



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

Public Review Draft

**Proposed Addendum b to
Standard 147-2019, Reducing the Release
of Halogenated Refrigerants from
Refrigerating and Air-Conditioning
Equipment and Systems**

**First Public Review (June 2020)
(Draft shows Proposed Changes to Current Standard)**

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ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

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FOREWORD

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

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (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 b to Standard 147-2019

Revise Section 7.1.2.2 under Section 7.1.2 Major Considerations to include the addition as shown below.

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.

Under Section 8.1.6 Repairs, add Sections 8.1.6.1 Ferrule Type Compression Fittings and 8.1.6.2 Solder Filler Material as shown below.

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.