ADDENDA

ANSI/ASHRAE Addendum b to
ANSI/ASHRAE Standard 15.2-2024

Safety Standard for Refrigeration Systems in Residential Applications

Approved by ASHRAE and the American National Standards Institute on January 30, 2025.

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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SPECIAL NOTE

This American National Standard (ANS) is a national voluntary consensus Standard developed under the auspices of ASHRAE. *Consensus* is defined by the American National Standards Institute (ANSI), of which ASHRAE is a member and which has approved this Standard as an ANS, as "substantial agreement reached by directly and materially affected interest categories. This signifies the concurrence of more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that an effort be made toward their resolution." Compliance with this Standard is voluntary until and unless a legal jurisdiction makes compliance mandatory through legislation.

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.

(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

Addendum b to ANSI/ASHRAE Standard 15.2-2024 modifies the standard to require a leak detection system to be part of a refrigeration system installed in a room where open flame appliances are present. This modification is necessary, because Standard 15.2 currently only addresses open flames in the ducts of flammable refrigerating systems. It does not address the potential hazard of other appliances with open flames within a space where a flammable refrigerant may be present.

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

Addendum b to Standard 15.2-2024

Modify Section 4 as follows. The remainder of this section remains unchanged.

4. DEFINITIONS

[. . .]

fixed**:** ~~a type of refrigeration system that is intended to be used while~~ fastened to a support or ~~while~~ secured in a specific location.

fixed open-flame-producing appliance**:** an *appliance* that intentionally produces an open-flame by drawing air for combustion from the indoor *space* and is intended to be used while fastened to a support or while secured in a specific location.

[. . .]

Modify Section 7 as follows. The remainder of this section remains unchanged.

7.2* A2L Refrigeration Systems in Spaces with Open Flames. A2L r*efrigeration systems* installed within a *space* containing *fixed open-flame-producing appliances,* other than water heaters listed to CSA/ANSI Z21.10.1,[32] shall have an *integral leak detection system.*

Exceptions to 7.2:

1. *Ductless HVAC* systems and *heat-pump water heaters* installed 10 ft (3.0 m) or greater away from *fixed open-flame-producing appliances*.
2. *Spaces* using the two permanent openings method as specified in the National Fuel Gas Code[33] (NFPA® 54) for combustion air to the *fixed open-flame-producing appliance*.

Modify Section 13 as follows. The remainder of this section remains unchanged.

13. NORMATIVE REFERENCES

[. . .]

32. CSA/ANSI. 2019. CSA/ANSI Z21.10.1-19, *Gas Water Heaters, Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per Hour or Less*. Toronto, ON, Canada: CSA Group.

33. NFPA. 2024. NFPA 54, *National Fuel Gas Code*. Quincy, MA: National Fire Protection Association.

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

INFORMATIVE APPENDIX A
EXPLANATORY MATERIAL

Section 7.2

This requirement only applies to the *refrigeration system* as defined by this standard and does not extend to *ducts* or *plenums*.

Examples of *fixed open-flame-producing appliances* are fireplaces, stoves, gas cooktops, gas ranges, boilers, central furnaces, and gas unit heaters. They may be *fixed* by fastening or secured in place by connection to *piping* or venting.

This requirement does not apply to water heaters listed to CSA/ANSI Z21.10.1,[32] because these gas-fired storage water heaters are tested for flammable vapors and are designed with flame arrest construction.

The exemption for *spaces* using the two permanent openings method in NFPA 54[33] is based on the code requirement that air for combustion must comply with one of the approved methods. The two permanent openings method requires an opening within 12 in. (30 cm) of the top and 12 in. (30 cm) of the bottom of the *space*. These openings communicate with larger indoor *spaces* calculated in accordance with NFPA 54 or outdoors either directly or through approved horizontal *ducts*.

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.

ASHRAE · 180 Technology Parkway · Peachtree Corners, GA 30092 · www.ashrae.org

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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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