



ADDENDA

**ANSI/ASHRAE Addendum b to
ANSI/ASHRAE Standard 147-2019**

Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems

Approved by ASHRAE and the American National Standards Institute on September 1, 2020.

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 (<https://www.ashrae.org/continuous-maintenance>).

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Cognizant TC: 3.8, Refrigerant Containment

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FOREWORD

Addendum b makes additions to Section 7.1.2, "Major Considerations," and Section 8.1.6, "Repairs." The purpose of the changes is to address the proper means and methods for repairing refrigeration systems.

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

Addendum b to Standard 147-2019

Revise Section 7.1.2.2 as shown.

7.1.2.2 All tubes and fittings shall be thoroughly cleaned prior to assembly. Both the outside of copper tube and the inside of fittings must be bright and clean before brazing. Braze filler metal selection shall be consistent with the types of materials being joined. Solder filler material with a melting point less than 800°F (426°C) shall not be used with copper-to-copper or copper-to-steel joints. Solder filler material with a melting point less than 715°F (379°C) shall not be used with copper-to-aluminum or aluminum-to-aluminum joints.

Add new Sections 8.1.6.1 and 8.1.6.2 as shown.

8.1.6.1 Ferrule-Type Compression Fittings. Ferrule-type compression fittings shall not be used for field repair.

8.1.6.2 Solder Filler Material. Solder filler material with a melting point less than 800°F (426°C) shall not be used with copper-to-copper or copper-to-steel joints. Solder filler material with a melting point less than 715°F (379°C) shall not be used with copper-to-aluminum or aluminum-to-aluminum joints.

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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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As an industry leader in research, standards writing, publishing, certification, and continuing education, ASHRAE and its members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with organizations in the HVAC&R community and across related industries.

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