BSR/ASHRAE Addendum aa
to ANSI/ASHRAE Standard 15-2024

First Public Review Draft

Proposed Addendum aa to Standard 15-2024, Safety Standard for Refrigeration Systems

First Public Review (November 2026)
(Draft shows Proposed Changes to Current Standard)

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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 is in response to CMP 15-2024-0008-001 and makes changes to the 3 kg and 10 kg refrigerant charge exemptions to better align with the UL 60335-2-40 and UL 60335-2-89 product design standard charge limits. It also makes additional changes to the flowcharts in Figures 7-1 and 7-2 to provide greater clarity for the standard end-user and to include mechanical ventilation as part of EDVC compliance.

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 aa to Standard 15-2024

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

7. RESTRICTIONS ON REFRIGERANT USE

[…]

*{**Note to reviewers:** As part of this proposed addendum, the original flowchart Figures 7-1 and 7-2 are replaced with new flowchart Figures 7-1 and 7-2. Changes in the flowcharts are indicated in red. Some of these changes involve deleting and replacing icons, italicizing defined terms, or minor editorial changes to text to improve clarity.}*

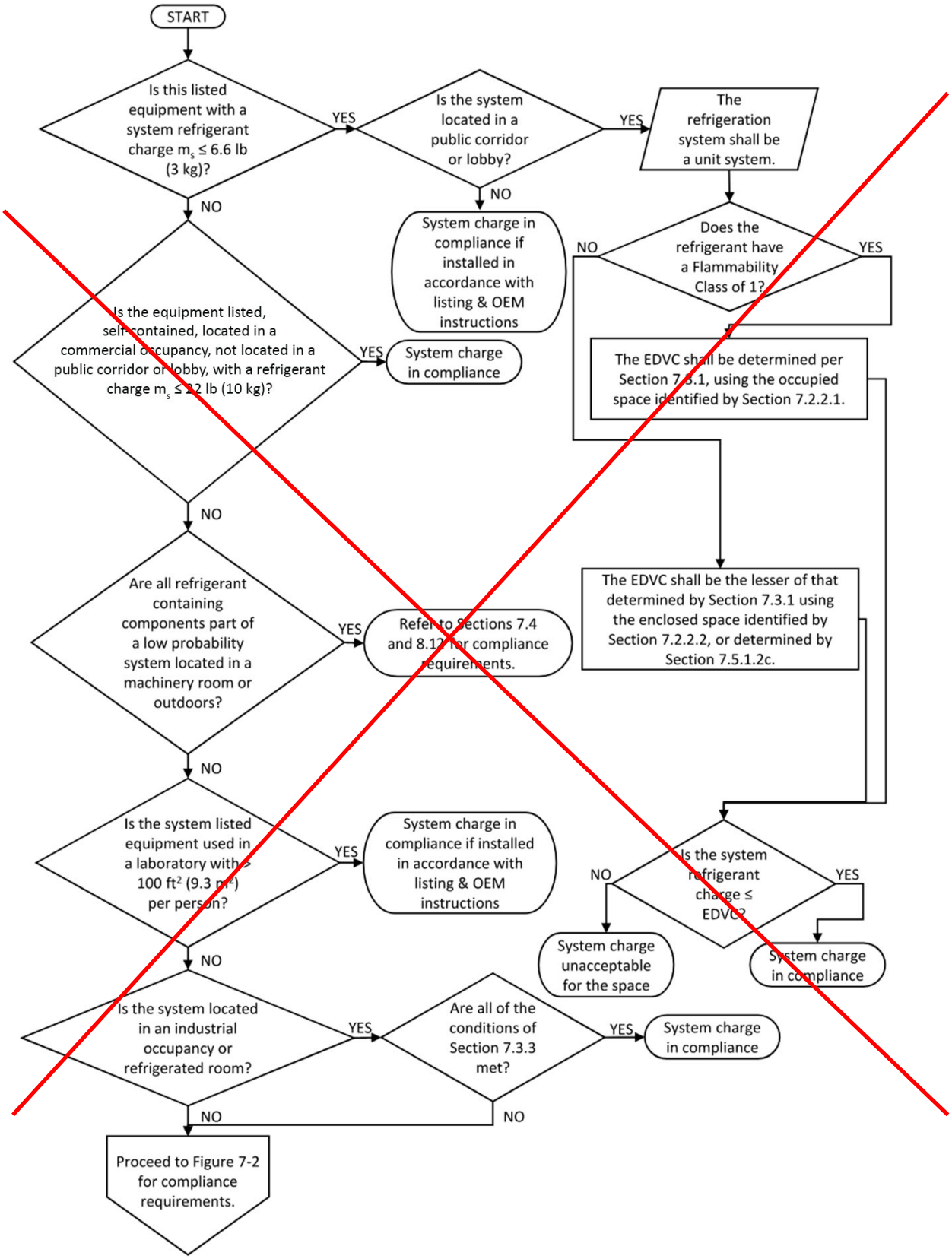


Figure 7-1 Refrigerant charge limit compliance path—Part 1.

