First Public Review Draft

(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 changes to allow the use of equipment using small amounts of non-A1 refrigerants, only if they are listed to appropriate product safety standards. The proposal is consistent with research findings, and the published requirements of product safety standards such as UL 484 and UL 60335-2-40.

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 c to Standard 15-2019

Modify Section 7 as follows. The remainder of Section 7 remains unchanged.

7. RESTRICTIONS ON REFRIGERANT USE

[ ... ]

7.5 Additional Restrictions

[ ... ]

7.5.1.2 Corridors and Lobbies. Refrigerating Refrigeration systems installed in a public corridor or lobby shall comply with the following:

1. Refrigeration systems shall be limited to unit systems.

2. The refrigerant charge shall be limited based on the RCL, as specified in Section 7.2. Section 7.2, Exception 1 for 6.6 lb (3 kg) of refrigerant in listed equipment shall not apply to refrigeration systems in a public corridor or lobby.

3. Refrigeration systems containing Class 2L, 2, or 3 refrigerants shall be listed, and the refrigerant charge shall be limited for each unit system, calculated in accordance with the following equation:

\[ m_{\text{max}} = 0.106 \times LFL \]  \hspace{1cm} \text{(I-P)}

\[ m_{\text{max}} = 3 \times LFL \]  \hspace{1cm} \text{(SI)}

where

\[ m_{\text{max}} \] = maximum charge quantity, lb (kg)

\[ LFL \] = lower flammability limit per ASHRAE Standard 34, pounds per 1000 ft\(^3\) (kg per m\(^3\))

0.106 = a constant with units of “1000 ft\(^3\)”

3 = a constant with units of “m\(^3\)”

containing not more than the quantities of Group A1 or B1 refrigerant indicated in ASHRAE Standard 34.2, Table 4-1 or 4-2.