circuits such that loosening of the bond between the foil conductor and the base material will not result in the foil conductors or components coming in contact with parts of other circuits of the control or of the end-use product.

2.11 Switches

2.11.1 Switches shall comply with one of the following, as applicable:

a) UL 1054;

b) UL 61058-1;

c) UL 20; or

d) UL 773A.

Exception: Switching devices that comply with the appropriate UL standard for specialty applications (e.g. transfer switch equipment), industrial use (e.g. contactors, relays, auxiliary devices), or are integral to another component (e.g. switched lampholder) need not comply.

2.11.2 A clock-operated switch, in which the switching contacts are actuated by a clock-work, by a gear-train, by electrically-wound spring motors, by electric clock-type motors, or by equivalent arrangements shall comply with one of the following:

a) UL 917; or

b) UL 60730-1 and UL 60730-2-7.

2.11.3 A timer or time switch, incorporating electronic timing circuits or switching circuits, with or without separable contacts, shall comply with the requirements for an operating control with Type 1 action for 6000 cycles of operation, or as a manual control for 5000 cycles of operation, in accordance with the following:

a) UL 244A;

b) UL 60730-1 and UL 60730-2-7.

2.11.4 A timer or time switch, incorporating electronic timing circuits or switching circuits, with or without separable contacts, that functions as a protective control, shall comply with the requirements for a protective control; see 2.5.1.3.

2.12 Transformers

2.12.1 General-purpose transformers shall comply with UL 5085-1; and UL 5085-2.

Exception: A transformer that is completely enclosed within the end product enclosure, and that meets the applicable construction and performance requirements of this end product standard when tested in conjunction with the end product, meets the intent of this requirement.

2.12.2 Class 2 and Class 3 transformers shall comply with UL 5085-1; and UL 5085-3.

Exception: Transformers located in a low voltage circuit, and that do not involve a risk of fire or personal injury, need not comply with this requirement.

3 Referenced Publications

3.1 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.

3.1 The following publications are referenced in this Standard:

ASME B36.10, *Welded and Seamless Wrought Steel Pipe*

ISA MC96.1, *Temperature Measurement Thermocouples*

International Mechanical Code

International Residential Code

Mobile Home Construction and Safety Standards *published by the Department of Housing and Urban Development (HUD)*

NFPA 70, *National Electrical Code*

NFPA 90B, *Installation of Warm Air Heating and Air Conditioning Systems*

NFPA 97, *Standard Glossary of Terms Relating to Chimneys, Vents, and Heat-Producing Appliances*

NFPA 2110, *Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*

UL 20, *General-Use Snap Switches*

UL 44, *Thermoset-Insulated Wires and Cables*

UL 62, *Flexible Cords and Cables*

UL 66, *Fixture Wire*

UL 73, *Motor-Operated Appliances*

UL 83, *Thermoplastic-Insulated Wires and Cables*

UL 103, *Factory-Built Chimneys for Residential Type and Building Heating Appliances*

UL 181, *Factory-Made Air Ducts and Air Connectors*

UL 244A, *Solid-State Controls for Appliances*

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

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

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

UL 310, *Electrical Quick-Connect Terminals*

UL 353, *Limit Controls*

UL 378, *Draft Equipment*

UL 486A, Wire Connectors and Soldering Lugs for use With Copper Conductors

UL 486B, Wire Connectors for Use With Aluminum Conductors

UL 486C, *Splicing Wire Connectors*

UL 486E, *Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors*

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

UL 489A, *Circuit Breakers For Use in Communications Equipment*

UL 498, *Attachment Plugs and Receptacles*

UL 508, *Industrial Control Equipment*

UL 514A, *Metallic Outlet Boxes*

UL 514C, *Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers*

UL 514D, *Cover Plates for Flush-Mounted Wiring Devices*

UL 746B, *Polymeric Materials – Long Term Property Evaluations*

UL 746C, *Polymeric Materials – Use in Electrical Equipment Evaluations*

UL 758, *Appliance Wiring Material*

UL 773A, *Nonindustrial Photoelectric Switches for Lighting Control*

UL 796, *Printed Wiring Boards*

UL 810, *Capacitors*

UL 817, *Cord Sets and Power-Supply Cords*

UL 873, Temperature-Indicating and -Regulating Equipment

UL 917, *Clock-Operated Switches*

UL 943, *Ground-Fault Circuit-Interrupters*

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

UL 1004, Electric Motors

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 1012, *Power Units Other Than Class 2*

UL 1054, Special-Use Switches

UL 1059, *Terminal Blocks*

UL 1077, *Supplementary Protectors for Use in Electrical Equipment*

UL 1283, *Electromagnetic Interference Filters*

UL 1310, *Class 2 Power Units*

UL 1412, *Fusing Resistors and Temperature-Limited Resistors for Radio and Television-Type Appliances*

UL 1434, *Thermistor-Type Devices*

UL 1998, *Software in Programmable Components*

UL 2111, *Overheating Protection for Motors*

UL 4248-1, *Fuseholders – Part 1: General Requirements*

UL 4248-9, *Fuseholders – Part 9: Class K*

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

UL 5085-2, *Low Voltage Transformers – Part 2: General Purpose Transformers*

UL 60691, *Thermal-Links – Requirements and Application Guide*

UL 60730-1A, Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements

UL 60730-2-2, Automatic Electrical Controls for Household and Similar Use; Part 2 Particular Requirements for Thermal Motor Protectors

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*

UL 60950-1, *Information Technology Equipment, – Safety – Part 1: General Requirements*

UL 61058-1, *Switches for Appliances – Part 1: General Requirements*