



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

First Public Review Draft

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

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

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FOREWORD

This proposed addendum is in response to a continuous maintenance proposal regarding release mitigation controls.

Note: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strike through~~ (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 Y to Standard 15-2022

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

7. RESTRICTIONS ON REFRIGERANT USE

[...]

7.3 Refrigerant System Charge Limits.

[...]

7.3.4.4 Release Mitigation Controls. Release mitigation controls used to limit the *releasable refrigerant charge* (m_{rel}) shall comply with the following:

- a. Release mitigation systems shall be components of a refrigeration system that is listed per UL 60335-2-40⁵ /CSA C22.2 No. 60335-2-40⁶ or UL 60335-2-89⁷ /CSA C22.2 No. 60335-2-89⁸ and evaluated by the *nationally recognized testing laboratory* as part of the listing.
- b. ~~Release~~ For refrigerating systems listed to UL 60335-2-40⁵ /CSA C22.2 No. 60335-2-40⁶, mitigation controls shall only be permitted for reducing the *releasable refrigerant charge* (m_{rel}) on a refrigeration system where each indoor unit has a cooling capacity of ~~5 tons (17.5 kW)~~ 10 tons (35 kW) or less.
- c. Release mitigation controls shall be activated by a *refrigerant detection system* and shall isolate all portions of the independent circuit(s) associated with a refrigerant detector that has generated an output signal. A *refrigerant detector* shall be located either in all refrigeration equipment serving the spaces or in all spaces served by the release-mitigation-controlled circuit. ~~The refrigerant detector shall activate the release mitigation controls and isolate all possible paths of refrigerant that can leak into the space(s).~~
- d. In the event of a failure of the release mitigation controls or a *refrigerant detector*, the release mitigation controls shall isolate all possible paths of the independent circuit(s) from which refrigerant ~~that~~ can leak into the space(s).
- e. *Refrigerant detectors* shall comply with Section 7.6.2.4 and shall activate the mitigation controls per Section 7.6.2.5. For Group A1 *refrigerants*, 100% of RCL shall be substituted in place of 25% of LFL.
- f. The location of *refrigerant* mitigation controls shall be marked in accordance with the requirements of ASME A13.1⁹.
- g. Release mitigation controls shall be tested in accordance with Section 9.13.

[...]