



# ADDENDA

**ANSI/ASHRAE Addendum b to  
ANSI/ASHRAE Standard 15-2013**

# Safety Standard for Refrigeration Systems

Approved by the ASHRAE Standards Committee on June 29, 2016; by the ASHRAE Technology Council on June 29, 2016; and by the American National Standards Institute on June 30, 2016.

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. The change submittal form, instructions, and deadlines may be obtained in electronic form from the ASHRAE website ([www.ashrae.org](http://www.ashrae.org)) or in paper form from the Senior Manager of Standards.

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**and 9.1, Large Building Air-Conditioning Systems**  
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ASHRAE obtains consensus through participation of its national and international members, associated societies, and public review.

ASHRAE Standards are prepared by a Project Committee appointed specifically for the purpose of writing the Standard. The Project Committee Chair and Vice-Chair must be members of ASHRAE; while other committee members may or may not be ASHRAE members, all must be technically qualified in the subject area of the Standard. Every effort is made to balance the concerned interests on all Project Committees.

The Senior Manager of Standards of ASHRAE should be contacted for

- a. interpretation of the contents of this Standard,
- b. participation in the next review of the Standard,
- c. offering constructive criticism for improving the Standard, or
- d. permission to reprint portions of the Standard.

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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 objections on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## FOREWORD

Addendum b updates a number of references in Informative Appendix A, "Informative References," and Normative Appendix B, "Normative References."

**Note:** In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strike through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

### Addendum b to Standard 15-2013

*Modify Informative Appendix A as follows.*

## INFORMATIVE APPENDIX A INFORMATIVE REFERENCES

This appendix contains full citations for informative references only. Full citations for normative references are listed in Normative Appendix B. References in this standard are numbered in the order in which they appear in the document, so the numbers for the normative references are shown for the convenience of the user.

1. Not an informative reference.
2. *ANSI/ASHRAE Standard 147-2013 Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta, GA 30329.
3. Not an informative reference.
4. Not an informative reference.
5. Not an informative reference.
6. Not an informative reference.
7. *2013 ASHRAE Handbook—Fundamentals*, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta, GA 30329.
8. Not an informative reference.
9. Not an informative reference.
10. Not an informative reference.
11. Not an informative reference.
12. Not an informative reference.
13. Not an informative reference.
14. *IIAR Bulletin 114-1991/2014, Guidelines for Identification of Ammonia Refrigeration Piping and System Components*, International Institute of Ammonia Refrigeration, 1001 N Fairfax St. Suite 503 Alexandria VA 22314
15. *IUPAC Technical Report Atomic Weights of the Elements 2011/2013* International Union of Pure and

Applied Chemistry, Research Triangle Park, NC 27709.

16. *NIST REFPROP, Standard Reference Database 23, Version 9.1*, (2013), National Institute of Standards and Technology, Gaithersburg, MD 20899.
17. *IUPAC Atomic Weights of the Elements 2011* International Union of Pure and Applied Chemistry, Research Triangle Park, NC 27709.

*Modify Normative Appendix B as follows.*

## NORMATIVE APPENDIX B NORMATIVE REFERENCES

This appendix contains full citations for normative references. Full citations for references that are solely informative are included in Informative Appendix A. Note that in some locations within the standard, normative references are also used as informative references. References in this standard are numbered in the order in which they appear in the document, so the numbers for the informative references are shown for the convenience of the user.

1. *ANSI/ASHRAE Standard 34-2001-2013 Designation and Safety Classification of Refrigerants*, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta, GA 30329.
2. Not a normative reference.
3. *AHRI 700-2012/2015, Specifications for Fluorocarbon Refrigerants and AHRI Standard 700c-2008, Appendix C to AHRI Standard 700—Analytical Procedures for AHRI Standard 700-2011/2014*, Air-Conditioning, Heating, and Refrigeration Institute, 2111 Wilson Blvd, Suite 500, Arlington, VA 22201-3001.
4. *UL 2044 Heating and Cooling Equipment, Fifth Edition (July 31, 2015)* Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062.
5. *NFPA 70-2002-2014, National Electrical Code®*, National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02269-9101.
6. *ANSI/ASME Boiler and Pressure Vessel Code, Section VIII, Rules for Construction of Pressure Vessels, Division 1, 2013/2015*, American Society of Mechanical Engineers (ASME), 3 Park Avenue, New York, NY 10016-5990.

**Note:** Reference 6 is mandatory for designers, manufacturers, and producers of refrigeration equipment. For all other users, this reference is informative.

7. Not a normative reference.
8. *ANSI/ASME B31.5-2001-2013 Refrigeration Piping and Heat Transfer Components*, American Society of Mechanical Engineers (ASME), 3 Park Avenue, New York, NY 10016.

**Note:** Reference 8 is mandatory for designers, manufacturers, and producers of refrigeration equipment. For all other users, this reference is informative.

9. *ANSI/ASME A13.1-2007/2015, Scheme for the Identification of Piping Systems*, American Society of

Mechanical Engineers (ASME), 3 Park Avenue, New York, NY 10016-5990.

10. *ANSI/ASTM B88-99e1-2014 Standard Specification for Seamless Copper Water Tube*, American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428.
11. *ANSI/ASTM B280-99e1-2013, Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service*, American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428.
12. *ANSI/ASTM B68-99-2011, Standard Specification for Seamless Copper Tube, Bright Annealed*, American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428.
13. *ANSI/ASTM B75-99-2011, Standard Specification for Seamless Copper Tube*, American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428.
14. Not a normative reference.
15. Not a normative reference.
16. Not a normative reference.

## **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.

### **About ASHRAE**

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration, and sustainability. Through research, Standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today.

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