



UL 1370

STANDARD FOR SAFETY

Unvented Alcohol Fuel Burning Decorative Appliances

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UL Standard for Safety for Unvented Alcohol Fuel Burning Decorative Appliances, UL 1370

First Edition, Dated July 18, 2011

Summary of Topics

These revisions to ANSI/UL 1370 are being issued to incorporate the following requirements:

Modifications to the scope

Fuel capacity and test room size

Editorial correction and addition

Test requirements for outdoor appliances

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated September 4, 2015 and January 22, 2016.

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UL 1370

Standard for Unvented Alcohol Fuel Burning Decorative Appliances

Prior to the first edition, the requirements for the products covered by this standard were included in the Outline of Investigation for Unvented Alcohol Fuel Burning Decorative Appliances, SU 1370.

First Edition

July 18, 2011

This ANSI/UL Standard for Safety consists of the First Edition including revisions through March 25, 2016.

The most recent designation of ANSI/UL 1370 as an American National Standard (ANSI) occurred on March 14, 2016. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

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INTRODUCTION

1 Scope

1.1 These requirements apply to factory built unvented liquid or gelled alcohol based, fuel burning decorative appliances intended to be fixed non-moveable appliances including only the following:

- a) Floor mounted appliances; and
- b) Wall-mounted appliances;
- c) Fireplace grates installed in existing masonry fireplaces; and
- d) Appliance combustion chambers installed into fabricated enclosures that comply with the requirements of this Standard, applicable local codes, and manufacturer installation and clearance requirements.

These appliances are intended to be decorative in nature and not intended to be utilized as a primary heat source. These appliances are limited to a maximum input rate of 0.25 gallons of fuel per hour (0.95 liters per hour). Fuel oils, kerosene, gasoline, and other non-alcohols are not covered by these requirements.

1.2 These products consist of an overall enclosure, burning chamber, and provision for refueling. They are not intended for use in spaces in which flammable vapors or gases may be present. They are not intended to be used as cooking appliances. And, these systems are not intended to be used in conjunction with blower assemblies.

Exception: Fireplace grates do not require an integral enclosure; they utilize the existing masonry fireplace as their enclosure, see 1.1(c).

1.3 The appliances as covered by these requirements are intended for installation in occupancies where use is permitted by local codes, such as NEPA 1, Uniform Fire Code and NFPA 101, Life Safety Code.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this Standard shall comply with the requirements for that component.

2.2 A component is not required to comply with a specific requirement that:

- 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.

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

2.4 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.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

3.2 Unless indicated otherwise, all voltage and current values mentioned in this Standard are rms.

4 Undated References

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.

5 Glossary

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

5.2 ALCOHOL – Any of a series of hydroxyl compounds having the general formula $C_nH_{2n+1}OH$, including ethanol. The fuel may be provided in liquid or gelled form.

5.2.1 CARTRIDGE OR CAN – A container that is used to enclose the fuel for shipment and transportation and in addition is used to hold the fuel while it is burning (ie. acts as the burner also).

5.3 COMBUSTIBLE MATERIAL – Material made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flameproofed or not, or whether plastered or unplastered.

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5.4 COMBUSTION – The rapid oxidation of fuel accompanied by the production of heat, or heat and light. Complete combustion of a fuel is possible only in the presence of an adequate oxygen supply.

5.5 COMBUSTION (BURNING) CHAMBER – The area within the appliance where the fuel is intended to be combusted.

5.6 ENCLOSURE – The construction that surrounds and contains all parts of the appliance, including the combustion chamber and fuel reservoir.

5.6.1 FIREPLACE GRATE – A structure containing a fuel reservoir, which is intended to be secured within an existing masonry fireplace.

5.6.2 FUEL CONFINING PART – A fuel confining part is a part of the factory built appliance that is in direct physical contact with alcohol.

5.7 FUEL RESERVOIR – The basin where the fuel is loaded for the purposes of combustion.