



ADDENDA

**ANSI/ASHRAE Addendum b to
ANSI/ASHRAE Standard 15.2-2022**

Safety Standard for Refrigeration Systems in Residential Applications

Approved by ASHRAE and the American National Standards Institute on October 31, 2022.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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Cognizant TCs: 10.1, Custom Engineered Refrigeration Systems, and 9.1, Large Building Air-Conditioning Systems

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FOREWORD

Addendum b revises ANSI/ASHRAE Standard 15.2 to better align with ANSI/ASHRAE Standard 15, Safety Standard for Refrigeration Systems, and UL 60335-2-40, Household and Similar Electrical Appliances—Safety—Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers, by

- *revising the definition of the term “integral” to allow the installation of refrigerant detectors at the time of system installation, as allowed by UL 60335-2-40;*
- *modifying Section 5.3.2, “Mitigation Action Requirements,” to incorporate the requirements of UL 1996, Electric Duct Heaters, for electric heaters installed in the ductwork, and allowing electric heaters that are part of the indoor unit to be controlled per UL 60335-2-40;*
- *adding an exception to the RCL calculation requirement in Section 9.2, “Maximum Allowable Refrigerant Charge for A1 Refrigerants,” for systems using an A1 refrigerant with a system refrigerant charge less than 6.6 lb (3 kg) that are listed and installed in accordance with the manufacturer’s installation instructions (Figure 9-1, “Charge Limit Compliance Flow Path,” is also updated to reflect this exception); and*
- *revising Section 12.1.1, “Add-On Heat Pumps,” to replace the word “sensor” with “detector” to align with the terminology used throughout the rest of the standard.*

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum b to Standard 15.2-2022

Modify Section 4 as shown. The remainder of Section 4 remains unchanged.

4. DEFINITIONS

4.1 Defined Terms

[...]

integral: as installed by the manufacturer or installed in accordance with the manufacturer’s installation instructions, ~~mounted within or mounted directly to an equipment housing and treated as part of the equipment.~~

[...]

Modify Section 5 as shown. The remainder of Section 5 remains unchanged.

5. GENERAL REQUIREMENTS

[...]

5.3.2 Mitigation Action Requirements.

[...]

- d. De-energize ~~integral electric resistance heat or electric~~ duct heaters resistance heat installed in the ductwork connected to the refrigeration system.

Exception to 5.3.2.(d): De-energization of duct heaters is not required when both of the following are met:

1. There is proof of airflow before the duct heater is energized, and
2. Airflow through the duct heater is greater than 200 fpm (1.02 m/s).

[...]

Modify Section 9 as shown. Existing Figure 9-1 is deleted and replaced as shown. The remainder of Section 9 remains unchanged.

9. REFRIGERANT CHARGE LIMITS

[. . .]

9.2 Maximum Allowable Refrigerant Charge for A1 Refrigerants. [. . .]

Exception to 9.2: *Listed equipment containing not more than 6.6 lb (3 kg) of an A1 refrigerant is exempt from the requirements of Section 9.2, provided that the equipment is installed in accordance with the listing and the manufacturer's installation instructions.*

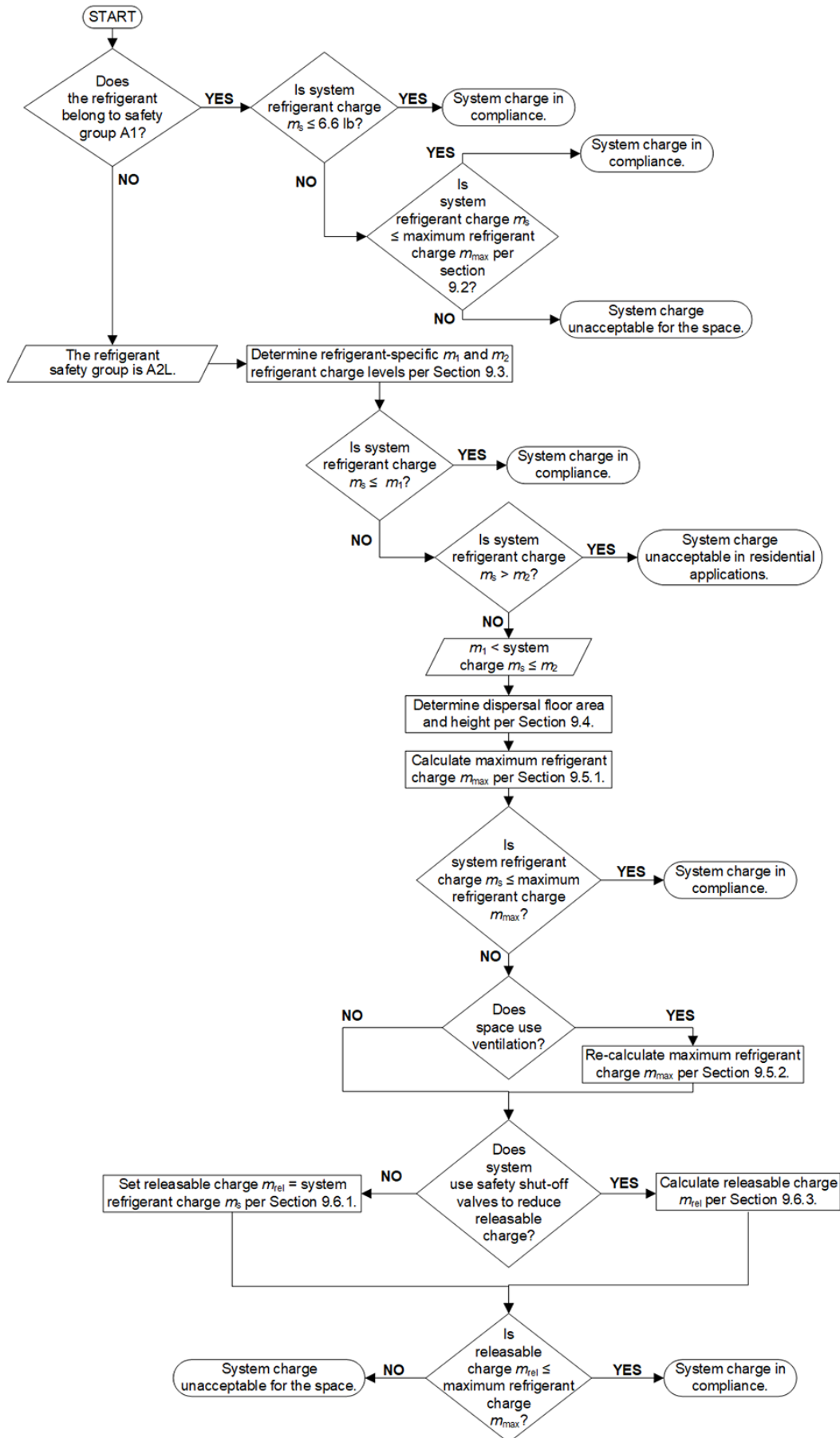


Figure 9-1 Charge limit compliance flow path.

Modify Section 12 as shown. The remainder of Section 12 remains unchanged.

12. ADD-ON HEAT PUMPS

[. . .]

12.1.1 The refrigerant detector(s) sensor of the *refrigerant detection system* shall be an *integral* part of the indoor coil assembly.

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ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

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