

UL 574

ISBN 0-7629-0022-9

Electric Oil Heaters

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Northbrook, IL 60062-2096

UL Standard for Safety
for
Electric Oil Heaters, UL 574

Seventh Edition, Dated June 21, 1996

A change is indicated by a note following the affected item.

The new and revised requirements are substantially in accordance with UL's Bulletin on this subject dated January 26, 1996. The bulletin is now obsolete and may be discarded.

As indicated on the title page (page 1), this UL Standard for Safety has been adopted by the Department of Defense.

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The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

New product submittals made prior to a specified future effective date will be judged under all of the requirements in this Standard including those requirements with a specified future effective date, unless the applicant specifically requests that the product be judged under the current requirements. However, if the applicant elects this option, it should be noted that compliance with all the requirements in this Standard will be required as a condition of continued Listing, Recognition, and Follow-Up Services after the effective date, and understanding of this should be signified in writing.

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JUNE 21, 1996

1

UL 574

Standard for

Electric Oil Heaters

First Edition – September, 1959

Second Edition – August, 1968

Third Edition – June, 1973

Fourth Edition – December, 1973

Fifth Edition – April, 1980

Sixth Edition – February, 1991

Seventh Edition

June 21, 1996

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

The Department of Defense (DoD) has adopted UL 574 on April 7, 1994. The publication of revised pages or a new edition of this standard will not invalidate the DoD adoption.

Revisions of this standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements.

ISBN 0-7629-0022-9

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No Text on This Page

CONTENTS**FOREWORD****INTRODUCTION**

1 Scope	5
2 General	5

CONSTRUCTION

3 Assembly	6
4 Materials	7
5 Thermal Insulation	8
6 Supply Connections	8
7 Internal Wiring	9
8 Electrical Insulation	10
9 Overload Protection	11
10 Lampholders	11
11 Switches	11
12 Controls	11
13 Mounting of Components	12

SPACINGS

14 General	13
------------------	----

PERFORMANCE

15 Power Input Test	14
16 Insulation Resistance Test	14
17 Temperature Tests	14
18 Volume Change Test	17
19 10-Day Moist Ammonia-Air Stress Cracking Test	17
20 Dielectric Voltage Withstand Test	18
21 Insulation Resistance and Dielectric Voltage Withstand Test	18
22 Leakage and Hydrostatic Strength Test	18

MANUFACTURING AND PRODUCTION TESTS

23 General	18
24 Leakage Tests	19
25 Production Line Dielectric Voltage Withstand Test	19

MARKING

26 General	19
------------------	----

APPENDIX A

Standards for Components	A1
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FOREWORD

A. This Standard contains basic requirements for products covered by Underwriters Laboratories Inc. (UL) under its Follow-Up Service for this category within the limitations given below and in the Scope section of this Standard. These requirements are based upon sound engineering principles, research, records of tests and field experience, and an appreciation of the problems of manufacture, installation, and use derived from consultation with and information obtained from manufacturers, users, inspection authorities, and others having specialized experience. They are subject to revision as further experience and investigation may show is necessary or desirable.

B. The observance of the requirements of this Standard by a manufacturer is one of the conditions of the continued coverage of the manufacturer's product.

C. A product which complies with the text of this Standard will not necessarily be judged to comply with the Standard if, when examined and tested, it is found to have other features which impair the level of safety contemplated by these requirements.

D. A product employing materials or having forms of construction differing from those detailed in the requirements of this Standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be judged to comply with the Standard.

E. UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of UL represent its professional judgment given with due consideration to the necessary limitations of practical operation and state of the art at the time the Standard is processed. UL shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of or reliance upon this Standard.

F. Many tests required by the Standards of UL are inherently hazardous and adequate safeguards for personnel and property shall be employed in conducting such tests.

INTRODUCTION

1 Scope

1.1 These requirements cover electric oil heaters for use with Nos. 5 and 6 fuel oil as defined in Specifications for Fuel Oils, ASTM D396. Electric oil heaters are to be used in ordinary locations and installed in accordance with the National Electrical Code, NFPA 70.

1.2 These requirements do not cover electric oil heaters rated at more than 600 volts.

1.3 A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this standard, and that involves a risk of fire, electric shock, or injury to persons, shall be evaluated using the appropriate additional component and end-product requirements as determined necessary to maintain the acceptable level of safety as originally anticipated by the intent of this standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this standard cannot be judged to comply with this standard. Where considered appropriate, revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this standard.

2 General

2.1 Components

2.1.1 Except as indicated in 2.1.2, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components generally used in the products covered by this standard.

2.1.2 A component need not comply with a specific requirement that:

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

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

2.1.4 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.

2.2 Units of measurement

2.2.1 If a value for measurement is followed by a value in other units in parentheses, the second value may be only approximate. The first stated value is the requirement.

2.3 Undated references

2.3.1 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.