



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

**First Public Review Draft**

# **Proposed Addendum w to Standard 15-2022, Safety Standard for Refrigeration Systems**

**First Public Review (July 2024)  
(Draft shows Proposed Changes to Current Standard)**

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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](http://www.ashrae.org).

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**(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 proposed addendum 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.*

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

- 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.

[ ... ]