



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

First Public Review Draft

**Proposed Addendum b to
Standard 15.2-2024, Safety Standard
for Refrigeration Systems in
Residential Applications**

**First Public Review (April 2025)
(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 <https://www.ashrae.org/technical-resources/standards-and-guidelines/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 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.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

© 2024 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Parkway NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: standards.section@ashrae.org.

ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092

(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 modifications to require a leak detection system to be part of a refrigeration system installed in a room where open flame appliances are present. This is needed because currently ASHRAE 15.2 only addresses open flames in the ducts of flammable refrigerating systems per clause 5.4. It does not address the potential hazard of other appliances with open flames within a space where a flammable refrigerant may be present.

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

Addendum b to Standard 15.2-2024

Modify Section 4, 7 and 13 as follows. The remainder of these Sections remain unchanged.

4. DEFINITIONS

[...]

equipment: all control devices, condensing sections, evaporator sections, combination appliances, and other components of fixed refrigeration systems. ~~that are integrated to provide control of environmental conditions for buildings.~~

fixed refrigeration system: 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.

[...]

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 Z21.10.1³², shall have an integral leak detection system.

Exceptions to 7.2:

1. Ductless HVAC systems and heat-pump water heaters installed 10 feet or greater away from fixed open-flame-producing appliances.
2. Spaces using the two permanent opening method as specified in the National Fuel Gas Code^{® 33} (NFPA 54) for combustion air to the fixed open-flame-producing appliance.

[...]

13. NORMATIVE REFERENCES

[32. CSA/ANSI. 2019. CSA/ANSI Z21.10.1, Gas water heaters, volume I, storage water heaters with input ratings of 75,000 Btu per hour or less](#)

[33. NFPA. 2024. NFPA 54, National Fuel Gas Code](#)

[...]

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.

The requirement does not apply to water heaters listed to CSA/ANSI Z21.10.1³² 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 opening method is found within NFPA 54³³ is based on the code requirement that air for combustion must comply with one of the approved methods. The two permanent opening method requires an opening within 12 inches of the top and 12 inches of the bottom of the space. These communicate with larger indoor spaces calculated in accordance with NFPA 54 or outdoors either directly or through approved horizontal ducts.