



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

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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 ~~striking through~~ (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 refrigeration 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 Code³³ (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 54³³ 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.

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