



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

2nd (ISC) Public Review Draft

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

**Second Public Review (February 2026)
(Draft shows Proposed Independent Substantive
Changes to Previous Public Review Draft)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHARE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

© 2024 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Parkway NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: standards.section@ashrae.org.

ASHRAE, 180 Technology Parkway, Peachtree Corners, GA 30092

(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 addendum makes additions and changes to the standard. These changes are necessary to improve the usage and readability of the standard and make adjustments as required to comply with the new TPS as approved in addendum f.

Addendum g was previously published and received some comments to help clarify and improve the standard that the committee has accepted and wants to review as ISC for ppr2

[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 g to Standard 147-2019

Revise Section 3 definitions, as shown below

joint, brazed: a gas-tight joint obtained by joining metal parts with metallic mixtures or alloys that melt at liquidus temperatures higher than ~~800~~ 840°F (426 450°C) but less than the melting solidus temperatures of the joined parts.

joint, soldered: a gas-tight joint obtained by joining metal parts with metallic mixtures or alloys that melt at liquidus temperatures between 400°F and ~~800~~ 840°F (204°C and ~~426~~ 450°C).

Revise Section 4, as shown below

4.5.2 Tapered pipe threads. Tapered pipe threads shall not be used for fittings in refrigerant circuits unless the threads are welded or sealed by equally effective means.

Change from ppr1

joint, brazed: a gas-tight joint obtained by joining metal parts with metallic mixtures or alloys that melt at liquidus temperatures higher than 840°F (449 450°C) but less than the melting solidus temperatures of the joined parts.

joint, soldered: a gas-tight joint obtained by joining metal parts with metallic mixtures or alloys that melt at liquidus temperatures between 400°F and ~~800~~ 840°F (204°C and ~~449~~ 450°C).

4.5.2 **Tapered pipe threads.** Tapered pipe threads shall not be used for fittings in refrigerant circuits unless the threads are ~~back~~-welded or sealed by equally effective means.

Revise Section informative appendix C as

INFORMATIVE APPENDIX C INFORMATIVE REFERENCES

C.XX AWS/ANSI 2020 13th edition A3.0M/A3.0:2020 STANDARD WELDING TERMS AND DEFINITIONS; INCLUDING TERMS FOR ADHESIVE BONDING, BRAZING, SOLDERING, THERMAL CUTTING, AND THERMAL SPRAYING DANVERS, MA: American Welding Society