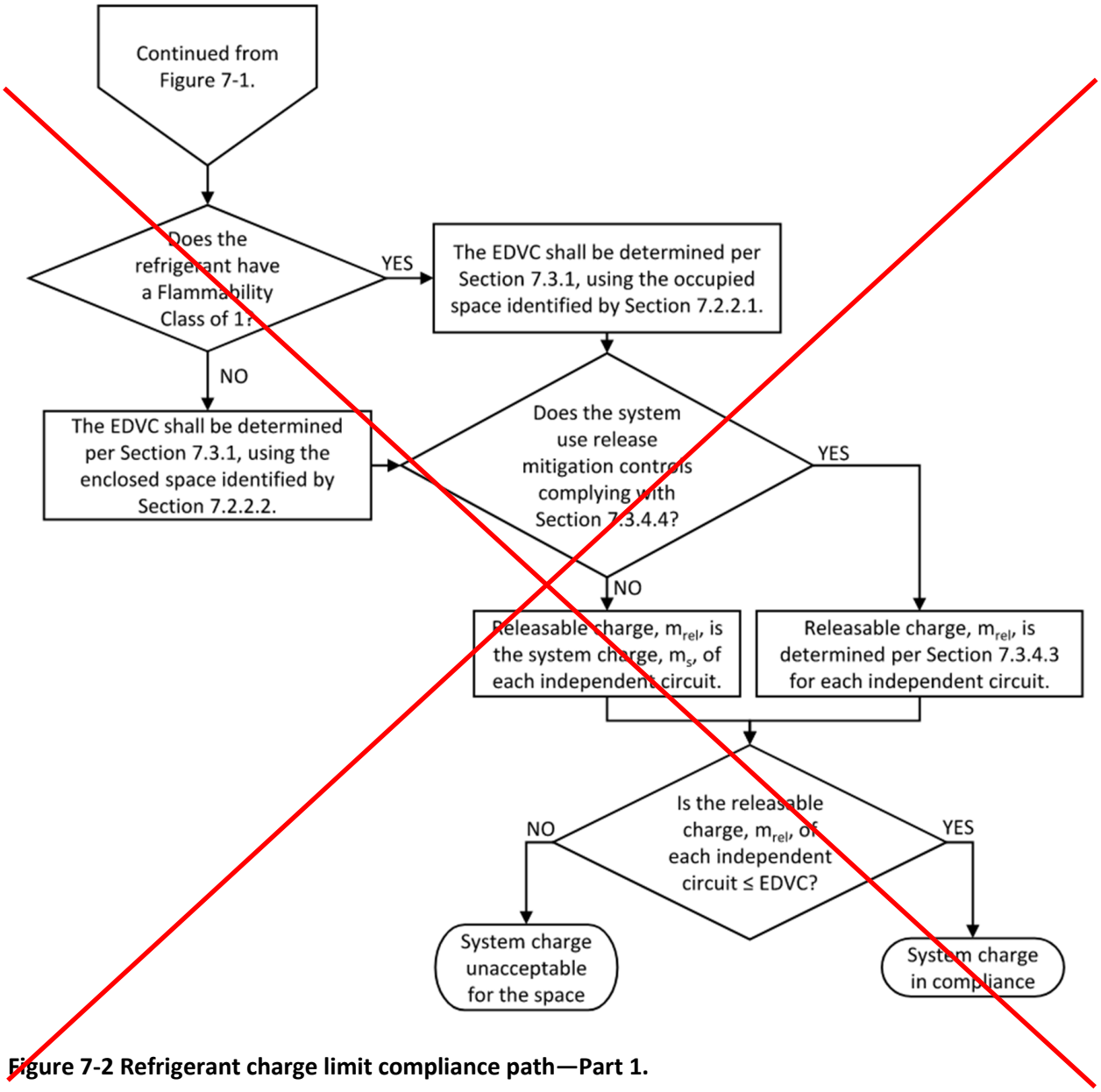


Figure 7-2 Refrigerant charge limit compliance path—Part 1.

