

UL 207

ISBN 1-559789-346-X

Refrigerant-Containing Components and Accessories, Nonelectrical

Underwriters Laboratories Inc. (UL)
333 Pfingsten Road
Northbrook, IL 60062-2096

UL Standard for Safety
for
Refrigerant-Containing Components and Accessories, Nonelectrical, UL 207

Sixth Edition, Dated March 25, 1993

Revisions: This Standard contains revisions through and including October 29, 1997.

A change is indicated by a note following the affected item. The note is preceded and followed by an asterisk.

The new and/or revised requirements are substantially in accordance with UL's Bulletin on this subject dated January 9, 1997. The bulletin is now obsolete and may be discarded.

These revisions dated October 29, 1997 were also issued to correct an editorial error on page 13.

As indicated on the title page (page 1), this UL Standard for Safety is an American National Standard. Attention is directed to the note on the title page of this Standard outlining the procedures to be followed to retain the approved text of this ANSI/UL Standard.

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that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

A change in an effective date is indicated by a note following the affected item, and giving both the previous effective date and the new date the requirement becomes effective.

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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This Standard consists of pages dated as shown in the following checklist:

Page	Date
tr1 – tr4	October 29, 1997
1	March 25, 1993 (Reprinted: April 17, 1997)
2	April 17, 1997
3	April 17, 1997
4, 5	March 25, 1993
6, 6A, 6B	October 29, 1997
7, 8	March 15, 1995
9	April 17, 1997
10, 11	March 15, 1995
12	April 17, 1997
13	October 29, 1997
14	March 25, 1993
15	February 25, 1994
16	March 25, 1993
17, 18	April 17, 1997
19	March 25, 1993
20, 20A, 20B, 21, 22	February 25, 1994
sr1, sr2	April 17, 1997

No Text on This Page

MARCH 25, 1993
(Title Page Reprinted: April 17, 1997)



1

UL 207

Standard for

Refrigerant-Containing Components and Accessories, Nonelectrical

The First edition was titled Refrigerant-Containing Components and numbered, UL 207 (C).

First Edition – January, 1954
Second Edition – October, 1973
Third Edition – May, 1975
Fourth Edition – January, 1982
Fifth Edition – December, 1986

Sixth Edition

March 25, 1993

Approval as an American National Standard (ANSI) covers the numbered paragraphs on pages dated March 25, 1993. These pages should not be discarded when revised or additional pages are issued if it is desired to retain the ANSI approved text.

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

Approved as ANSI Z263.1 – 1975, January 22, 1975
Approved as ANSI/UL 207 – 1981, December 14, 1981
Approved as ANSI/UL 207 – 1981 (R 1986), August 15, 1986
Approved as ANSI/UL 207 – 1994, November 14, 1994

The Department of Defense (DoD) has adopted UL 207 on April 30, 1976. 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 1-55989-346-X

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No Text on This Page

CONTENTS

FOREWORD

INTRODUCTION

1 Scope	5
2 General	5
3 Glossary	6

CONSTRUCTION

4 Materials	9
5 Refrigerant Tubing	9

REFRIGERANT-CONTAINING PARTS

6 General	11
7 Pressure Vessels	11
8 Pressure Relief	11
9 Required Discharge Capacity	12
10 Relief Valves	13
11 Fusible Plugs or Rupture Members	13

DESIGN PRESSURE

12 General	14
------------------	----

PERFORMANCE

13 General	16
14 Strength Tests	17
15 Rupture Member Test	17
16 Fusible Plug Test	17
17 Mercurous-Nitrate Immersion Test	18
17A 10-Day Moist Ammonia Air Stress Cracking Test	18
18 Marking Plate Adhesion Tests	19

MANUFACTURING AND PRODUCTION TESTS

19 General	20
------------------	----

MARKING

20 General	20
------------------	----

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 nonelectrical refrigerant-containing components and accessories, intended for field installation in accordance with the Safety Code for Mechanical Refrigeration, ANSI/ASHRAE 15, in refrigeration systems, air conditioning equipment, or both, charged with the refrigerants identified for use in the component or accessory. The requirements also apply to components and accessories intended for use by manufacturers in factory-assembled systems or units, in which case the component or accessory is also judged under the requirements for the individual system or unit.

1.2 These requirements do not apply to:

- a) Electric valves and electric refrigeration controllers, hermetic refrigerant motor-compressors, tubing fittings such as flare or compression type fittings, and the like, which are covered in or as part of separate, individual requirements.
- b) Electrical components of assemblies incorporating these refrigerant-containing components or accessories, and
- c) Pressure vessels bearing the ASME Code "U" symbol which are within the Scope of the ASME Boiler and Pressure Vessel Code, Section VIII.

1.3 A product that contains features, characteristics, components, materials, or systems new or different from those in use when the standard was developed, 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 level of safety for the user of the product as originally anticipated by the intent 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.