



ADDENDA

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

Safety Standard for Refrigeration Systems

Approved by ASHRAE and the American National Standards Institute on August 31, 2022.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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ISSN 1041-2336



ASHRAE Standing Standard Project Committee 15

Cognizant TCs: 10.1, Custom Engineered Refrigeration Systems, and 9.1, Large Building Air-Conditioning Systems

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FOREWORD

Addendum u updates the definition of “approved, nationally recognized laboratory” to align Standard 15 with U.S. Occupational Safety and Health Administration’s (OSHA) usage.

Additional minor editorial changes correct usage of the term throughout the standard. 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 was modified by 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: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum u to Standard 15-2019

Modify Section 3.1 as shown. The remainder of Section 3.1 remains unchanged.

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 that is recognized by a national body having authority for such approval that 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 shown. The remainder of Section 5 remains unchanged.

[...]

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 shown. The remainder of Section 9 remains unchanged.

[...]

9.3.3.1 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 recog-

nized 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 shown. 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. (Note: This addendum reflects changes previously made by Addendum k to Standard 15-2019, which can be downloaded from the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-addenda>.)

(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".

[...]

Section 3.1

[...]

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

POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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As an industry leader in research, standards writing, publishing, certification, and continuing education, ASHRAE and its members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with organizations in the HVAC&R community and across related industries.

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