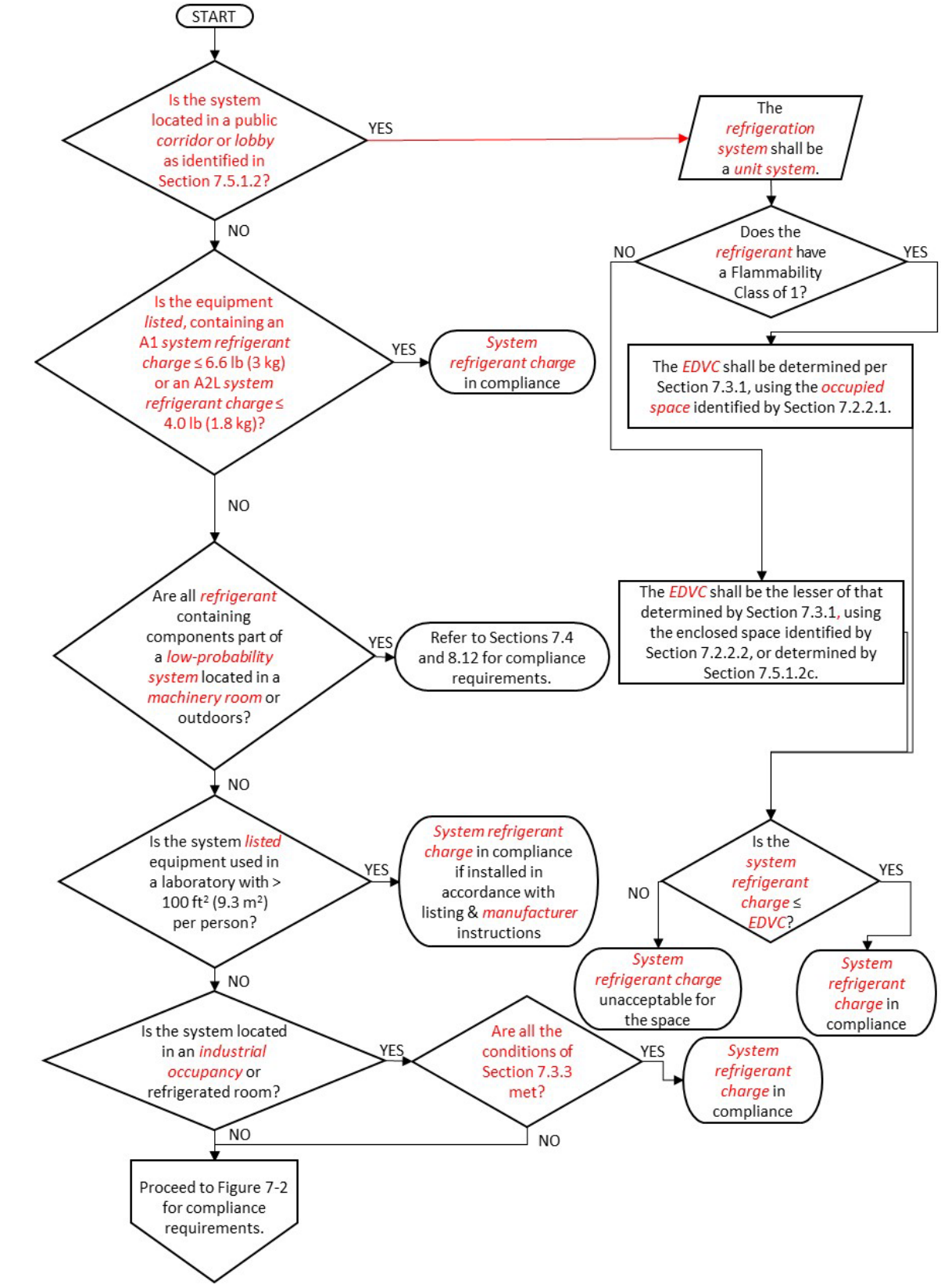


Figure 7-1* Refrigerant charge limit compliance path—Part 1.

