



UL 1042

STANDARD FOR SAFETY

Electric Baseboard Heating Equipment

UL Standard for Safety for Electric Baseboard Heating Equipment, UL 1042

Fifth Edition, Dated August 31, 2009

Summary of Topics

These revisions of ANSI/UL 1042 dated February 2, 2021 includes replacing the reference to the Standard for Power Conversion Equipment, UL 508C, with reference to the Standard for Adjustable Speed Electrical Power Drive Systems – Part 5-1: Safety Requirements – Electrical, Thermal and Energy, UL 61800-5-1; [3.3.4.1](#) and [17.4](#)

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 November 6, 2020.

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ANSI/UL 1042-2021

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UL 1042

Standard for Electric Baseboard Heating Equipment

Prior to the first edition, the requirements for the products covered by this standard were included in the Standard for Electric Space Heating Equipment, UL 573.

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Third Edition – September, 1987
Fourth Edition – April, 1994

Fifth Edition

August 31, 2009

This ANSI/UL Standard for Safety consists of the Fifth Edition including revisions through February 2, 2021.

The most recent designation of ANSI/UL 1042 as an American National Standard (ANSI) occurred on February 2, 2021. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

The Department of Defense (DoD) has adopted UL 1042 on August 30, 1986. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

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 <https://csds.ul.com>.

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APPENDIX A

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INTRODUCTION

1 Scope

1.1 These requirements cover portable and fixed electric baseboard heating equipment rated at 600 volts or less, to be employed in ordinary locations in accordance with the National Electrical Code, ANSI/NFPA 70.

1.2 Baseboard heating equipment includes baseboard heaters and baseboard heater accessories.

1.3 Electric baseboard heating equipment intended for use in a hazardous location is judged on the basis of compliance with the requirements in this standard, together with those recognized requirements applicable to usage in hazardous locations.

1.4 Any air heating appliance sold or recommended for use as a baseboard heater, irrespective of its dimensions or other characteristics, is to be identified as a baseboard heater. It will be categorized as a fixed or portable baseboard heater in accordance with the following:

a) Fixed – A heater is identified as a fixed baseboard heater if:

1) The heater is less than 6 in (150 mm) in overall depth, the ratio of the overall length to the overall height is more than two to one, and the heater can be installed completely within a space of 18 in (460 mm) above the floor; or

2) The heater enclosure is intended to be connected to other heater enclosures to form a system.

Exception: A heater intended for ceiling mounting or suspended mounting or marked "Do Not Install Less Than 6 Feet From Floor" is not considered to be a baseboard heater even if it meets the specifications in (1) or (2) above.

b) Portable – A portable heater is identified as a baseboard heater if, excluding projections of guard or feet, it is less than 5 in (130 mm) in depth and if the ratio of its overall length to its height without the handle is as follows:

Maximum height of heater, feet (mm)	Ratio of length to height
2 (610)	More than 2 to 1
Over 2 (610)	More than 3 to 1

Exception: A portable radiant heater which has a visible glowing heating element and which is not sold or recommended for use as a baseboard heater may be excluded as a baseboard heater even if it meets the dimensional specifications in (b) above. Such a heater may be judged under the requirements for movable air heaters in the Standard for Movable and Wall- or Ceiling-Hung Electric Room Heaters, UL 1278. For this determination, a radiant heater is one in which the visible portion of the heating element attains a temperature of at least 650° C (1200° F) under normal conditions of operation.

2 Units of Measurement

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

2A Glossary

2A.1 For the purposes of this standard the following definitions apply.

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