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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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 strikethrough (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 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® 4 (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 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.

[ ... ]