



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

**First Public Review Draft**

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

**First Public Review (May 2020)  
(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

*This addendum proposes to insert a new appendix that will be used to add clarifying, non-mandatory reference information for the purpose of improving ease of use for the user, as well as moving mandatory normative reference information into the body of the standard.*

*References are also updated, as appropriate to the most current version.*

**Note:** This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (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.

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### **Addendum f to Standard 15-2019**

***Insert new Informative Appendix A as follows.***

**(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**

This informative appendix is not a part of the standard. It provides explanatory information related to provisions in the standard. 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”.

***Redesignate existing Informative Appendix A as new Informative Appendix B.***

### **INFORMATIVE APPENDIX A—INFORMATIVE REFERENCES**

This appendix contains a full list of informative references only. A full list of normative references is included in ~~Chapter 14 Normative Appendix B~~. References in this standard are numbered in the order in which they appear in the document, so the numbers for normative references are shown for the convenience of the user.

1. IIAR. ~~2019~~2014. ANSI/IIAR 2-2014 with addendum A, American National Standard for Safe Design of Closed-Circuit Ammonia Refrigeration Systems. ~~Alexandria~~Arlington, VA: International Institute of Ammonia Refrigeration.
2. ~~Not an informative reference.~~
3. ~~Not an informative reference.~~
4. ~~Not an informative reference.~~
5. ~~Not an informative reference.~~
6. ~~Not an informative reference.~~
7. ASHRAE. 2017. ASHRAE Handbook—Fundamentals. Atlanta: ASHRAE.
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. NIST. 2013. NIST REFPROP, Standard Reference Database 23, Version 9.1. National Institute of Standards and Technology, Gaithersburg, MD.
15. IUPAC. 2013. Atomic Weights of the Elements 2013 (IUPAC Technical Report). International Union of Pure and Applied Chemistry, Research Triangle Park, NC.

***Redesignate existing Informative Appendix B as new Chapter 14.***

**CHAPTER 14INFORMATIVE APPENDIX A—NORMATIVE REFERENCES**

This ~~chapter~~~~appendix~~ contains a full list of informative references only. A complete list of references that are solely informative are included in Informative ~~Appendix B~~~~Appendix A~~. References in this standard are numbered in the order in which they appear in the document, so the numbers for informative references are shown for the convenience of the user.

1. Not a normative reference.
2. ASHRAE. ~~2019~~~~2013~~. ANSI/ASHRAE Standard 34, Designation and Safety Classification of Refrigerants. Atlanta: ASHRAE.
3. NFPA. ~~2020~~~~2014~~. NFPA 70, National Electric Code®. Quincy, MA: National Fire Protection Association.
4. AHRI. ~~2016~~~~2015~~. AHRI 700-~~2016~~~~2015~~, Specifications for Refrigerants and AHRI Standard 700c-2014, Appendix C to ~~AHRI~~~~ARI~~ Standard 700—Analytical Procedures for ~~AHRI~~~~ARI~~ Standard 700-2014. Arlington, VA: Air-Conditioning, Heating and Refrigeration Institute.
5. UL. 2015. UL 1995, Heating and Cooling Equipment, 5<sup>th</sup> Edition. Northbrook, IL: ~~Underwriters Laboratories~~~~UL LLC~~~~Inc.~~
6. ASME. ~~2019~~~~2015~~. Boiler and Pressure Vessel Code, Section VIII, “Rules for Construction of Pressure Vessels,” Division 1. New York: American Society of Mechanical Engineers.
7. Not a normative reference.
8. ASME. ~~2016~~~~2013~~. ANSI/ASME B31.5, Refrigeration Piping and Heat Transfer Components. New York: American Society of Mechanical Engineers.
9. ASME. 2015. ANSI/ASME A13.1, Scheme for the Identification of Piping Systems. New York: American Society of Mechanical Engineers.
10. ASTM. ~~2016~~~~2014~~. ANSI/ASTM B88, Standard Specification for Seamless Copper Water Tube. West Conshohocken, PA: American Society for Testing and Materials.
11. ASTM. ~~2018~~~~2013~~. ANSI/ASTM B280, Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service. West Conshohocken, PA: American Society for Testing and Materials.
12. ASTM. ~~2019~~~~2014~~. ANSI/ASTM B86/~~B68M~~, Standard Specification for Seamless Copper Tube, Bright Annealed. West Conshohocken, PA: American Society for Testing and Materials.
13. ASTM. ~~2019~~~~2014~~. ANSI/ASTM B75/~~B75M~~, Standard Specification for Seamless Copper Tube. West Conshohocken, PA: American Society for Testing and Materials.
14. Not a normative reference.
15. Not a normative reference.