



**BSR/ASHRAE Addendum i
to ANSI/ASHRAE Standard 147-2013**

Public Review Draft

**Proposed Addendum i to
Standard 147-2013, Reducing the
Release of Halogenated Refrigerants
from Refrigerating and Air-Conditioning
Equipment and Systems**

**First Public Review (August 2019)
(Draft shows Proposed Changes to Current Standard)**

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FOREWORD

This addendum changes Section 4.3.2, Vibration to consistently refer to “endurance limits” rather than “endurance testing,” to broaden the scope referring to all tubing rather than only copper tubing, and to offer examples of small diameter tubing that is to be constructed with vibration loops.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (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 i to 147-2013

Change Section 4.3.2 as shown below.

4.3.2 Vibration. To minimize leakage due to vibration, compressors, compressor mountings, and piping connections shall be evaluated to see that vibration-induced stresses do not exceed material endurance limits. If the equipment is not evaluated for material endurance limits, then all ~~copper~~ tubing that is of an outside diameter of 3/8 in. [9.5mm] or smaller, such as sensing lines to gauges or oil lines, (excluding suction and discharge) and ~~is~~ are connected to compressors or assemblies that are not isolated from compressor vibrations shall be constructed with vibration loops to minimize fatigue at connections.