



# ADDENDA

**ANSI/ASHRAE Addendum w to  
ANSI/ASHRAE Standard 15-2022**

# Safety Standard for Refrigeration Systems

Approved by ASHRAE and the American National Standards Institute on August 30, 2024.

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## FOREWORD

*Addendum w permits use of the ventilation airflow rate according to Section 8.9.6 (i.e., the  $\sqrt{G}$  equation of Section 8.9.8.1) where explosion-proof electrical equipment is chosen as the compliance path, making ignition source engineering controls the primary means of risk management to mitigate the flammability hazard in machinery room applications employing Class 2L refrigerants, in the same manner as the requirements of Section 8.10 for Class 2 and Class 3 refrigerants. The other compliance path of using ventilation airflow rate according to Section 8.11.11 to mitigate the flammability hazard remains unchanged.*

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

## Addendum w to Standard 15-2022

*Modify Section 8 as follows. The remainder of Section 8 remains unchanged.*

### 8. INSTALLATION RESTRICTIONS

[ . . . ]

#### 8.11 Machinery Room, Special Requirements, A2L and B2L.

[ . . . ]

**8.11.6** ~~When~~Where any refrigerant of Groups A2, A3, B2, or B3 are used, the machinery room shall be designated as Class I, Division 2 hazardous (classified) electrical location in accordance with the *National Electric Code*<sup>® 4</sup> (NFPA 70). ~~When the only flammable refrigerants used are from Group A2L or B2L, the machinery room shall comply with both Section 8.11.6.1 for ventilation and Section 8.11.6.2 for refrigerant detection, or shall be designated as Class I, Division 2 hazardous (classified) electrical location in accordance with the NFPA 70.~~

Where flammable refrigerants only from Groups A2L or B2L are used, the machinery room shall meet one of the following requirements:

- a. Be provided with ventilation per Section 8.11.6.1 and refrigerant detection per Section 8.11.6.2.
- b. Be designated as Class I, Division 2 hazardous (classified) electrical location in accordance with NFPA 70, and be provided with ventilation per Section 8.9.6 and refrigerant detection per Section 8.11.6.2. Compliance to Section 8.11.11 shall not be required.

[ . . . ]

## **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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Founded in 1894, ASHRAE is a global professional society committed to serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration, and their allied fields.

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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