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

First Public Review Draft

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

First Public Review (July 2025)
(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 clarifies that the italicized terms in Section 4 and 5 are also defined terms and should be considered as such. The definition of "integral", which is taken from ASHRAE 15.2 but a bit different from ASHRAE 15.2 to cover most of the references of "integral" in ASHRAE 15, is also added. In response to CMP 15-2024-0005-001, NRTL is added to the list of acronyms used in the standard. Additionally, this proposed addendum also brings clarity to the refrigerating system classification in Section 5 by clarifying double indirect systems as double indirect open spray systems and adding indirect vented closed systems to the list of low-probability systems.

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 i to Standard 15-2024

Modify Section 3 as follows. The remainder of Section 3 remains unchanged.

3 DEFINITIONS

3.1 General. In the context of this standard, italicized terms and classifications have meanings as defined in Sections 3, 4, and 5.

3.~~1~~2 Defined Terms

[…]

integral: as installed by the *manufacturer* or installed in accordance with the *manufacturer's installation instructions*

[…]

ventilated enclosure: a type of equipment enclosure that includes an ~~integral~~ *integral* ventilation system that will prevent *refrigerant* leaked inside the equipment enclosure from escaping into the space surrounding the equipment enclosure.

[…]

3.~~2~~3 Acronyms, Abbreviations, and Initialisms

[…]

NRTL nationally recognized testing laboratory

[…]

Modify Section 5.2.2 as follows. The remainder of Section 5.2.2 remains unchanged.

5.2.2 Low Probability system

A *low-probability system* is any *refrigeration system* in which the basic design or the location of components is such that leakage of *refrigerant* from a failed connection, seal, or component cannot enter the *occupied space*. Typical *low-probability systems* are ~~(a) indirect closed systems or (b) double indirect systems and (c) indirect open spray systems and (c)~~ (a) *indirect closed systems* or (b) *indirect vented closed systems* or (c) *double indirect open spray systems* and (d) *indirect open spray systems* if the following condition is met: In a low-probability *indirect open spray system*, the *secondary coolant* pressure shall remain greater than *refrigerant* pressure in all conditions of operation and standby. Operation conditions are defined in Section 9.2.1, and standby conditions are defined in Section 9.2.1.2.

[…]

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

7 RESTRICTIONS OF REFRIGERANT USE

7.6 Group A2L Refrigerants for Human Comfort

7.6.2 Listing and Installation Requirements

7.6.2.3* Manufacturer's Refrigerant Detection System Requirements. The following *refrigeration systems shall* have an ~~integral~~ *integral refrigerant detection system*:

a. *Ducted HVAC* systems with a *releasable refrigerant charge* (m_{rel}) more than 4.0 lb (1.8 kg) and with any *duct* openings less than 5.9 ft (1.8 m) above the finished floor

b. *Ducted HVAC* systems where spaces connected to the same supply *air duct* are used as the dispersal floor area to calculate volume per Section 7.2

c. *Refrigeration systems* installed where the *occupancy* classification is *institutional occupancy*

[…]

Modify Section 9 as follows. The remainder of Section 9 remains unchanged.

9 DESIGN AND CONSTRUCTION OF EQUIPMENT AND SYSTEMS

9.12 Refrigerant Pipe Installation

9.12.5 Stop Valves

9.12.5.2 Refrigerating Systems Containing More than 110 1b (50 kg) of Refrigerant. In addition to *stop valves* required by Section 9.12.5.l, *refrigeration systems* containing more than 110 1b (50 kg) of *refrigerant shall* have *stop valves* installed in the following locations:

a. Each inlet of each *liquid receiver*
b. Each inlet and each outlet of each *condenser* when more than one *condenser* is used in parallel

Stop valves shall not be required on the inlet of a receiver in a *condensing unit* or on the inlet of a receiver that is an ~~integral~~ *integral* part of the *condenser* or *refrigeration systems* utilizing *nonpositive displacement compressors*.

[…]