



**BSR/ASHRAE Addendum u  
to ANSI/ASHRAE Standard 15-2019**

**First Public Review Draft**

# **Proposed Addendum u to Standard 15-2019, Safety Standard for Refrigeration Systems**

**First Public Review (June 2022)  
(Draft shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at [www.ashrae.org/standards-research--technology/public-review-drafts](http://www.ashrae.org/standards-research--technology/public-review-drafts) and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, [www.ashrae.org](http://www.ashrae.org).

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**(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## FOREWORD

*A continuous maintenance proposal was submitted to update the definition of approved, nationally recognized laboratory. Note that the Occupational Safety and Health Administration (OSHA) department of the United States federal government uses “nationally recognized testing laboratory” (NRTL), and this change is to align with that common usage.*

*Changes other than to the definition are to editorially correct the usage through ANSI/ASHRAE Standard 15-2019. Note that the definition of “listed” is not included here as it was modified by Addendum b to ANSI/ASHRAE Standard 15-2019, and Section 7.6.5 is not included here because it is being modified by draft Addendum s. Also note that Addendum e to Standard 15-2019 renumbered Sections 9.10.1 and 9.11.1 in the published version of ANSI/ASHRAE Standard 15-2019 to Sections 9.10.1.1 and 9.14.1 (without textual change), respectively.*

**Note:** This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.

### Addendum u to Standard 15-2019

***Modify Section 3 as follows. The remainder of Section 3 remains unchanged.***

## 3. DEFINITIONS

### 3.1 Defined Terms

[ ... ]

~~**\*approved, nationally recognized testing laboratory (NRTL):** a laboratory that is acceptable to the AHJ and provides uniform testing and examination procedures and standards for meeting design, manufacturing, and factory testing requirements of this code; an organization which is recognized by a national body having authority for such approval, which tests for safety, and lists, labels, or accepts, equipment or materials; is organized, equipped, and qualified for testing; and has a follow-up inspection service of the current production of the listed listed products.~~

[ ... ]

***Modify Section 5 as follows. The remainder of Section 5 remains unchanged.***

## 5. REFRIGERATING SYSTEM CLASSIFICATION

[ ... ]

5.3.2 The change of *refrigerant* shall be in accordance with one of the following:

- a. Written instructions of the original equipment *manufacturer*
- b. An evaluation of the system by a registered design professional or by a nationally recognized testing laboratory ~~an approved nationally recognized testing laboratory~~ that validates safety and suitability of the replacement *refrigerant*

[ ... ]

***Modify Section 9 as follows. The remainder of Section 9 remains unchanged.***

## 9. DESIGN AND CONSTRUCTION OF EQUIPMENT AND SYSTEMS

[ ... ]

9.3.1.1 *Pressure vessels* having *inside dimensions* of 6 in. (152 mm) or less shall be

- a. *listed* either individually or as part of an assembly by ~~an approved, nationally recognized testing laboratory~~ a nationally recognized testing laboratory;

[ ... ]

9.10.1 *Refrigerant piping*, valves, fittings, and related parts having a maximum internal or external *design pressure* greater than 15 psig (103.4 kPa gage) shall be *listed* either individually or as part of an assembly or a system by ~~an approved, a nationally recognized testing laboratory~~, or shall comply with ASME B31.5 where applicable.

[ ... ]

9.11.1 Every pressure containing component of a *refrigerating system*, other than *pressure vessels, piping*, pressure gages, and control mechanisms, shall be *listed* either individually or as part of a complete *refrigerating system* or a subassembly by ~~an approved, nationally recognized testing laboratory~~ a nationally recognized testing laboratory or shall be designed, constructed, and assembled to have an *ultimate strength* sufficient to withstand three times the *design pressure* for which it is rated.

[ ... ]

***Modify Section 13 as follows. The remainder of Section 13 remains unchanged.***

## 13. DESIGN AND CONSTRUCTION OF EQUIPMENT AND SYSTEMS

Equipment *listed* by ~~an approved, nationally recognized testing laboratory~~ a nationally recognized testing laboratory, and identified as part of the listing as being in conformance with this standard, is deemed to meet the design, construction of equipment, and factory test requirement sections of this standard for the *refrigerant* or *refrigerants* for which equipment was designed.

[ ... ]

***Modify Informative Appendix A as follows. The remainder of Informative Appendix A remains unchanged.***

(This appendix is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

### INFORMATIVE APPENDIX A—EXPLANATORY MATERIAL

Sections of the standard with associated explanatory information in this appendix are marked with an asterisk “\*” after the section number, and the associated appendix information is located in a corresponding section number preceded by “A”.

[ ... ]

#### A3.1 Defined Terms

[ ... ]

*nationally recognized testing laboratory (NRTL)*: For the U.S.A., the Occupational Safety and Health Administration (OSHA) is one such national body. Refer to 29 CFR 1910.7.