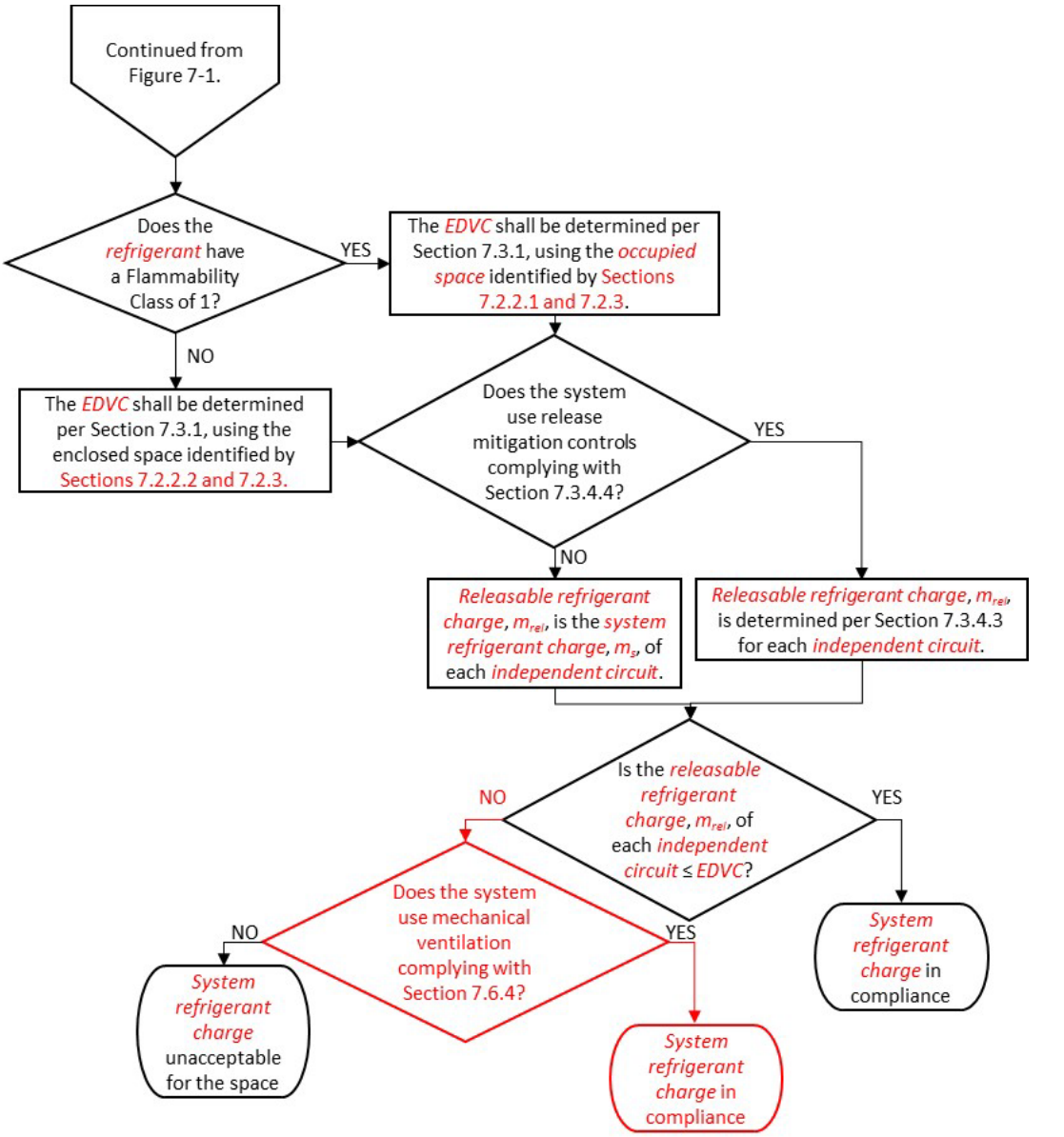


Figure 7-2* Refrigerant charge limit compliance path—Part 1.

[…]

7.4 Location in a Machinery Room or Outdoors. […]

Exceptions to 7.4: *Listed self-contained systems* are permitted outside of a *machinery room*, provided that such systems are not located in public hallways or *lobbies* and are limited to the following *occupancies* and *refrigerant* quantities:

~~1. 6.6 lb (3 kg) of *refrigerant* where located in *residential occupancies*~~

~~2. 22 lb (10 kg) of *refrigerant* where located in *commercial occupancies*~~

1. 6.6 lb (3 kg) of Group A1 *refrigerant* where located in *residential occupancies* or *commercial occupancies*
2. 4.0 lb (1.8 kg) of Group A2L *refrigerant* where located in *residential occupancies* or *commercial occupancies*
3. *Refrigeration systems* located in *industrial occupancies* or refrigerated rooms complying with the conditions of Section 7.3.3.

[…]

7.5 Additional Restrictions

[…]

7.5.2 Application Restrictions by Refrigerant Safety Group

7.5.2.1 High-Probability Air Conditioners, Heat Pumps, and Dehumidifiers. Air conditioners, *heat pumps*, or dehumidifiers classified as a *high-probability system shall* comply with the following:

a. Group A2, A3, B1, B2L, B2, and B3 *refrigerants shall not* be used.

