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## ADDENDA

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

# Safety Standard for Refrigeration Systems

Approved by ASHRAE and the American National Standards Institute on September 30, 2020.

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<sup>®</sup> website (https://www.ashrae.org/continuous-maintenance).

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  - b. participation in the next review of the Standard,
  - c. offering constructive criticism for improving the Standard, or
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#### FOREWORD

Addendum f inserts a new appendix that will be used to add clarifying, nonmandatory reference information for the purpose of improving ease of use, and moves mandatory normative reference information into the body of the standard. References in this standard are numbered in the order in which they appear in the document. Numbers for normative references are in Section 14, "Normative References," and numbers for informative references are in Informative Appendix B, "Informative References." References are also updated, where applicable, to the most current version.

*Note:* In this addendum, changes to the current standard are indicated in the text by <u>under-</u> <u>lining</u> (for additions) and <del>strikethrough</del> (for deletions) unless the instructions specifically mention some other means of indicating the changes.

#### Addendum f to Standard 15-2019

#### Insert new Informative Appendix A as shown

(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".

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

#### INFORMATIVE APPENDIX BA-INFORMATIVE REFERENCES

This appendix contains a full list of informative references-only. A full list of normative references is included in <u>Section 14Normative Appendix B</u>. 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.

- IIAR. <u>2019</u>2014. ANSI/IIAR 2<u>-2014 with addendum A</u>, American National Standard for Safe Design of Closed-Circuit Ammonia Refrigeration Systems. <u>AlexandriaArlington</u>, VA: International Institute of Ammonia Refrigeration.
- 2. Not an informative reference. See Section 14, "Normative References."
- 3. Not an informative reference.See Section 14, "Normative References."
- 4. Not an informative reference. See Section 14, "Normative References."
- 5. Not an informative reference. See Section 14, "Normative References."
- 6. Not an informative reference. See Section 14. "Normative References."
- 7. ASHRAE. 2017. ASHRAE Handbook—Fundamentals. Atlanta: ASHRAE.
- 8. Not an informative reference. See Section 14, "Normative References."
- 9. Not an informative reference. See Section 14, "Normative References."
- 10. Not an informative reference. See Section 14, "Normative References."
- 11. Not an informative reference. See Section 14, "Normative References."
- 12. Not an informative reference. See Section 14, "Normative References."
- 13. Not an informative reference.See Section 14, "Normative References."
- 14. NIST. 2013. NIST REFPROP, <u>Standard Reference Database 23</u>, 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 Purse and Applied Chemistry, Research Triangle Park, NC.

#### Redesignate existing Normative Appendix B as new Section 14.

#### **14. NORMATIVE APPENDIX B-NORMATIVE REFERENCES**

This <u>section</u>appendix contains a full list of normative references. A complete list of references that are solely informative <u>isare</u> included in Informative <u>Appendix BAppendix A</u>. 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. See Informative Appendix B, "Informative References."
- ASHRAE. <u>2019</u>2013. ANSI/ASHRAE Standard 34, Designation and Safety Classification of Refrigerants. Atlanta: ASHRAE.
- 3. NFPA. <u>2020</u><del>2014</del>. NFPA 70, National Electric Code<sup>®</sup>. Quincy, MA: National Fire Protection Association.
- AHRI. <u>2016</u><del>2015</del>. AHRI 700-<u>2016</u><del>2015</del>, Specifications for Refrigerants and AHRI Standard 700c-2014, Appendix C to <u>AHRIARI</u> Standard 700—Analytical Procedures for <u>AHRIARI</u> Standard 700-2014. Arlington, VA: Air-Conditioning, <u>Heating</u> and Refrigeration Institute.
- 5. UL. 2015. UL 1995, Heating and Cooling Equipment, 5<sup>th</sup> Edition. Northbrook, IL: <del>Underwriters Laboratories <u>UL LLCInc</u></del>.
- 6. ASME. <u>2019</u>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. See Informative Appendix B, "Informative References."
- 8. ASME. <u>2016</u><del>2013</del>. 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. <u>2016</u>2014. ANSI/ASTM B88, Standard Specification for Seamless Copper Water Tube. West Conshohocken, PA: American Society for Testing and Materials.
- ASTM. <u>2018</u>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.
- ASTM. <u>2019</u>2011. ANSI/ASTM B86/<u>B68M</u>, Standard Specification for Seamless Copper Tube, Bright Annealed. West Conshohocken, PA: American Society for Testing and Materials.
- 13. ASTM. <u>2019</u>2011. ANSI/ASTM B75/<u>B75M</u>, Standard Specification for Seamless Copper Tube. West Conshohocken, PA: American Society for Testing and Materials.
- 14. Not a normative reference. See Informative Appendix B, "Informative References."
- 15. Not a normative reference. See Informative Appendix B, "Informative References."

#### 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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#### About ASHRAE

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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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