



ADDENDA

**ANSI/ASHRAE Addendum b to
ANSI/ASHRAE Standard 147-2013**

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

Approved by ASHRAE on March 26, 2018, and by the American National Standards Institute on March 27, 2018.

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FOREWORD

Addendum b makes changes to Informative Appendix A, Section A2.2.1.1. These changes place more specificity on the issues with the causes of refrigerant leaks in systems due to vibration. It also identifies two different remedies to vibration issues.

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 147-2013

Revise Section A2.2.1 as shown.

A2.2.1 Air-Cooled Condensers and Evaporators

A2.2.1.1 Vibration. Excessive vibration can cause failure of the tubing connected to the condensers and evaporators, leading to refrigerant leaks. Vibration can come from the compressors, fans, nearby equipment, refrigerant boiling off inside a flooded evaporator, or excessive refrigerant velocity inside the tubing. This problem can be avoided by (a) using vibration dampening pads or springs at the fans, on the mounting base, or mounting lugs or (b) by changing the spacing of tubing supports as required. ~~or other equipment can cause tube failure. These effects should be considered.~~

POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

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.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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