b. Group A2L *refrigerants shall* be in accordance with Section 7.6.

Exceptions to 7.5.2.1:

~~1. These restrictions do not apply to *unit systems* having *refrigerant* quantities less than~~

~~a. 6.6 lb (3 kg) of *refrigerant* where located in *residential occupancies* or~~

~~b. 22 lb (10 kg) of *refrigerant* where located in *commercial occupancies*~~

1. These restrictions do not apply to *unit systems listed* to UL 60335-2-40 [5]/CSA C22.2 No. 60335-2-40 [6], containing no more than 0.106 × *LFL* (lb) (3 × *LFL* [kg]) of Group A2 or A3 *refrigerant*, where located in *residential occupancies* or *commercial occupancies*.
2. These restrictions do not apply to *industrial occupancies*.

[…]

Modify Informative Appendix A as follows. The remainder of Appendix A remains unchanged.

INFORMATIVE APPENDIX A
EXPLANATORY MATERIAL

Sections of the standard with associated explanatory information in this appendix are marked with an asterisk "*" after the section number.

[…]

Section 7.2

[…]

Figures 7-1 and 7-2: In accordance with Section 11.1, more specific requirements of this standard will take precedence over Figures 7-1 and 7-2. This includes meeting the listing requirements of product design standards (e.g., UL 60335-2-40 [5] or UL 60335-2-89 [7]) or other applicable charge limits of this standard (e.g., Sections 7.5.2, 7.5.3, 7.6, 7.7, or 7.8).

[…]